Sterling Environmental Engineering, P.C.

PERIODIC REVIEW REPORT
Reporting Period of September 30, 2020 through April 6, 2022

ORANGE COUNTY LANDFILL
NYSDEC SITE NO. 336007
ROUTE 17M, GOSHEN, NEW YORK

Prepared for:

Orange County Department of Public Works
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May 5, 2022

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CERTIFICATION

I, Andrew M. Millspaugh, P.E., certify that I am a New York State registered professional engineer and that this Periodic Review Report (PRR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in accordance with the DER-approved work plan and any DER-approved modifications.

Andrew M. Millspaugh, P.E. — Date: 05/05/2022

EXECUTIVE SUMMARY

The Orange County Landfill (Landfill) is located in the Town of Goshen, Orange County, New York (refer to Figure 1) and is registered as a Class 2 Inactive Hazardous Waste Disposal Site ("the Site"), Registry No. 3-36-007 by the New York State Department of Environmental Conservation (NYSDEC).

The NYSDEC issued a Record of Decision (ROD) on January 28, 1994 for Operable Unit 2 that required construction of a final cover over the Landfill waste mass, which was completed in 1995. A second ROD addressing the Site as a whole, including any contamination that may have migrated from the waste mass, was issued on March 26, 1998 for Operable Unit 1. The selected remedies for the Landfill include Institutional Controls (IC) through a Declaration of Covenants and Restrictions that restricts disturbance of the Landfill cover and places restrictions on site uses, and Engineering Controls (EC) provided by the Landfill cover and leachate collection systems, air and water quality monitoring, and regular inspections and maintenance activities. Post-closure water and air quality monitoring, leachate removal, and inspections and maintenance at the Landfill have been provided by Orange County since 1996. A Site Management Plan (SMP) was approved by the NYSDEC on August 5, 2014, which incorporates the Institutional/Engineering Control (IC/EC) Plan, the Inspection and Monitoring Plan, and the Operation and Maintenance Plan to provide for the continual post-closure monitoring and maintenance of the Landfill.

A Periodic Review Report (PRR) is required to document site management activities outlined in the SMP. This PRR covers the reporting period of September 30, 2020 through April 6, 2022.

The remedial program implemented at the Landfill has been successful in meeting the remedial objectives set forth in the RODs. Leachate generation and contaminant migration through groundwater has been reduced, contaminated surface run-off and direct human/animal contact with waste is eliminated, and Landfill gas migration/buildup is prevented. Groundwater seeps exhibiting some detectable leachate constituents have been occasionally observed along the banks of the Cheechunk Canal, downgradient of the Landfill. The County received NYSDEC approval of the Remedial Action Work Plan (RAWP) on March 20, 2017 to address the observed seeps. Subsequently on May 31, 2017, the County requested that the NYSDEC issue the required Water Quality Certification so that coverage under the United States Army Corps of Engineers (USACE) Nationwide Permit (NWP) No. 38 could be obtained. A revised request was submitted by the County on July 12, 2017 and the County submitted Form 4345 for Pre-Construction Notification (PCN) to the USACE Northern District on September 14, 2017. The Water Quality Certification Permit was reissued in 2019 and extended through the end of 2019 as requested by Sterling Environmental Engineering, P.C.'s (STERLING) letter dated December 31, 2018.

Field activities associated with the RAWP were initiated in October 2019, including soil excavation of the seep areas, armoring the excavation areas with stone, and installation of a 320-foot long horizontal directional drill (HDD) groundwater recovery well upgradient of the seeps. The HDD well pump and appurtenances were installed in July 2020. On July 9, 2020, the County submitted a Groundwater Recovery System Pilot Program Work Plan, which was approved by the NYSDEC in July 2020. The pump was turned on to initiate startup testing on July 31, 2020. The pilot study was completed in accordance with the approved Work Plan beginning in June 2021. Implementation of the RAWP is documented in the Final Engineering Report for Landfill Seep Corrective Measures, dated August 30, 2021, which was approved by the NYSDEC on April 6, 2022.

Based on the results of activities performed during this PRR reporting period, no additional changes to the approved SMP are recommended. The requirements for discontinuing site management have not been met. As such, continued compliance with the approved SMP and the proposed seep remediation are appropriate.

1.0 INTRODUCTION

The Orange County Landfill (Landfill) is located in the Town of Goshen, Orange County, New York (refer to Figure 1) and is registered as a Class 2 Inactive Hazardous Waste Disposal Site, Registry No. 3-36-007 by the NYSDEC.

A Periodic Review Report (PRR) is required to document site management activities outlined in the Site Management Plan (SMP). This PRR covers the reporting period of September 30, 2020 through April 6, 2022.

1.1 Summary of Site Contamination and Site History

The NYSDEC issued a Record of Decision (ROD) on January 28, 1994 for Operable Unit 2 that required construction of a final cover over the Landfill waste mass, which was completed in 1995. A second ROD addressing the Site as a whole, including any contamination that may have migrated from the waste mass, was issued on March 26, 1998 for Operable Unit 1. The selected remedies for the Landfill include Institutional Controls (IC) through a Declaration of Covenants and Restrictions that restricts disturbance of the Landfill cover and places restrictions on site uses, and Engineering Controls (EC) provided by the Landfill cover and leachate collection systems, air and water quality monitoring, and regular inspections and maintenance activities. Post-closure water and air quality monitoring, leachate removal, and inspections and maintenance at the Landfill have been provided by Orange County since 1996. An SMP was approved by the NYSDEC on August 5, 2014, which incorporates the Institutional/Engineering Control (IC/EC) Plan, the Inspection and Monitoring Plan, and the Operation and Maintenance Plan to provide for the continual post-closure monitoring and maintenance of the Landfill.

1.2 Effectiveness of the Remedial Program and Compliance

The remedial program implemented at the Landfill has been successful in meeting the remedial objectives set forth in the RODs. Leachate generation and contaminant migration through groundwater has been reduced, contaminated surface runoff and direct human/animal contact with waste is eliminated, and Landfill gas migration/buildup is prevented. Groundwater seeps exhibiting some detectable leachate constituents have been occasionally observed along the banks of the Cheechunk Canal, downgradient of the Landfill. The County received NYSDEC approval of the Remedial Action Work Plan (RAWP) on March 20, 2017 to address the observed seeps. Subsequently on May 31, 2017, the County requested that the NYSDEC issue the required Water Quality Certification so that coverage under the United States Army Corps of Engineers (USACE) Nationwide Permit (NWP) No. 38 could be obtained. A revised request was submitted by the County on July 12, 2017 and the County submitted Form 4345 for Pre-Construction Notification (PCN) to the USACE Northern District on September 14, 2017. The Water Quality Certification Permit was reissued in 2019 and extended through end of 2019 as requested by Sterling Environmental Engineering, P.C.'s letter dated December 31, 2018.

Field activities associated with the RAWP were initiated in October 2019, including soil excavation of the seep areas, armoring the excavation areas with stone, and installation of a 320-foot long horizontal directional drill (HDD) groundwater recovery well upgradient of the seeps. The HDD well pump and appurtenances were installed in July 2020. On July 9, 2020, the County submitted a Groundwater Recovery System Pilot Program Work Plan, which was approved by the NYSDEC in July 2020. The pump was turned on to initiate startup testing on July 31, 2020. The pilot study was completed in accordance with the approved Work Plan beginning in June 2021. Implementation of the RAWP is documented in the Final

Engineering Report for Landfill Seep Corrective Measures, dated August 30, 2021, which was approved by the NYSDEC on April 6, 2022.

1.3 Recommendations

Based on the results of activities performed during this PRR reporting period, no additional changes to the approved SMP are recommended. The SMP requirements for discontinuing site management have not been met. As such, continued compliance with the approved SMP is appropriate.

2.0 SITE OVERVIEW

The Landfill consists of a 75-acre waste mass on a 300-acre rural parcel approximately three (3) miles west of the Village of Goshen on the south side of Route 17M in the Town of Goshen, Orange County, New York (see Figure 1).

The Landfill property is bounded by the Cheechunk Canal to the southeast and by the Old Channel of the Wallkill River that flows along the northern and western boundaries of the Landfill property. Immediately northwest of the Landfill, a proposed Landfill expansion of an additional 75-acres was intended, but the expansion project was never completed nor used for landfilling. Adjacent to the eastern edge of the Landfill lies a former landfill-to-gas energy system facility. The New Hampton Transfer Station is located on the northeast border of the 300-acre parcel (see Figure 2).

The Orange County Department of Public Works operated the Landfill between 1974 and January 1992. Approximately 7,000,000 cubic yards of predominantly municipal waste was disposed; however, waste oil, septic sludge, industrial waste, and hazardous waste are documented to have also reportedly been disposed at the Landfill.

The Landfill was classified as a "Class 2" Inactive Hazardous Waste Disposal Site by the NYSDEC in March 1992 identified by Site Number 336007. The NYSDEC issued two RODs, dated January 1994 and March 1998, respectively. The January 1994 ROD accelerated the capping of the Landfill and the March 1998 ROD addressed contamination that may have migrated from the waste mass.

The selected remedies for the Landfill include institutional and engineering controls. Institutional control (IC) is provided in the form of a Declaration of Covenants and Restrictions that restricts disturbance of the Landfill cover and places restrictions on site uses. Engineering controls (EC) are provided by the Landfill cover and leachate collection systems, air and water quality monitoring, and regular inspections and maintenance activities.

The ongoing post-closure activities are outlined by the approved SMP and are based on the requirements of the Technical Guidance for Site Investigation and Remediation (DER-10), Section 6.2. The June 6, 2014 SMP (approved by the NYSDEC on August 5, 2014) incorporates the IC/EC Plan, the Inspection and Monitoring Plan, and the Operation and Maintenance Plan, which provide for the continual post-closure monitoring and maintenance of the Landfill.

Since January 1996, Orange County has submitted Post-Closure Monitoring and Maintenance (PCMM) reports to the NYSDEC documenting the Landfill inspection, environmental monitoring, and leachate management activities. Since 2014, the NYSDEC has required documentation in the form of a PRR.

3.0 PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The Landfill has been subject to a PCMM Program since January 1996 (with revisions in January 1999, December 2002 and June 2014) that provides for regular site inspections; groundwater, surface water, and leachate monitoring; leachate collection and management; mowing; and Landfill gas management. Monitoring sample locations are shown on Figure 2.

3.1 Groundwater Quality

Historical results obtained over two decades of monitoring indicate groundwater near the Landfill is characterized by levels of turbidity and concentrations of total dissolved solids (TDS), iron, and manganese, and occasional concentrations of ammonia, bromide, chloride, phenolics, sulfate, arsenic, beryllium, cadmium, chromium, copper, lead, magnesium, nickel, selenium, sodium, and thallium that exceed groundwater standards (NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1), Ambient Water Quality Standards and Guidance Values (June 2004)). Historically, leachate indicator parameters such as alkalinity, ammonia, chemical oxygen demand (COD), chloride, sulfate, TDS, Total Kjeldahl Nitrogen (TKN), and total organic carbon (TOC) along with inorganic compounds such as iron, magnesium, manganese, potassium, and sodium were evaluated.

Groundwater sampling during this reporting period were conducted from October 27 through 29, 2021. Field parameters and groundwater elevations for site groundwater are presented in Tables 1 and 2, respectively. A groundwater contour map for the overburden hydrogeologic unit is provided as Figure 3. Groundwater analytical results are summarized in Table 3 and are compared to the NYSDEC TOGS 1.1.1, June 2004.

The analytical results are consistent with past monitoring results. No volatile organic compounds (VOCs) were detected at any of the overburden or bedrock monitoring wells sampled during this reporting period.

Groundwater quality results indicate no exceedances for alkalinity, bromide, COD, chloride, cyanide, hardness, hexavalent chromium, phenolics, sulfate, TKN, TOC, VOCs, aluminum, antimony, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, lead, mercury, nickel, potassium, selenium, silver, vanadium, and zinc.

No significant differences in concentrations or data trends were observed for metals or select leachate indicator parameters (ammonia, color, nitrate, and TDS) compared to where exceedances were historically reported. A detailed summary of reported parameter exceedances during this reporting period is provided in the following table:

Summary of Parameter Exceedances

Parameter Exceeding Water Quality Standard (TOGS 1.1.1)	**Monitoring Well Location (**Analytical Results**)**
Turbidity (5 NTU)	Downgradient Overburden MW-245S (78.79 NTU) Downgradient Overburden PZ-4 (167.94 NTU)
Ammonia (2.0 mg/L)	Downgradient Bedrock MW-245D (7.33 mg/L) Downgradient Overburden MW-3B (5.84 mg/L)

Nitrate (10 mg/L)	Upgradient Overburden well MW-233S (11 mg/L)
Color (15 Color Units)	Downgradient Overburden MW-3B (17 Color Units)
TDS (500 mg/L)	Upgradient Overburden MW-233S (540 mg/L) Upgradient Bedrock MW-233D (520 mg/L) Downgradient Overburden MW-3B (640 mg/L) Downgradient Overburden MW-220 (700 mg/L) Downgradient Overburden MW-245S (600 mg/L) Downgradient Overburden PZ-4 (800 mg/L) Downgradient Bedrock MW-245D (530 mg/L)
Metal Results Reported as (Total / Dissolved)***	
Arsenic (0.025 mg/L)	Downgradient Overburden MW-3B (0.04801 mg/L / 0.03485 mg/L)
Iron (0.3 mg/L**)	Upgradient Overburden MW-233S (0.0564 mg/L** / < 0.0191 mg/L) Downgradient Overburden MW-3B (1.6 mg/L / < 0.0191 mg/L) Downgradient Overburden MW-220 (0.95 mg/L / < 0.0191 mg/L) Downgradient Overburden MW-245S (1.91 mg/L / < 0.0191 mg/L) Downgradient Overburden PZ-4 (8.11 mg/L / < 0.0191 mg/L) Downgradient Bedrock MW-245D (0.59 mg/L / < 0.0191 mg/L)
Magnesium (35 mg/L)	Upgradient Overburden MW-233S (33.3 mg/L / 35.1 mg/L) Downgradient Overburden MW-3B (36 mg/L / 39.6 mg/L) Downgradient Overburden MW-220 (40 mg/L / 0.6198 mg/L) Downgradient Overburden PZ-4 (48.8 mg/L / 51.1 mg/L)
Manganese (0.3 mg/L**)	Upgradient Overburden MW-233S (0.7505 mg/L / 0.08003 mg/L) Downgradient Overburden MW-3B (0.9666 mg/L / 0.9218 mg/L) Downgradient Overburden MW-220 (0.6152 mg/L / 0.6198 mg/L) Downgradient Overburden MW-245S (1.396 mg/L / 1.388 mg/L) Downgradient Overburden PZ-4 (1.602 mg/L / 1.132 mg/L) Downgradient Bedrock MW-245D (0.1769 mg/L** / 0.1839 mg/L)
Sodium (20 mg/L)	Upgradient Bedrock MW-233D (108 mg/L / 104 mg/L) Downgradient Overburden MW-3B (46 mg/L / 46.1 mg/L) Downgradient Overburden MW-245S (44.2 mg/L / 44.4 mg/L) Downgradient Overburden PZ-4 (30.6 mg/L / 31.4 mg/L) Downgradient Bedrock MW-245D (48.3 mg/L / 48.9 mg/L)
Thallium (0.0005 mg/L)	Downgradient Bedrock MW-245S (0.00029 mg/L* / 0.00061 mg/L*)

* Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

** The standard for the sum of iron and manganese is 0.5 mg/L.

******* For metals, results are shown for both Total and Dissolved (Filtered) analyses with comparison to the NYS TOGS 1.1.1 Water Quality Standards and Guidance Values for Total Metals. Concentrations that exceed the applicable standard for Total metals only may be associated with particulates in the sample.

The following table indicates the highest concentration areas for parameter exceedances:

Parameter	Highest Concentration Areas
Ammonia	MW-245D
Color	MW-3B
Nitrate	MW-233S
TDS	PZ-4
Arsenic, Dissolved	MW-3B
Arsenic, Total	MW-3B
Iron, Total	PZ-4
Magnesium, Total	PZ-4
Magnesium, Dissolved	PZ-4
Manganese, Total	PZ-4
Manganese, Dissolved	MW-245S
Sodium, Total	MW-233D
Sodium, Dissolved	MW-233D
Thallium, Dissolved	MW-245S

A summary of current groundwater quality compared to historical results is presented below:

- MW-3B (Downgradient Overburden Hydrogeologic Unit) - TOGS 1.1.1 exceedances for color, TDS, ammonia, arsenic, iron, manganese, magnesium, and sodium were reported. TDS, iron, manganese, and sodium have consistently exceeded their applicable standard at this downgradient monitoring well since 2011. TDS, manganese, and sodium concentrations continue to exhibit consistent trends compared to historical results. Both total and dissolved arsenic, manganese, magnesium, and sodium in groundwater concentrations exceeded NYS TOGS 1.1.1.
- MW-220 (Downgradient Overburden Hydrogeologic Unit) - TOGS 1.1.1 exceedances for TDS, iron, magnesium, and manganese were reported, which have consistently exceeded their applicable standard at this downgradient overburden monitoring well. With the exception of iron, which decreased, reported concentrations for these parameters are to historical ranges. Concentrations of arsenic and lead have decreased compared to 2020 and arsenic was below its applicable standard for the first time since 2018. Both the total and dissolved magnesium and manganese in groundwater concentrations exceeded NYS TOGS 1.1.1.
- MW-233S (Upgradient Overburden Hydrogeologic Unit) - TOGS 1.1.1 exceedances for TDS, nitrate, iron, manganese, and magnesium were reported. Reported concentrations for TDS, nitrate, and manganese for 2021 are similar to concentrations reported in 2020.
- MW-233D (Upgradient Bedrock Hydrogeologic Unit) - TOGS 1.1.1 exceedances for TDS, and sodium were reported at concentrations consistent with historical ranges. Both the total sodium in groundwater concentration and dissolved sodium in groundwater concentration exceeded NYS TOGS 1.1.1.
- MW-245S (Downgradient Overburden Hydrogeologic Unit) - TOGS 1.1.1 exceedances for Turbidity, TDS, iron, manganese, thallium, and sodium were reported. TDS, iron, manganese, and sodium have consistently exceeded their applicable standard at this downgradient monitoring well. Reported concentrations for these parameters are within historical ranges. Both the total and dissolved concentrations of manganese and sodium in groundwater exceeded NYS TOGS 1.1.1. 2021 is the first monitoring event where dissolved thallium has had a concentration that exceeded NYS TOGS 1.1.1.

- MW-245D (Downgradient Bedrock Hydrogeologic Unit) - TOGS 1.1.1 exceedances for ammonia, TDS, iron, manganese, and sodium were reported. Turbidity, ammonia, iron, and sodium consistently exceed their applicable standard. Ammonia is displaying a slight increasing trend. Iron concentrations are decreasing and approaching the applicable standard. Sodium concentrations are stable within the historical range. Both the total and dissolved sodium in groundwater concentration exceeded NYS TOGS 1.1.1.
- PZ-4 (Downgradient Overburden Hydrogeologic Unit) - TOGS 1.1.1 exceedances for TDS, iron, magnesium, manganese, and sodium were reported. TDS, iron, and manganese have consistently exceeded their applicable standard and are within observed historical ranges. Sodium concentrations are displaying a slight increasing trend. Both the total and dissolved concentrations for magnesium and sodium in groundwater exceeded NYS TOGS 1.1.1.

3.2 Surface Water Quality

Analytical results for site surface water are presented in Table 4. The surface water samples were collected from downstream surface water monitoring locations SW-5 and SW-8 and from upstream surface water monitoring location SW-13 (see Figure 2).

Reported concentrations for iron exceeded the TOGS 1.1.1 Class C surface water quality standard of 0.3 mg/L at SW-13 (1.06 mg/L), SW-5 (0.978 mg/L), and SW-8 (1.18 mg/L). Review of historical concentrations (from 1999 through 2020) indicate that iron in surface water results were consistent with past reported concentrations at each location. Reported concentrations for aluminum in surface water slightly exceeded the TOGS 1.1.1 Class C surface water quality standard of 0.1 mg/L at SW-13 (0.516 mg/L), SW-5 (0.448 mg/L), and SW-8 (0.592 mg/L). Reported concentrations for aluminum in surface are consistent with historical ranges.

There were no VOC exceedances of the TOGS 1.1.1. Class C surface water quality standards in any of the surface water samples collected. No water quality parameters exceeded standards or guidance values besides iron and aluminum. The reported exceedances were consistent with historical results for parameters at each location.

3.3 Leachate Quality

Analytical results for leachate collected from manhole 7 (MH-7) and manhole 15 (MH-15) are summarized in Table 5 and are generally consistent with previous results. Leachate water quality is generally characterized by detectable to elevated concentrations of leachate indicators such as ammonia, bromide, chloride, nitrate, phenolics, sulfate, and TDS, and inorganic parameters including antimony, boron, iron, magnesium, manganese, nickel, and sodium. Inorganic analytes that were not detected include: beryllium, hexavalent chromium, selenium, silver, thallium, and vanadium.

The VOCs 1,4-Dichlorobenzene (estimated as 1.2 µg/L), benzene (estimated as 0.57 µg/L), chlorobenzene (estimated as 0.98 µg/L), chloroethane (estimated as 1.4 µg/L) , and p/m xylene (estimated as 0.8 µg/L). were detected at manhole MH-15, while the VOCs acetone (estimated as 15 µg/L), benzene (estimated as 1.2 µg/L), and chlorobenzene (estimated as 1.4 µg/L) were detected at manhole MH-7.

3.4 Air Quality

In accordance with the SMP, Landfill gas monitoring consists of measuring explosive gas (percent lower explosive limit, or % LEL) and VOCs in the headspace at each monitoring well/piezometer, leachate manholes MH-7 and MH-15, and along the Landfill perimeter. Explosive gas and VOC measurements were obtained with a MultiRAE gas monitor. VOCs are also analyzed in post-closure groundwater, surface water, and leachate samples.

No detections of VOCs or explosive gas were recorded at any of the monitoring wells, piezometers, or leachate manholes monitored.

A perimeter explosive gas survey was performed on October 29, 2021. Gas measurements as % LEL were recorded at approximately 100-foot intervals along the Landfill perimeter from temporary subsurface probe holes installed at depths of 12 to 18 inches below ground surface. No explosive gas or VOCs were detected at any of the monitoring locations. The results indicate that explosive gas is not migrating off the Landfill property and that the Landfill is in full compliance with the requirements set forth in 6 NYCRR 360-2.15(k)(4) and 2.17(f) (effective prior to November 4, 2017).

3.5 Seeps

In accordance with the SMP, observation for leachate outbreaks is the focus of regular inspections performed by Orange County personnel. Conditions indicative of leachate outbreaks, such as wet spots, dead vegetation, surface sloughing, or discoloration are documented, if present. No visible seeps were observed during the sampling and inspection event; therefore, no seep samples were collected.

4.0 INSTITUTIONAL/ENGINEERING CONTROL PLAN COMPLIANCE

The multiple institutional and engineering controls for the Landfill implemented by the RODs and documented in the SMP continue to be in place and performing as designed. These controls were reviewed and evaluated through this PRR.

4.1 Institutional Controls

Institutional controls (IC) include non-physical means of enforcing a restriction on the use of real property that limits human and environmental exposure, restricts the use of groundwater, provides notice to the potential owners, operators, or members of the public, or prevents actions that would interfere with the effectiveness of the remedial program or with the effectiveness and/or integrity of operation, maintenance, or monitoring activities at or pertaining to the Landfill property.

4.1.1 Deed Restrictions

The IC for the Landfill is in the form of a Declaration of Covenants and Restrictions filed with the deed for the Landfill property. The Declaration of Covenants and Restrictions was executed on June 13, 2014 and continues to protect both human health and the integrity of the Landfill. No uses, disturbances, or interferences have been allowed by Orange County. Any future use to the Landfill footprint must be approved by Orange County and NYSDEC. The underlying groundwater is not a source of drinking water for nearby residents.

4.2 Engineering Controls

Engineering controls (EC) include physical barriers or methods employed to actively or passively contain, stabilize, or monitor contamination, restrict the movement of contamination to ensure the long-term effectiveness of the remedial program, or eliminate potential exposure pathways to contamination. The following sections describe the ECs and their goals as part of the remedy for the Landfill from the ROD dated March 1998.

4.2.1 Part 360 Landfill Cover System

Installation of the standard Part 360 Landfill cover system (completed in November 1995) minimizes infiltration of precipitation to wastes and the resultant generation of leachate and prevents the release of previously disposed wastes. The cover system is regularly inspected by Orange County to evaluate its performance and assess the physical condition of the following Landfill components: settlement and erosion of Landfill cover, vegetative growth, slope stability, damage due to presence of vector populations over or near Landfill cover (e.g., burrow holes), monitoring well and Landfill gas vent integrity, presence or absence of leachate outbreaks, surface water drainage structures, site fencing, gates, and access roads, and evidence of trespassing.

Orange County personnel perform monthly post-closure field inspections to monitor the integrity of the Landfill cover system. As indicated in the completed inspection reports in Appendix B, the Landfill cover system was observed to be well maintained and in good condition. No damage to the Landfill cover system was observed. The Landfill appears secure and stable, and the Landfill cover is intact with no evidence of stressed vegetation or damage due to settlement or active vectors. The stormwater drainage system appeared to be functioning as designed. Beyond the regular ongoing post-closure care, no actions or special maintenance is required for the Part 360 Landfill cover system at this time.

4.2.2 Leachate Collection System

The leachate collection system is located along the perimeter of the waste mass. Leachate from the waste mass is collected through underground pipes that flow by gravity to sumps. From these sumps, leachate is pumped into aboveground storage tanks where the leachate is regularly removed for offsite treatment. Modifications to the collection system were introduced with the March 1998 ROD where approximately 950 feet of additional leachate collection piping was installed to contain leachate outbreaks encountered during excavation of a new drainage ditch along the southeastern perimeter road.

The perimeter leachate collection system continues to function as designed. Records of leachate removal and treatment are provided in Appendix B. The total leachate removed from the Landfill for treatment at an offsite permitted facility was 671,009.6 gallons for this reporting period.

4.2.3 Groundwater Monitoring Wells

Existing groundwater monitoring wells are located along the upgradient, crossgradient, and downgradient perimeter of the Landfill waste mass. The wells are used to monitor groundwater quality around the Landfill property. Monitoring wells are routinely checked for sediment buildup in the well using depth to bottom measurements, and for the integrity of the outer casing, lid, and lock. These monitoring wells are sampled every fifth quarter for 6 NYCRR Part 360 Baseline Parameters for indication of contamination by the Landfill waste mass.

Overall, the monitoring well network is functioning as designed and Orange County will continue the approved monitoring program.

4.2.4 Surface Water Runoff Features

Surface water runoff features are located on and around the Landfill property. Terraces and riprap channels on the Landfill cover system direct stormwater runoff to the Landfill perimeter drainage ditches successfully preventing the occurrence of standing water on the Landfill. The surface water runoff is directed from perimeter drainage ditches into drainage basins to reduce particulates and sediment before ultimately discharging into the Cheechunk Canal. These surface water runoff features are checked monthly for sediment buildup, overgrowth of vegetation, overflow of drainage ditches or basins, improper drainage of terraces and channels, and sloughing of the Landfill cover. Appendix B contains documentation of monthly inspections of the surface water runoff features. Based on the observed conditions, no corrective measures are needed for the surface water management features.

4.2.5 Horizontal Recovery Well

As documented in the August 30, 2021 Final Engineering Report for Landfill Seep Corrective Measures, a horizontal recovery well has been installed to intercept Landfill-impacted groundwater contributing to seeps along the Cheechunk Canal. Recovered groundwater is containerized in a 20,000 gallon aboveground tank for temporary storage prior to removal for offsite treatment and disposal along with recovered leachate from the Landfill leachate collection system.

4.3 IC/EC Certification

As required by DER-10, Section 6.3(a), a completed and signed NYSDEC IE/EC Certification Form is provided as Appendix C. All ICs/ECs are in place and functioning as designed.

5.0 MONITORING PLAN COMPLIANCE

The Landfill was granted a post-closure monitoring variance by the NYSDEC in December 2002 reducing the monitoring of the Landfill from quarterly to every fifth quarter. The NYSDEC approved further modifications to the monitoring plan on August 5, 2014. Monitoring includes collection of groundwater, surface water, and leachate samples for analysis of 6 NYCRR Part 360 Baseline parameters, as well as water level measurements from select monitoring wells, and air quality monitoring. Monitoring wells and sample locations are shown on Figure 2. The following sections describe the monitoring requirements for groundwater, surface water, leachate, and air quality.

5.1 Groundwater Monitoring

The groundwater monitoring program provides for collection of water quality samples from one piezometer location (PZ-4) and six (6) monitoring wells spread out around the Landfill property. In addition, static water level measurements were measured from additional overburden and bedrock monitoring wells and piezometers around the Landfill perimeter. A groundwater contour map is provided in Figure 3.

Depth to water measurements were obtained at or near the Landfill perimeter to determine groundwater elevations in the overburden and upper bedrock aquifer systems. Groundwater flow direction in the overburden aquifer is to the east-southeast towards the Cheechunk Canal (see Figure 3). Groundwater flow

direction in the bedrock aquifer is similar, which is consistent with historical reports. Groundwater gradients are similar in both aquifer systems and upward vertical gradients are noted throughout the Landfill perimeter, consistent with historical trends.

Groundwater samples were obtained from five (5) downgradient locations and two (2) upgradient locations using low flow methodology and analyzed for 6 NYCRR Part 360 Baseline parameters. An upgradient sample was collected from the overburden hydrogeologic unit (MW-233S) and bedrock hydrogeologic unit (MW-233D) located approximately 1,150 feet east of MW-230 well pair and upgradient of the Landfill. Copies of laboratory analytical reports are provided in Appendix D.

As described in Section 3.1, results generally show groundwater samples collected upgradient and downgradient of the Landfill waste mass indicate no significant differences in data trends where exceedances were historically observed. Overall, the groundwater monitoring program meets the remedial objectives by providing suitable means to determine the effectiveness of the selected remedy.

5.2 Surface Water Monitoring

The approved surface water monitoring program consists of sampling three (3) locations (SW-13, SW-5, and SW-8) along the Cheechunk Canal adjacent to the Landfill. These locations are located upgradient, crossgradient, and downgradient of the Landfill (see Figure 2).

The three (3) surface water samples were analyzed for 6 NYCRR Part 360 Baseline parameters and compared to TOGS 1.1.1 standards and guidance values. The surface water monitoring program meets the remedial objectives for the site in that it provides direct means to determine the effectiveness of the selected remedy. Orange County will continue surface water monitoring according to the approved SMP.

5.3 Leachate Monitoring

Leachate monitoring consisted of sampling of two (2) manhole locations (MH-7 and MH-15) located on the eastern and western edges of the Landfill footprint, respectively (see Figure 2). Leachate samples were analyzed for 6 NYCRR Part 360 Baseline parameters.

Section 4.2.1.1 of the approved SMP requires that if conditions indicative of leachate outbreaks such as wet spots, dead vegetation, surface sloughing, or discoloration are observed near the Landfill, further remediation investigation is warranted to evaluate the condition and determine the appropriate corrective action. The leachate monitoring program is consistent with the approved SMP for the site. Orange County will continue leachate monitoring according to the approved SMP and have implemented the following remedial measures, as detailed in the RAWP approved by the NYSDEC on March 20, 2017:

1. Excavation and removal of impacted soil at the seeps
2. Installation of 320-foot long HDD groundwater recovery well

Visibly stained soil in the immediate vicinity of identified seeps along the northern bank of the Cheechunk Canal was excavated in October 2019. Following the excavation, the excavated areas were stabilized with nonwoven geotextile fabric and at least 24 inches of medium stone fill. Installation and development of the HDD also occurred in October 2019. The HDD well pump and appurtenances were installed in July 2020 On July 9, 2020, the County submitted a Groundwater Recovery System Pilot Program Work Plan, which was approved by the NYSDEC in July 2020. The pump was turned on to initiate startup testing on July 31, 2020. The pilot study was completed in accordance with the approved Work Plan beginning in June 2021.

Implementation of the RAWP is documented in the Final Engineering Report for Landfill Seep Corrective Measures, dated August 30, 2021, which was approved by the NYSDEC on April 6, 2022.

5.4 Air Quality Monitoring

Air quality monitoring includes field measurements of explosive gas and VOC levels in the headspaces of the manholes, piezometers, and monitoring wells sampled during each monitoring event. VOC analyses are also performed on collected groundwater, surface water, and leachate samples. Results of the air quality monitoring are described in Section 3.4.

The air quality monitoring program meets the remedial objectives to evaluate the effectiveness of the selected remedy in that it provides a direct means to determine if Landfill gases are prevented from migration and buildup. Orange County will continue air quality monitoring according to the approved SMP.

6.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The Operation and Maintenance (O&M) Plan for the Landfill, outlined in the approved SMP, consists of the following components:

- Repair, if necessary, of the Landfill cover system in accordance with approved specification materials and methods.
- Annual mowing of the vegetated cover system.
- Annual or more frequent mowing of grass-lined ditches.
- Addition, if necessary, of soil amendments (fertilizer, lime) to the cover system.
- Annual or more frequent clearing of drainage swales, ditches and channels.
- Investigation of stressed vegetation and gas odors.
- Vector control.
- Snow plowing and upkeep of the perimeter access road.
- Collection, removal, and disposal of leachate.
- Preventative maintenance of leachate pumps.
- Repair or replacement, if necessary, of monitoring wells and piezometers.

During this reporting period, the following O&M activities were performed:

- Monthly inspections of the Landfill cap and cover materials, surface water drainage features, monitoring wells, leachate collection system, and the Landfill property (see Appendix A).
- Mowing of the Landfill cover system on July 14, September 8, and September 16, 2021.
- Regular leachate removal from aboveground storage tanks for treatment at permitted facilities (see Appendix B).
- Groundwater, surface water, leachate, and air quality monitoring performed on October 27-29, 2021.
- Regular inspection of historical seep locations.

Operation and maintenance of the property continues to protect human health and the overall integrity of the Landfill. There were no deficiencies in complying with the O&M Plan during this reporting period. The components of the remedy subject to O&M requirements (Landfill cover, gas venting and leachate

collection systems, and surface water runoff features) are functioning as designed. The integrity of the monitoring network remains intact. Regular inspections performed by Orange County personnel continue to show compliance with the March 1998 remedy determined for the Landfill, with the exception of the seeps.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Landfill continues to comply with the required activities set forth in the SMP for the subject reporting period. The ICs and ECs implemented at the Site continue to function as designed. The environmental monitoring plan for the Landfill is ongoing and remains in accordance with the approved variance granted by the NYSDEC in August 2014. Orange County will continue to perform regular inspections to maintain the integrity of the Landfill and surrounding property and protect human health and the environment.

The following conclusions are made based on observations and analytical results collected during this reporting period:

- Groundwater flow direction in the overburden and bedrock aquifer systems is to the east-southeast towards the Cheechunk Canal. Groundwater gradients are similar in both aquifer systems and upward vertical gradients are noted throughout the Landfill perimeter.
- No site-related VOCs were detected at or above the respective laboratory method detection limits in groundwater or surface water samples.
- Exceedances of applicable TOGS 1.1.1 groundwater standards are consistent with historical trends as described in Section 3.1.
- Exceedances of applicable TOGS 1.1.1 Class C surface water standards are limited to iron and aluminum at all surface water sampling locations (SW-5, SW-8, and SW-13). A comparison of upstream (background conditions) to downstream surface water quality indicates that the farthest downstream surface water results were lower than the reported upstream conditions, including water quality parameters historically tracked such as chloride, hardness, phenolics, TKN, iron, magnesium, manganese, and sodium.
- The analytical results for leachate collected from onsite manholes are consistent with previous results.
- The air quality monitoring survey for explosive gas and VOCs indicated the Landfill is in full compliance with the requirements set forth in 6 NYCRR 360-2.15(k)(4) and 2.17 (Effective prior to November 4, 2017).
- The Landfill appears secure and stable, and the Landfill cover is intact with no evidence of stressed vegetation, damage due to settlement, erosion or active vectors.
- The stormwater drainage system appears to be functioning as designed.
- In support of the ongoing seep issue, Orange County has completed implementation of the approved RAWP, as documented in the August 30, 2021 Final Engineering Report.

The following recommendations are made based on observations and analytical results collected during this reporting period:

- Based on the consistency of parameters that exceed applicable standards and the lack of detections of VOCs, STERLING recommends that the monitoring program be revised to analyze collected groundwater and surface water samples for 6 NYCRR 360 Routine Parameters.

- Based on NYSDEC approval of the August 30, 2021 Final Engineering Report for Landfill Seep Corrective Measures, STERLING recommends that the SMP be revised to include a description of the new Engineering Control and necessary operation and maintenance.

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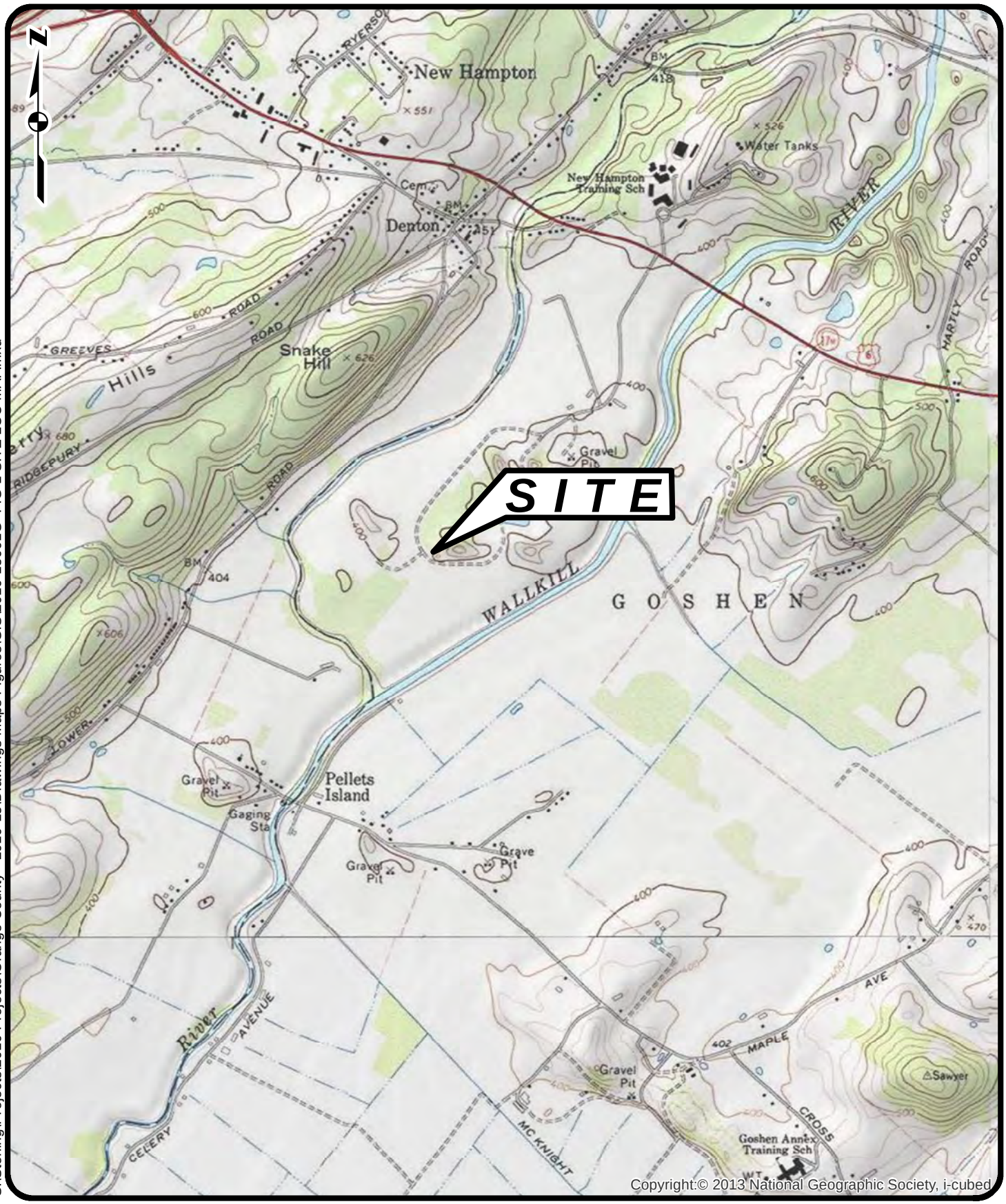
FIGURES



S:\Sterling\Projects\2010 Projects\Orange County - 2010-15\Drawings-Maps-Figures\GIS\2010-15001G- FIG 1 SITE LOC MAP.mxd

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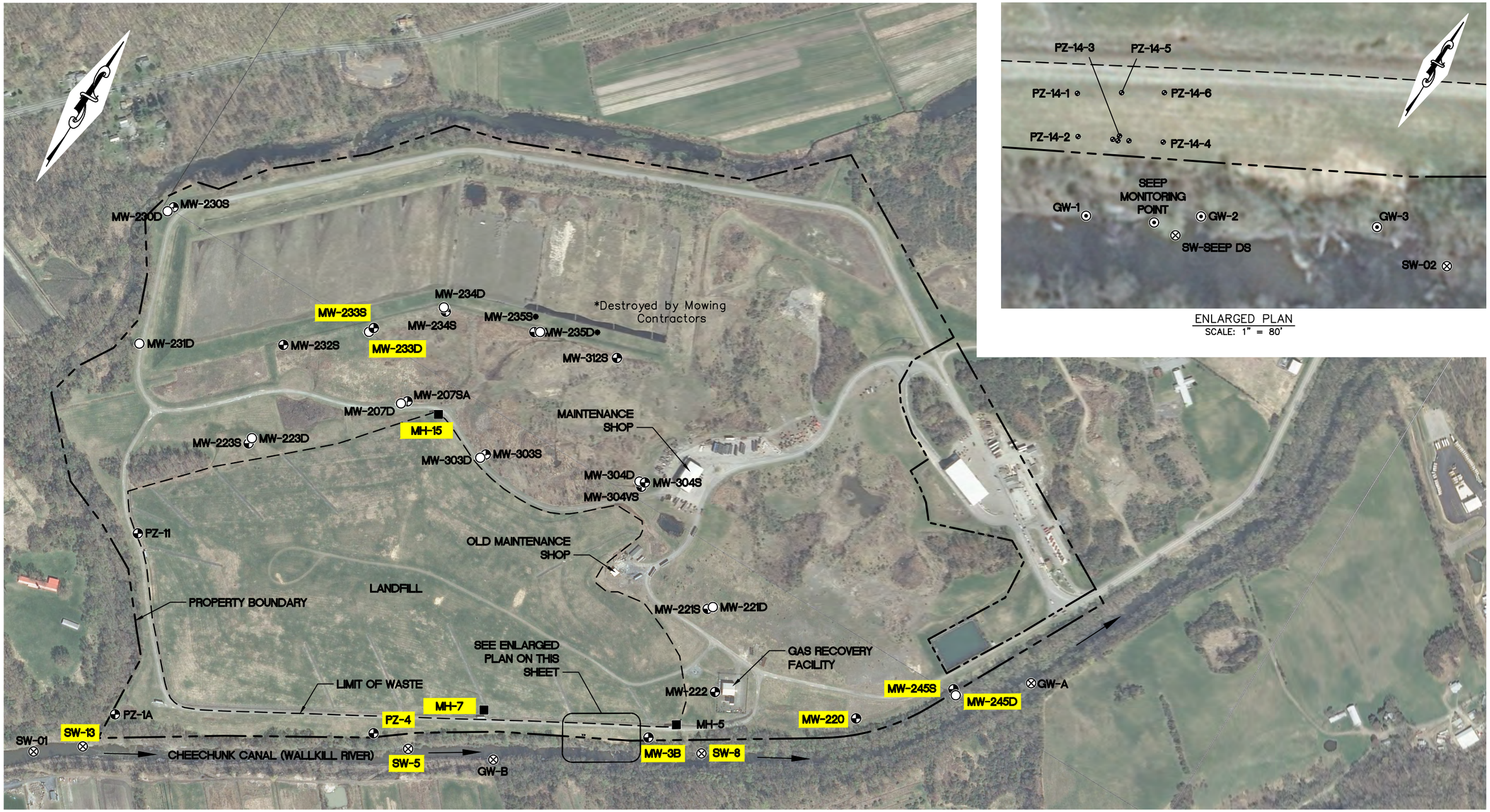
SITE LOCATION MAP

ORANGE CO. DEPT. OF PUBLIC WORKS

ORANGE COUNTY LANDFILL

TOWN OF GOSHEN ORANGE CO., NY

PROJ.NO. 2010-15	DATE: 5/19/2020	SCALE: 1 " = 2,000 '	DWG.NO. 2015-1001G	FIGURE 1



ENLARGED PLAN
SCALE: 1" = 80'

LEGEND:

MW-245S	OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATION
MW-245D	BEDROCK MONITORING WELL LOCATION
MH-7	LEACHATE SAMPLING LOCATION
GW-1	SEEP MONITORING LOCATION
SW-5	SURFACE WATER SAMPLE LOCATION
MW-245S	AS PER 2014 SMP, SAMPLED FOR CHARACTERIZATION OF GROUNDWATER, SURFACE WATER OR LEACHATE QUALITY
	LIMIT OF WASTE
	PROPERTY BOUNDARY

0 250 500 1000

(IN FEET)
1 inch = 500 ft.

MAP REFERENCES:
1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

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SAMPLE LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL
TOWN OF GOSHEN ORANGE CO., N.Y.

PROJ. No.:	DATE:	SCALE:	DWG. NO.	FIGURE
2010–15	9/16/2019	1"=500'	2010–15039	2

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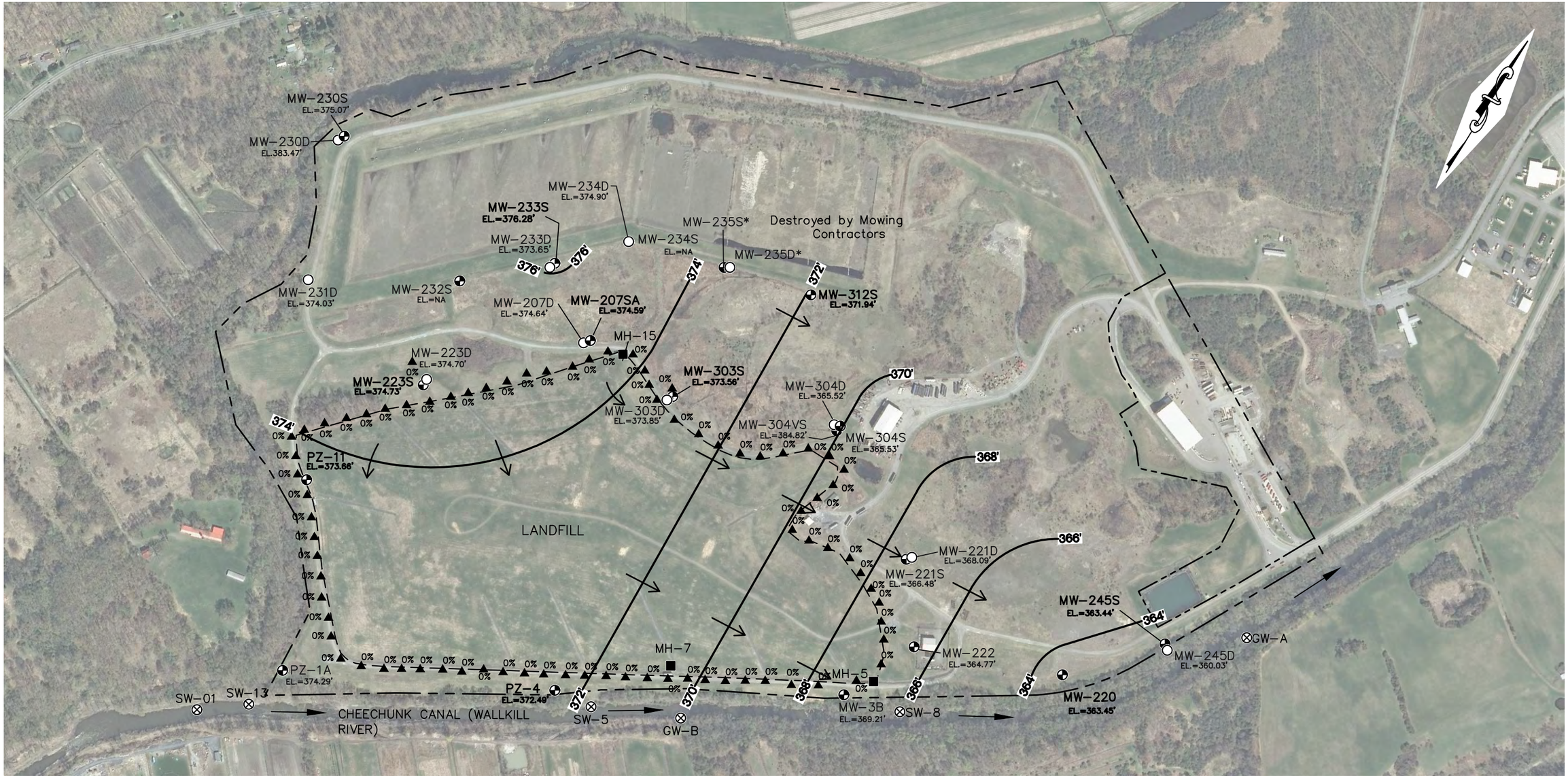

LEGEND:

- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- MW-245S EL. = 363.44' — OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATION WITH OCTOBER 27–29, 2021 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL (AMSL))
- MW-245D EL. = 360.03' — BEDROCK MONITORING WELL LOCATION WITH OCTOBER 27–29, 2021 GROUNDWATER ELEVATION (FEET AMSL)
- MH-7 — LEACHATE SAMPLING LOCATION
- SW-5 — SURFACE WATER SAMPLE LOCATION
- LIMIT OF WASTE
- PROPERTY BOUNDARY
- 0%▲ — EXPLOSIVE GAS MONITORING POINT

MAP REFERENCES:
1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

0 250 500 1000

(IN FEET)
1 inch = 500 ft.

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GROUNDWATER CONTOUR MAP (OVERBURDEN HYDROGEOLOGIC UNIT) AND EXPLOSIVE GAS SURVEY
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL
TOWN OF GOSHEN ORANGE CO., N.Y.

PROJ. No.: 2010–15	DATE: 11/22/2021	SCALE: 1"=500'	DWG. NO. 2010–15119	FIGURE 3

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TABLES

TABLE 1

Summary of Field Parameter Measurements
October 27-28, 2021
Orange County Landfill, Goshen, New York

Parameter	Title 6 Part 703.3 Standards	Units	Groundwater Sample Locations							Surface Water Locations			Manhole Leachate	
			MW-3B	MW-220	MW-233S	MW-233D	MW-245S	MW-245D	PZ-4	SW-5	SW-8	SW-13	MH-7	MH-13
Static Water Level [1]	---	feet	17.22	15.49	11.98	15.36	27.69	31.05	9.85	---	---	---	---	---
Specific Conductivity	---	mS/cm	1.133	1.124	0.886	0.948	0.999	0.930	1.238	0.218	0.248	0.220	4.883	0.737
Temperature	---	degrees C	13.8	12.6	12.9	12.2	11.7	12.8	12.9	12.4	12.4	12.4	14.2	14.9
pH [2]	6.5<pH< 8.5	pH Units	6.94	6.80	7.08	7.70	7.09	7.46	6.81	7.18	6.88	7.19	7.39	8.24
ORP	---	mV	-66.6	-19.9	174.1	160.5	-150.7	-220.6	-24.0	89.4	58.7	136.1	243.6	-90.7
Dissolved Oxygen [3]	> 6.0	mg/L	0.43	0.38	0.63	3.83	0.34	0.43	0.41	7.18	6.80	7.19	8.70	8.24
Turbidity [4]	5.0	NTU	1.55	0.95	2.1	1.26	**78.79**	3.68	**167.94**	23.32	18.60	18.63	0.85	1.41

NOTES :

Values in **BOLD** indicate an exceedance of applicable water quality standard.

[1] Measured from the top of the PVC well to water surface.

[2] pH standard does not apply to collected leachate

[3] DO standard applies to surface water samples only.

[4] Applies to groundwater only.

--- No standard or not measured.

Table 2
Summary of Groundwater Elevation Measurements
October 27-29, 2021
Orange County Landfill, Goshen New York

Well I.D.	Measuring Point Elevation (ft)	Static Water Level (ft)	Groundwater Elevation (ft)
PZ-14-1	389.33	19.35	369.98
PZ-14-2	381.19	19.39	361.80
PZ-14-3	382.51	20.72	361.79
PZ-14-4	380.81	18.01	362.80
PZ-14-5	391.25	19.11	372.14
PZ-14-6	390.13	27.91	362.22
PZ-17-1	381.27	29.07	352.20
PZ-17-2	379.80	27.14	352.66
MW-233S[I]	388.26	11.98	376.28
MW-233D[I]	389.01	15.36	373.65
MW-3B	386.43	17.22	369.21
MW-245S	391.13	27.69	363.44
MW-245D	391.08	31.05	360.03
MW-220	378.94	15.49	363.45
PZ-1A	385.28	10.99	374.29
PZ-11	390.41	16.75	373.66
MW-222	382.49	17.72	364.77
MW-221S	381.44	14.96	366.48
MW-221D	381.29	13.20	368.09
MW-304VS	390.72	5.90	384.82
MW-304S	390.92	25.39	365.53
MW-304D	390.08	24.56	365.52
MW-312S[I]	387.06	15.12	371.94
MW-303S	389.85	16.29	373.56
MW-303D	389.83	15.98	373.85
MW-207SA	389.74	15.15	374.59
MW-207D	390.92	16.28	374.64
MW-234S	390.63	---	---
MW-234D	390.10	15.20	374.90
MW-223S	389.25	14.52	374.73
MW-223D	389.36	14.66	374.70
MW-232S	388.64	---	---
MW-231D[I]	387.67	13.64	374.03
MW-230S[I]	384.46	9.39	375.07
MW-230D	385.51	2.04	383.47
PZ-4	382.34	9.85	372.49

Notes:

--- = Not measured or no available data

[I] = Measuring point elevation obtained by Sterling Environmental Engineering, P.C. on August 4, 2020 with sub-inch GPS.

TABLE 3
Summary of Groundwater Analytical Results
October 27-28, 2021
Orange County Landfill, Goshen, New York

ANALYTE	NY-AWQS	MW-3B 10/28/2021	MW-220 10/27/2021	DUP10272021 10/27/2021	MW-233S 10/27/2021	MW-233D 10/27/2021	MW-245S 10/27/2021	MW-245D 10/27/2021	PZ-4 10/28/2021
LEACHATE INDICATOR PARAMETERS, mg/L									
Alkalinity, Total	---	498	430	423	310	177	296	306	558
Bromide	2	1.23	0.23	0.239	0.239	1.27	0.132 U	0.427	1.3
Chemical Oxygen Demand	---	4.8 J	2.7 U	2.7 U	7 J	2.7 U	9.2 J	22	16
Chloride	250	44.6	17.2	17.3	1.66	126	80	46.3	53.4
Chromium, Hexavalent	0.05	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Color (Color Units)	15	**17**	7	12	6	5 U	13	10 U	ND
Cyanide, Total	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.009	0.001 U
Hardness, Total	---	504	544	572	453	195	390	237	724
Nitrogen, Ammonia	2	**5.84**	0.066 J	0.226	0.076	0.108	0.166	**7.33**	0.42
Nitrogen, Nitrate	10	0.023 U	0.023 U	0.023 U	**11**	0.023 U	0.023 U	0.038 J	0.023 U
Nitrogen, Total Kjeldahl	---	6.48	0.595	0.49	0.504	0.652	0.4	8.1	0.65
Phenolics, Total	0.001	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U	0.006[(B)] U
Sulfate	250	27.4	170	170	123	128	122	94.8	79.9
Total Dissolved Solids	500	**640**	**700**	**700**	**540**	**520**	**600**	**530**	**800**
Total Organic Carbon	---	3.43	1.53	1.5	3.94	0.53	1.95	2.12	1.81
VOLATILE ORGANIC COMPOUNDS, µg/L									
1,1,1,2-Tetrachloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1,1-Trichloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1,2,2-Tetrachloroethane	5	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1,2-Trichloroethane	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,1-Dichloroethene	0.7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-Trichloropropane	0.04	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U
1,2-Dibromo-3-chloropropane	0.04	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U	0.7[(B)] U
1,2-Dibromoethane	0.0006	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U	0.65[(B)] U
1,2-Dichlorobenzene	3	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
1,2-Dichloroethane	0.6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	1	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,4-Dichlorobenzene	*3*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
2-Butanone	*50*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Hexanone	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	50	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Acrylonitrile	5	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzene	1	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromochloromethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Bromodichloromethane	50	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Bromoform	*50*	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Bromomethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Carbon disulfide	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chlorobenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloroethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloroform	7	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Chloromethane	---	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
cis-1,2-Dichloroethene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
cis-1,3-Dichloropropene	0.4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Dibromochloromethane	50	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Dibromomethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Iodomethane	---	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methylene chloride	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
o-Xylene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
p/m-Xylene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Styrene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Tetrachloroethene	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Toluene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,3-Dichloropropene	0.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
trans-1,4-Dichloro-2-butene	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Trichloroethene	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	5	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Vinyl acetate	---	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Total VOCs	---	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.

U or ND = Not Detected (ND). The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

--- = No applicable standard or guidance value available.

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

[(A)] = NY TOGs 1.1.1: Water Quality Stds & *Guidance Values* : GA Water Class for Standard and Guidance Values; Eff. June 2004

[(B)] = The sample specific reporting limit does not support the applicable groundwater standard.

[(1)] = The sum of iron and manganese concentrations must not excede 0.5 mg/L.

TABLE 3
Summary of Groundwater Analytical Results
October 27-28, 2021
Orange County Landfill, Goshen, New York

ANALYTE	NY-AWQS	MW-3B 10/28/2021	MW-220 10/27/2021	DUP10272021 10/27/2021	MW-233S 10/27/2021	MW-233D 10/27/2021	MW-245S 10/27/2021	MW-245D 10/27/2021	PZ-4 10/28/2021
DISSOLVED HARDNESS BY SM 2340B, mg/L									
Hardness	---	510	544	572	453	195	390	237	691
DISSOLVED METALS, mg/L									
Aluminum, Dissolved	---	0.00397 J	0.00327 U	0.00327 U	0.00327 U	0.00327 U	0.00327 U	0.00867 J	0.00463 J
Antimony, Dissolved	0.003	0.00061 J	0.00042 U	0.00042 U	0.00042 U	0.00042 U	0.00042 U	0.00042 U	0.00047 J
Arsenic, Dissolved	0.025	**0.03485**	0.00294	0.00311	0.00049 J	0.00057	0.01116	0.00187	0.01047
Barium, Dissolved	1	0.3991	0.06502	0.06267	0.05359	0.03666	0.07564	0.09648	0.07071
Beryllium, Dissolved	0.003	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Boron, Dissolved	1	0.198	0.034	0.031	0.02 J	0.093	0.02 J	0.048	0.12
Cadmium, Dissolved	0.005	0.00005 U	0.00005 U	0.00005 U	0.00005 U	0.00005 U	0.00005 U	0.00005 U	0.00005 U
Calcium, Dissolved	---	139	172	169	135	51.8	127	92.8	192
Chromium, Dissolved	0.05	0.00032 J	0.00017 U	0.00017 U	0.00017 U	0.00017 U	0.00017 U	0.00018 J	0.00022 J
Cobalt, Dissolved	---	0.00026 J	0.00048 J	0.00051	0.00016 U	0.00016 U	0.00026 J	0.00016 U	0.0004 J
Copper, Dissolved	0.2	0.00038 U	0.00038 U	0.00038 U	0.00113	0.00038 U	0.00038 U	0.00038 U	0.00123
Iron, Dissolved	0.3 (1)	0.0191 U	0.0191 U	0.0191 U	0.0191 U	0.0191 U	0.0191 U	0.0191 U	0.0191 U
Lead, Dissolved	0.025	0.00034 U	0.00034 U	0.00034 U	0.00034 U	0.00034 U	0.00034 U	0.00034 U	0.00034 U
Magnesium, Dissolved	35	**39.6**	**45.1**	**44.4**	**35.1**	18.5	26.5	29.9	**51.1**
Manganese, Dissolved	0.3 (1)	**0.9218**	**0.6198**	**0.6382**	0.08003	0.001	**1.388**	0.1839	**1.132**
Mercury, Dissolved	0.00077	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U
Nickel, Dissolved	0.1	0.00518	0.00107 J	0.00116 J	0.00095 J	0.0007 J	0.0009 J	0.00055 U	0.00518
Potassium, Dissolved	---	6.57	2.99	3.04	2.3	1.66	2.03	3.96	3.51
Selenium, Dissolved	0.01	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U
Silver, Dissolved	0.05	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Sodium, Dissolved	20	**46.1**	11.7	11.8	1.53	**104**	**44.4**	**48.9**	**31.4**
Thallium, Dissolved	0.0005	0.00041 J	0.00014 U	0.00014 U	0.00014 U	0.00014 U	**0.00061 J**	0.00014 U	0.00018 J
Vanadium, Dissolved	---	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U
Zinc, Dissolved	2	0.01032	0.00341 U	0.00341 U	0.00341 U	0.00341 U	0.00866 J	0.00341 U	0.00437 J
TOTAL METALS, mg/L									
Aluminum, Total	---	0.0128	0.0118	0.0096 J	0.0103	0.0156	0.564	0.0226	2.7
Antimony, Total	0.003	0.00042 U	0.00042 U	0.00042 U	0.00042 U	0.00061 J	0.00057 J	0.00042 U	0.00042 U
Arsenic, Total	0.025	**0.04801**	0.00878	0.00813	0.00081	0.00083	0.01665	0.00188	0.01613
Barium, Total	1	0.425	0.06186	0.06078	0.06227	0.03596	0.07818	0.09648	0.08762
Beryllium, Total	0.003	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.00017 J
Boron, Total	1	0.218	0.03 J	0.031	0.025 J	0.091	0.023 J	0.039	0.13
Cadmium, Total	0.005	0.00005 U	0.00005 U	0.00005 U	0.0001 J	0.00005 U	0.00005 U	0.00008 J	0.00009 J
Calcium, Total	---	142	152	160	127	49	116	61.5	209
Chromium, Total	0.05	0.00025 J	0.00017 U	0.00017 U	0.00022 J	0.00043 J	0.00091 J	0.00113	0.00541
Cobalt, Total	---	0.00029 J	0.0005	0.00047 J	0.00034 J	0.00016 U	0.00076	0.00016 U	0.00394
Copper, Total	0.2	0.00038 U	0.00038 U	0.00038 U	0.00224	0.0008 J	0.00133	0.00124	0.01372
Iron, Total	0.3 (1)	**1.6**	**0.95**	**0.91**	**0.0564**	0.0965	**1.91**	**0.59**	**8.11**
Lead, Total	0.025	0.00034 U	0.00034 U	0.00034 U	0.00034 U	0.00163	0.00114	0.00078 J	0.00606
Magnesium, Total	35	**36**	**40**	**42.2**	33.3	17.6	24.5	20.2	**48.8**
Manganese, Total	0.3 (1)	**0.9666**	**0.6152**	**0.6042**	**0.7505**	0.02267	**1.396**	**0.1769**	**1.602**
Mercury, Total	0.00077	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U	0.00009 U
Nickel, Total	0.1	0.00484	0.00127 J	0.00113 J	0.00263	0.00101 J	0.00153 J	0.00086 J	0.01276
Potassium, Total	---	6.81	3.01	2.94	2.52	1.66	2.12	3.78	3.7
Selenium, Total	0.01	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U	0.00173 U
Silver, Total	0.05	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Sodium, Total	20	**46**	12.1	11.8	1.7	**108**	**44.2**	**48.3**	**30.6**
Thallium, Total	0.0005	0.00015 J	0.00014 U	0.00014 U	0.00014 U	0.00036 J	0.00029 J	0.00014 U	0.00016 J
Vanadium, Total	---	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00157 U	0.00467 J
Zinc, Total	2	0.00955 J	0.01197	0.01237	0.01264	0.01605	0.01335	0.02412	0.04453

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.

U or ND = Not Detected (ND). The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

--- = No applicable standard or guidance value available.

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

(A) = NY TOGs 1.1.1: Water Quality Stds & *Guidance Values* : GA Water Class for Standard and Guidance Values; Eff. June 2004

(B) = The sample specific reporting limit does not support the applicable groundwater standard.

(1) = The standard for the sum of iron and manganese is 0.5 mg/L.

Table 4
Summary of Surface Water Analytical Results
October 28, 2021
Orange County Landfill, Goshen, New York

ANALYTE	Surface Water Standard[A]	SW-5	SW-8	SW-13
		10/28/2021	10/28/2021	10/28/2021
LEACHATE INDICATOR PARAMETERS, mg/L				
Alkalinity, Total	---	67.8	51.7	50.7
Bromide	---	0.162	0.143	0.146
Chemical Oxygen Demand	---	34	40	47
Chloride	---	21.6	22	22.2
Chromium, Hexavalent	0.011[4]	0.003 U	0.003 U	0.003 U
Color, Apparent	---	120	110	76
Cyanide, Total	0.0052[3]	0.001 J	0.001 J	0.003 J
Hardness	---	80.2	71.1	70.3
Nitrogen, Ammonia	[1]	0.108	0.102	0.063 J
Nitrogen, Nitrate	---	1.2	1.2	1.2
Nitrogen, Total Kjeldahl	---	140	130	120
Phenolics, Total	0.001	0.006 [B] U	0.006 [B] U	0.006 [B] U
Sulfate	---	0.907	1.12	0.865
Solids, Total Dissolved	500	11.4	10.3	10.3
Total Organic Carbon	---	11.6	11.4	11.5
VOLATILE ORGANIC COMPOUNDS (VOCs), µg/L				
1,1,1,2-Tetrachloroethane	---	0.7 U	0.7 U	0.7 U
1,1,1-Trichloroethane	---	0.7 U	0.7 U	0.7 U
1,1,2,2-Tetrachloroethane	---	0.17 U	0.17 U	0.17 U
1,1,2-Trichloroethane	---	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	---	0.7 U	0.7 U	0.7 U
1,1-Dichloroethene	---	0.17 U	0.17 U	0.17 U
1,2,3-Trichloropropane	---	0.7 U	0.7 U	0.7 U
1,2-Dibromo-3-chloropropane	---	0.7 U	0.7 U	0.7 U
1,2-Dibromoethane	---	0.65 U	0.65 U	0.65 U
1,2-Dichlorobenzene	5 [3]	0.7 U	0.7 U	0.7 U
1,2-Dichloroethane	---	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	---	0.14 U	0.14 U	0.14 U
1,4-Dichlorobenzene	5 [3]	0.7 U	0.7 U	0.7 U
2-Butanone	---	1.9 U	1.9 U	1.9 U
2-Hexanone	---	1 U	1 U	1 U
4-Methyl-2-pentanone	---	1 U	1 U	1 U
Acetone	10	1.5 J	1.5 U	2 J
Acrylonitrile	---	1.5 U	1.5 U	1.5 U
Benzene	10[H(FC)]	0.16 U	0.16 U	0.16 U
Bromochloromethane	---	0.7 U	0.7 U	0.7 U
Bromodichloromethane	---	0.19 U	0.19 U	0.19 U
Bromoform	---	0.65 U	0.65 U	0.65 U
Bromomethane	---	0.7 U	0.7 U	0.7 U
Carbon disulfide	---	1 U	1 U	1 U
Carbon tetrachloride	---	0.13 U	0.13 U	0.13 U
Chlorobenzene	5	0.7 U	0.7 U	0.7 U
Chloroethane	---	0.7 U	0.7 U	0.7 U
Chloroform	---	0.7 U	0.7 U	0.7 U

Table 4
Summary of Surface Water Analytical Results
October 28, 2021
Orange County Landfill, Goshen, New York

ANALYTE	Surface Water Standard[A]	SW-5	SW-8	SW-13
		10/28/2021	10/28/2021	10/28/2021
Chloromethane	---	0.7 U	0.7 U	0.7 U
cis-1,2-Dichloroethene	---	0.7 U	0.7 U	0.7 U
cis-1,3-Dichloropropene	---	0.14 U	0.14 U	0.14 U
Dibromochloromethane	---	0.15 U	0.15 U	0.15 U
Dibromomethane	---	1 U	1 U	1 U
Ethylbenzene	*17*	0.7 U	0.7 U	0.7 U
Iodomethane	---	0.4 U	0.4 U	0.4 U
Methylene chloride	200[H(FC)]	0.7 U	0.7 U	0.7 U
o-Xylene	*65* [(3)]	0.7 U	0.7 U	0.7 U
p/m-Xylene	*65* [(3)]	0.7 U	0.7 U	0.7 U
Styrene	---	0.7 U	0.7 U	0.7 U
Tetrachloroethene	*1* [H(FC)]	0.18 U	0.18 U	0.18 U
Toluene	*100*	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	---	0.7 U	0.7 U	0.7 U
trans-1,3-Dichloropropene	---	0.16 U	0.16 U	0.16 U
trans-1,4-Dichloro-2-butene	---	0.7 U	0.7 U	0.7 U
Trichloroethene	40[H(FC)]	0.18 U	0.18 U	0.18 U
Trichlorofluoromethane	---	0.7 U	0.7 U	0.7 U
Vinyl acetate	---	1 U	1 U	1 U
Vinyl chloride	---	0.07 U	0.07 U	0.07 U
Total VOCs	---	1.5	ND	2
TOTAL METALS, mg/L				
Aluminum, Total	0.1[(6)]	**0.448**	**0.592**	**0.516**
Antimony, Total	---	0.00042 U	0.00042 U	0.00042 U
Arsenic, Total	0.15[(4)]	0.00129	0.00138	0.00124
Barium, Total	---	0.01557	0.01482	0.01372
Beryllium, Total	1.1	0.0001 U	0.0001 U	0.0001 U
Boron, Total	10	0.023 J	0.022 J	0.021 J
Cadmium, Total	[(5)]	0.00005 U	0.00005 U	0.00005 U
Calcium, Total	---	22.6	19.6	19.4
Chromium, Total	[(5)]	0.001	0.00105	0.00098 J
Cobalt, Total	0.005	0.00051	0.00058	0.00051
Copper, Total	[(5)]	0.0035	0.00344	0.00321
Iron, Total	0.3	**0.978**	**1.18**	**1.06**
Lead, Total	[(5)]	0.00084 J	0.00096 J	0.00084 J
Magnesium, Total	---	5.77	5.41	5.32
Manganese, Total	---	0.05899	0.06378	0.05162
Mercury, Total	0.0007[(4)]	0.00009 U	0.00009 U	0.00009 U
Nickel, Total	[(5)]	0.00178 J	0.00173 J	0.00183 J
Potassium, Total	---	3.27	3.38	3.26
Selenium, Total	0.0046	0.00173 U	0.00173 U	0.00173 U
Silver, Total	0.0001[(6)]	0.00016[(B)] U	0.00016[(B)] U	0.00016[(B)] U
Sodium, Total	---	13.7	14	13.3
Thallium, Total	0.008	0.00014 U	0.00014 U	0.00014 U
Vanadium, Total	0.014	0.00157 U	0.00157 U	0.00157 U
Zinc, Total	[(5)]	0.0172	0.01987	0.02192

Table 4
Summary of Surface Water Analytical Results
October 28, 2021
Orange County Landfill, Goshen, New York

ANALYTE	Surface Water Standard[A]	SW-5	SW-8	SW-13
		10/28/2021	10/28/2021	10/28/2021

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.

Values in *ITALIC* indicate the guidence value where no surface water standard is available.

--- = No standard or guidance value available.

U or ND = Not Detected (ND). The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

[A] = T.O.G.S. 1.1.1 Ambient Water Quality Standards for Class C Surface Water, A(C): Fish Propagation (fresh waters)

[B] = The sample specific reporting limit does not support the applicable groundwater standard.

H(FC)= T.O.G.S. 1.1.1 Ambient Water Quality Standards for Class C Surface Water, H(FC): Human Consumption of Fish (fresh waters)

[1] = Surface water standard for ammonia (mg/L) is interpolated using the temperatures and pH of the individual samples. SW-5 = 2.20, SW-8 = 2.20, SW-13 = 2.20.

[2] = Laboratory Method Detection Limit is greater than or equal to the applicable water quality standard.

[3] = Applies to the sum of 1,2-1,3-1,4-Dichlorobenzene, or applies to each individual isomer, or applies to the sum of m-, o-, and p-xylenes, or applies to the sum of cis-trans 1,3-Dichloropropene, or applies to the sum of HCN and CN- expressed as CN (cyanide), or applies to ionic silver.

[4] = Standard applies to the dissolved form, not total recoverable.

[5] = Surface Water Standard for Cadmium, Chromium, Copper, Lead, Nickel, and Zinc are based on the individual sample's hardness.

Cadmium (mg/L): SW-5 = 0.00176; SW-8 = 0.001601; SW-13 = 0.0.00159

Chromium: (mg/L): SW-5 =0.06186; and SW-8 = 0.05605; SW-13 = 0.0.05553

Copper (mg/L): SW-5 = 0.00742; SW-8 = 0.00669; SW-13 = 0.00663

Lead (mg/L): SW-5 = 0.00297; SW-8 = 0.00261; SW-13 = 0.00257

Nickel (mg/L): SW-5 = 0.04315; SW-8 = 0.03897; SW-13 = 0.03860

Silver (mg/L): SW-5 = 0.0001; SW-8 = 0.0001; SW-13 = 0.0001

Zinc (mg/L): SW-5 = 0.06850; SW-8 = 0.06184; SW-13 = 0.06124

[6] = Standard applies to ionic aluminum or silver.

Table 5

Summary of Leachate Analytical Results
October 27, 2021
Orange County Landfill, Goshen, New York

ANALYTE	NY-AWQS [A]	MH-7 10/27/2021	MH-15 10/27/2021
LEACHATE INDICATOR PARAMETERS, mg/L			
Alkalinity, Total	---	584	283
Bromide	2	**23**	0.724
Chemical Oxygen Demand	---	500	40
Chloride	250	**2,210**	37.2
Chromium, Hexavalent	0.05	0.003 U	0.003 U
Color (Color Units)	---	220	82
Cyanide, Total	0.2	0.01	0.001 U
Hardness, Total	---	1,490	210
Nitrogen, Ammonia	2	**98.4**	**12.6**
Nitrogen, Nitrate	10	**120**	0.039 J
Nitrogen, Total Kjeldahl	---	100	13.7
Phenolics, Total	0.001	**0.02 J**	0.006 [B] U
Sulfate	250	**1,520**	8.05
Total Dissolved Solids	500	**7,600**	320
Total Organic Carbon	---	163	3.18
VOLATILE ORGANIC COMPOUNDS, µg/L			
1,1,1,2-Tetrachloroethane	5	0.7 U	0.7 U
1,1,1-Trichloroethane	5	0.7 U	0.7 U
1,1,2,2-Tetrachloroethane	5	0.17 U	0.17 U
1,1,2-Trichloroethane	1	0.5 U	0.5 U
1,1-Dichloroethane	5	0.7 U	0.7 U
1,1-Dichloroethene	0.7	0.17 U	0.17 U
1,2,3-Trichloropropane	0.04	0.7 [B] U	0.7 [B] U
1,2-Dibromo-3-chloropropane	0.04	0.7 [B] U	0.7 [B] U
1,2-Dibromoethane	0.0006	0.65 [B] U	0.65 [B] U
1,2-Dichlorobenzene	3	0.7 U	0.7 U
1,2-Dichloroethane	0.6	0.13 U	0.13 U
1,2-Dichloropropane	1	0.14 U	0.14 U
1,4-Dichlorobenzene	3	0.7 U	1.2 J
2-Butanone	50	1.9 U	1.9 U
2-Hexanone	50	1 U	1 U
4-Methyl-2-pentanone	---	1 U	1 U
Acetone	50	15	1.5 U
Acrylonitrile	5	1.5 U	1.5 U
Benzene	1	**1.2**	0.57
Bromochloromethane	5	0.7 U	0.7 U
Bromodichloromethane	50	0.19 U	0.19 U
Bromoform	50	0.65 U	0.65 U
Bromomethane	5	0.7 U	0.7 U
Carbon disulfide	60	1 U	1 U
Carbon tetrachloride	5	0.13 U	0.13 U
Chlorobenzene	5	1.4 J	0.98 J
Chloroethane	5	0.7 U	1.4 J
Chloroform	7	0.7 U	0.7 U
Chloromethane	---	0.7 U	0.7 U
cis-1,2-Dichloroethene	5	0.7 U	0.7 U
cis-1,3-Dichloropropene	0.4	0.14 U	0.14 U
Dibromochloromethane	50	0.15 U	0.15 U
Dibromomethane	5	1 U	1 U
Ethylbenzene	5	0.7 U	0.7 U
Iodomethane	---	0.4 U	0.4 U

Table 5

Summary of Leachate Analytical Results
October 27, 2021
Orange County Landfill, Goshen, New York

ANALYTE	NY-AWQS [A]	MH-7 10/27/2021	MH-15 10/27/2021
Methylene chloride	5	0.7 U	0.7 U
o-Xylene	5	0.7 U	0.7 U
p/m-Xylene	5	0.7 U	0.8 J
Styrene	5	0.7 U	0.7 U
Tetrachloroethene	5	0.18 U	0.18 U
Toluene	5	0.7 U	0.7 U
trans-1,2-Dichloroethene	5	0.7 U	0.7 U
trans-1,3-Dichloropropene	0.4	0.16 U	0.16 U
trans-1,4-Dichloro-2-butene	5	0.7 U	0.7 U
Trichloroethene	5	0.18 U	0.18 U
Trichlorofluoromethane	5	0.7 U	0.7 U
Vinyl acetate	---	1 U	1 U
Vinyl chloride	2	0.07 U	0.07 U
Total VOCs	---	17.6	4.95
TOTAL METALS, mg/L			
Aluminum, Total	---	0.0751	0.0453
Antimony, Total	0.003	**0.00725**	0.00042 U
Arsenic, Total	0.025	0.00685	0.00324
Barium, Total	1	0.1329	0.05413
Beryllium, Total	0.003	0.0001 U	0.0001 U
Boron, Total	1	**4.01**	0.122
Cadmium, Total	0.005	0.00008 J	0.00005 U
Calcium, Total	---	414	66
Chromium, Total	0.05	0.00434	0.00069 J
Cobalt, Total	---	0.02322	0.00075
Copper, Total	0.2	0.01968	0.00086 J
Iron, Total	0.3 [1]	**1.46**	**6.78**
Lead, Total	0.025	0.00101	0.00034 U
Magnesium, Total	35	**111**	11.1
Manganese, Total	0.3 [1]	**1.175**	**0.6246**
Mercury, Total	0.0007	0.0001 J	0.00009 U
Nickel, Total	0.1	**0.1156**	0.00351
Potassium, Total	---	309	9.72
Selenium, Total	0.01	0.00173 U	0.00173 U
Silver, Total	0.05	0.00016 U	0.00016 U
Sodium, Total	20	**1350**	**29.7**
Thallium, Total	0.0005	0.00014 U	0.00014 U
Vanadium, Total	---	0.00157 U	0.00157 U
Zinc, Total	2	0.01961	0.0123

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.

--- = No standard or guidance value available.

U or ND = Analyte was not detected at or above reported concentration.

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

[A] = NY TOGs 1.1.1: Water Quality Stds & Guidance Values: GA Water Class for Standard and Guidance Values; Eff. June 2004

[B] = The sample specific reporting limit does not support the applicable groundwater standard.

[1] = The standard for the sum of iron and manganese is 0.5 mg/L.

APPENDIX A

ORANGE COUNTY LANDFILL POST-CLOSURE FIELD INSPECTION DOCUMENTS AND MONTHLY INSPECTION REPORTS

ANNUAL MONITORING AND MAINTENANCE OPERATIONS CHECKLIST
ORANGE COUNTY LANDFILL
YEAR 2020

TASK DESCRIPTION	TASK FREQUENCY	MONTH TASK WAS COMPLETED [2]											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing	Bi-annually								8/12				
Monthly Inspections (Internal)	Monthly	1/16	2/14	3/16	4/15	5/14	6/16	7/15	8/14	9/18	10/16	11/13	12/11
Annual Post-Closure Monitoring Report Submitted to NYSDEC[1]	Every Fifth Quarter												
Periodic Review Report Submitted to NYSDEC	Annually												

[1] Annual Monitoring includes groundwater monitoring, surface water monitoring, leachate monitoring, and explosive gas monitoring.

[2] Upon completeion of the task, the appropriate space should be initial and dated by the person that completed the task.

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 9/18/20 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 8/12/20			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle ☐ ATV	
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present	☑ No	☐ Yes *		
30. Dead Animals present	☑ No	☐ Yes *		
31. Oil slick on adjacent waters	☑ No	☐ Yes *		
32. Damaged leachate manholes	☑ No	☐ Yes *		
33. Leachate seeps	☑ No	☐ Yes	Stain Color: _____	
			Length: _____	
34. Leachate fluid	☐ Puddle *	☐ Stream *	☑ None	
35. Gulls/scavenger birds present	☑ No	☐ Yes *		
36. Other animal foraging evidence	☑ No	☐ Yes *		
37. No smoking warnings	☑ Present	☐ Missing/Damaged		
38. Survey Monuments	☑ Undisturbed	☐ Disturbed		

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Kenneth J. Sherman

DATE: 9/18/20

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 10/16/20 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
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20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
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23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle ☐ ATV	
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present	☑ No	☐ Yes *		
30. Dead Animals present	☑ No	☐ Yes *		
31. Oil slick on adjacent waters	☑ No	☐ Yes *		
32. Damaged leachate manholes	☑ No	☐ Yes *		
33. Leachate seeps	☑ No	☐ Yes	Stain Color: _____	
			Length: _____	
34. Leachate fluid	☐ Puddle *	☐ Stream *	☑ None	
35. Gulls/scavenger birds present	☑ No	☐ Yes *		
36. Other animal foraging evidence	☑ No	☐ Yes *		
37. No smoking warnings	☑ Present	☐ Missing/Damaged		
38. Survey Monuments	☑ Undisturbed	☐ Disturbed		

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

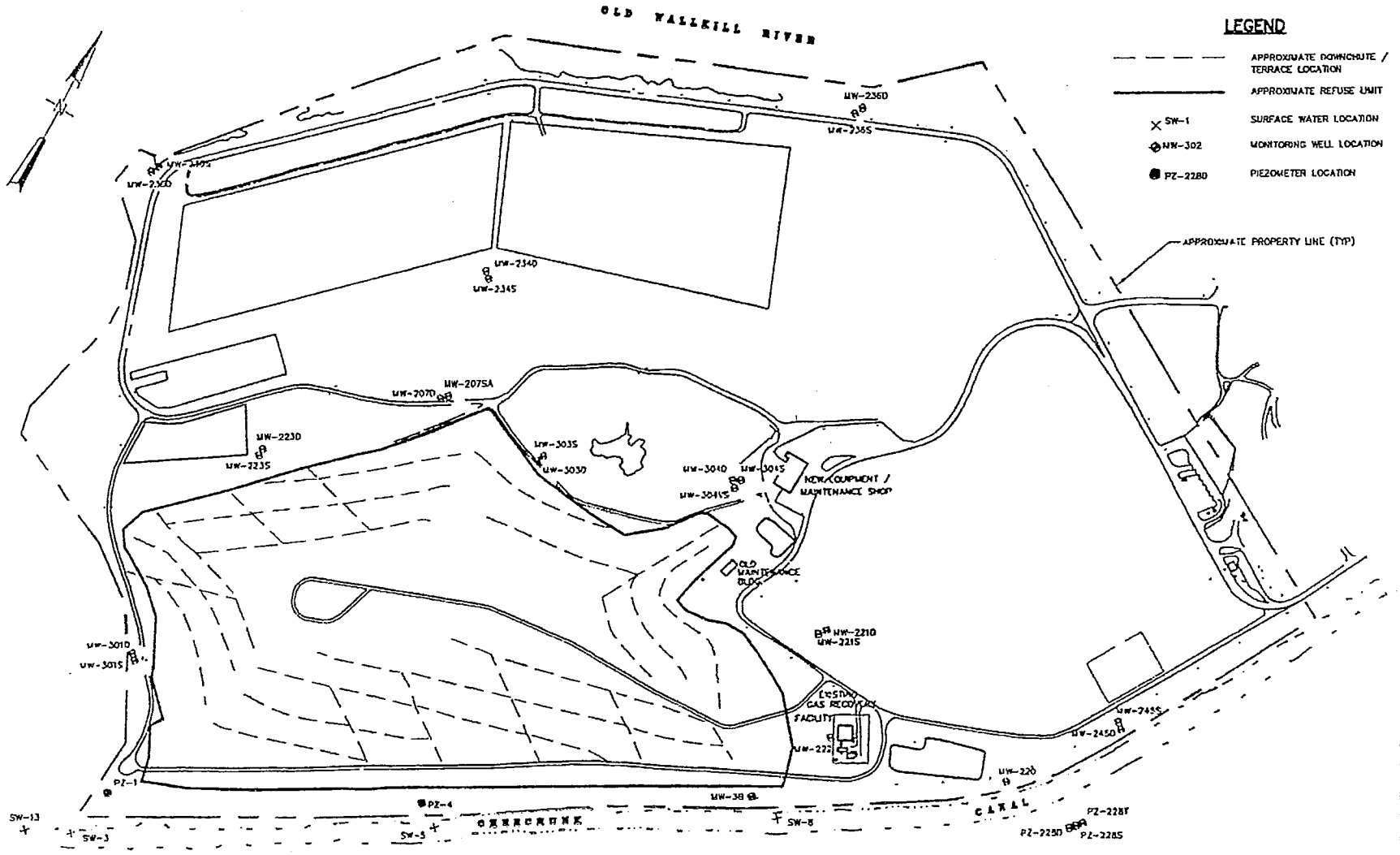
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 10/16/20

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



SCALE: 1" = 600'

Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 11/13/20 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 8/12/20				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck	☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. Unauthorized materials present ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

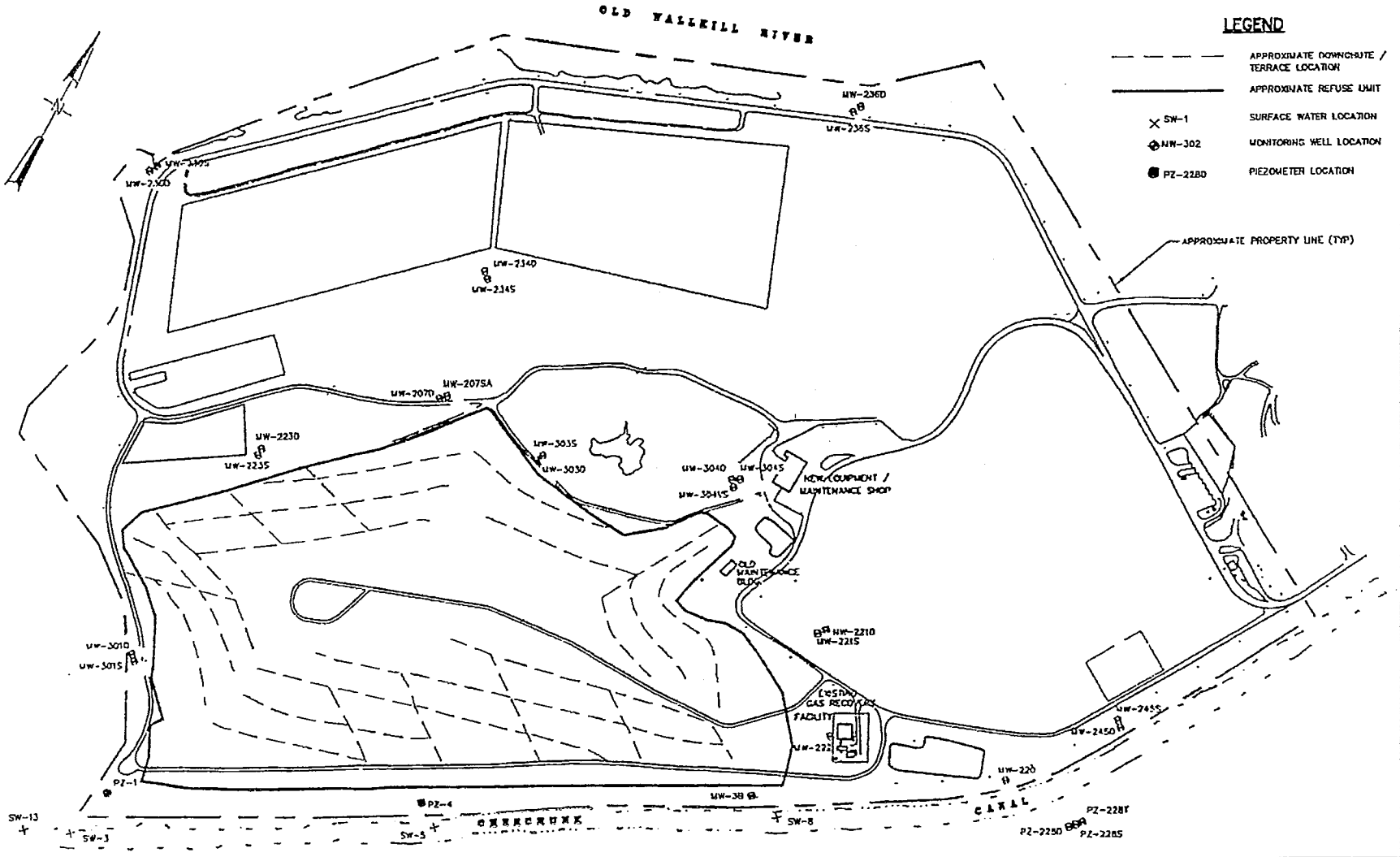
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Leonard J. Sherman

DATE: 11/13/20

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



SCALE: 1" = 600'

Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 12/11/20 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
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18.	Most recent mowing date: 8/12/20			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle ☐ ATV	
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

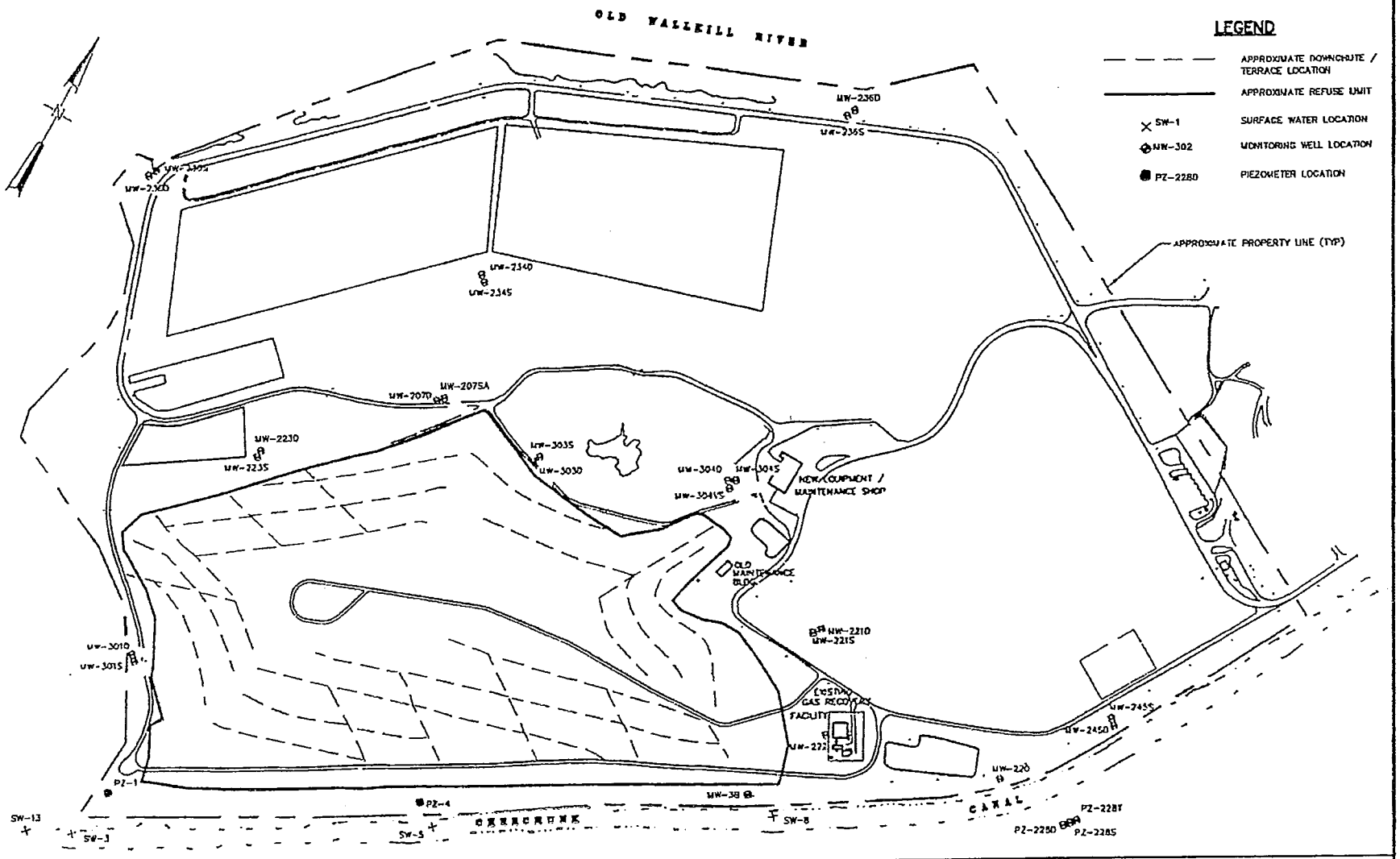
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 12/11/20

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



SCALE: 1" = 600'

Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ANNUAL MONITORING AND MAINTENANCE OPERATIONS CHECKLIST
ORANGE COUNTY LANDFILL
YEAR 2021

TASK DESCRIPTION	TASK FREQUENCY	MONTH TASK WAS COMPLETED [2]											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing	Bi-annually							7/14		9/8 9/16			
Monthly Inspections (Internal)	Monthly	1/15	2/16	3/16	4/13	5/12	6/15	7/13	8/13	9/15	10/13	11/16	12/15
Annual Post-Closure Monitoring Report Submitted to NYSDEC[1]	Every Fifth Quarter												
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[1] Annual Monitoring includes groundwater monitoring, surface water monitoring, leachate monitoring, and explosive gas monitoring.

[2] Upon completeion of the task, the appropriate space should be initial and dated by the person that completed the task.

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 1/15/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
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27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

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Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

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L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

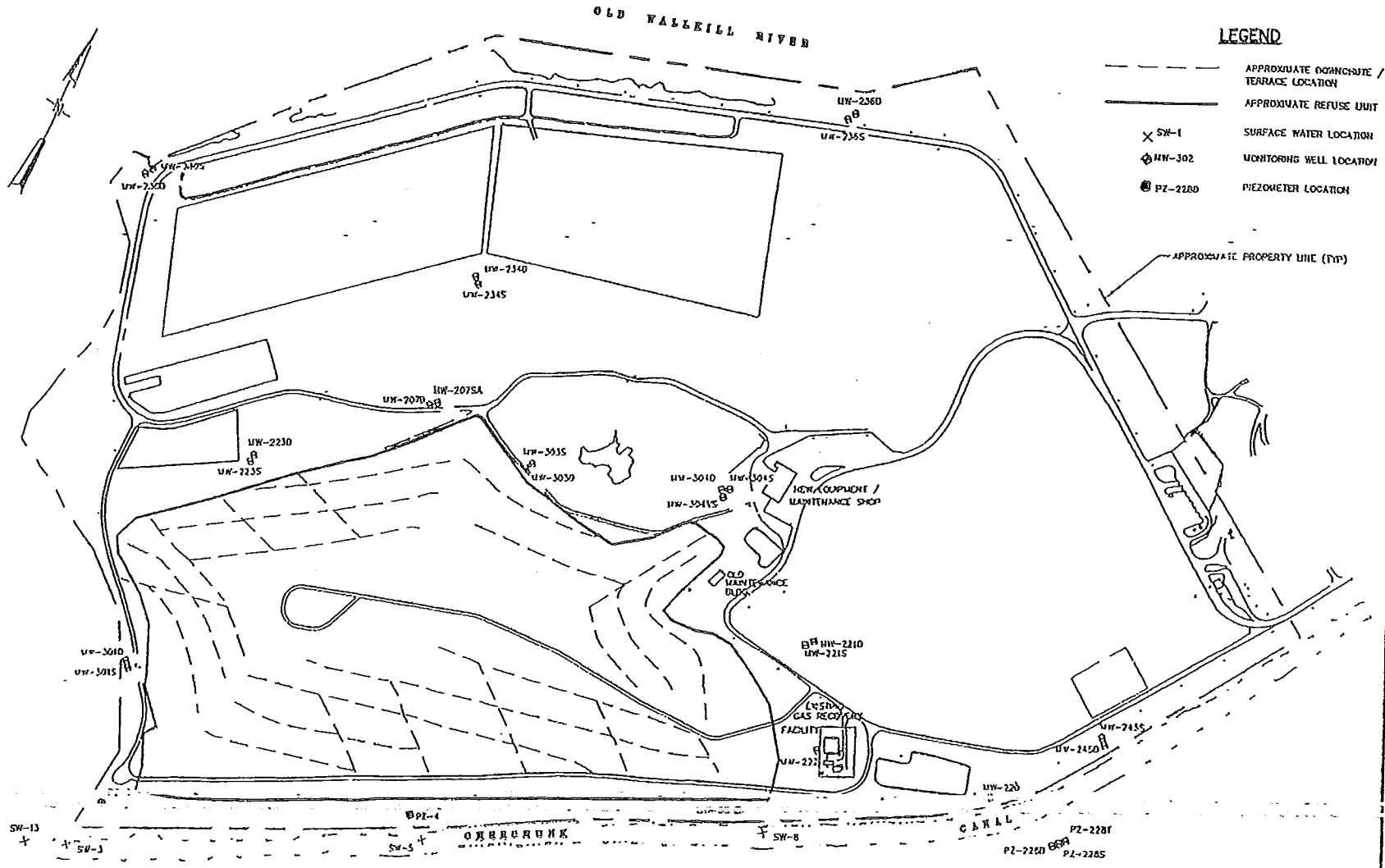
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Ken Shemmel

DATE: 1/15/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns&Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 2/16/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
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5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 8/12/20				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck	☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4 (Maintenance Shop)	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

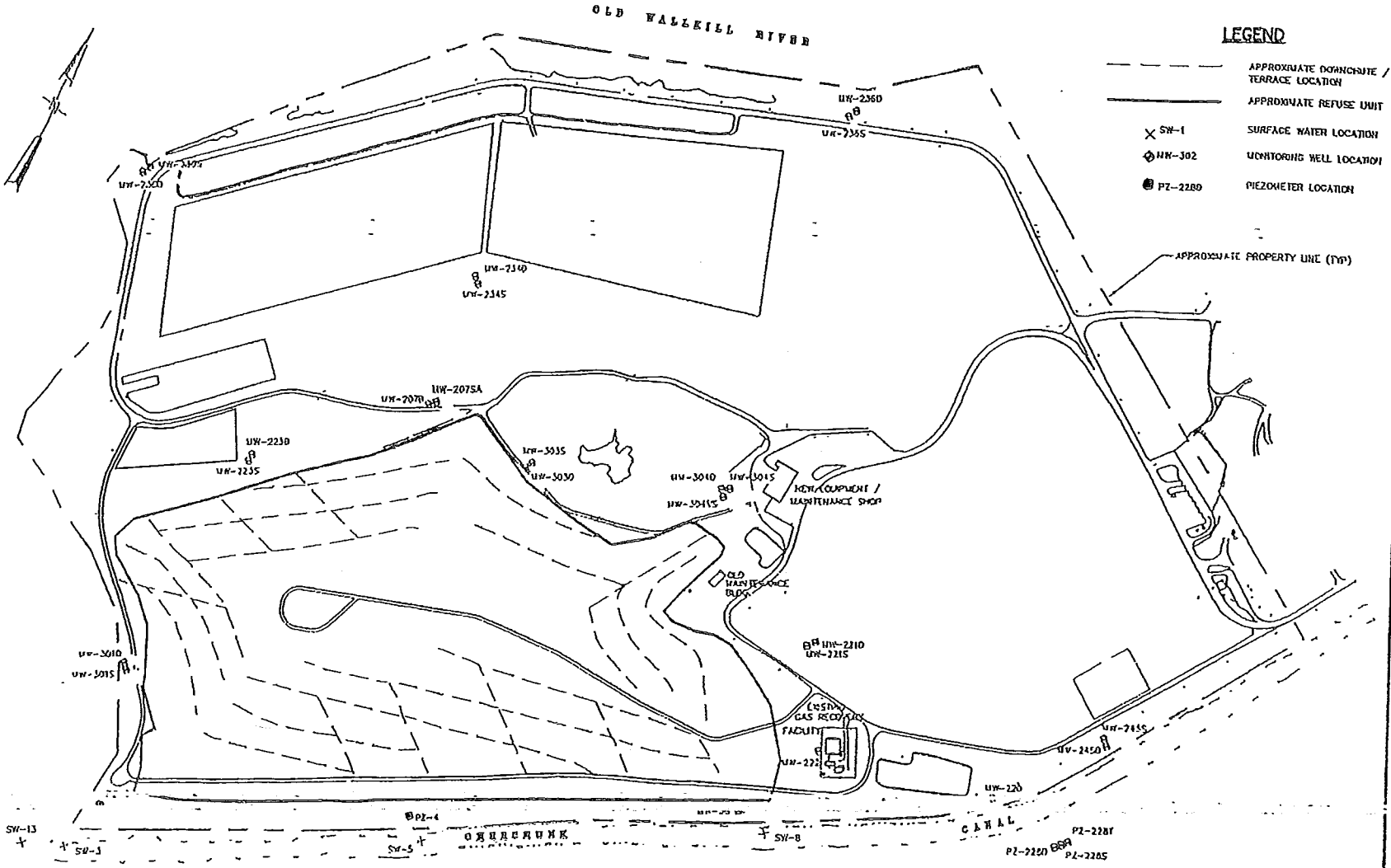
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 2/16/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 3/16/21

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 8/12/20			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

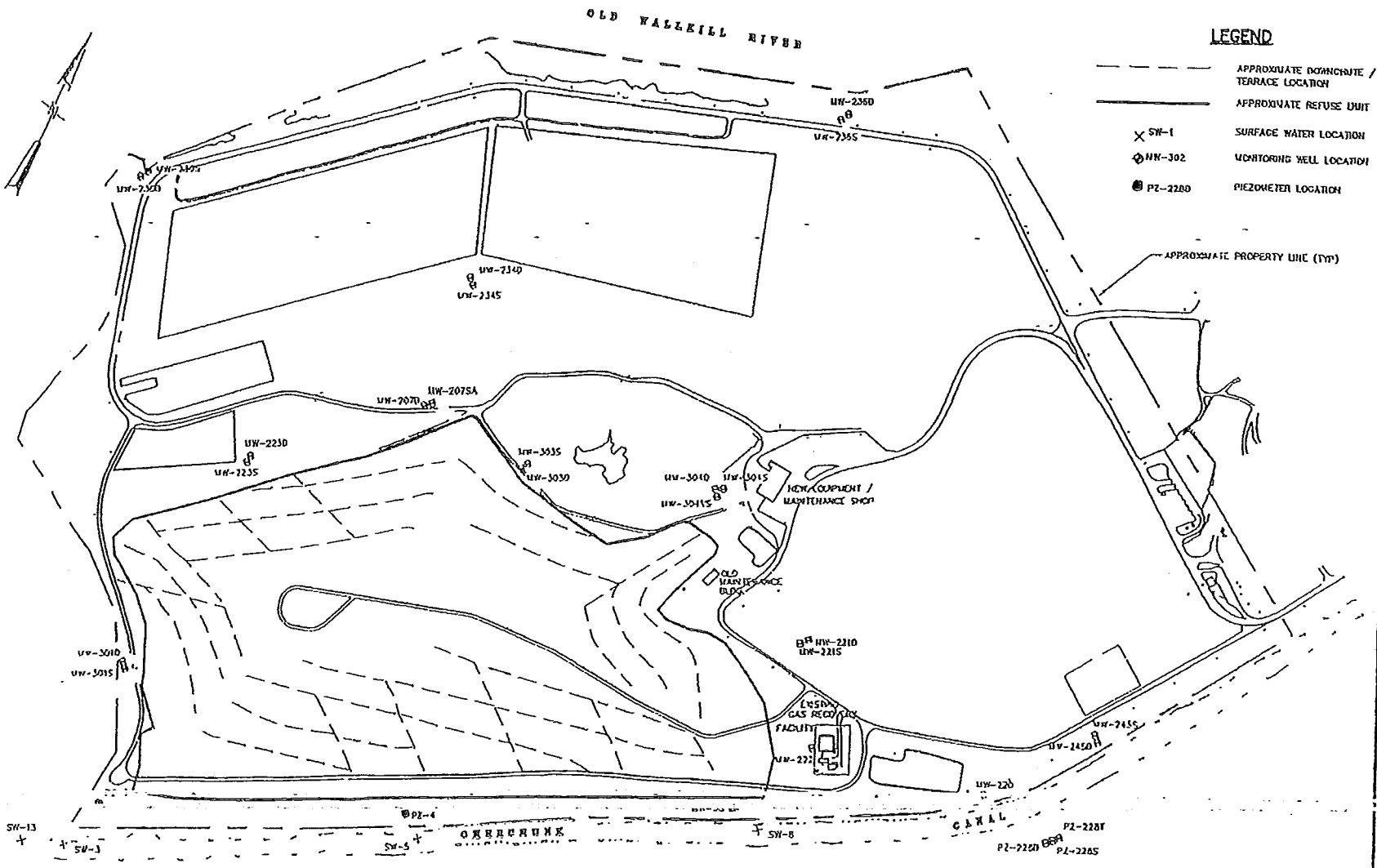
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Ken Shemwell

DATE: 3/16/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Steams&Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 4/13/21

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 8/12/20				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV	
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. *Unauthorized materials present*	☑ No	☐ Yes *	
30. Dead Animals present	☑ No	☐ Yes *	
Oil slick on adjacent waters	☑ No	☐ Yes *	
32. Damaged leachate manholes	☑ No	☐ Yes *	
33. Leachate seeps	☑ No	☐ Yes	Stain Color: _____
			Length: _____
34. Leachate fluid	☐ Puddle *	☐ Stream *	☑ None
35. Gulls/scavenger birds present	☑ No	☐ Yes *	
36. Other animal foraging evidence	☑ No	☐ Yes *	
37. No smoking warnings	☑ Present	☐ Missing/Damaged	
38. Survey Monuments	☑ Undisturbed	☐ Disturbed	

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4 (Maintenance Shop)	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

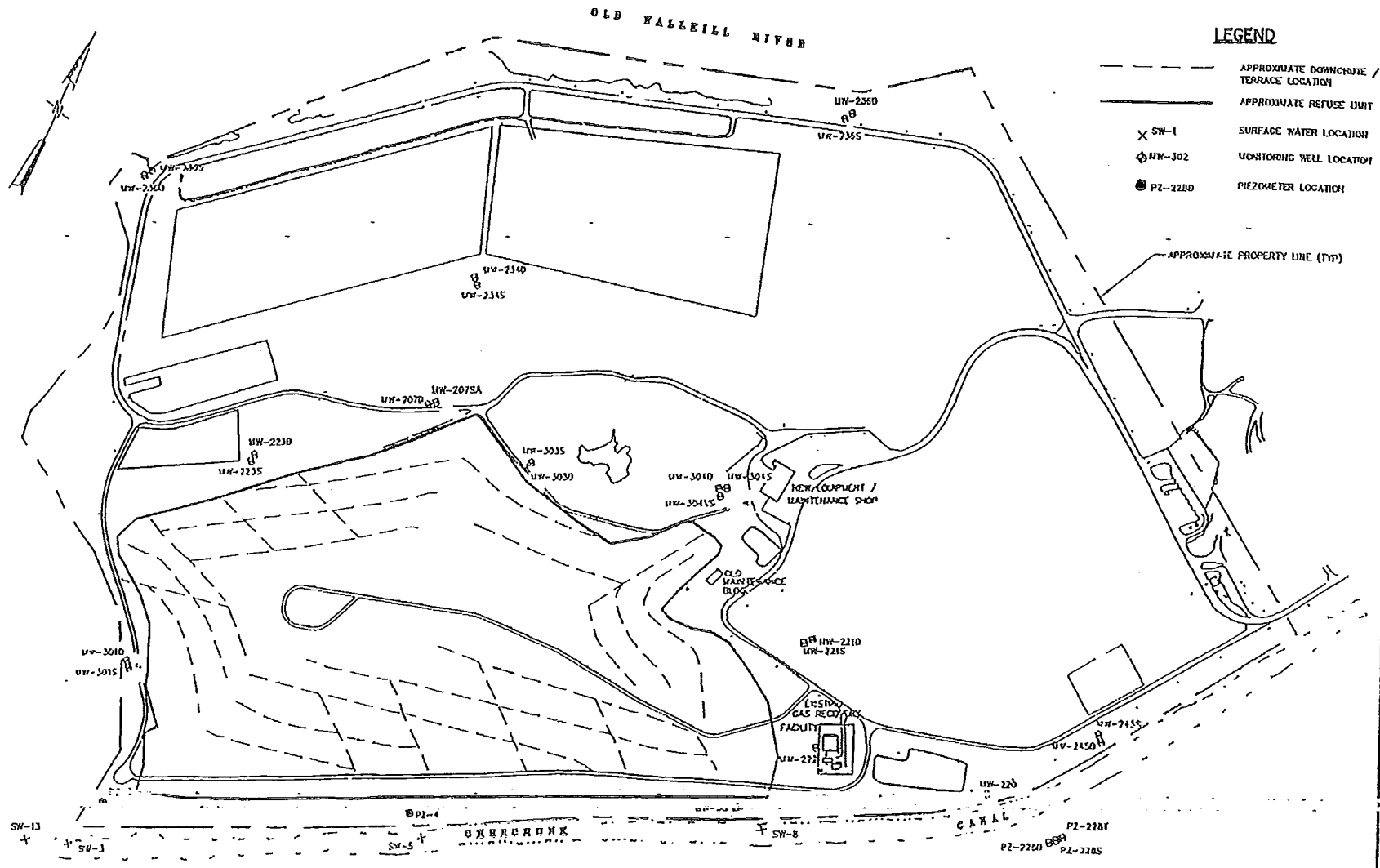
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 4/13/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler ENVIRONMENTAL ENGINEERS & SCIENTISTS		ORANGE COUNTY LANDFILL TOWN OF GOSHEN, NEW YORK
SCALE: 1" = 600'	DATE: 03/96 JOB No.: 2535	FIGURE 2A FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 5/12/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 8/12/20			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
	Evidence of motor vehicle trespass	☑ No ☐ Auto/Truck	☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

Oil slick on adjacent waters ☑ No ☐ Yes *

2. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

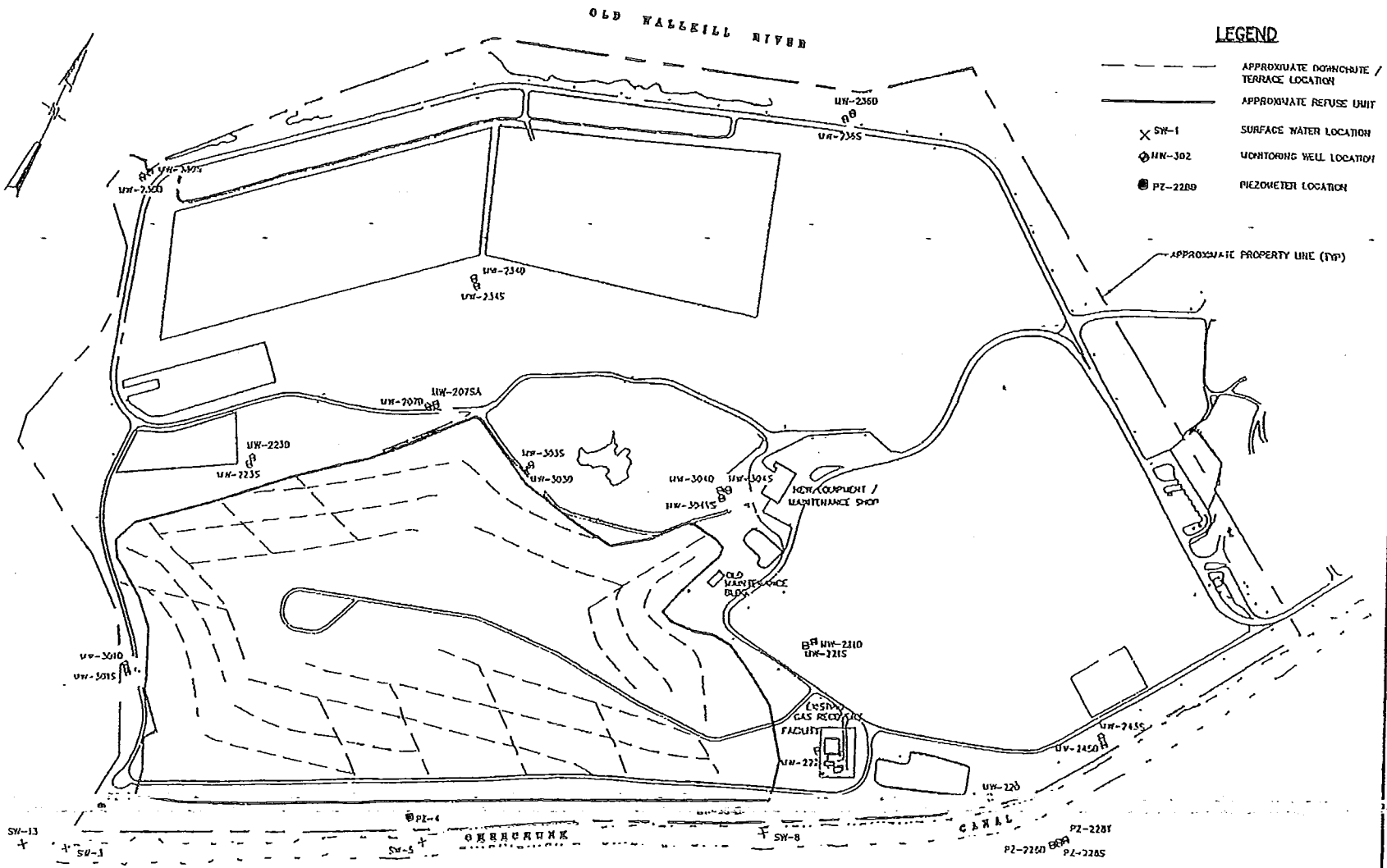
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 5/12/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 6/15/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 8/12/20				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck	☐ Motorcycle	☐ ATV
	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. *Unauthorized materials present*	☑ No	☐ Yes *	
30. Dead Animals present	☑ No	☐ Yes *	
31. Oil slick on adjacent waters	☑ No	☐ Yes *	
Damaged leachate manholes	☑ No	☐ Yes *	
33. Leachate seeps	☑ No	☐ Yes	Stain Color: _____
			Length: _____
34. Leachate fluid	☐ Puddle *	☐ Stream *	☑ None
35. Gulls/scavenger birds present	☑ No	☐ Yes *	
36. Other animal foraging evidence	☑ No	☐ Yes *	
37. No smoking warnings	☑ Present	☐ Missing/Damaged	
38. Survey Monuments	☑ Undisturbed	☐ Disturbed	

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4 (Maintenance Shop)	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

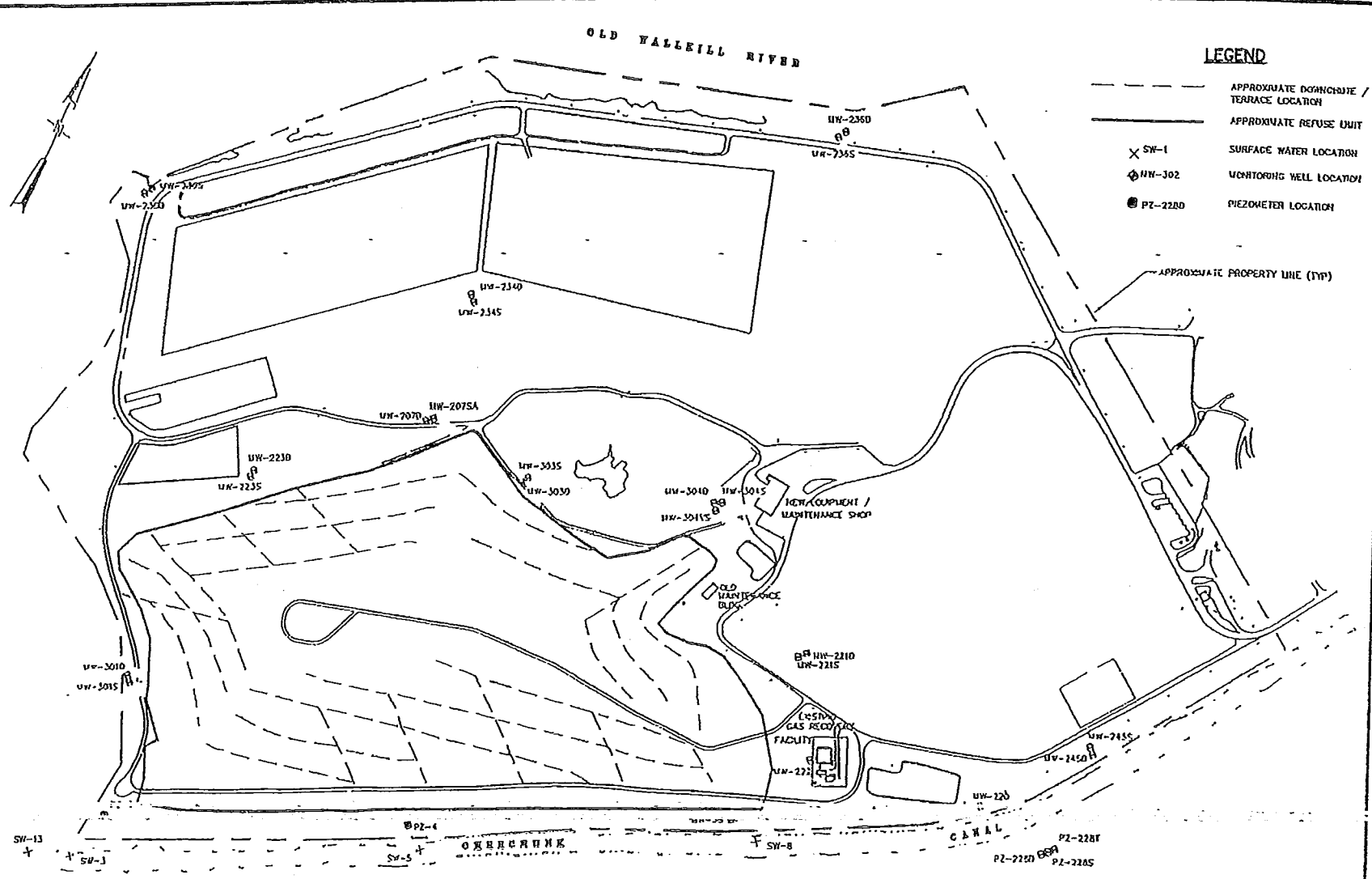
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 6/15/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 7/13/21

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 8/12/20			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L-1	☑ OK	☐ Problem *
L-2	☑ OK	☐ Problem *
L-3	☑ OK	☐ Problem *
L-4	☑ OK	☐ Problem *
L-5	☑ OK	☐ Problem *
L-7	☑ OK	☐ Problem *

35. Condensate Tanks

C-1	☑ OK	☐ Problem *
C-2	☑ OK	☐ Problem *
C-3	☑ OK	☐ Problem *
C-4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

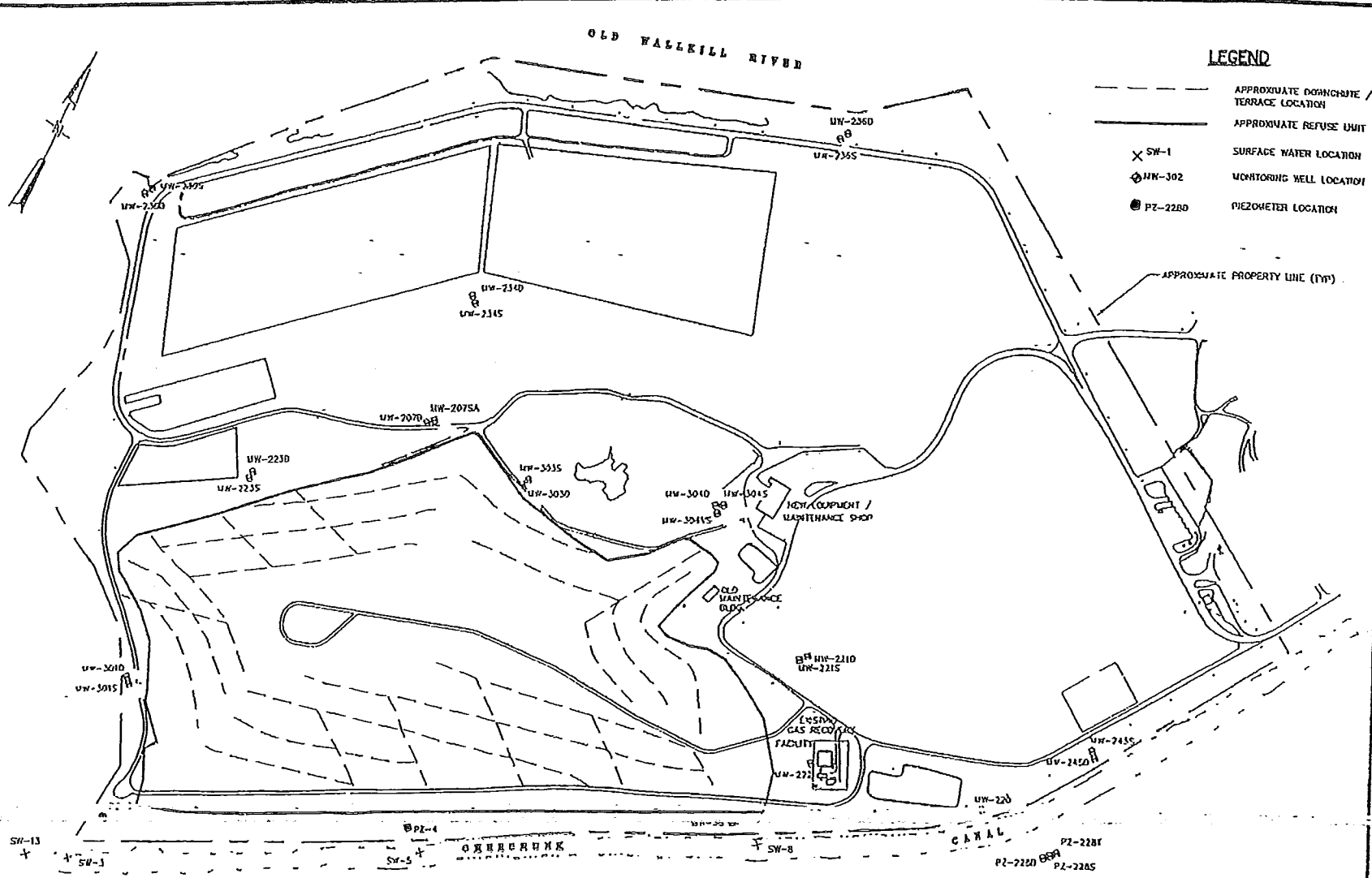
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Kevin J. Sherman

DATE: 7/13/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 8/13/21

Performed By: Ken Sherrod

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 7/14/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

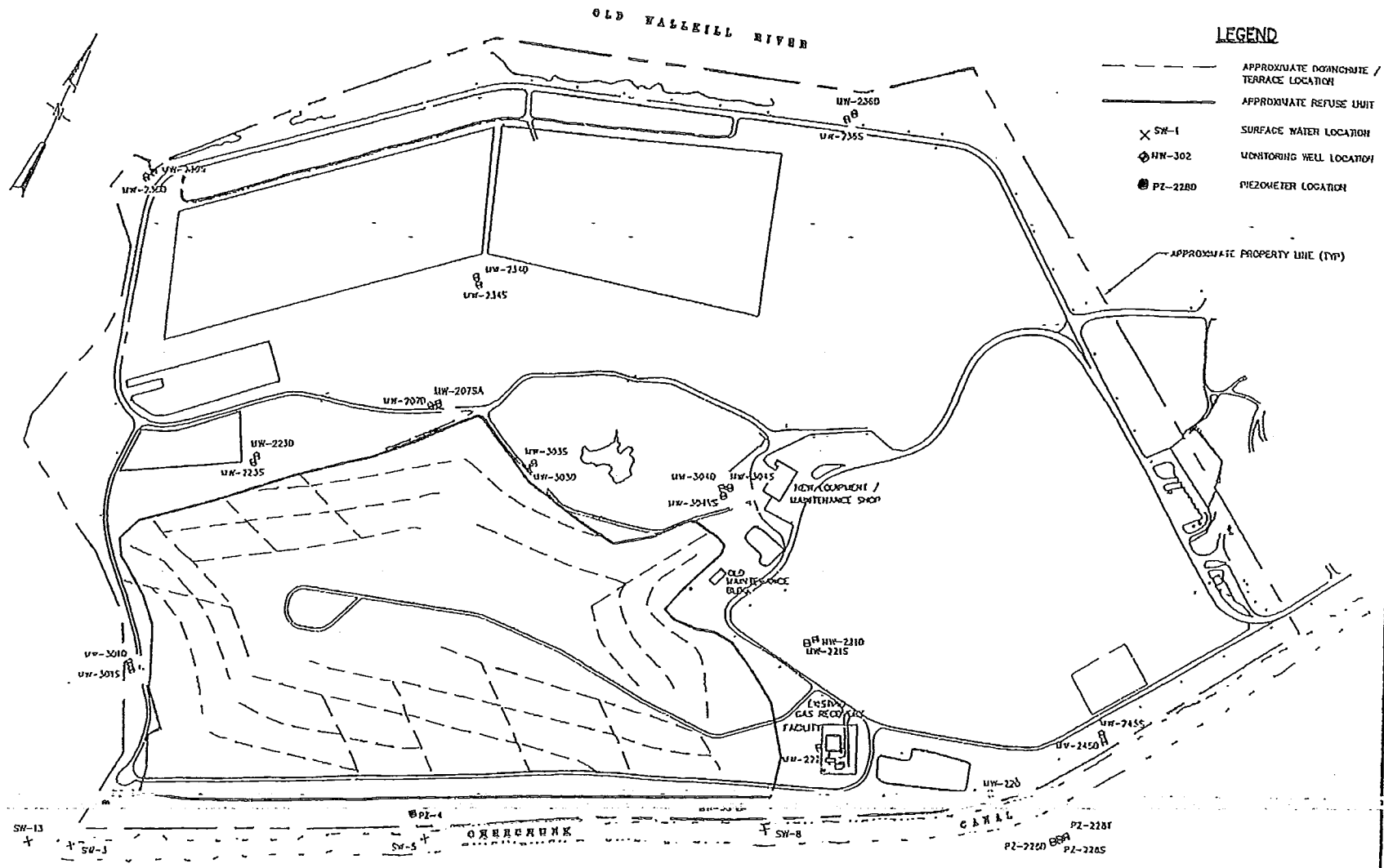
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 8/13/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 9/15/21

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 9/8/21				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck	☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 9/15/21

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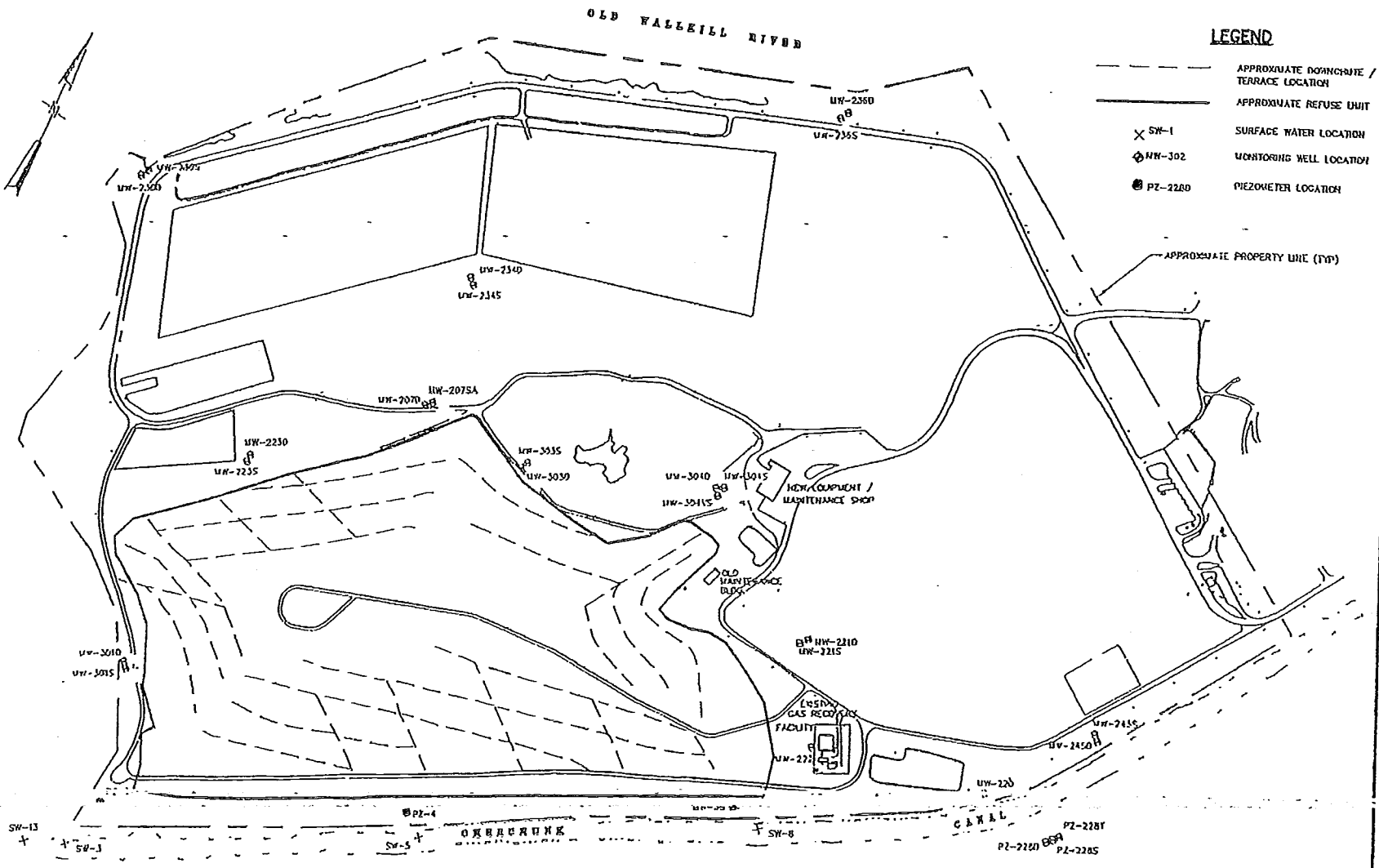


Stearns & Wheler ENVIRONMENTAL ENGINEERS & SCIENTISTS	ORANGE COUNTY LANDFILL TOWN OF GOSHEN, NEW YORK
SCALE: 1" = 600'	FIGURE 2A FIELD INSPECTION SITE MAP
DATE: 03/96 JOB No.: 2535	

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 10/13/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

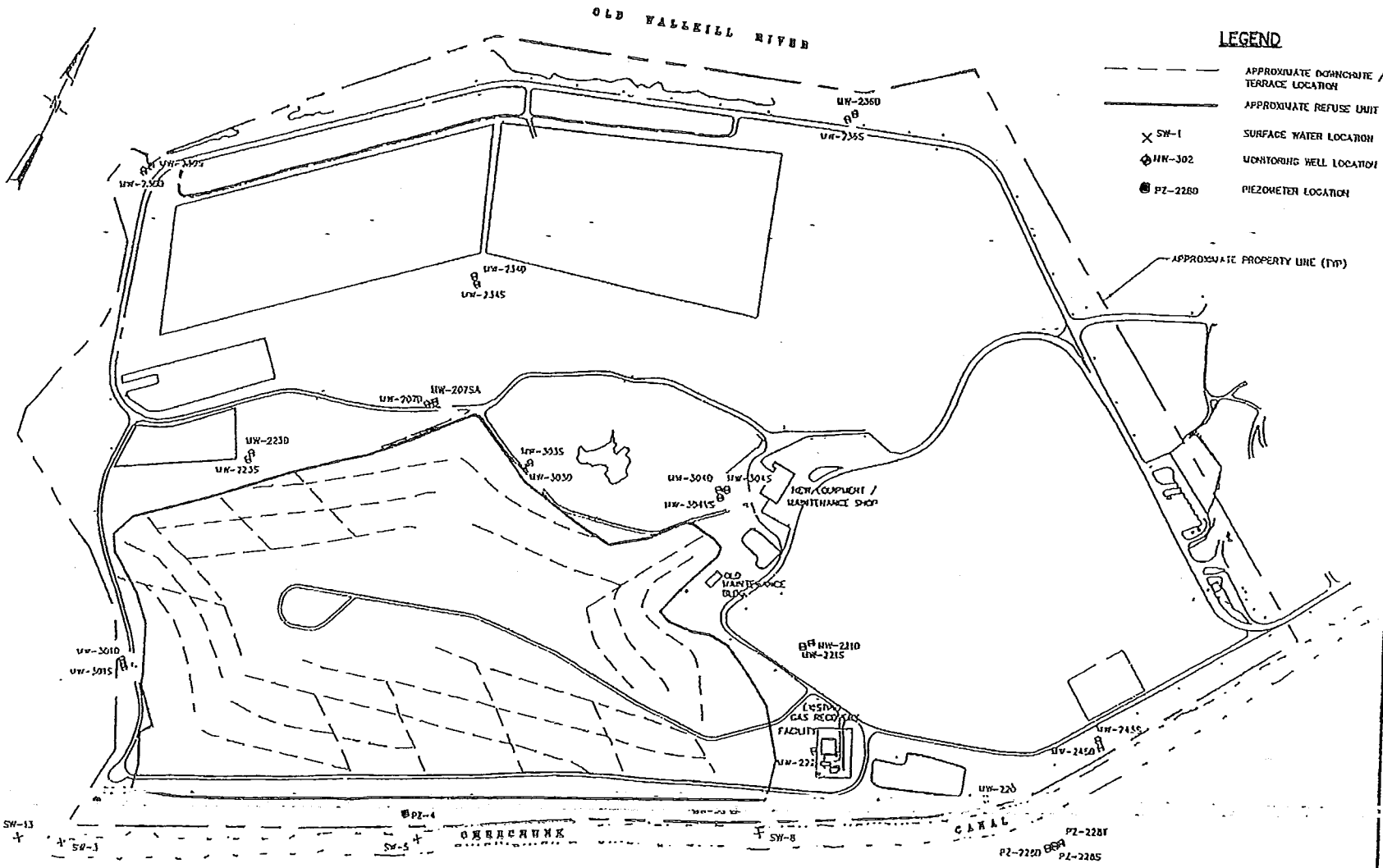
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Kenneth J. Thomas

DATE: 10/13/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 11/16/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C – 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C – 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Howard J. Sherman

DATE: 11/16/21

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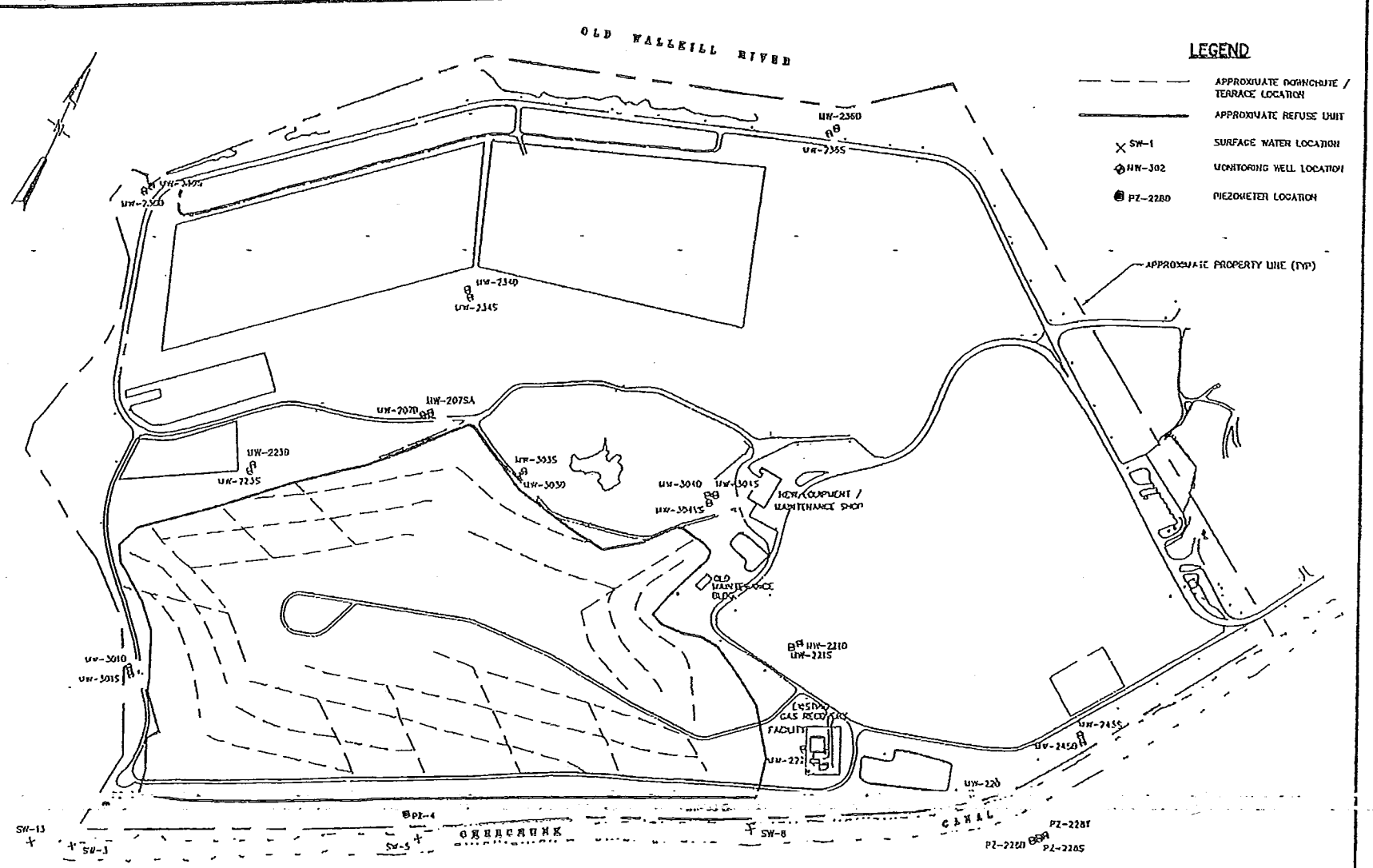


Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 12/15/21 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. *Unauthorized materials present*	☑ No	☐ Yes *		
30. Dead Animals present	☑ No	☐ Yes *		
31. Oil slick on adjacent waters	☑ No	☐ Yes *		
32. Damaged leachate manholes	☑ No	☐ Yes *		
33. Leachate seeps	☑ No	☐ Yes	Stain Color: _____	
			Length: _____	
34. Leachate fluid	☐ Puddle *	☐ Stream *	☑ None	
35. Gulls/scavenger birds present	☑ No	☐ Yes *		
36. Other animal foraging evidence	☑ No	☐ Yes *		
37. No smoking warnings	☑ Present	☐ Missing/Damaged		
38. Survey Monuments	☑ Undisturbed	☐ Disturbed		

39. Leachate Collection tanks and piping

L-1	☑ OK	☐ Problem *
L-2	☑ OK	☐ Problem *
L-3	☑ OK	☐ Problem *
L-4	☑ OK	☐ Problem *
L-5	☑ OK	☐ Problem *
L-7	☑ OK	☐ Problem *

35. Condensate Tanks

C-1	☑ OK	☐ Problem *
C-2	☑ OK	☐ Problem *
C-3	☑ OK	☐ Problem *
C-4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

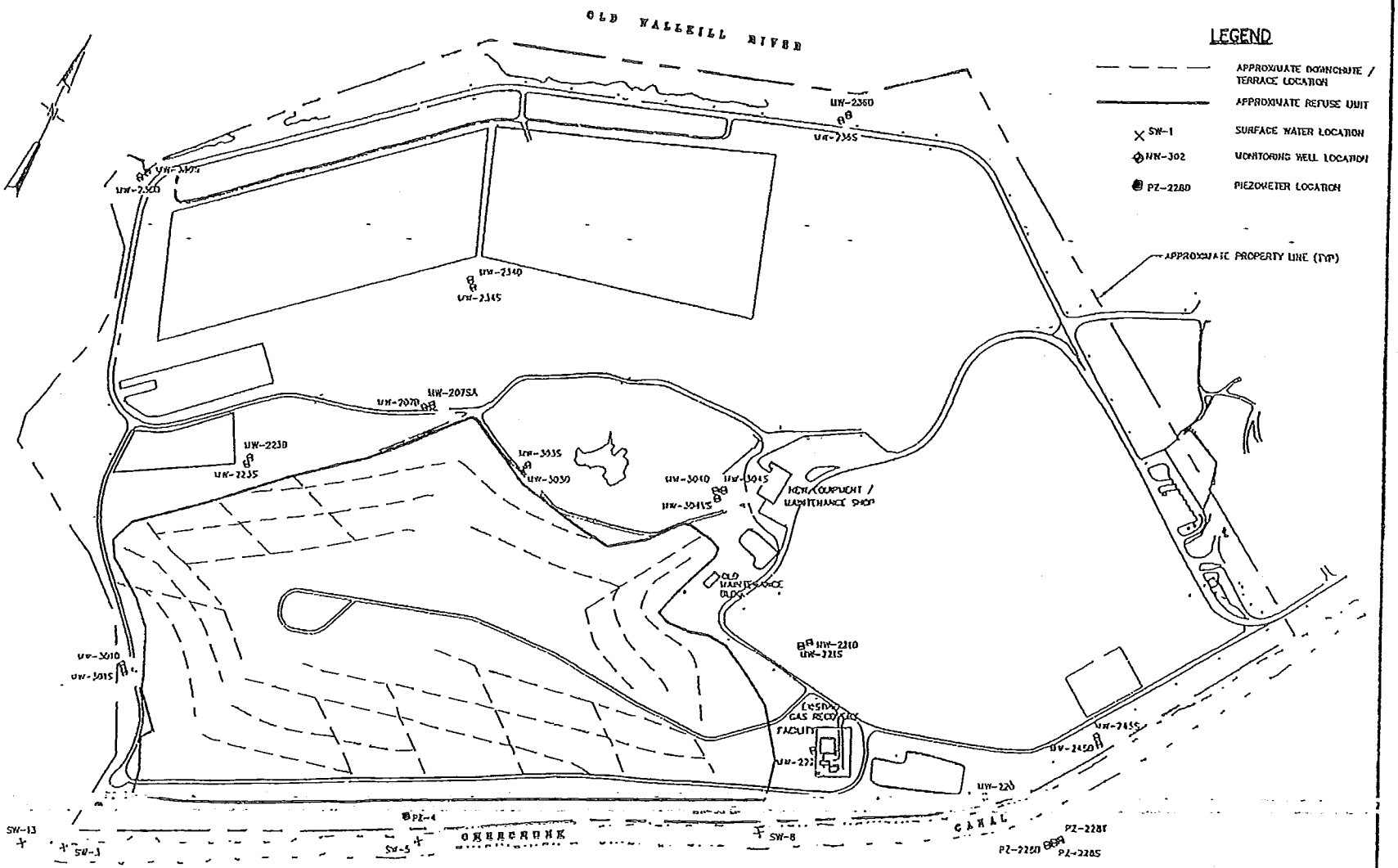
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Howard J. Sherman

DATE: 12/15/21

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

ANNUAL MONITORING AND MAINTENANCE OPERATIONS CHECKLIST
ORANGE COUNTY LANDFILL
YEAR 2022

TASK DESCRIPTION	TASK FREQUENCY	MONTH TASK WAS COMPLETED [2]											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing	Bi-annually												
Monthly Inspections (Internal)	Monthly	1/14	2/15	3/15	4/14								
Annual Post-Closure Monitoring Report Submitted to NYSDEC[1]	Every Fifth Quarter												
Periodic Review Report Submitted to NYSDEC	Annually												

[1] Annual Monitoring includes groundwater monitoring, surface water monitoring, leachate monitoring, and explosive gas monitoring.

[2] Upon completeion of the task, the appropriate space should be initial and dated by the person that completed the task.

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 1/14/22

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:
25.	Evidence of trespass	☐ Yes*	☑ No	
26.	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present — [✓] No [ ] Yes *

30. Dead Animals present — [✓] No [ ] Yes *

31. Oil slick on adjacent waters — [✓] No [ ] Yes *

32. Damaged leachate manholes — [✓] No [ ] Yes *

33. Leachate seeps — [✓] No [ ] Yes Stain Color: _____

Length: _____

34. Leachate fluid — [ ] Puddle * [ ] Stream * [✓] None

35. Gulls/scavenger birds present — [✓] No [ ] Yes *

36. Other animal foraging evidence — [✓] No [ ] Yes *

37. No smoking warnings — [✓] Present [ ] Missing/Damaged

38. Survey Monuments — [✓] Undisturbed [ ] Disturbed

39. Leachate Collection tanks and piping

L - 1	[✓] OK	[ ] Problem *
L - 2	[✓] OK	[ ] Problem *
L - 3	[✓] OK	[ ] Problem *
L - 4	[✓] OK	[ ] Problem *
L - 5	[✓] OK	[ ] Problem *
L - 7	[✓] OK	[ ] Problem *

35. Condensate Tanks

C - 1	[✓] OK	[ ] Problem *
C – 2	[✓] OK	[ ] Problem *
C - 3	[✓] OK	[ ] Problem *
C – 4 (Maintenance Shop)	[✓] OK	[ ] Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

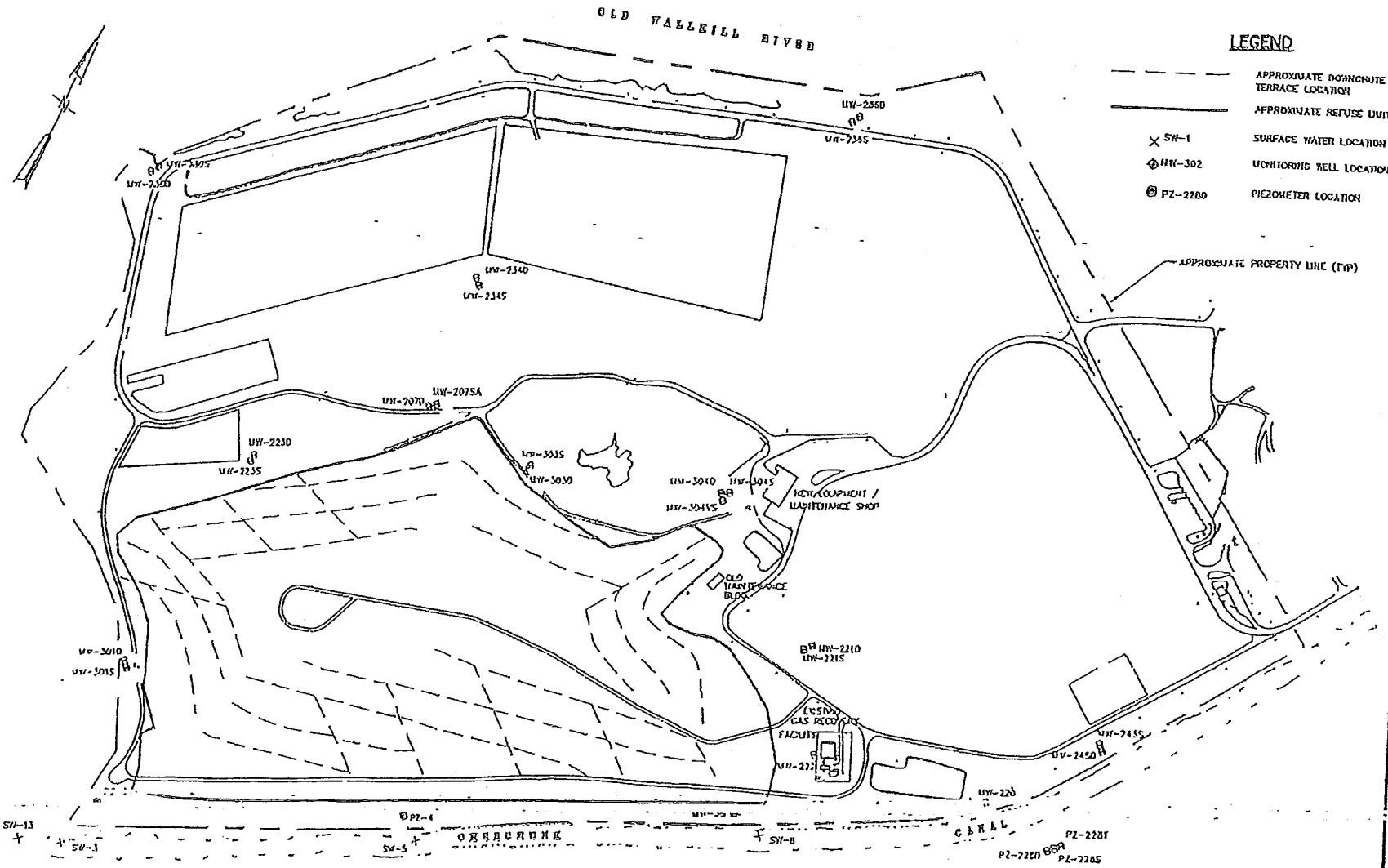
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 1/14/22

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 2/15/22

Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
12.	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
27.	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present — [✓] No [ ] Yes *

30. Dead Animals present — [✓] No [ ] Yes *

31. Oil slick on adjacent waters — [✓] No [ ] Yes *

32. Damaged leachate manholes — [✓] No [ ] Yes *

33. Leachate seeps — [✓] No [ ] Yes Stain Color: _____

Length: _____

34. Leachate fluid — [ ] Puddle * [ ] Stream * [✓] None

35. Gulls/scavenger birds present — [✓] No [ ] Yes *

36. Other animal foraging evidence — [✓] No [ ] Yes *

37. No smoking warnings — [✓] Present [ ] Missing/Damaged

38. Survey Monuments — [✓] Undisturbed [ ] Disturbed

39. Leachate Collection tanks and piping

L - 1	[✓] OK	[ ] Problem *
L - 2	[✓] OK	[ ] Problem *
L - 3	[✓] OK	[ ] Problem *
L - 4	[✓] OK	[ ] Problem *
L - 5	[✓] OK	[ ] Problem *
L - 7	[✓] OK	[ ] Problem *

35. Condensate Tanks

C - 1	[✓] OK	[ ] Problem *
C – 2	[✓] OK	[ ] Problem *
C - 3	[✓] OK	[ ] Problem *
C – 4	(Maintenance Shop)	
	[✓] OK	[ ] Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

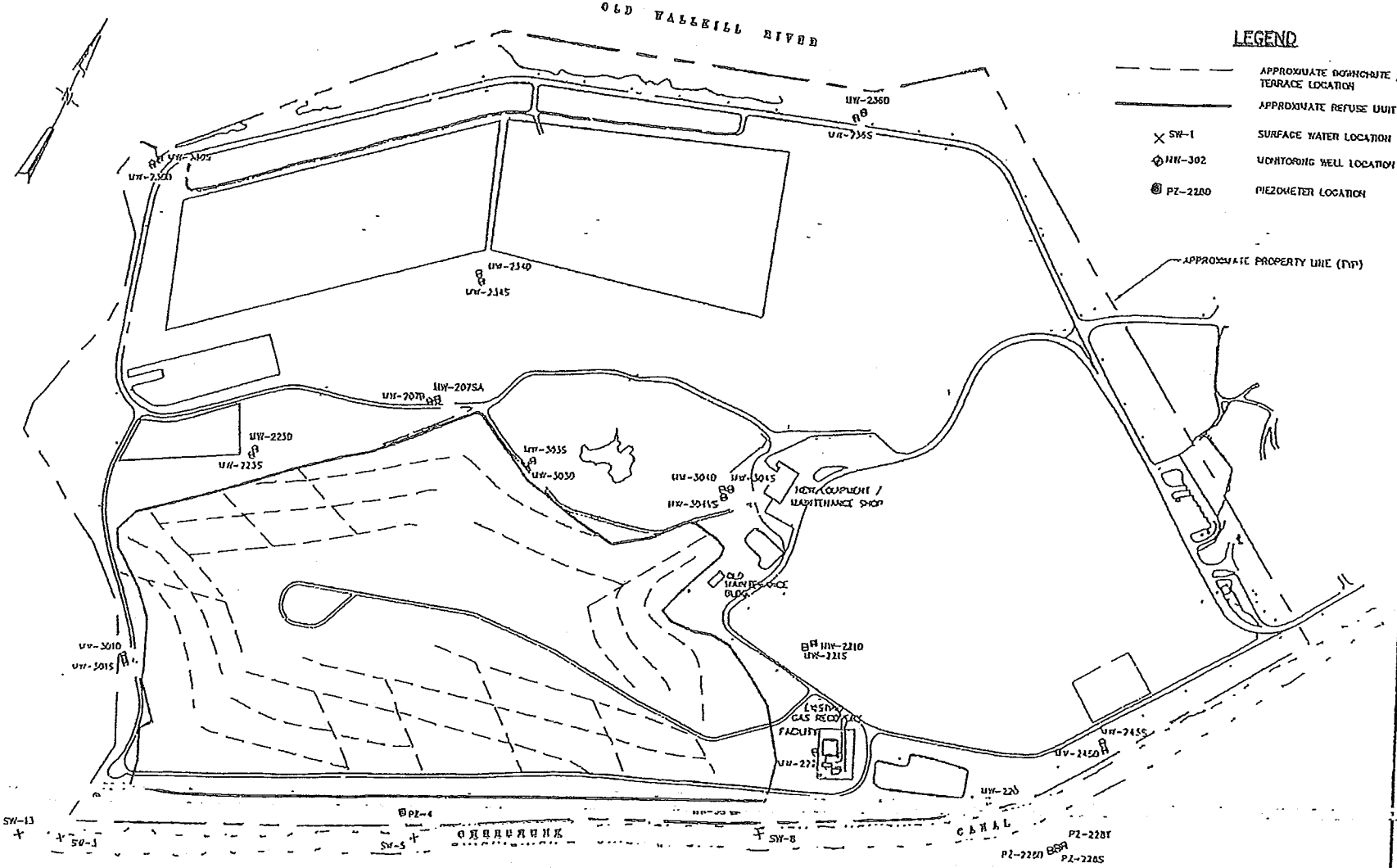
COMMENTS:

ORRECTIVE ACTION TAKEN:

BY:

DATE: 2/15/22

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns & Wheler ENVIRONMENTAL ENGINEERS & SCIENTISTS		ORANGE COUNTY LANDFILL TOWN OF GOSHEN, NEW YORK
SCALE: 1" = 600'	DATE: 03/96 JOB No.: 2535	FIGURE 2A FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 3/15/22 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *	
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly		
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments	
9.	Grass condition	☑ Good	☐ Poor	☐ Dead	
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other	
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____	
	Capped Gas Wells	☑ Good Condition	☐ Damaged*		
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *	
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*		
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)		
16.	Geomembrane liner exposed	☑ No	☐ Yes		
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)		
18.	Most recent mowing date: 9/16/21				
19.	Stressed vegetation	☑ No	☐ Yes*		
20.	Damage to leachate cleanouts	☑ No	☐ Yes		
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*		
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____	
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *	
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____	
25.	Evidence of trespass	☐ Yes*	☑ No		
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck	☐ Motorcycle	☐ ATV
	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____	
28.	Evidence of lightning strike	☑ No	☐ Yes *		

29. *Unauthorized materials present* ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

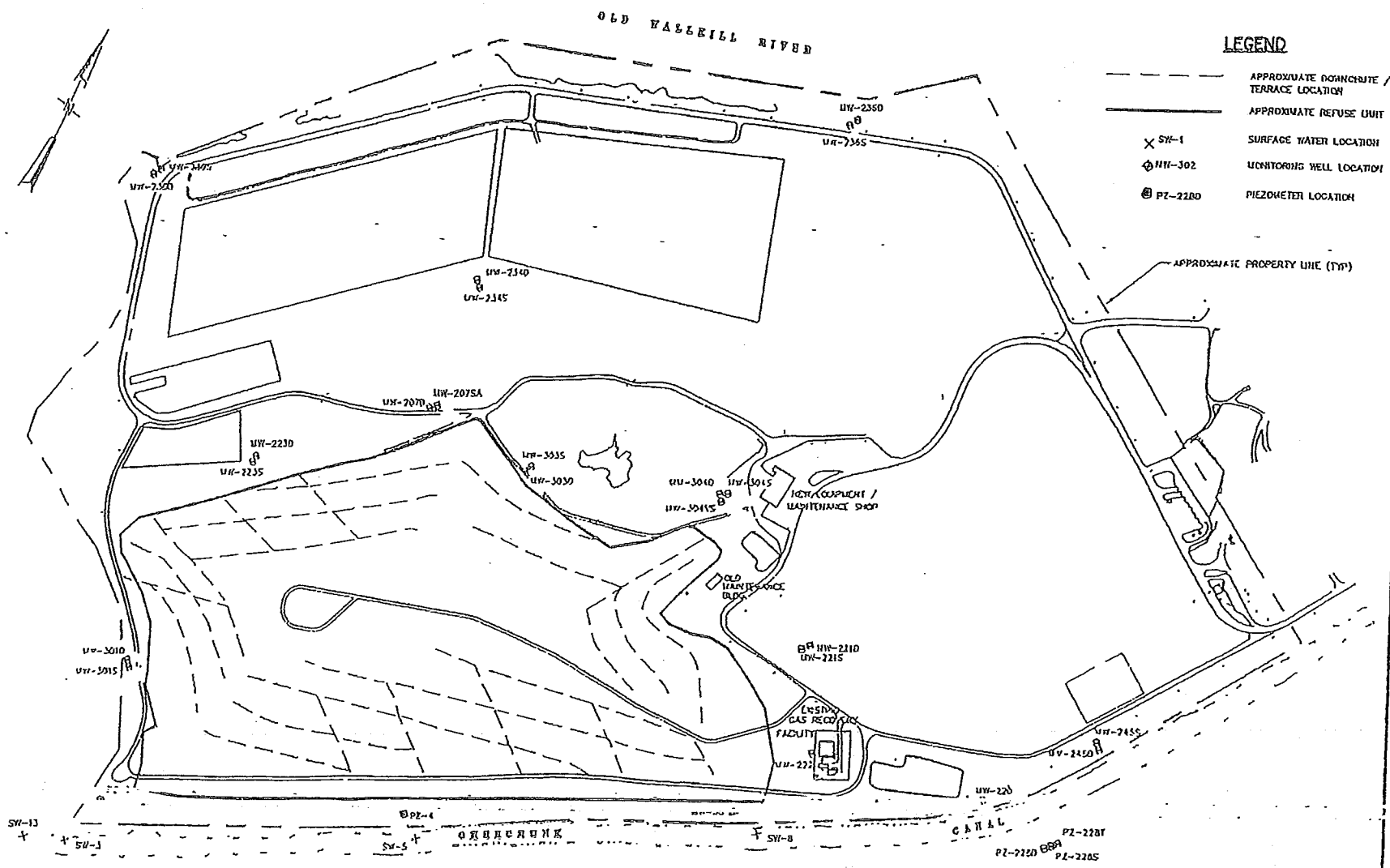
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE: 3/15/22

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



SCALE: 1" = 600'	Stearns & Wheler ENVIRONMENTAL ENGINEERS & SCIENTISTS DATE: 03/96 JOB No.: 2535	ORANGE COUNTY LANDFILL TOWN OF GOSHEN, NEW YORK FIGURE 2A FIELD INSPECTION SITE MAP

ORANGE COUNTY LANDFILL
SITE MANAGEMENT PLAN

MONTHLY POST-CLOSURE FIELD INSPECTION REPORT
ORANGE COUNTY

Date: 4/14/22 Performed By: Ken Sherwood

1.	Access road condition	☑ Good	☐ Fair	☐ Poor *
2.	Access Control (Monitoring of Access road & entrance into landfill property)	☑ Has been maintained properly	☐ Has not been maintained properly	
3.	Roadside ditches, culverts & other site drainage ways	☑ Unobstructed	☐ Obstructed *	☐ Sediments
4.	Catch Basins	☑ Unobstructed	☐ Obstructed *	☐ Sediments
5.	Detention Basin	☑ Unobstructed	☐ Obstructed *	☐ Sediments
6.	Terraces	☑ Unobstructed	☐ Obstructed *	☐ Sediments
7.	Terraces downchutes	☑ Unobstructed	☐ Obstructed *	☐ Sediments
8.	Terraces headwall	☑ Unobstructed	☐ Obstructed *	☐ Sediments
9.	Grass condition	☑ Good	☐ Poor	☐ Dead
10.	Other Plants Present	☐ Burdock	☐ Thistle	☐ Other
11.	Woody Plants	☑ Not on cap	☐ Present*	Date Removed:_____
	Capped Gas Wells	☑ Good Condition	☐ Damaged*	
13.	Surface erosion	☑ None	☐ Minor	☐ Needs repair *
14.	Landfill Stability (Sloughing)	☑ No soil movement	☐ Soil movement present*	
15.	Cracks (Within landfill cover)	☑ No Cracks Visible	☐ Landfill cover crack(s) are visible* (Note Measurement, Location & Description)	
16.	Geomembrane liner exposed	☑ No	☐ Yes	
17.	Settlement	☑ No Settlement visible	☐ Settlement is visible* (Note Measurement, Location & Description)	
18.	Most recent mowing date: 9/16/21			
19.	Stressed vegetation	☑ No	☐ Yes*	
20.	Damage to leachate cleanouts	☑ No	☐ Yes	
21.	Monitoring Wells	☑ Secure with locks	☐ Damaged*	
22.	Litter present	☑ No	☐ Yes	Est. removal date:_____
23.	Evidence of ponded water	☑ None	☐ Observed*	☐ Suspected *
24.	Fallen trees	☑ None	☐ Present on cap *	Est. removal date:_____
25.	Evidence of trespass	☐ Yes*	☑ No	
	Evidence of motor vehicle trespass	☑ No	☐ Auto/Truck ☐ Motorcycle	☐ ATV
	Woodchuck/rodent holes in cap	☑ No	☐ Yes	Date Backfilled:_____
28.	Evidence of lightning strike	☑ No	☐ Yes *	

29. Unauthorized materials present ☑ No ☐ Yes *

30. Dead Animals present ☑ No ☐ Yes *

31. Oil slick on adjacent waters ☑ No ☐ Yes *

32. Damaged leachate manholes ☑ No ☐ Yes *

33. Leachate seeps ☑ No ☐ Yes Stain Color: _____

Length: _____

34. Leachate fluid ☐ Puddle * ☐ Stream * ☑ None

35. Gulls/scavenger birds present ☑ No ☐ Yes *

36. Other animal foraging evidence ☑ No ☐ Yes *

37. No smoking warnings ☑ Present ☐ Missing/Damaged

38. Survey Monuments ☑ Undisturbed ☐ Disturbed

39. Leachate Collection tanks and piping

L - 1	☑ OK	☐ Problem *
L - 2	☑ OK	☐ Problem *
L - 3	☑ OK	☐ Problem *
L - 4	☑ OK	☐ Problem *
L - 5	☑ OK	☐ Problem *
L - 7	☑ OK	☐ Problem *

35. Condensate Tanks

C - 1	☑ OK	☐ Problem *
C - 2	☑ OK	☐ Problem *
C - 3	☑ OK	☐ Problem *
C - 4	(Maintenance Shop)	
	☑ OK	☐ Problem *

* = Enter comment on next page and mark location on map with an "X" and item number

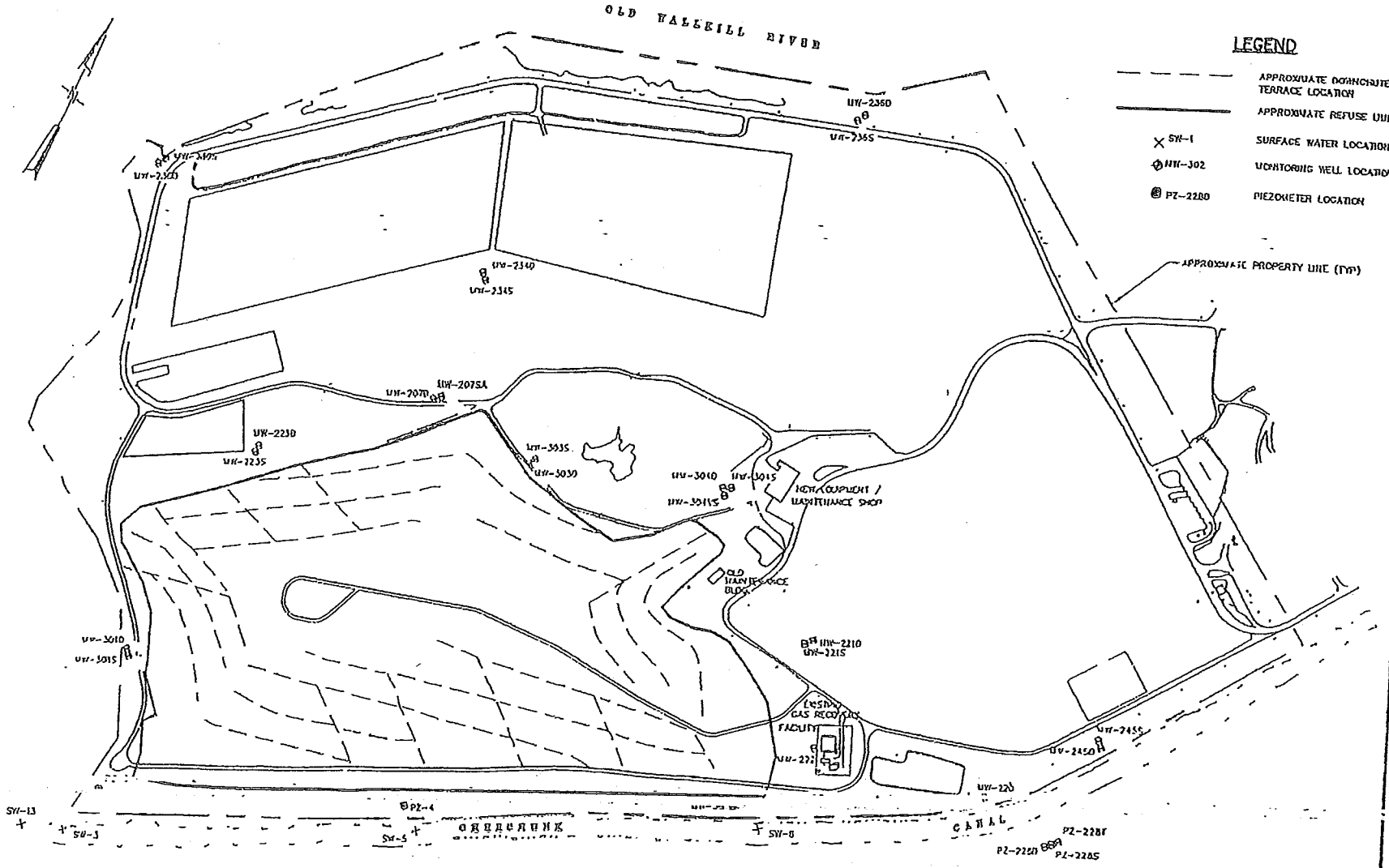
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY: Ken Shumard

DATE: 4/14/22

C:\JOBS\MRY\#2535\2535F-2A.DWG 03/12/96



Stearns&Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

ORANGE COUNTY LANDFILL
TOWN OF GOSHEN, NEW YORK

FIGURE 2A
FIELD INSPECTION SITE MAP

SCALE: 1" = 600'

DATE: 03/96 JOB No.: 2535

APPENDIX B

ORANGE COUNTY LEACHATE VOLUME COLLECTED FROM LEACHATE COLLECTION SYSTEM

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:54AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
Outgoing								
Material: 047		TAM Enterprises, Inc.						
Customer: 772		LEACH. - CONDENSATE TANKS						
22	1/29/21	2460652	3546.763 Gal	14.790 tn			$0.00	$0.00
107	10/25/21	2519930	5038.369 Gal	21.010 tn			$0.00	$0.00
60201	12/28/20	5284343	6805.755 Gal	28.380 tn			$0.00	$0.00
60201	4/5/21	5284927	4513.189 Gal	18.820 tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			19904.076 Gal	83.000 tn			$0.00	$0.00
Tickets: 4								
LEACH. - CONDENSATE TANKS Totals			19904.076 Gal	83.000 tn			$0.00	$0.00
Tickets: 4								
Material: 048		TAM Enterprises, Inc.						
Customer: 772		LEACH-MANHOLES/TANKS # 1-5						
22	9/4/20	2430993	2335.731 Gal	9.740 tn			$0.00	$0.00
56	9/8/20	2431346	6846.523 Gal	28.550 tn			$0.00	$0.00
83	9/11/20	2432318	1218.225 Gal	5.080 tn			$0.00	$0.00
107	9/14/20	2432786	6282.974 Gal	26.200 tn			$0.00	$0.00
56	9/21/20	2434401	6966.427 Gal	29.050 tn			$0.00	$0.00
22	9/25/20	2435505	1661.871 Gal	6.930 tn			$0.00	$0.00
56	9/28/20	2436101					$0.00	$0.00
22	10/7/20	2438381	2249.400 Gal	9.380 tn			$0.00	$0.00
83	10/13/20	2439582	1592.326 Gal	6.640 tn			$0.00	$0.00
22	10/19/20	2440828	1235.012 Gal	5.150 tn			$0.00	$0.00
22	10/26/20	2442455	1786.571 Gal	7.450 tn			$0.00	$0.00
11151	11/2/20	2443785	1280.576 Gal	5.340 tn			$0.00	$0.00
56	11/2/20	2443841	6973.621 Gal	29.080 tn			$0.00	$0.00
83	11/3/20	2443984	4582.734 Gal	19.110 tn			$0.00	$0.00
83	11/3/20	2444059	4635.492 Gal	19.330 tn			$0.00	$0.00
83	11/17/20	2447030	529.976 Gal	2.210 tn			$0.00	$0.00
83	11/18/20	2447224	4621.103 Gal	19.270 tn			$0.00	$0.00
106	11/23/20	2448331	6270.983 Gal	26.150 tn			$0.00	$0.00
56	11/23/20	2448418	6978.417 Gal	29.100 tn			$0.00	$0.00
56	11/30/20	2449827	6935.252 Gal	28.920 tn			$0.00	$0.00
56	12/1/20	2449929	6966.427 Gal	29.050 tn			$0.00	$0.00
56	12/1/20	2450027	6978.417 Gal	29.100 tn			$0.00	$0.00
56	12/1/20	2450127	7021.583 Gal	29.280 tn			$0.00	$0.00
56	12/4/20	2450743	6971.223 Gal	29.070 tn			$0.00	$0.00
56	12/4/20	2450885	6980.815 Gal	29.110 tn			$0.00	$0.00
22	12/7/20	2451197	1863.309 Gal	7.770 tn			$0.00	$0.00
56	12/7/20	2451199	6997.602 Gal	29.180 tn			$0.00	$0.00
56	12/7/20	2451314	6673.861 Gal	27.830 tn			$0.00	$0.00
22	12/7/20	2451316	4784.173 Gal	19.950 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:55AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
56	12/8/20	2451617	2179.856 Gal	9.090 tn			$0.00	$0.00
56	12/8/20	2451640	4508.393 Gal	18.800 tn			$0.00	$0.00
60122	12/14/20	2452613	1297.362 Gal	5.410 tn			$0.00	$0.00
107	12/14/20	2452780	2726.619 Gal	11.370 tn			$0.00	$0.00
56	12/14/20	2452801	6985.612 Gal	29.130 tn			$0.00	$0.00
107	12/14/20	2452813	3172.662 Gal	13.230 tn			$0.00	$0.00
22	12/21/20	2453776	1990.408 Gal	8.300 tn			$0.00	$0.00
107	12/21/20	2453886					$0.00	$0.00
83	12/24/20	2454489	928.058 Gal	3.870 tn			$0.00	$0.00
83	12/28/20	2454693	942.446 Gal	3.930 tn			$0.00	$0.00
56	1/4/21	2455955	6952.038 Gal	28.990 tn			$0.00	$0.00
22	1/4/21	2455969	1968.825 Gal	8.210 tn			$0.00	$0.00
56	1/5/21	2456268	6980.815 Gal	29.110 tn			$0.00	$0.00
56	1/6/21	2456371	6980.815 Gal	29.110 tn			$0.00	$0.00
56	1/6/21	2456464	7009.592 Gal	29.230 tn			$0.00	$0.00
56	1/11/21	2457261	6959.233 Gal	29.020 tn			$0.00	$0.00
56	1/11/21	2457350	7000.000 Gal	29.190 tn			$0.00	$0.00
22	1/11/21	2457360	1887.290 Gal	7.870 tn			$0.00	$0.00
60156	1/18/21	2458499	6954.436 Gal	29.000 tn			$0.00	$0.00
56	1/18/21	2458564	7055.156 Gal	29.420 tn			$0.00	$0.00
22	1/20/21	2458940	4693.046 Gal	19.570 tn			$0.00	$0.00
22	1/20/21	2458997	4870.504 Gal	20.310 tn			$0.00	$0.00
22	1/22/21	2459444	3201.439 Gal	13.350 tn			$0.00	$0.00
107	1/25/21	2459798	6398.082 Gal	26.680 tn			$0.00	$0.00
87	1/25/21	2459799	4309.353 Gal	17.970 tn			$0.00	$0.00
87	1/25/21	2459828	1719.424 Gal	7.170 tn			$0.00	$0.00
77200	2/4/21	2461115	4067.146 Gal	16.960 tn			$0.00	$0.00
56	2/8/21	2461623	5714.628 Gal	23.830 tn			$0.00	$0.00
56	2/8/21	2461701	6985.612 Gal	29.130 tn			$0.00	$0.00
83	2/10/21	2461972	3937.650 Gal	16.420 tn			$0.00	$0.00
83	2/12/21	2462228	3990.408 Gal	16.640 tn			$0.00	$0.00
22	2/12/21	2462292	2124.700 Gal	8.860 tn			$0.00	$0.00
83	2/16/21	2462598	3923.261 Gal	16.360 tn			$0.00	$0.00
107	2/22/21	2463435	6256.595 Gal	26.090 tn			$0.00	$0.00
60122	3/1/21	2464330	4738.609 Gal	19.760 tn			$0.00	$0.00
106	3/8/21	2465545	6062.350 Gal	25.280 tn			$0.00	$0.00
56	3/15/21	2466874	6988.010 Gal	29.140 tn			$0.00	$0.00
59	3/15/21	2466955	6990.408 Gal	29.150 tn			$0.00	$0.00
56	3/16/21	2467118	7004.796 Gal	29.210 tn			$0.00	$0.00
56	3/16/21	2467210	6954.436 Gal	29.000 tn			$0.00	$0.00
107	3/22/21	2468293	6438.849 Gal	26.850 tn			$0.00	$0.00
59	3/29/21	2470086	6110.312 Gal	25.480 tn			$0.00	$0.00
56	3/29/21	2470226	7009.592 Gal	29.230 tn			$0.00	$0.00
56	4/5/21	2471791	6985.612 Gal	29.130 tn			$0.00	$0.00
56	4/5/21	2471908	7023.981 Gal	29.290 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:55AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
56	4/12/21	2473571	6995.204 Gal	29.170 tn			$0.00	$0.00
56	4/12/21	2473685	7002.398 Gal	29.200 tn			$0.00	$0.00
77200	4/13/21	2473839	6491.607 Gal	27.070 tn			$0.00	$0.00
56	4/13/21	2473869	515.588 Gal	2.150 tn			$0.00	$0.00
56	4/13/21	2473932	7016.787 Gal	29.260 tn			$0.00	$0.00
56	4/19/21	2475288	6899.281 Gal	28.770 tn			$0.00	$0.00
22	4/23/21	2476397	4268.585 Gal	17.800 tn			$0.00	$0.00
56	4/26/21	2476968	6947.242 Gal	28.970 tn			$0.00	$0.00
56	4/26/21	2477079	6997.602 Gal	29.180 tn			$0.00	$0.00
56	5/3/21	2478910	6995.204 Gal	29.170 tn			$0.00	$0.00
56	5/10/21	2480238	6942.446 Gal	28.950 tn			$0.00	$0.00
56	5/14/21	2481488	1983.213 Gal	8.270 tn			$0.00	$0.00
56	5/14/21	2481507	5062.350 Gal	21.110 tn			$0.00	$0.00
107	5/17/21	2481810	6450.839 Gal	26.900 tn			$0.00	$0.00
107	5/17/21	2481930	6453.237 Gal	26.910 tn			$0.00	$0.00
22	5/24/21	2483722	4563.549 Gal	19.030 tn			$0.00	$0.00
77207	6/2/21	2485458	1985.612 Gal	8.280 tn			$0.00	$0.00
77200	6/2/21	2485460	4465.228 Gal	18.620 tn			$0.00	$0.00
56	6/7/21	2486606	110.312 Gal	0.460 tn			$0.00	$0.00
56	6/7/21	2486612	6872.902 Gal	28.660 tn			$0.00	$0.00
107	6/14/21	2488145	98.321 Gal	0.410 tn			$0.00	$0.00
107	6/14/21	2488166	6311.751 Gal	26.320 tn			$0.00	$0.00
56	6/21/21	2489872	6587.530 Gal	27.470 tn			$0.00	$0.00
56	7/7/21	2493690	6973.621 Gal	29.080 tn			$0.00	$0.00
56	7/7/21	2493712	6973.621 Gal	29.080 tn			$0.00	$0.00
56	7/7/21	2493773	6858.513 Gal	28.600 tn			$0.00	$0.00
126	7/8/21	2494225	4786.571 Gal	19.960 tn			$0.00	$0.00
56	7/13/21	2495103	6988.010 Gal	29.140 tn			$0.00	$0.00
56	7/19/21	2496741	3788.969 Gal	15.800 tn			$0.00	$0.00
56	7/27/21	2498806	4268.585 Gal	17.800 tn			$0.00	$0.00
127	8/2/21	2500065	6414.868 Gal	26.750 tn			$0.00	$0.00
126	8/9/21	2501883	4570.743 Gal	19.060 tn			$0.00	$0.00
126	8/9/21	2501985	4810.552 Gal	20.060 tn			$0.00	$0.00
59	8/16/21	2503571	1064.748 Gal	4.440 tn			$0.00	$0.00
56	8/16/21	2503646	3323.741 Gal	13.860 tn			$0.00	$0.00
56	8/23/21	2505041	2484.412 Gal	10.360 tn			$0.00	$0.00
56	8/23/21	2505056	2625.899 Gal	10.950 tn			$0.00	$0.00
56	8/23/21	2505077	793.765 Gal	3.310 tn			$0.00	$0.00
56	8/23/21	2505162	5160.671 Gal	21.520 tn			$0.00	$0.00
56	8/23/21	2505188	1822.542 Gal	7.600 tn			$0.00	$0.00
56	9/2/21	2507462	1606.715 Gal	6.700 tn			$0.00	$0.00
56	9/7/21	2508494	1316.547 Gal	5.490 tn			$0.00	$0.00
56	9/7/21	2508546	4402.878 Gal	18.360 tn			$0.00	$0.00
56	9/20/21	2511572	127.098 Gal	0.530 tn			$0.00	$0.00
56	9/20/21	2511619	6882.494 Gal	28.700 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:55AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
56	9/27/21	2513258	2757.794 Gal	11.500 tn			$0.00	$0.00
56	9/27/21	2513262	1256.595 Gal	5.240 tn			$0.00	$0.00
56	11/1/21	2521322	5544.365 Gal	23.120 tn			$0.00	$0.00
56	11/8/21	2522978	4362.110 Gal	18.190 tn			$0.00	$0.00
56	11/16/21	2524928	4712.230 Gal	19.650 tn			$0.00	$0.00
56	11/22/21	2526069	6004.796 Gal	25.040 tn			$0.00	$0.00
107	11/23/21	2526360	6081.535 Gal	25.360 tn			$0.00	$0.00
106	11/29/21	2527535	6515.588 Gal	27.170 tn			$0.00	$0.00
56	11/29/21	2527544	323.741 Gal	1.350 tn			$0.00	$0.00
56	11/29/21	2527568	352.518 Gal	1.470 tn			$0.00	$0.00
56	11/29/21	2527574	6333.333 Gal	26.410 tn			$0.00	$0.00
133	12/6/21	2529130	6064.748 Gal	25.290 tn			$0.00	$0.00
133	12/13/21	2530514	508.393 Gal	2.120 tn			$0.00	$0.00
133	12/13/21	2530533	5889.688 Gal	24.560 tn			$0.00	$0.00
56	12/21/21	2532144	5928.058 Gal	24.720 tn			$0.00	$0.00
56	12/27/21	2533110	1093.525 Gal	4.560 tn			$0.00	$0.00
56	12/27/21	2533127	184.652 Gal	0.770 tn			$0.00	$0.00
56	12/27/21	2533137	5731.415 Gal	23.900 tn			$0.00	$0.00
60101	1/4/22	2534494	1628.297 Gal	6.790 tn			$0.00	$0.00
60101	1/4/22	2534496	203.837 Gal	0.850 tn			$0.00	$0.00
133	1/10/22	2535561	450.839 Gal	1.880 tn			$0.00	$0.00
133	1/10/22	2535577	5714.628 Gal	23.830 tn			$0.00	$0.00
56	1/18/22	2536871	227.818 Gal	0.950 tn			$0.00	$0.00
56	1/18/22	2536881	366.906 Gal	1.530 tn			$0.00	$0.00
56	1/24/22	2537766	110.312 Gal	0.460 tn			$0.00	$0.00
56	2/7/22	2539550	4079.137 Gal	17.010 tn			$0.00	$0.00
56	2/22/22	2541889	2270.983 Gal	9.470 tn			$0.00	$0.00
56	3/7/22	2544168	3047.962 Gal	12.710 tn			$0.00	$0.00
56	3/8/22	2544416	6997.602 Gal	29.180 tn			$0.00	$0.00
56	3/22/22	2546869	3520.384 Gal	14.680 tn			$0.00	$0.00
1717	3/22/22	2546923	6812.950 Gal	28.410 tn			$0.00	$0.00
56	4/4/22	2549462	2292.566 Gal	9.560 tn			$0.00	$0.00
60201	5/17/21	5285258	4443.645 Gal	18.530 tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			667074.344 Gal	2781.700 tn			$0.00	$0.00
Tickets: 152								
LEACH-MANHOLES/TANKS # 1-5 Totals			667074.344 Gal	2,781.700 tn			$0.00	$0.00
Tickets: 152								
Material:	**049**	TAM Enterprises, Inc.						
Customer:	**772**	LEACH-MANHOLE/TANK #7						
104	10/1/20	2436858	1652.278 Gal	6.890 tn			$0.00	$0.00
22	11/30/20	2449724	2187.050 Gal	9.120 tn			$0.00	$0.00
56	6/21/21	2489869	395.683 Gal	1.650 tn			$0.00	$0.00
56	7/6/21	2493564	1973.621 Gal	8.230 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:55AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
56	7/6/21	2493592	5004.796 Gal	20.870 tn			$0.00	$0.00
126	7/16/21	2496184	2820.144 Gal	11.760 tn			$0.00	$0.00
56	7/19/21	2496702	1980.815 Gal	8.260 tn			$0.00	$0.00
56	7/19/21	2496723	1232.614 Gal	5.140 tn			$0.00	$0.00
56	7/27/21	2498783	1978.417 Gal	8.250 tn			$0.00	$0.00
56	7/27/21	2498794	755.396 Gal	3.150 tn			$0.00	$0.00
56	8/16/21	2503588	2575.540 Gal	10.740 tn			$0.00	$0.00
56	8/23/21	2505047	1069.544 Gal	4.460 tn			$0.00	$0.00
56	8/31/21	2506896	2470.024 Gal	10.300 tn			$0.00	$0.00
56	8/31/21	2506911	4525.180 Gal	18.870 tn			$0.00	$0.00
56	9/2/21	2507449	2952.038 Gal	12.310 tn			$0.00	$0.00
56	9/2/21	2507456	2081.535 Gal	8.680 tn			$0.00	$0.00
56	9/7/21	2508528	1280.576 Gal	5.340 tn			$0.00	$0.00
56	9/10/21	2509278	143.885 Gal	0.600 tn			$0.00	$0.00
126	9/18/21	2511427	2167.866 Gal	9.040 tn			$0.00	$0.00
56	9/27/21	2513263	1733.813 Gal	7.230 tn			$0.00	$0.00
56	9/29/21	2513835	592.326 Gal	2.470 tn			$0.00	$0.00
56	10/4/21	2515076	1527.578 Gal	6.370 tn			$0.00	$0.00
56	10/18/21	2518053	2599.520 Gal	10.840 tn			$0.00	$0.00
104	10/28/21	2520797	3247.002 Gal	13.540 tn			$0.00	$0.00
56	11/1/21	2521314	244.604 Gal	1.020 tn			$0.00	$0.00
56	11/8/21	2522955	333.333 Gal	1.390 tn			$0.00	$0.00
56	11/8/21	2522963	2218.225 Gal	9.250 tn			$0.00	$0.00
56	11/16/21	2524888	805.755 Gal	3.360 tn			$0.00	$0.00
56	11/22/21	2526061	429.257 Gal	1.790 tn			$0.00	$0.00
133	12/6/21	2529122	275.779 Gal	1.150 tn			$0.00	$0.00
56	12/21/21	2532120	395.683 Gal	1.650 tn			$0.00	$0.00
56	1/24/22	2537772	434.053 Gal	1.810 tn			$0.00	$0.00
56	1/31/22	2538735	14.388 Gal	0.060 tn			$0.00	$0.00
56	2/7/22	2539546	956.835 Gal	3.990 tn			$0.00	$0.00
56	2/22/22	2541838	2741.007 Gal	11.430 tn			$0.00	$0.00
56	3/7/22	2544161	1872.902 Gal	7.810 tn			$0.00	$0.00
56	3/22/22	2546839	1071.942 Gal	4.470 tn			$0.00	$0.00
TAM	4/4/22	2549418	1894.484 Gal	7.900 tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			62635.488 Gal	261.190 tn			$0.00	$0.00
Tickets: 38								
LEACH-MANHOLE/TANK #7 Totals			62635.488 Gal	261.190 tn			$0.00	$0.00
Tickets: 38								
Material: 050		TAM Enterprises, Inc.						
Customer: 772		SHOP FLOOR DRAIN						
77256	2/8/21	2461619	1316.547 Gal	5.490 tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			1316.547 Gal	5.490 tn			$0.00	$0.00
Tickets: 1								

Material Usage ALL SITES

From Date: 9/1/2020 to 4/6/2022
From Material: 047 to 052
From Customer: 0 to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 4/19/2022
Print Time: 11:55AM

Truck ID	Ticket Date	Ticket Number	Unit	Net		Material	Tax	Other	Total
SHOP FLOOR DRAIN Totals			1316.547 Gal	5.490	tn			$0.00	$0.00
Tickets: 1									
Material: 051		TAM Enterprises, Inc.							
Customer: 772		OCLF SEEP REMED. - TANK #6							
56	10/18/21	2518054	2419.664 Gal	10.090	tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			2419.664 Gal	10.090	tn			$0.00	$0.00
Tickets: 1									
OCLF SEEP REMED. - TANK #6 Totals			2419.664 Gal	10.090	tn			$0.00	$0.00
Tickets: 1									
Material: 052		TAM Enterprises, Inc.							
Customer: 772		LEACH-MANHOLE/TANK #8							
56	9/27/21	2513218	1261.391 Gal	5.260	tn			$0.00	$0.00
56	9/29/21	2513827	407.674 Gal	1.700	tn			$0.00	$0.00
56	10/4/21	2515058	748.201 Gal	3.120	tn			$0.00	$0.00
56	10/18/21	2518029	1985.612 Gal	8.280	tn			$0.00	$0.00
107	10/25/21	2519877	988.010 Gal	4.120	tn			$0.00	$0.00
56	11/1/21	2521309	1230.216 Gal	5.130	tn			$0.00	$0.00
56	11/16/21	2524877	1503.597 Gal	6.270	tn			$0.00	$0.00
56	11/22/21	2526057	553.957 Gal	2.310	tn			$0.00	$0.00
56	12/21/21	2532115	666.667 Gal	2.780	tn			$0.00	$0.00
56	1/31/22	2538743	285.372 Gal	1.190	tn			$0.00	$0.00
56	2/7/22	2539537	1966.427 Gal	8.200	tn			$0.00	$0.00
56	2/22/22	2541831	1995.204 Gal	8.320	tn			$0.00	$0.00
56	3/7/22	2544153	2103.118 Gal	8.770	tn			$0.00	$0.00
01	3/22/22	2546834	2270.983 Gal	9.470	tn			$0.00	$0.00
TAM	4/4/22	2549407	2752.998 Gal	11.480	tn			$0.00	$0.00
TAM Enterprises, Inc. Totals			20719.427 Gal	86.400	tn			$0.00	$0.00
Tickets: 15									
LEACH-MANHOLE/TANK #8 Totals			20719.427 Gal	86.400	tn			$0.00	$0.00
Tickets: 15									
Outgoing Totals				3227.870	tn			$0.00	$0.00
Tickets: 211									
In and Outbound Combined Totals				**3,227.87**		**$0.00**	**$0.00**	**$0.00**	**$0.00**
				0.00					

Please Refer to Notes on next page to determine requested tonnage values.

Accompanying Notes to "Material Usage ALL SITES" Report

Date Range: 09/01/2020 – 04/06/2022 (Print Date: 04/19/2022)

O.C. Sites This Report Covers: Orange County Transfer Station #1 (OCTS#1) & Orange County Landfill (OCLF).

Material Code Key:

- Code 047 Refers to the OCLF Condensate Tanks (Leachate)
- Code 048 Refers to the OCLF Leachate Collection Tanks #1-5
- Code 049 Refers to the OCTS#1 Leachate Collection Tank (Tank #7)
- Code 050 Refers to the OCTS#1 Maintenance Shop Floor Drain Collection Tank
- Code 051 Refers to the OCLF Seep Remediation Collection Tank (Tank #6)
- Code 052 Refers to the OCTS#1 Trailer Parking Pad Leachate Collection Tank (Tank #8)

Notes:

- Values requested from Sterling Environmental Engineering, P.C., for the Periodic Review Report (PRR) include the following Codes; 047, 048, 051. Please find the notes below that need to be applied to this report to determine the totals for these three Material Codes. *Note: Codes 051 & 052 were recently established, and other site leachate codes were utilized for these tanks in the meantime, with notes on the tickets stating which tank they came from.*
- The following tickets had remarks stating they came from Tank #6, which is now Code 051:
    - Ticket #'s under Code 047: 2460652 & 2519930.
    - Ticket #'s under Code 048: 24560743, 2452780, 2461701, 2483722, 2526360, 2527535, 2535577.
    - Ticket # under Code 049: 2506911.
    - Ticket # under Code 051: 2518054
- The following tickets had remarks stating they came from Tank # 7 (049) or Tank #8 (052) but are shown under Code 048.
    - Ticket #'s: 2481488, 2486606, 2488145, 2503571, 2505041, 2508494, 2527544, 2530514, 2533110, 2533127, 2534494, 2534496, 2535561, 2536871, 2536881, 2537766.
- Ticket # 2493592 under 049, should be under 048 (Tank #5 Remark).
- Ticket #'s: 5284343 & 5284927 under Code 047, and 5285258 under code 048, are from OCTS#2 location. Incorrect Material Code Utilized and should not be under this generated report.

Total Gallons after applying notes above:

- Code 047: 0 Gallons
- Code 048: 615, 920.868 Gallons
- Code 051: 55, 088.73 Gallons

APPENDIX C

NYSDEC INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 336007

Site Name Orange County Landfill

Site Address: Route 17M Zip Code: 10924
City/Town: Goshen
County: Orange
Site Acreage: 75.000

Reporting Period: ~~April 06, 2019~~ to April 06, 2022
September 30, 2020

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 336007 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
16-1-1.1	O. C. Dept. Envrion. Facilities Services	Ground Water Use Restriction Landuse Restriction Building Use Restriction Site Management Plan Monitoring Plan O&M Plan IC/EC Plan

This is a municipal landfill that has been capped under Title 3, with leachate collection. Landfill gas collection and control is no longer required per Division of Air Resources. Periodic groundwater monitoring and inspections and reporting in accordance with June 6, 2014 SMP are required.

The Department concluded seeps along the Cheechunk Canal are leachate and Orange County was notified in a letter dated 11/25/13. Orangs County and their consultant, Sterling Envionmental, have been investigating this matter. Also, the Department has drafted an Order on Consent that will require the following items to be submitted between the beginning of Decemeber 2014 and the end of January 2015: Long Term Seep Evaluation Report, Expedited IRM Work Plan, Long Term Seep Elimination Feasibility Study, and Supplemental Sediment Investigation Work Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
16-1-1.1	Cover System Leachate Collection

Landfill Cap
Leachate collection
Gas collection - no longer active
Monitoring wells

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. 336007

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert J. Gray, P.E. (print name) at 2455-2459 Route 17M, PO Box 637, Goshen, NY 10924 (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date: 5/3/22

EC CERTIFICATIONS

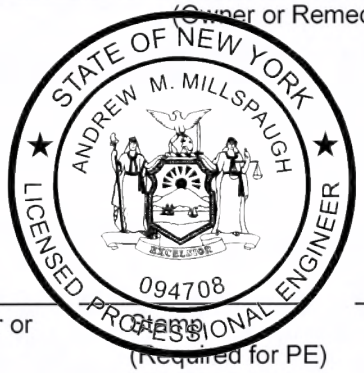
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Andrew M. Millspaugh, P.E. at 24 Wade Rd, Latham, NY 12110,
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

05/05/2022
Date

APPENDIX D

ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L2158945
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	ORANGE COUNTY LF
Project Number:	2010-15 (TASK 500)
Report Date:	11/10/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2158945-01	MH-7	WATER	GOSHEN, NY	10/27/21 09:45	10/27/21
L2158945-02	MW-233S	WATER	GOSHEN, NY	10/27/21 12:15	10/27/21
L2158945-03	MW-233D	WATER	GOSHEN, NY	10/27/21 12:40	10/27/21
L2158945-04	MW-245D	WATER	GOSHEN, NY	10/27/21 13:50	10/27/21
L2158945-05	MW-245S	WATER	GOSHEN, NY	10/27/21 14:50	10/27/21
L2158945-06	MW-220	WATER	GOSHEN, NY	10/27/21 16:20	10/27/21
L2158945-07	MH-15	WATER	GOSHEN, NY	10/27/21 16:45	10/27/21
L2158945-08	DUP10272021	WATER	GOSHEN, NY	10/27/21 00:00	10/27/21
L2158945-09	TB10272021	WATER	GOSHEN, NY	10/27/21 00:00	10/27/21

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG1567467-3 MS recovery, performed on L2158945-05, is outside the acceptance criteria for antimony (70%). A post digestion spike was performed and was within acceptance criteria.

The WG1567467-3 MS recovery, performed on L2158945-05, is outside the acceptance criteria for manganese (74%). A post digestion spike was performed and yielded an unacceptable recovery of 79%. The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1567467-3/-4 MS/MSD recoveries for sodium (49%/57%), performed on L2158945-05, do not apply because the sample concentration is greater than four times the spike amount added.

The WG1567468-3 MS recovery for calcium (60%), performed on L2158945-05, does not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Metals

L2158945-02 through -06 and -08: Dissolved results are greater than Total results. The sample containers were verified as being labeled correctly by the laboratory.

The WG1567736-4 MSD recovery for sodium (68%), performed on L2158945-05, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1567736-3 MS recovery, performed on L2158945-05, is outside the acceptance criteria for thallium (127%). A post digestion spike was performed and was within acceptance criteria.

Color, Apparent

L2158945-04: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

Case Narrative (continued)

Anions by Ion Chromatography

L2158945-05: The sample has an elevated detection limit for bromide due to the dilution required by the sample matrix.

The WG1568733-3/-4 MS/MSD recoveries, performed on L2158945-05, are outside the acceptance criteria for bromide (111%/113%); however, the associated LCS recovery is within criteria. No further action was taken.

Chemical Oxygen Demand

The WG1565775-3 MS recovery, performed on L2158945-05, is outside the acceptance criteria for chemical oxygen demand (111%); however, the associated LCS recovery is within criteria. No further action was taken.

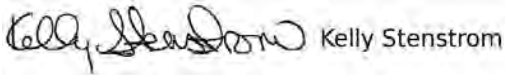
Cyanide, Total

WG1568288: A Matrix Spike and Matrix Spike Duplicate were prepared with the sample batch, however, the native sample required re-analysis; therefore, the results could not be reported.

Nitrogen, Total Kjeldahl

The WG1568704-3 Laboratory Duplicate RPD for nitrogen, total kjeldahl (85%), performed on L2158945-05, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 11/10/21

ORGANICS

VOLATILES

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-01
Client ID: MH-7
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 09:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 14:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	1.4	J	ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.2		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-01
Client ID: MH-7
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 09:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	15		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-02
Client ID: MW-233S
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 12:15
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 14:21
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-02
Client ID: MW-233S
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 12:15
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-03
Client ID: MW-233D
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 12:40
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 14:42
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-03
Client ID: MW-233D
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 12:40
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-04
Client ID: MW-245D
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 13:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 15:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-04
Client ID: MW-245D
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 13:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-05
Client ID: MW-245S
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 14:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 15:23
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-05
Client ID: MW-245S
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 14:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	114		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-06
Client ID: MW-220
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 16:20
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 19:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-06
Client ID: MW-220
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 16:20
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-07
Client ID: MH-15
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 16:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 20:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	0.98	J	ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.57		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	1.4	J	ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-07
Client ID: MH-15
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 16:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	1.2	J	ug/l	2.5	0.70	1
p/m-Xylene	0.80	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-08
Client ID: DUP10272021
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 20:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-08
Client ID: DUP10272021
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-09
Client ID: TB10272021
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/06/21 19:14
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-09
Client ID: TB10272021
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/21 08:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1568207-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/21 08:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1568207-5					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Iodomethane	ND		ug/l	5.0	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/21 18:13
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1568331-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/06/21 18:13
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1568331-5					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Iodomethane	ND		ug/l	5.0	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1568207-3 WG1568207-4								
Methylene chloride	87		96		70-130	10		20
1,1-Dichloroethane	90		100		70-130	11		20
Chloroform	92		110		70-130	18		20
Carbon tetrachloride	88		100		63-132	13		20
1,2-Dichloropropane	87		96		70-130	10		20
Dibromochloromethane	92		96		63-130	4		20
1,1,2-Trichloroethane	81		96		70-130	17		20
Tetrachloroethene	94		100		70-130	6		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	96		110		62-150	14		20
1,2-Dichloroethane	96		110		70-130	14		20
1,1,1-Trichloroethane	99		110		67-130	11		20
Bromodichloromethane	93		100		67-130	7		20
trans-1,3-Dichloropropene	91		95		70-130	4		20
cis-1,3-Dichloropropene	88		96		70-130	9		20
Bromoform	83		91		54-136	9		20
1,1,2,2-Tetrachloroethane	84		91		67-130	8		20
Benzene	87		96		70-130	10		20
Toluene	94		100		70-130	6		20
Ethylbenzene	96		100		70-130	4		20
Chloromethane	95		110		64-130	15		20
Bromomethane	98		100		39-139	2		20
Vinyl chloride	92		98		55-140	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1568207-3 WG1568207-4								
Chloroethane	97		100		55-138	3		20
1,1-Dichloroethene	82		100		61-145	20		20
trans-1,2-Dichloroethene	90		99		70-130	10		20
Trichloroethene	92		100		70-130	8		20
1,2-Dichlorobenzene	93		99		70-130	6		20
1,4-Dichlorobenzene	92		98		70-130	6		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	91		100		70-130	9		20
1,2,3-Trichloropropane	83		92		64-130	10		20
Acrylonitrile	80		99		70-130	**21**	Q	20
Styrene	100		105		70-130	5		20
Acetone	64		89		58-148	**33**	Q	20
Carbon disulfide	95		100		51-130	5		20
2-Butanone	73		83		63-138	13		20
Vinyl acetate	93		100		70-130	7		20
4-Methyl-2-pentanone	69		78		59-130	12		20
2-Hexanone	72		82		57-130	13		20
Bromochloromethane	96		93		70-130	3		20
1,2-Dibromoethane	86		91		70-130	6		20
1,1,1,2-Tetrachloroethane	97		92		64-130	5		20
1,2-Dibromo-3-chloropropane	78		92		41-144	16		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1568207-3 WG1568207-4								
trans-1,4-Dichloro-2-butene	82		94		70-130	14		20
Iodomethane	78		94		70-130	19		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		108		70-130
Toluene-d8	103		99		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1568331-3 WG1568331-4								
Methylene chloride	93		100		70-130	7		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	94		99		70-130	5		20
Dibromochloromethane	98		99		63-130	1		20
1,1,2-Trichloroethane	89		93		70-130	4		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		110		62-150	9		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		120		67-130	9		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
Bromoform	92		94		54-136	2		20
1,1,2,2-Tetrachloroethane	91		96		67-130	5		20
Benzene	97		100		70-130	3		20
Toluene	96		99		70-130	3		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		110		64-130	10		20
Bromomethane	90		93		39-139	3		20
Vinyl chloride	96		100		55-140	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1568331-3 WG1568331-4								
Chloroethane	98		100		55-138	2		20
1,1-Dichloroethene	93		110		61-145	17		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	110		100		70-130	10		20
1,2,3-Trichloropropane	96		97		64-130	1		20
Acrylonitrile	92		100		70-130	8		20
Styrene	105		105		70-130	0		20
Acetone	83		89		58-148	7		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	89		99		63-138	11		20
Vinyl acetate	98		110		70-130	12		20
4-Methyl-2-pentanone	81		84		59-130	4		20
2-Hexanone	75		78		57-130	4		20
Bromochloromethane	110		120		70-130	9		20
1,2-Dibromoethane	94		94		70-130	0		20
1,1,1,2-Tetrachloroethane	99		99		64-130	0		20
1,2-Dibromo-3-chloropropane	87		100		41-144	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1568331-3 WG1568331-4								
trans-1,4-Dichloro-2-butene	89		91		70-130	2		20
Iodomethane	95		100		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		113		70-130
Toluene-d8	99		96		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	108		105		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568207-6 WG1568207-7 QC Sample: L2158945-05 Client ID: MW-245S												
Methylene chloride	ND	10	10	100		11	110		70-130	10		20
1,1-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
Chloroform	ND	10	11	110		12	120		70-130	9		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
Dibromochloromethane	ND	10	10	100		11	110		63-130	10		20
1,1,2-Trichloroethane	ND	10	9.9	99		9.8	98		70-130	1		20
Tetrachloroethene	ND	10	11	110		12	120		70-130	9		20
Chlorobenzene	ND	10	10	100		11	110		75-130	10		20
Trichlorofluoromethane	ND	10	12	120		13	130		62-150	8		20
1,2-Dichloroethane	ND	10	12	120		12	120		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		13	130		67-130	8		20
Bromodichloromethane	ND	10	11	110		12	120		67-130	9		20
trans-1,3-Dichloropropene	ND	10	9.9	99		10	100		70-130	1		20
cis-1,3-Dichloropropene	ND	10	9.6	96		10	100		70-130	4		20
Bromoform	ND	10	9.5	95		9.8	98		54-136	3		20
1,1,2,2-Tetrachloroethane	ND	10	9.6	96		11	110		67-130	14		20
Benzene	ND	10	10	100		10	100		70-130	0		20
Toluene	ND	10	10	100		11	110		70-130	10		20
Ethylbenzene	ND	10	11	110		12	120		70-130	9		20
Chloromethane	ND	10	11	110		11	110		64-130	0		20
Bromomethane	ND	10	7.5	75		9.1	91		39-139	19		20
Vinyl chloride	ND	10	11	110		12	120		55-140	9		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568207-6 WG1568207-7 QC Sample: L2158945-05 Client ID: MW-245S												
Chloroethane	ND	10	12	120		12	120		55-138	0		20
1,1-Dichloroethene	ND	10	9.7	97		12	120		61-145	**21**	Q	20
trans-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Trichloroethene	ND	10	10	100		12	120		70-130	18		20
1,2-Dichlorobenzene	ND	10	9.8	98		11	110		70-130	12		20
1,4-Dichlorobenzene	ND	10	10	100		11	110		70-130	10		20
p/m-Xylene	ND	20	22	110		23	115		70-130	4		20
o-Xylene	ND	20	21	105		22	110		70-130	5		20
cis-1,2-Dichloroethene	ND	10	10	100		11	110		70-130	10		20
Dibromomethane	ND	10	11	110		11	110		70-130	0		20
1,2,3-Trichloropropane	ND	10	9.6	96		10	100		64-130	4		20
Acrylonitrile	ND	10	10	100		10	100		70-130	0		20
Styrene	ND	20	21	105		23	115		70-130	9		20
Acetone	ND	10	8.4	84		9.9	99		58-148	16		20
Carbon disulfide	ND	10	11	110		12	120		51-130	9		20
2-Butanone	ND	10	8.6	86		8.9	89		63-138	3		20
Vinyl acetate	ND	10	10	100		11	110		70-130	10		20
4-Methyl-2-pentanone	ND	10	8.8	88		9.8	98		59-130	11		20
2-Hexanone	ND	10	8.6	86		8.6	86		57-130	0		20
Bromochloromethane	ND	10	12	120		12	120		70-130	0		20
1,2-Dibromoethane	ND	10	10	100		10	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	11	110		11	110		64-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	9.5	95		9.6	96		41-144	1		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568207-6 WG1568207-7 QC Sample: L2158945-05 Client ID: MW-245S												
trans-1,4-Dichloro-2-butene	ND	10	9.0	90		9.6	96		70-130	6		20
Iodomethane	ND	10	9.2	92		10	100		70-130	8		20

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1,2-Dichloroethane-d4	111		108		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	107		102		70-130
Toluene-d8	94		96		70-130

METALS

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-01
Client ID: MH-7
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 09:45
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0751		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Antimony, Total	0.00725		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00685		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Barium, Total	0.1329		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Boron, Total	4.01		mg/l	0.300	0.016	10	11/09/21 08:02	11/09/21 17:53	EPA 3005A	1,6010D	BV
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Calcium, Total	414		mg/l	1.00	0.350	10	11/09/21 08:02	11/09/21 17:53	EPA 3005A	1,6010D	BV
Chromium, Total	0.00434		mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Cobalt, Total	0.02322		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Copper, Total	0.01968		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Iron, Total	1.46		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Lead, Total	0.00101		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Magnesium, Total	111		mg/l	1.00	0.153	10	11/09/21 08:02	11/09/21 17:53	EPA 3005A	1,6010D	BV
Manganese, Total	1.175		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Mercury, Total	0.00010	J	mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:37	EPA 7470A	1,7470A	AC
Nickel, Total	0.1156		mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Potassium, Total	309.		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Sodium, Total	1350		mg/l	0.500	0.146	5	11/09/21 08:02	11/10/21 11:24	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Zinc, Total	0.01961		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 00:57	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	1490		mg/l	6.60	NA	10	11/09/21 08:02	11/09/21 17:53	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-02
Client ID: MW-233S
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 12:15
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0103		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00081		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Barium, Total	0.06227		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Boron, Total	0.025	J	mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 15:59	EPA 3005A	1,6010D	JC
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Calcium, Total	127		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 15:59	EPA 3005A	1,6010D	JC
Chromium, Total	0.00022	J	mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00034	J	mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Copper, Total	0.00224		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Iron, Total	0.0564		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Magnesium, Total	33.3		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 15:59	EPA 3005A	1,6010D	JC
Manganese, Total	0.7505		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:41	EPA 7470A	1,7470A	AC
Nickel, Total	0.00263		mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Potassium, Total	2.52		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Sodium, Total	1.70		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Zinc, Total	0.01264		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:03	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	453		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 15:59	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-02
Client ID: MW-233S
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 12:15
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00049	J	mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.05359		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.020	J	mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 19:40	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Calcium, Dissolved	135		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 19:40	EPA 3005A	1,6010D	BV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Copper, Dissolved	0.00113		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	35.1		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 19:40	EPA 3005A	1,6010D	BV
Manganese, Dissolved	0.08003		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 06:28	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00095	J	mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Potassium, Dissolved	2.30		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Sodium, Dissolved	1.53		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 21:22	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	481		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 19:40	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-03
Client ID: MW-233D
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 12:40
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0156		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Antimony, Total	0.00061	J	mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00083		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Barium, Total	0.03596		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Boron, Total	0.091		mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:40	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Calcium, Total	49.0		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:40	EPA 3005A	1,6010D	JC
Chromium, Total	0.00043	J	mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Copper, Total	0.00080	J	mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Iron, Total	0.0965		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Lead, Total	0.00163		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Magnesium, Total	17.6		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:40	EPA 3005A	1,6010D	JC
Manganese, Total	0.02267		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:44	EPA 7470A	1,7470A	AC
Nickel, Total	0.00101	J	mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Potassium, Total	1.66		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Sodium, Total	108.		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Thallium, Total	0.00036	J	mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Zinc, Total	0.01605		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:19	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	195		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:40	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-03
Client ID: MW-233D
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 12:40
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00057		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.03666		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.093		mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 19:44	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Calcium, Dissolved	51.8		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 19:44	EPA 3005A	1,6010D	BV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	18.5		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 19:44	EPA 3005A	1,6010D	BV
Manganese, Dissolved	0.00100		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 06:31	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00070	J	mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Potassium, Dissolved	1.66		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Sodium, Dissolved	104.		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 21:27	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	206		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 19:44	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-04
Client ID: MW-245D
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 13:50
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0226		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00188		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Barium, Total	0.09648		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Boron, Total	0.039		mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:44	EPA 3005A	1,6010D	JC
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Calcium, Total	61.5		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:44	EPA 3005A	1,6010D	JC
Chromium, Total	0.00113		mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Copper, Total	0.00124		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Iron, Total	0.590		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Lead, Total	0.00078	J	mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Magnesium, Total	20.2		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:44	EPA 3005A	1,6010D	JC
Manganese, Total	0.1769		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:47	EPA 7470A	1,7470A	AC
Nickel, Total	0.00086	J	mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Potassium, Total	3.78		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Sodium, Total	48.3		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Zinc, Total	0.02412		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:25	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	237		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:44	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-04
Client ID: MW-245D
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 13:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00867	J	mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00187		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.09648		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.048		mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 20:25	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Calcium, Dissolved	92.8		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 20:25	EPA 3005A	1,6010D	BV
Chromium, Dissolved	0.00018	J	mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	29.9		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 20:25	EPA 3005A	1,6010D	BV
Manganese, Dissolved	0.1839		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 06:34	EPA 7470A	1,7470A	AC
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Potassium, Dissolved	3.96		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Sodium, Dissolved	48.9		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 21:32	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	355		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 20:25	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-05
Client ID: MW-245S
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 14:50
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.564		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Antimony, Total	0.00057	J	mg/l	0.00400	0.00042	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Arsenic, Total	0.01665		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Barium, Total	0.07818		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Boron, Total	0.023	J	mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:03	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Calcium, Total	116		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:03	EPA 3005A	1,6010D	JC
Chromium, Total	0.00091	J	mg/l	0.00100	0.00017	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00076		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Copper, Total	0.00133		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Iron, Total	1.91		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Lead, Total	0.00114		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Magnesium, Total	24.5		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:03	EPA 3005A	1,6010D	JC
Manganese, Total	1.396		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:21	EPA 7470A	1,7470A	AC
Nickel, Total	0.00153	J	mg/l	0.00200	0.00055	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Potassium, Total	2.12		mg/l	0.100	0.0309	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Sodium, Total	44.2		mg/l	0.100	0.0293	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Thallium, Total	0.00029	J	mg/l	0.00100	0.00014	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Zinc, Total	0.01335		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/09/21 23:57	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	390		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:03	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-05
Client ID: MW-245S
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 14:50
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.01116		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.07564		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.020	J	mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 19:48	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Calcium, Dissolved	127		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 19:48	EPA 3005A	1,6010D	BV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00026	J	mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	26.5		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 19:48	EPA 3005A	1,6010D	BV
Manganese, Dissolved	1.388		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 05:39	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00090	J	mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Potassium, Dissolved	2.03		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Sodium, Dissolved	44.4		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Thallium, Dissolved	0.00061	J	mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Zinc, Dissolved	0.00866	J	mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 20:36	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	425		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 19:48	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-06
Client ID: MW-220
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 16:20
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0118		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00878		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Barium, Total	0.06186		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Boron, Total	0.030	J	mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:48	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Calcium, Total	152		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:48	EPA 3005A	1,6010D	JC
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00050		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Iron, Total	0.950		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Magnesium, Total	40.0		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:48	EPA 3005A	1,6010D	JC
Manganese, Total	0.6152		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:51	EPA 7470A	1,7470A	AC
Nickel, Total	0.00127	J	mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Potassium, Total	3.01		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Sodium, Total	12.1		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Zinc, Total	0.01197		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:30	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	544		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:48	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-06
Client ID: MW-220
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 16:20
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00294		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.06502		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.034		mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 21:07	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Calcium, Dissolved	172		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 21:07	EPA 3005A	1,6010D	BV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00048	J	mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	45.1		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 21:07	EPA 3005A	1,6010D	BV
Manganese, Dissolved	0.6198		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 06:38	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00107	J	mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Potassium, Dissolved	2.99		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Sodium, Dissolved	11.7		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 21:37	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	614		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 21:07	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-07
Client ID: MH-15
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 16:45
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0453		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00324		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Barium, Total	0.05413		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Boron, Total	0.122		mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:52	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Calcium, Total	66.0		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:52	EPA 3005A	1,6010D	JC
Chromium, Total	0.00069	J	mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00075		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Copper, Total	0.00086	J	mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Iron, Total	6.78		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Magnesium, Total	11.1		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:52	EPA 3005A	1,6010D	JC
Manganese, Total	0.6246		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:54	EPA 7470A	1,7470A	AC
Nickel, Total	0.00351		mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Potassium, Total	9.72		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Sodium, Total	29.7		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Zinc, Total	0.01230		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:36	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	210		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:52	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-08
Client ID: DUP10272021
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00960	J	mg/l	0.0100	0.00327	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Arsenic, Total	0.00813		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Barium, Total	0.06078		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Boron, Total	0.031		mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 16:56	EPA 3005A	1,6010D	JC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Calcium, Total	160		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 16:56	EPA 3005A	1,6010D	JC
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Cobalt, Total	0.00047	J	mg/l	0.00050	0.00016	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Iron, Total	0.910		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Magnesium, Total	42.2		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 16:56	EPA 3005A	1,6010D	JC
Manganese, Total	0.6042		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:57	EPA 7470A	1,7470A	AC
Nickel, Total	0.00113	J	mg/l	0.00200	0.00055	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Potassium, Total	2.94		mg/l	0.100	0.0309	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Sodium, Total	11.8		mg/l	0.100	0.0293	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Zinc, Total	0.01237		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/10/21 01:41	EPA 3005A	1,6020B	PS
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	572		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 16:56	EPA 3005A	1,6010D	JC

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-08
Client ID: DUP10272021
Sample Location: GOSHEN, NY
Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Arsenic, Dissolved	0.00311		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Barium, Dissolved	0.06267		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Boron, Dissolved	0.031		mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 21:11	EPA 3005A	1,6010D	BV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Calcium, Dissolved	169		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 21:11	EPA 3005A	1,6010D	BV
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Cobalt, Dissolved	0.00051		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Magnesium, Dissolved	44.4		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 21:11	EPA 3005A	1,6010D	BV
Manganese, Dissolved	0.6382		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 06:41	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00116	J	mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Potassium, Dissolved	3.04		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Sodium, Dissolved	11.8		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 21:42	EPA 3005A	1,6020B	WP
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	606		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 21:11	EPA 3005A	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1564963-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/09/21 10:40	11/09/21 13:14	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1567467-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Barium, Total	ND		mg/l	0.00050	0.00017	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Iron, Total	ND		mg/l	0.0500	0.0191	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Sodium, Total	ND		mg/l	0.100	0.0293	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/09/21 08:02	11/09/21 23:13	1,6020B	PS

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1567468-1										
Boron, Total	ND		mg/l	0.030	0.002	1	11/09/21 08:02	11/09/21 15:42	1,6010D	JC
Calcium, Total	ND		mg/l	0.100	0.035	1	11/09/21 08:02	11/09/21 15:42	1,6010D	JC
Magnesium, Total	ND		mg/l	0.100	0.015	1	11/09/21 08:02	11/09/21 15:42	1,6010D	JC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01-08 Batch: WG1567468-1										
Hardness	ND		mg/l	0.660	NA	1	11/09/21 08:02	11/09/21 15:42	1,6010D	JC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02-06,08 Batch: WG1567736-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP

Project Name: ORANGE COUNTY LF **Lab Number:** L2158945

Project Number: 2010-15 (TASK 500) **Report Date:** 11/10/21

Method Blank Analysis
Batch Quality Control

Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Thallium, Dissolved	0.00078	J	mg/l	0.00100	0.00014	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP
Zinc, Dissolved	0.00857	J	mg/l	0.01000	0.00341	1	11/08/21 13:03	11/09/21 19:57	1,6020B	WP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02-06,08 Batch: WG1567738-1										
Boron, Dissolved	ND		mg/l	0.030	0.002	1	11/08/21 13:03	11/09/21 19:28	1,6010D	BV
Calcium, Dissolved	ND		mg/l	0.100	0.035	1	11/08/21 13:03	11/09/21 19:28	1,6010D	BV
Magnesium, Dissolved	ND		mg/l	0.100	0.015	1	11/08/21 13:03	11/09/21 19:28	1,6010D	BV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Hardness by SM 2340B - Mansfield Lab for sample(s): 02-06,08 Batch: WG1567738-1										
Hardness	ND		mg/l	0.660	NA	1	11/08/21 13:03	11/09/21 19:28	1,6010D	BV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02-06,08 Batch: WG1567739-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/08/21 13:08	11/09/21 05:33	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1564963-2								
Mercury, Total	100		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1567467-2					
Aluminum, Total	103	-	80-120	-	
Antimony, Total	88	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	103	-	80-120	-	
Beryllium, Total	108	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	103	-	80-120	-	
Lead, Total	101	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	101	-	80-120	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	115	-	80-120	-	
Vanadium, Total	100	-	80-120	-	
Zinc, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1567468-2					
Boron, Total	109	-	80-120	-	
Calcium, Total	102	-	80-120	-	
Magnesium, Total	104	-	80-120	-	
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-08 Batch: WG1567468-2					
Hardness	103	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 Batch: WG1567736-2					
Aluminum, Dissolved	102	-	80-120	-	
Antimony, Dissolved	87	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	104	-	80-120	-	
Beryllium, Dissolved	104	-	80-120	-	
Cadmium, Dissolved	101	-	80-120	-	
Chromium, Dissolved	101	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	99	-	80-120	-	
Iron, Dissolved	101	-	80-120	-	
Lead, Dissolved	105	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	97	-	80-120	-	
Potassium, Dissolved	98	-	80-120	-	
Selenium, Dissolved	102	-	80-120	-	
Silver, Dissolved	104	-	80-120	-	
Sodium, Dissolved	102	-	80-120	-	
Thallium, Dissolved	120	-	80-120	-	
Vanadium, Dissolved	100	-	80-120	-	
Zinc, Dissolved	100	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 Batch: WG1567738-2					
Boron, Dissolved	109	-	80-120	-	
Calcium, Dissolved	101	-	80-120	-	
Magnesium, Dissolved	102	-	80-120	-	
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02-06,08 Batch: WG1567738-2					
Hardness	102	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 Batch: WG1567739-2					
Mercury, Dissolved	105	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1564963-3 WG1564963-4 QC Sample: L2158945-05 Client ID: MW-245S												
Mercury, Total	ND	0.005	0.00480	96		0.00463	93		75-125	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1567467-3 WG1567467-4 QC Sample: L2158945-05 Client ID: MW-245S											
Aluminum, Total	0.564	2	2.54	99		2.56	100		75-125	1	20
Antimony, Total	0.00057J	0.5	0.3479	**70**	Q	0.4042	81		75-125	15	20
Arsenic, Total	0.01665	0.12	0.1384	101		0.1368	100		75-125	1	20
Barium, Total	0.07818	2	2.060	99		2.081	100		75-125	1	20
Beryllium, Total	ND	0.05	0.04902	98		0.05300	106		75-125	8	20
Cadmium, Total	ND	0.053	0.05307	100		0.05349	101		75-125	1	20
Chromium, Total	0.00091J	0.2	0.1963	98		0.1948	97		75-125	1	20
Cobalt, Total	0.00076	0.5	0.4854	97		0.4884	98		75-125	1	20
Copper, Total	0.00133	0.25	0.2533	101		0.2505	100		75-125	1	20
Iron, Total	1.91	1	2.94	103		2.86	95		75-125	3	20
Lead, Total	0.00114	0.53	0.4999	94		0.5046	95		75-125	1	20
Manganese, Total	1.396	0.5	1.765	**74**	Q	1.805	82		75-125	2	20
Nickel, Total	0.00153J	0.5	0.4886	98		0.4921	98		75-125	1	20
Potassium, Total	2.12	10	11.5	94		11.7	96		75-125	2	20
Selenium, Total	ND	0.12	0.121	101		0.117	98		75-125	3	20
Silver, Total	ND	0.05	0.05164	103		0.05152	103		75-125	0	20
Sodium, Total	44.2	10	49.1	**49**	Q	49.9	**57**	Q	75-125	2	20
Thallium, Total	0.00029J	0.12	0.1401	117		0.1357	113		75-125	3	20
Vanadium, Total	ND	0.5	0.4797	96		0.4876	98		75-125	2	20
Zinc, Total	0.01335	0.5	0.5024	98		0.5083	99		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1567468-3 WG1567468-4 QC Sample: L2158945-05 Client ID: MW-245S										
Boron, Total	0.023J	1	1.06	106		1.10	110	75-125	4	20
Calcium, Total	116	10	122	**60**	Q	126	100	75-125	3	20
Magnesium, Total	24.5	10	33.2	87		34.2	97	75-125	3	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1567468-3 WG1567468-4 QC Sample: L2158945-05 Client ID: MW-245S										
Hardness	390	66.2	441	77		455	98	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 QC Batch ID: WG1567736-3 WG1567736-4 QC Sample: L2158945-05 Client ID: MW-245S											
Aluminum, Dissolved	ND	2	2.06	103		1.97	98		75-125	4	20
Antimony, Dissolved	ND	0.5	0.4434	89		0.4201	84		75-125	5	20
Arsenic, Dissolved	0.01116	0.12	0.1388	106		0.1350	103		75-125	3	20
Barium, Dissolved	0.07564	2	2.164	104		2.082	100		75-125	4	20
Beryllium, Dissolved	ND	0.05	0.05185	104		0.05029	100		75-125	3	20
Cadmium, Dissolved	ND	0.053	0.05493	104		0.05382	102		75-125	2	20
Chromium, Dissolved	ND	0.2	0.1977	99		0.1940	97		75-125	2	20
Cobalt, Dissolved	0.00026J	0.5	0.4745	95		0.4794	96		75-125	1	20
Copper, Dissolved	ND	0.25	0.2442	98		0.2467	99		75-125	1	20
Iron, Dissolved	ND	1	0.987	99		1.01	101		75-125	2	20
Lead, Dissolved	ND	0.53	0.5600	106		0.5495	104		75-125	2	20
Manganese, Dissolved	1.388	0.5	1.855	93		1.877	98		75-125	1	20
Nickel, Dissolved	0.00090J	0.5	0.4777	96		0.4877	98		75-125	2	20
Potassium, Dissolved	2.03	10	11.6	96		11.2	92		75-125	4	20
Selenium, Dissolved	ND	0.12	0.120	100		0.118	98		75-125	2	20
Silver, Dissolved	ND	0.05	0.05256	105		0.05111	102		75-125	3	20
Sodium, Dissolved	44.4	10	52.8	84		51.2	**68**	Q	75-125	3	20
Thallium, Dissolved	0.00061J	0.12	0.1525	**127**	Q	0.1503	125		75-125	1	20
Vanadium, Dissolved	ND	0.5	0.4960	99		0.5105	102		75-125	3	20
Zinc, Dissolved	0.00866J	0.5	0.4927	98		0.4982	100		75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 QC Batch ID: WG1567738-3 WG1567738-4 QC Sample: L2158945-05 Client ID: MW-245S									
Boron, Dissolved	0.020J	1	1.15	115	1.14	114	75-125	1	20
Calcium, Dissolved	127	10	137	100	137	100	75-125	0	20
Magnesium, Dissolved	26.5	10	36.5	100	36.6	101	75-125	0	20
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02-06,08 QC Batch ID: WG1567738-3 WG1567738-4 QC Sample: L2158945-05 Client ID: MW-245S									
Hardness	425	66.2	492	101	493	103	75-125	0	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02-06,08 QC Batch ID: WG1567739-3 WG1567739-4 QC Sample: L2158945-05 Client ID: MW-245S									
Mercury, Dissolved	ND	0.005	0.00484	97	0.00496	99	75-125	2	20

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1567467-6 QC Sample: L2158945-05 Client ID: MW-245S						
Manganese, Total	1.396	1.351	mg/l	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-01
Client ID: MH-7
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 09:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	220		A.P.C.U.	25	25.	5	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	584.		mg CaCO3/L	10.0	NA	5	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	7600		mg/l	40	12.	4	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	0.010		mg/l	0.005	0.001	1	11/08/21 06:30	11/08/21 13:23	1,9010C/9012B	CS
Nitrogen, Ammonia	98.4		mg/l	3.75	1.20	50	11/05/21 10:50	11/05/21 19:50	44,350.1	AT
Nitrogen, Nitrate	120		mg/l	10	2.3	100	-	10/28/21 08:48	44,353.2	MR
Nitrogen, Total Kjeldahl	100.		mg/l	1.50	0.330	5	11/04/21 06:33	11/04/21 22:12	4,351.1	AT
Chemical Oxygen Demand	500		mg/l	40	11.	4	11/01/21 21:15	11/01/21 23:46	44,410.4	TL
Total Organic Carbon	163.		mg/l	20.0	4.56	40	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	0.020	J	mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:41	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:46	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	23.0		mg/l	5.00	1.32	100	-	11/08/21 21:49	44,300.0	SH
Chloride	2210		mg/l	50.0	8.39	100	-	11/08/21 21:49	44,300.0	SH
Sulfate	1520		mg/l	100	45.4	100	-	11/08/21 21:49	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-02
Client ID: MW-233S
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 12:15
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	310.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	540		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/08/21 06:30	11/08/21 13:24	1,9010C/9012B	CS
Nitrogen, Ammonia	0.076		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:46	44,350.1	AT
Nitrogen, Nitrate	11.		mg/l	0.50	0.11	5	-	10/28/21 08:51	44,353.2	MR
Nitrogen, Total Kjeldahl	0.504		mg/l	0.300	0.066	1	11/04/21 06:33	11/04/21 22:13	4,351.1	AT
Chemical Oxygen Demand	7.0	J	mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:46	44,410.4	TL
Total Organic Carbon	3.94		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:44	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:47	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.239		mg/l	0.050	0.013	1	-	11/08/21 22:22	44,300.0	SH
Chloride	1.66		mg/l	0.500	0.083	1	-	11/08/21 22:22	44,300.0	SH
Sulfate	123.		mg/l	10.0	4.54	10	-	11/09/21 01:38	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-03
Client ID: MW-233D
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 12:40
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	177.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	520		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/08/21 06:30	11/08/21 13:25	1,9010C/9012B	CS
Nitrogen, Ammonia	0.108		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:33	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/28/21 08:52	44,353.2	MR
Nitrogen, Total Kjeldahl	0.652		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:35	4,351.1	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:46	44,410.4	TL
Total Organic Carbon	0.530		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:45	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:47	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	1.27		mg/l	0.050	0.013	1	-	11/08/21 22:32	44,300.0	SH
Chloride	126.		mg/l	5.00	0.839	10	-	11/09/21 01:49	44,300.0	SH
Sulfate	128.		mg/l	10.0	4.54	10	-	11/09/21 01:49	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-04
Client ID: MW-245D
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 13:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	10	10.	2	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	306.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	530		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	0.009		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:27	1,9010C/9012B	CS
Nitrogen, Ammonia	7.33		mg/l	0.150	0.048	2	11/05/21 10:50	11/05/21 19:38	44,350.1	AT
Nitrogen, Nitrate	0.038	J	mg/l	0.10	0.023	1	-	10/28/21 08:34	44,353.2	MR
Nitrogen, Total Kjeldahl	8.10		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:36	4,351.1	AT
Chemical Oxygen Demand	22.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:46	44,410.4	TL
Total Organic Carbon	2.12		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:46	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:47	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.427		mg/l	0.050	0.013	1	-	11/08/21 22:43	44,300.0	SH
Chloride	46.3		mg/l	0.500	0.083	1	-	11/08/21 22:43	44,300.0	SH
Sulfate	94.8		mg/l	1.00	0.454	1	-	11/08/21 22:43	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-05
Client ID: MW-245S
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 14:50
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	13		A.P.C.U.	5.0	5.0	1	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	296.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	600		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:28	1,9010C/9012B	CS
Nitrogen, Ammonia	0.166		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:39	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/28/21 08:35	44,353.2	MR
Nitrogen, Total Kjeldahl	0.400		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:40	4,351.1	AT
Chemical Oxygen Demand	9.2	J	mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:46	44,410.4	TL
Total Organic Carbon	1.95		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:46	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:48	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.132	10	-	11/08/21 22:54	44,300.0	SH
Chloride	80.0		mg/l	5.00	0.839	10	-	11/08/21 22:54	44,300.0	SH
Sulfate	122.		mg/l	10.0	4.54	10	-	11/08/21 22:54	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-06
Client ID: MW-220
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 16:20
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	430.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	700		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:32	1,9010C/9012B	CS
Nitrogen, Ammonia	0.066	J	mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:42	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/28/21 08:39	44,353.2	MR
Nitrogen, Total Kjeldahl	0.595		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:43	4,351.1	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:47	44,410.4	TL
Total Organic Carbon	1.53		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:49	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:48	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.230		mg/l	0.050	0.013	1	-	11/08/21 23:05	44,300.0	SH
Chloride	17.2		mg/l	0.500	0.083	1	-	11/08/21 23:05	44,300.0	SH
Sulfate	170.		mg/l	10.0	4.54	10	-	11/09/21 02:44	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-07
Client ID: MH-15
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 16:45
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	82		A.P.C.U.	10	10.	2	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	283.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	320		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:33	1,9010C/9012B	CS
Nitrogen, Ammonia	12.6		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:43	44,350.1	AT
Nitrogen, Nitrate	0.039	J	mg/l	0.10	0.023	1	-	10/28/21 08:40	44,353.2	MR
Nitrogen, Total Kjeldahl	13.7		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:44	4,351.1	AT
Chemical Oxygen Demand	40.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:47	44,410.4	TL
Total Organic Carbon	3.18		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:51	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:49	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.724		mg/l	0.050	0.013	1	-	11/08/21 23:16	44,300.0	SH
Chloride	37.2		mg/l	0.500	0.083	1	-	11/08/21 23:16	44,300.0	SH
Sulfate	8.05		mg/l	1.00	0.454	1	-	11/08/21 23:16	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

SAMPLE RESULTS

Lab ID: L2158945-08
Client ID: DUP10272021
Sample Location: GOSHEN, NY

Date Collected: 10/27/21 00:00
Date Received: 10/27/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	10/28/21 23:17	121,2120B	AS
Alkalinity, Total	423.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	700		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:34	1,9010C/9012B	CS
Nitrogen, Ammonia	0.226		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:44	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/28/21 08:42	44,353.2	MR
Nitrogen, Total Kjeldahl	0.490		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:45	4,351.1	AT
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:47	44,410.4	TL
Total Organic Carbon	1.50		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:52	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:49	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.239		mg/l	0.050	0.013	1	-	11/08/21 23:27	44,300.0	SH
Chloride	17.3		mg/l	0.500	0.083	1	-	11/08/21 23:27	44,300.0	SH
Sulfate	170.		mg/l	10.0	4.54	10	-	11/09/21 02:55	44,300.0	SH

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2158945
Report Date: 11/10/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1564128-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/28/21 07:30	10/28/21 07:45	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1565222-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/28/21 06:03	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1565449-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	11/01/21 09:00	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1565775-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:45	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1566964-1										
Nitrogen, Total Kjeldahl	0.115	J	mg/l	0.300	0.022	1	11/04/21 06:33	11/04/21 22:10	4,351.1	AT
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1567527-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.024	1	11/05/21 10:50	11/05/21 19:28	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1567590-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1568288-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/08/21 06:30	11/08/21 13:05	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1568321-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/08/21 07:28	11/08/21 11:39	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 04-08 Batch: WG1568330-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/09/21 06:30	11/09/21 10:21	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 03-08 Batch: WG1568704-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	11/08/21 22:19	11/09/21 18:28	4,351.1	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-08 Batch: WG1568733-1										
Bromide	ND		mg/l	0.050	0.013	1	-	11/08/21 20:32	44,300.0	SH
Chloride	ND		mg/l	0.500	0.083	1	-	11/08/21 20:32	44,300.0	SH
Sulfate	ND		mg/l	1.00	0.454	1	-	11/08/21 20:32	44,300.0	SH
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1569288-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	11/09/21 10:51	121,5310C	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1564128-2								
Chromium, Hexavalent	106		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1565222-2								
Nitrogen, Nitrate	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1565449-2								
Solids, Total Dissolved	94		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1565775-2								
Chemical Oxygen Demand	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1566964-2								
Nitrogen, Total Kjeldahl	98		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1567527-2								
Nitrogen, Ammonia	100		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1567590-2								
Alkalinity, Total	91		-		90-110	-		10

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1568288-2 WG1568288-3					
Cyanide, Total	100	109	85-115	9	20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1568321-2					
Phenolics, Total	82	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 04-08 Batch: WG1568330-2 WG1568330-3					
Cyanide, Total	100	102	85-115	2	20
General Chemistry - Westborough Lab Associated sample(s): 03-08 Batch: WG1568704-2					
Nitrogen, Total Kjeldahl	104	-	78-122	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-08 Batch: WG1568733-2					
Bromide	98	-	90-110	-	
Chloride	99	-	90-110	-	
Sulfate	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1569288-2					
Total Organic Carbon	106	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1564128-4 WG1564128-5 QC Sample: L2158945-05 Client ID: MW-245S												
Chromium, Hexavalent	ND	0.1	0.106	106		0.105	105		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1565222-4 QC Sample: L2158945-05 Client ID: MW-245S												
Nitrogen, Nitrate	ND	4	4.5	112		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1565775-3 QC Sample: L2158945-05 Client ID: MW-245S												
Chemical Oxygen Demand	9.2J	47.6	53	**111**	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1566964-4 QC Sample: L2160496-02 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.228J	8	7.34	92		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1567527-4 QC Sample: L2158945-05 Client ID: MW-245S												
Nitrogen, Ammonia	0.166	4	3.87	93		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1567590-4 QC Sample: L2158945-05 Client ID: MW-245S												
Alkalinity, Total	296.	100	392	96		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1568321-4 QC Sample: L2158945-05 Client ID: MW-245S												
Phenolics, Total	ND	0.4	0.31	77		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG1568330-4 WG1568330-5 QC Sample: L2158945-05 Client ID: MW-245S												
Cyanide, Total	ND	0.2	0.207	104		0.206	103		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-08 QC Batch ID: WG1568704-4 QC Sample: L2158945-05 Client ID: MW-245S												
Nitrogen, Total Kjeldahl	0.400	8	8.04	96		-	-		77-111	-		24

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1568733-3 WG1568733-4 QC Sample: L2158945-05 Client ID: MW-245S											
Bromide	ND	4	4.43	**111**	Q	4.52	**113**	Q	90-110	2	20
Chloride	80.0	40	116	91		117	92		90-110	1	18
Sulfate	122.	80	194	90		196	92		90-110	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569288-3 QC Sample: L2158945-05 Client ID: MW-245S											
Total Organic Carbon	1.95	16	18.3	102		-	-		80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1564128-3 QC Sample: L2158945-05 Client ID: MW-245S						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1564587-1 QC Sample: L2158945-05 Client ID: MW-245S						
Color, Apparent	13	13	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1565222-3 QC Sample: L2158945-05 Client ID: MW-245S						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1565449-3 QC Sample: L2158945-05 Client ID: MW-245S						
Solids, Total Dissolved	600	590	mg/l	2		10
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1565775-4 QC Sample: L2158945-05 Client ID: MW-245S						
Chemical Oxygen Demand	9.2J	11	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1566964-3 QC Sample: L2160496-02 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.228J	0.392	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1567527-3 QC Sample: L2158945-05 Client ID: MW-245S						
Nitrogen, Ammonia	0.166	0.180	mg/l	8		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1567590-3 QC Sample: L2158945-05 Client ID: MW-245S						
Alkalinity, Total	296.	291	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1568321-3 QC Sample: L2158945-05 Client ID: MW-245S						
Phenolics, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2158945

Report Date: 11/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-08 QC Batch ID: WG1568704-3 QC Sample: L2158945-05 Client ID: MW-245S						
Nitrogen, Total Kjeldahl	0.400	0.993	mg/l	**85**	Q	24
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1569288-4 QC Sample: L2158945-05 Client ID: MW-245S						
Total Organic Carbon	1.95	1.84	mg/l	6		20

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-01A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-01B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-01C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-01D	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)
L2158945-01E	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)
L2158945-01F	Plastic 250ml unpreserved/No Headspace	C	NA		2.8	Y	Absent		ALK-T-2320(14)
L2158945-01G	Plastic 250ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),TDS-2540(7),BR-300(28)
L2158945-01H	Plastic 250ml NaOH preserved	C	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2158945-01J	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),MG-TI(180),AL-6020T(180),MG-6020T(180),CD-6020T(180),CO-6020T(180),CA-TI(180),HARDT(180)
L2158945-01K	Amber 250ml unpreserved	C	7	7	2.8	Y	Absent		COLOR-A-2120(2)
L2158945-01L	Plastic 500ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-01M	Plastic 950ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),TDS-2540(7),BR-300(28)
L2158945-01N	Amber 950ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		NY-TPHENOL-420(28)
L2158945-02A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-02B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-02C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-02D	Vial H2SO4 preserved	A	NA		3.3	Y	Absent		TOC-5310(28)
L2158945-02E	Vial H2SO4 preserved	A	NA		3.3	Y	Absent		TOC-5310(28)
L2158945-02F	Plastic 250ml unpreserved/No Headspace	A	NA		3.3	Y	Absent		ALK-T-2320(14)
L2158945-02G	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),BR-300(28),TDS-2540(7)
L2158945-02H	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent		-
L2158945-02J	Plastic 250ml NaOH preserved	A	>12	>12	3.3	Y	Absent		TCN-9010(14)
L2158945-02K	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),AG-6020T(180),HARDT(180),CO-6020T(180),CA-TI(180)
L2158945-02L	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		COLOR-A-2120(2)
L2158945-02M	Plastic 500ml H2SO4 preserved	A	<2	<2	3.3	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-02N	Plastic 950ml unpreserved	A	7	7	3.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),BR-300(28),TDS-2540(7)
L2158945-02O	Amber 950ml H2SO4 preserved	A	<2	<2	3.3	Y	Absent		NY-TPHENOL-420(28)
L2158945-02W	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.3	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),B-SI(180),K-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),FE-6020S(180),CR-6020S(180),HARDS(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),MG-SI(180),HG-S(28),CD-6020S(180),CA-SI(180),AL-6020S(180)
L2158945-03A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-03B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-03C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-03D	Vial H2SO4 preserved	A	NA		3.3	Y	Absent		TOC-5310(28)
L2158945-03E	Vial H2SO4 preserved	A	NA		3.3	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-03F	Plastic 250ml unpreserved/No Headspace	A	NA		3.3	Y	Absent		ALK-T-2320(14)
L2158945-03G	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-03H	Plastic 250ml unpreserved	A	7	7	3.3	Y	Absent		-
L2158945-03J	Plastic 250ml NaOH preserved	A	>12	>12	3.3	Y	Absent		TCN-9010(14)
L2158945-03K	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),B-TI(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),MG-6020T(180),MG-TI(180),AG-6020T(180),CD-6020T(180),HG-T(28),CA-TI(180),HARDT(180),CO-6020T(180)
L2158945-03L	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		COLOR-A-2120(2)
L2158945-03M	Plastic 500ml H2SO4 preserved	A	<2	<2	3.3	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-03N	Plastic 950ml unpreserved	A	7	7	3.3	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-03O	Amber 950ml H2SO4 preserved	A	<2	<2	3.3	Y	Absent		NY-TPHENOL-420(28)
L2158945-03W	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.3	Y	Absent		B-SI(180),SE-6020S(180),K-6020S(180),V-6020S(180),CU-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),HARDS(180),NI-6020S(180),MG-SI(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),AL-6020S(180),HG-S(28),CA-SI(180),CD-6020S(180)
L2158945-04A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-04B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-04C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-04D	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)
L2158945-04E	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)
L2158945-04F	Plastic 250ml unpreserved/No Headspace	C	NA		2.8	Y	Absent		ALK-T-2320(14)
L2158945-04G	Plastic 250ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),TDS-2540(7),BR-300(28),NO3-353(2)
L2158945-04H	Plastic 250ml unpreserved	C	7	7	2.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-04J	Plastic 250ml NaOH preserved	C	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2158945-04K	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		BA-6020T(180),TL-6020T(180),SE-6020T(180),FE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),MG-TI(180),AG-6020T(180),HG-T(28),HARDT(180),CA-TI(180),CO-6020T(180)
L2158945-04L	Amber 250ml unpreserved	C	7	7	2.8	Y	Absent		COLOR-A-2120(2)
L2158945-04M	Plastic 500ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-04N	Plastic 950ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),TDS-2540(7),BR-300(28),NO3-353(2)
L2158945-04O	Amber 950ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		NY-TPHENOL-420(28)
L2158945-04W	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),B-SI(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),HARDS(180),TL-6020S(180),NA-6020S(180),MG-SI(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CA-SI(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2158945-05A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05A1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05A2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05B1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05B2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05C1	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05C2	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-05D	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-05D1	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-05D2	Vial H2SO4 preserved	B	NA		3.9	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-05E	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-05E1	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-05E2	Vial H2SO4 preserved	B	NA		3.9	Y	Absent		TOC-5310(28)
L2158945-05F	Plastic 250ml unpreserved/No Headspace	D	NA		3.0	Y	Absent		ALK-T-2320(14)
L2158945-05F1	Plastic 250ml unpreserved/No Headspace	D	NA		3.0	Y	Absent		ALK-T-2320(14)
L2158945-05F2	Plastic 250ml unpreserved/No Headspace	B	NA		3.9	Y	Absent		ALK-T-2320(14)
L2158945-05G	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05G1	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05G2	Plastic 250ml unpreserved	B	7	7	3.9	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05H	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		-
L2158945-05H1	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		-
L2158945-05H2	Plastic 250ml unpreserved	B	7	7	3.9	Y	Absent		-
L2158945-05J	Plastic 250ml NaOH preserved	D	>12	>12	3.0	Y	Absent		TCN-9010(14)
L2158945-05J1	Plastic 250ml NaOH preserved	D	>12	>12	3.0	Y	Absent		TCN-9010(14)
L2158945-05J2	Plastic 250ml NaOH preserved	B	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2158945-05K	Plastic 250ml HNO3 preserved	D	<2	<2	3.0	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),MG-TI(180),AG-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180),HARDT(180),CA-TI(180)
L2158945-05K1	Plastic 250ml HNO3 preserved	D	<2	<2	3.0	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),MG-TI(180),AG-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180),HARDT(180),CA-TI(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-05K2	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),MG-TI(180),AG-6020T(180),MG-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180),HARDT(180),CA-TI(180)
L2158945-05L	Amber 250ml unpreserved	D	7	7	3.0	Y	Absent		COLOR-A-2120(2)
L2158945-05L1	Amber 250ml unpreserved	D	7	7	3.0	Y	Absent		COLOR-A-2120(2)
L2158945-05L2	Amber 250ml unpreserved	B	7	7	3.9	Y	Absent		COLOR-A-2120(2)
L2158945-05M	Plastic 500ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-05M1	Plastic 500ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-05M2	Plastic 500ml H2SO4 preserved	B	<2	<2	3.9	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-05N	Plastic 950ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05N1	Plastic 950ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05N2	Plastic 950ml unpreserved	B	7	7	3.9	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)
L2158945-05O	Amber 950ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L2158945-05O1	Amber 950ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L2158945-05O2	Amber 950ml H2SO4 preserved	B	<2	<2	3.9	Y	Absent		NY-TPHENOL-420(28)
L2158945-05W	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.0	Y	Absent		CU-6020S(180),K-6020S(180),B-SI(180),SE-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),HARDS(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),MG-SI(180),CA-SI(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2158945-06A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-06B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-06C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-06D	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-06E	Vial H2SO4 preserved	C	NA		2.8	Y	Absent		TOC-5310(28)
L2158945-06F	Plastic 250ml unpreserved/No Headspace	C	NA		2.8	Y	Absent		ALK-T-2320(14)
L2158945-06G	Plastic 250ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),TDS-2540(7),BR-300(28)
L2158945-06H	Plastic 250ml unpreserved	C	7	7	2.8	Y	Absent		-
L2158945-06J	Plastic 250ml NaOH preserved	C	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2158945-06K	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),MG-TI(180),CO-6020T(180),HARDT(180),CA-TI(180)
L2158945-06L	Amber 250ml unpreserved	C	7	7	2.8	Y	Absent		COLOR-A-2120(2)
L2158945-06M	Plastic 500ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-06N	Plastic 950ml unpreserved	C	7	7	2.8	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),NO3-353(2),TDS-2540(7),BR-300(28)
L2158945-06O	Amber 950ml H2SO4 preserved	C	<2	<2	2.8	Y	Absent		NY-TPHENOL-420(28)
L2158945-06W	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),B-SI(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),HARDS(180),MG-SI(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180),CA-SI(180)
L2158945-07A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-07B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-07C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-07D	Vial H2SO4 preserved	B	NA		3.9	Y	Absent		TOC-5310(28)
L2158945-07E	Vial H2SO4 preserved	B	NA		3.9	Y	Absent		TOC-5310(28)
L2158945-07F	Plastic 250ml unpreserved/No Headspace	B	NA		3.9	Y	Absent		ALK-T-2320(14)
L2158945-07G	Plastic 250ml unpreserved	B	7	7	3.9	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-07H	Plastic 250ml NaOH preserved	B	>12	>12	3.9	Y	Absent		TCN-9010(14)
L2158945-07J	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),MG-6020T(180),MG-TI(180),AG-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180),CA-TI(180),HARDT(180)
L2158945-07K	Amber 250ml unpreserved	B	7	7	3.9	Y	Absent		COLOR-A-2120(2)
L2158945-07L	Plastic 500ml H2SO4 preserved	B	<2	<2	3.9	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2158945-07M	Plastic 950ml unpreserved	B	7	7	3.9	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L2158945-07N	Amber 950ml H2SO4 preserved	B	<2	<2	3.9	Y	Absent		NY-TPHENOL-420(28)
L2158945-08A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-08B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-08C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-08D	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-08E	Vial H2SO4 preserved	D	NA		3.0	Y	Absent		TOC-5310(28)
L2158945-08F	Plastic 250ml unpreserved/No Headspace	D	NA		3.0	Y	Absent		ALK-T-2320(14)
L2158945-08G	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),NO3-353(2),BR-300(28),TDS-2540(7)
L2158945-08H	Plastic 250ml unpreserved	D	7	7	3.0	Y	Absent		-
L2158945-08J	Plastic 250ml NaOH preserved	D	>12	>12	3.0	Y	Absent		TCN-9010(14)
L2158945-08K	Plastic 250ml HNO3 preserved	D	<2	<2	3.0	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),B-TI(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),MG-TI(180),AG-6020T(180),AL-6020T(180),CA-TI(180),HARDT(180),CO-6020T(180)
L2158945-08L	Amber 250ml unpreserved	D	7	7	3.0	Y	Absent		COLOR-A-2120(2)
L2158945-08M	Plastic 500ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2158945
Report Date: 11/10/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2158945-08N	Plastic 950ml unpreserved	D	7	7	3.0	Y	Absent		SO4-300(28),HEXCR-7196(1),CL-300(28),NO3-353(2),BR-300(28),TDS-2540(7)
L2158945-08O	Amber 950ml H2SO4 preserved	D	<2	<2	3.0	Y	Absent		NY-TPHENOL-420(28)
L2158945-08W	Plastic 120ml HNO3 preserved Filtrates	D	NA		3.0	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),B-SI(180),SE-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),FE-6020S(180),HARDS(180),PB-6020S(180),TL-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),SB-6020S(180),AS-6020S(180),MG-SI(180),AG-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2158945-09A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L2158945-09B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2158945
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/10/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158945

Client Information

Client: Sterling Env.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518 456-4900
Fax:
Email:

Project Information

Project Name: Orange County LF
Project Location: Goshen, NY
Project #: 2010-15 (Task 500)
(Use Project name as Project #)
Project Manager: Andrew Millspaugh
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[X] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[X] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[X] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL. * Total Baseline Metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOC	Hexcr, TDS, sch, Br	Cl, NO3	Total metals * Hardness	COD, TKN, NH3	NYTCL 8260 VOCs	TCN	Alkalinity	Sample Specific Comments	Total Bottle
58945-01	MH-7	10-27-2021	945	GW	PWS	X	X	X	X	X	X	X	X		11
-02	MW-233S		1215			X	X	X	X	X	X	X	X		11
-03	MW-233D		1240			X	X	X	X	X	X	X	X		11
-04	MW-245D		1350			X	X	X	X	X	X	X	X		11
-05	MW-245S		1450			X	X	X	X	X	X	X	X		11
	MW-245S MS		1455			X	X	X	X	X	X	X	X		11
	MW-245S MSD		1500			X	X	X	X	X	X	X	X		11
-06	MW-220		1620			X	X	X	X	X	X	X	X		11
-07	~~MW-15~~ MH-15		1645			X	X	X	X	X	X	X	X		11
-08	DUP10272021		-			X	X	X	X	X	X	X	X		11

Container Type: V P P P P V P P
Preservative: D A A C D B E A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10-27-21 1750		10/27/21 1750
	10/27/21 1845		10/27 1930
	10/27		10/27/21 2215
	10/27/21 2345		10/27/21 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 10/27/21

ALPHA Job #: L2158945

Client Information
Client: Sterling Env.
Address: 9 24 Wade Rd, Latham, NY 12110
Phone: 518 456-4900
Fax:
Email:

Project Information
Project Name: Orange County LF
Project Location: Goshen, NY
Project #: 2010-15 (Task 500)
(Use Project name as Project #)
Project Manager: Andrew Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard: X — Due Date:
Rush (only if pre approved): — # of Days:

Deliverables
X ASP-A — ASP-B
EQuIS (1 File) — EQuIS (4 File)
Other

Billing Information
X Same as Client Info
PO #

Regulatory Requirement
X NY TOGS — NY Part 375
AWQ Standards — NY CP-51
NY Restricted Use — Other
NY Unrestricted Use
NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility: NJ — NY — Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL. *Dissolved Baseline Metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	T-Phenol	Color	Dissolved* Metals	Sample Specific Comments	Total # Bottles
58945-01	MH-7	10-27-21	945	GW	PWS	X	X			2
-02	MW-233S		~~1320~~ 1315			X	X	X	Sampled @ 1215	3
-03	MW-233D		1240			X	X	X		3
-04	MW-245D		1350			X	X	X		3
-05	MW-245S		1450			X	X	X		3
	MW-245S MS		1455			X	X	X		3
↓	MW-245S MSD		1500			X	X	X		3
-06	MW-220		1620			X	X	X		3
-07	MH-15		1645			X	X			2
-08	DUP102721	↓	—	↓	↓	X	X	X		3

Container Type	A	A	P			
Preservative	D	A	A			

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10-27-21 1730	[illegible] (AAL)	10/27/21 1750
[illegible] (AAL)	10/27/21 1845	TC & AAC	10/27 1930
TC & AAC	10/27	[illegible] AAL	10/28/21 22:15
[illegible] AAL	10/28/21 23:45	[illegible]	10/28/21 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
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Page 3 of 3

Date Rec'd In Lab: 10/27/21

ALPHA Job #: L2158945

Client Information
Client: Sterling Env
Address: 241 Wade Rd
Latham NY 12110
Phone: 518 456 4900
Fax:
Email:

Project Information
Project Name: Orange County LF
Project Location: Goshen, NY
Project #: 2010-15 (Task 500)
(Use Project name as Project #) ☐
Project Manager: Andrew Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS
NYTCL 8260 VOC

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
58945-09	TB102720 21	10-27-21	—	LW	PWS	2

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10-27-21 1750		10/27/21 1750
(AAL)	10/27/21 1945	FC & AAL	10/27 1930
FC & AAL	10/27		10/27/21 22:15
AAL	10/27/21 23:45		10/27/21 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2159357
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	ORANGE COUNTY LF
Project Number:	2010-15 (TASK 500)
Report Date:	11/12/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2159357-01	MW-3B	WATER	GOSHEN, NY	10/28/21 09:55	10/28/21
L2159357-02	PZ-4	WATER	GOSHEN, NY	10/28/21 11:20	10/28/21
L2159357-03	SW-5	WATER	GOSHEN, NY	10/28/21 11:30	10/28/21
L2159357-04	SW-8	WATER	GOSHEN, NY	10/28/21 10:15	10/28/21
L2159357-05	SW-13	WATER	GOSHEN, NY	10/28/21 11:50	10/28/21
L2159357-06	TB10282021	WATER	GOSHEN, NY	10/28/21 00:00	10/28/21

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2159357-03: The collection date and time on the chain of custody was 28-OCT-21 10:15; however, the collection date/time on the container label was 28-OCT-21 11:30. At the client's request, the collection date/time is reported as 28-OCT-21 11:30.

L2159357-04: The collection date and time on the chain of custody was 28-OCT-21 11:30; however, the collection date/time on the container label was 28-OCT-21 10:15. At the client's request, the collection date/time is reported as 28-OCT-21 10:15.

Color, Apparent

L2159357-02: The sample was analyzed on various dilutions; however, due to the dark color of the sample, the method was deemed "Not Applicable" (NA).

Anions by Ion Chromatography

The WG1569847-3 MS recovery, performed on L2159357-01, is outside the acceptance criteria for chloride (111%); however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Caitlin Walukevich

Title: Technical Director/Representative

Date: 11/12/21

ORGANICS

VOLATILES

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-01
Client ID: MW-3B
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 09:55
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 13:23
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-01
Client ID: MW-3B
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 09:55
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-02
Client ID: PZ-4
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 11:20
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 13:50
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-02
Client ID: PZ-4
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:20
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-03
Client ID: SW-5
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:30
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 14:17
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-03
Client ID: SW-5
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:30
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-04
Client ID: SW-8
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 10:15
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 14:44
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-04
Client ID: SW-8
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 10:15
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-05
Client ID: SW-13
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:50
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 15:11
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-05
Client ID: SW-13
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:50
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-06
Client ID: TB10282021
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 00:00
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/08/21 15:38
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-06
Client ID: TB10282021
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 00:00
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1
Iodomethane	ND		ug/l	5.0	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/21 11:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1569030-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/08/21 11:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1569030-5					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70
Iodomethane	ND		ug/l	5.0	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1569030-3 WG1569030-4								
Methylene chloride	93		94		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	96		97		63-130	1		20
1,1,2-Trichloroethane	96		96		70-130	0		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	120		100		62-150	18		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	98		100		67-130	2		20
trans-1,3-Dichloropropene	93		94		70-130	1		20
cis-1,3-Dichloropropene	93		94		70-130	1		20
Bromoform	91		96		54-136	5		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		98		70-130	2		20
Toluene	99		96		70-130	3		20
Ethylbenzene	98		95		70-130	3		20
Chloromethane	120		120		64-130	0		20
Bromomethane	61		64		39-139	5		20
Vinyl chloride	110		110		55-140	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1569030-3 WG1569030-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	100		95		61-145	5		20
trans-1,2-Dichloroethene	100		97		70-130	3		20
Trichloroethene	96		93		70-130	3		20
1,2-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	96		100		64-130	4		20
Acrylonitrile	110		110		70-130	0		20
Styrene	100		100		70-130	0		20
Acetone	83		86		58-148	4		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	**150**	Q	**150**	Q	70-130	0		20
4-Methyl-2-pentanone	93		93		59-130	0		20
2-Hexanone	95		97		57-130	2		20
Bromochloromethane	100		100		70-130	0		20
1,2-Dibromoethane	95		96		70-130	1		20
1,1,1,2-Tetrachloroethane	98		95		64-130	3		20
1,2-Dibromo-3-chloropropane	84		90		41-144	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1569030-3 WG1569030-4								
trans-1,4-Dichloro-2-butene	92		92		70-130	0		20
Iodomethane	**30**	Q	**39**	Q	70-130	**26**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		109		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	102		104		70-130

METALS

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-01
Client ID: MW-3B
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 09:55
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0128		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Arsenic, Total	0.04801		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Barium, Total	0.4250		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Boron, Total	0.218		mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 11:45	EPA 3005A	1,6010D	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Calcium, Total	142		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 11:45	EPA 3005A	1,6010D	SV
Chromium, Total	0.00025	J	mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00029	J	mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Iron, Total	1.60		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Magnesium, Total	36.0		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 11:45	EPA 3005A	1,6010D	SV
Manganese, Total	0.9666		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 13:28	EPA 7470A	1,7470A	NB
Nickel, Total	0.00484		mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Potassium, Total	6.81		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Sodium, Total	46.0		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Thallium, Total	0.00015	J	mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Zinc, Total	0.00955	J	mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6020B	CD
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	504		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 11:45	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-01
Client ID: MW-3B
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 09:55
Date Received: 10/28/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00397	J	mg/l	0.0100	0.00327	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Antimony, Dissolved	0.00061	J	mg/l	0.00400	0.00042	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Arsenic, Dissolved	0.03485		mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Barium, Dissolved	0.3991		mg/l	0.00050	0.00017	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Boron, Dissolved	0.198		mg/l	0.030	0.002	1	11/09/21 12:01	11/10/21 11:24	EPA 3005A	1,6010D	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Calcium, Dissolved	139		mg/l	0.100	0.035	1	11/09/21 12:01	11/10/21 11:24	EPA 3005A	1,6010D	SV
Chromium, Dissolved	0.00032	J	mg/l	0.00100	0.00017	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Cobalt, Dissolved	0.00026	J	mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Magnesium, Dissolved	39.6		mg/l	0.100	0.015	1	11/09/21 12:01	11/10/21 11:24	EPA 3005A	1,6010D	SV
Manganese, Dissolved	0.9218		mg/l	0.00150	0.00044	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/09/21 10:44	11/10/21 11:01	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00518		mg/l	0.00200	0.00055	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Potassium, Dissolved	6.57		mg/l	0.100	0.0309	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Sodium, Dissolved	46.1		mg/l	0.100	0.0293	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Thallium, Dissolved	0.00041	J	mg/l	0.00200	0.00014	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Zinc, Dissolved	0.01032		mg/l	0.01000	0.00341	1	11/09/21 12:01	11/10/21 11:58	EPA 3005A	1,6020B	PS
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	510		mg/l	0.660	NA	1	11/09/21 12:01	11/10/21 11:24	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-02
Client ID: PZ-4
Sample Location: GOSHEN, NY
Date Collected: 10/28/21 11:20
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2.70		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Arsenic, Total	0.01613		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Barium, Total	0.08762		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00017	J	mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Boron, Total	0.130		mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 11:50	EPA 3005A	1,6010D	SV
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Calcium, Total	209		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 11:50	EPA 3005A	1,6010D	SV
Chromium, Total	0.00541		mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00394		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Copper, Total	0.01372		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Iron, Total	8.11		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Lead, Total	0.00606		mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Magnesium, Total	48.8		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 11:50	EPA 3005A	1,6010D	SV
Manganese, Total	1.602		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 13:52	EPA 7470A	1,7470A	NB
Nickel, Total	0.01276		mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Potassium, Total	3.70		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Sodium, Total	30.6		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Thallium, Total	0.00016	J	mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00467	J	mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Zinc, Total	0.04453		mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6020B	CD
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	724		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 11:50	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-02
Client ID: PZ-4
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 11:20
Date Received: 10/28/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00463	J	mg/l	0.0100	0.00327	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Antimony, Dissolved	0.00047	J	mg/l	0.00400	0.00042	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Arsenic, Dissolved	0.01047		mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Barium, Dissolved	0.07071		mg/l	0.00050	0.00017	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Boron, Dissolved	0.120		mg/l	0.030	0.002	1	11/09/21 12:01	11/10/21 11:19	EPA 3005A	1,6010D	SV
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Calcium, Dissolved	192		mg/l	0.100	0.035	1	11/09/21 12:01	11/10/21 11:19	EPA 3005A	1,6010D	SV
Chromium, Dissolved	0.00022	J	mg/l	0.00100	0.00017	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Cobalt, Dissolved	0.00040	J	mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Copper, Dissolved	0.00123		mg/l	0.00100	0.00038	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Magnesium, Dissolved	51.1		mg/l	0.100	0.015	1	11/09/21 12:01	11/10/21 11:19	EPA 3005A	1,6010D	SV
Manganese, Dissolved	1.132		mg/l	0.00150	0.00044	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/09/21 10:44	11/10/21 09:45	EPA 7470A	1,7470A	AC
Nickel, Dissolved	0.00518		mg/l	0.00200	0.00055	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Potassium, Dissolved	3.51		mg/l	0.100	0.0309	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Sodium, Dissolved	31.4		mg/l	0.100	0.0293	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Thallium, Dissolved	0.00018	J	mg/l	0.00200	0.00014	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Zinc, Dissolved	0.00437	J	mg/l	0.01000	0.00341	1	11/09/21 12:01	11/10/21 14:28	EPA 3005A	1,6020B	PS
Dissolved Hardness by SM 2340B - Mansfield Lab											
Hardness	691		mg/l	0.660	NA	1	11/09/21 12:01	11/10/21 11:19	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-03
Client ID: SW-5
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 11:30
Date Received: 10/28/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.448		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00129		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Barium, Total	0.01557		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Boron, Total	0.023	J	mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 12:54	EPA 3005A	1,6010D	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Calcium, Total	22.6		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 12:54	EPA 3005A	1,6010D	SV
Chromium, Total	0.00100		mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00051		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Copper, Total	0.00350		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Iron, Total	0.978		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Lead, Total	0.00084	J	mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Magnesium, Total	5.77		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 12:54	EPA 3005A	1,6010D	SV
Manganese, Total	0.05899		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 13:55	EPA 7470A	1,7470A	NB
Nickel, Total	0.00178	J	mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Potassium, Total	3.27		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Sodium, Total	13.7		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Zinc, Total	0.01720		mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 13:52	EPA 3005A	1,6020B	CD
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	80.2		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 12:54	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-04
Client ID: SW-8
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 10:15
Date Received: 10/28/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.592		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00138		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Barium, Total	0.01482		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Boron, Total	0.022	J	mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6010D	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Calcium, Total	19.6		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6010D	SV
Chromium, Total	0.00105		mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00058		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Copper, Total	0.00344		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Iron, Total	1.18		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Lead, Total	0.00096	J	mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Magnesium, Total	5.41		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6010D	SV
Manganese, Total	0.06378		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 13:58	EPA 7470A	1,7470A	NB
Nickel, Total	0.00173	J	mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Potassium, Total	3.38		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Sodium, Total	14.0		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Zinc, Total	0.01987		mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 13:57	EPA 3005A	1,6020B	CD
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	71.1		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 13:38	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-05
Client ID: SW-13
Sample Location: GOSHEN, NY
Sample Depth:
Matrix: Water

Date Collected: 10/28/21 11:50
Date Received: 10/28/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.516		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00124		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Barium, Total	0.01372		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Boron, Total	0.021	J	mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6010D	SV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Calcium, Total	19.4		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6010D	SV
Chromium, Total	0.00098	J	mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00051		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Copper, Total	0.00321		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Iron, Total	1.06		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Lead, Total	0.00084	J	mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Magnesium, Total	5.32		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6010D	SV
Manganese, Total	0.05162		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 14:01	EPA 7470A	1,7470A	NB
Nickel, Total	0.00183	J	mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Potassium, Total	3.26		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Sodium, Total	13.3		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Zinc, Total	0.02192		mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 14:02	EPA 3005A	1,6020B	CD
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	70.3		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 13:43	EPA 3005A	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1566772-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/04/21 18:26	11/05/21 10:52	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1566774-1										
Boron, Total	ND		mg/l	0.030	0.002	1	11/04/21 18:26	11/05/21 10:24	1,6010D	SV
Calcium, Total	ND		mg/l	0.100	0.035	1	11/04/21 18:26	11/05/21 10:24	1,6010D	SV
Magnesium, Total	ND		mg/l	0.100	0.015	1	11/04/21 18:26	11/05/21 10:24	1,6010D	SV

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01-05 Batch: WG1566774-1										
Hardness	ND		mg/l	0.660	NA	1	11/04/21 18:26	11/05/21 10:24	1,6010D	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1566775-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/04/21 16:02	11/05/21 13:21	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1568681-1										
Aluminum, Dissolved	0.00349	J	mg/l	0.0100	0.00327	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Antimony, Dissolved	0.00084	J	mg/l	0.00400	0.00042	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS

Project Name: ORANGE COUNTY LF **Lab Number:** L2159357

Project Number: 2010-15 (TASK 500) **Report Date:** 11/12/21

Method Blank Analysis
Batch Quality Control

Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Manganese, Dissolved	0.00108	J	mg/l	0.00150	0.00044	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Thallium, Dissolved	0.00041	J	mg/l	0.00200	0.00014	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS
Zinc, Dissolved	0.00944	J	mg/l	0.01000	0.00341	1	11/09/21 12:01	11/10/21 12:20	1,6020B	PS

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1568684-1										
Boron, Dissolved	ND		mg/l	0.030	0.002	1	11/09/21 12:01	11/10/21 11:02	1,6010D	SV
Calcium, Dissolved	ND		mg/l	0.100	0.035	1	11/09/21 12:01	11/10/21 11:02	1,6010D	SV
Magnesium, Dissolved	ND		mg/l	0.100	0.015	1	11/09/21 12:01	11/10/21 11:02	1,6010D	SV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Hardness by SM 2340B - Mansfield Lab for sample(s): 01-02 Batch: WG1568684-1										
Hardness	ND		mg/l	0.660	NA	1	11/09/21 12:01	11/10/21 11:02	1,6010D	SV

Prep Information

Digestion Method: EPA 3005A

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1568685-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/09/21 10:44	11/10/21 09:38	1,7470A	AC

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1566772-2								
Aluminum, Total	97		-		80-120	-		
Antimony, Total	90		-		80-120	-		
Arsenic, Total	100		-		80-120	-		
Barium, Total	97		-		80-120	-		
Beryllium, Total	100		-		80-120	-		
Cadmium, Total	101		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	94		-		80-120	-		
Copper, Total	98		-		80-120	-		
Iron, Total	101		-		80-120	-		
Lead, Total	100		-		80-120	-		
Manganese, Total	95		-		80-120	-		
Nickel, Total	96		-		80-120	-		
Potassium, Total	95		-		80-120	-		
Selenium, Total	98		-		80-120	-		
Silver, Total	103		-		80-120	-		
Sodium, Total	97		-		80-120	-		
Thallium, Total	95		-		80-120	-		
Vanadium, Total	97		-		80-120	-		
Zinc, Total	98		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1566774-2					
Boron, Total	113	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-05 Batch: WG1566774-2					
Hardness	101	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1566775-2					
Mercury, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1568681-2					
Aluminum, Dissolved	99	-	80-120	-	
Antimony, Dissolved	83	-	80-120	-	
Arsenic, Dissolved	102	-	80-120	-	
Barium, Dissolved	98	-	80-120	-	
Beryllium, Dissolved	100	-	80-120	-	
Cadmium, Dissolved	97	-	80-120	-	
Chromium, Dissolved	94	-	80-120	-	
Cobalt, Dissolved	92	-	80-120	-	
Copper, Dissolved	95	-	80-120	-	
Iron, Dissolved	96	-	80-120	-	
Lead, Dissolved	98	-	80-120	-	
Manganese, Dissolved	97	-	80-120	-	
Nickel, Dissolved	92	-	80-120	-	
Potassium, Dissolved	99	-	80-120	-	
Selenium, Dissolved	103	-	80-120	-	
Silver, Dissolved	100	-	80-120	-	
Sodium, Dissolved	99	-	80-120	-	
Thallium, Dissolved	107	-	80-120	-	
Vanadium, Dissolved	94	-	80-120	-	
Zinc, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1568684-2					
Boron, Dissolved	107	-	80-120	-	
Calcium, Dissolved	102	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 Batch: WG1568684-2					
Hardness	106	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1568685-2					
Mercury, Dissolved	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566772-3 QC Sample: L2159038-01 Client ID: MS Sample												
Aluminum, Total	0.0350J	2	1.96	98		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.3461	**69**	Q	-	-		75-125	-		20
Arsenic, Total	0.00917	0.12	0.1064	81		-	-		75-125	-		20
Barium, Total	0.4775	2	2.432	98		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.04793	96		-	-		75-125	-		20
Cadmium, Total	ND	0.053	0.05164	97		-	-		75-125	-		20
Chromium, Total	0.02349	0.2	0.2115	94		-	-		75-125	-		20
Cobalt, Total	0.01023	0.5	0.4657	91		-	-		75-125	-		20
Copper, Total	0.01090	0.25	0.2397	92		-	-		75-125	-		20
Iron, Total	7.10	1	8.55	**145**	Q	-	-		75-125	-		20
Lead, Total	ND	0.53	0.4932	93		-	-		75-125	-		20
Manganese, Total	0.8573	0.5	1.387	106		-	-		75-125	-		20
Nickel, Total	0.04274	0.5	0.4963	91		-	-		75-125	-		20
Potassium, Total	240.	10	261	**210**	Q	-	-		75-125	-		20
Selenium, Total	ND	0.12	0.111	92		-	-		75-125	-		20
Silver, Total	ND	0.05	0.03574	**71**	Q	-	-		75-125	-		20
Sodium, Total	782.	10	842	**600**	Q	-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1139	95		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4745	95		-	-		75-125	-		20
Zinc, Total	ND	0.5	0.4775	96		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-3 QC Sample: L2159038-01 Client ID: MS Sample										
Boron, Total	5.82	1	7.15	**133**	Q	-	-	75-125	-	20
Calcium, Total	233	10	248	**150**	Q	-	-	75-125	-	20
Magnesium, Total	91.6	10	102	104		-	-	75-125	-	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-3 QC Sample: L2159038-01 Client ID: MS Sample										
Hardness	960	66.2	1040	121		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566775-3 QC Sample: L2159357-01 Client ID: MW-3B										
Mercury, Total	ND	0.005	0.00486	97		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568681-3 QC Sample: L2159357-01 Client ID: MW-3B									
Aluminum, Dissolved	0.00397J	2	2.00	100	-	-	75-125	-	20
Antimony, Dissolved	0.00061J	0.5	0.5061	101	-	-	75-125	-	20
Arsenic, Dissolved	0.03485	0.12	0.1639	108	-	-	75-125	-	20
Barium, Dissolved	0.3991	2	2.360	98	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04687	94	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05100	96	-	-	75-125	-	20
Chromium, Dissolved	0.00032J	0.2	0.1875	94	-	-	75-125	-	20
Cobalt, Dissolved	0.00026J	0.5	0.4657	93	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2386	95	-	-	75-125	-	20
Iron, Dissolved	ND	1	1.07	107	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.4912	93	-	-	75-125	-	20
Manganese, Dissolved	0.9218	0.5	1.421	100	-	-	75-125	-	20
Nickel, Dissolved	0.00518	0.5	0.4696	93	-	-	75-125	-	20
Potassium, Dissolved	6.57	10	16.6	100	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.124	103	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05024	100	-	-	75-125	-	20
Sodium, Dissolved	46.1	10	54.4	83	-	-	75-125	-	20
Thallium, Dissolved	0.00041J	0.12	0.1300	108	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4754	95	-	-	75-125	-	20
Zinc, Dissolved	0.01032	0.5	0.4972	97	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-3 QC Sample: L2159357-01 Client ID: MW-3B									
Boron, Dissolved	0.198	1	1.31	111	-	-	75-125	-	20
Calcium, Dissolved	139	10	148	90	-	-	75-125	-	20
Magnesium, Dissolved	39.6	10	50.2	106	-	-	75-125	-	20
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-3 QC Sample: L2159357-01 Client ID: MW-3B									
Hardness	510	66.2	576	100	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568685-3 QC Sample: L2159357-02 Client ID: PZ-4									
Mercury, Dissolved	ND	0.005	0.00466	93	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566772-4 QC Sample: L2159038-01 Client ID: DUP Sample						
Aluminum, Total	0.0350J	0.0384J	mg/l	NC		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00917	0.00940	mg/l	3		20
Barium, Total	0.4775	0.5012	mg/l	5		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.02349	0.02452	mg/l	4		20
Cobalt, Total	0.01023	0.01110	mg/l	8		20
Copper, Total	0.01090	0.01117	mg/l	2		20
Iron, Total	7.10	7.31	mg/l	3		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.8573	0.8775	mg/l	2		20
Nickel, Total	0.04274	0.04470	mg/l	4		20
Potassium, Total	240.	250	mg/l	4		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	782.	809	mg/l	3		20
Thallium, Total	ND	0.00247J	mg/l	NC		20
Vanadium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566772-4 QC Sample: L2159038-01 Client ID: DUP Sample					
Zinc, Total	ND	0.03453J	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-4 QC Sample: L2159038-01 Client ID: DUP Sample					
Boron, Total	5.82	5.87	mg/l	1	20
Calcium, Total	233	232	mg/l	0	20
Magnesium, Total	91.6	89.8	mg/l	2	20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-4 QC Sample: L2159038-01 Client ID: DUP Sample					
Hardness	960	949	mg/l	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566775-4 QC Sample: L2159357-01 Client ID: MW-3B					
Mercury, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568681-4 QC Sample: L2159357-01 Client ID: MW-3B					
Aluminum, Dissolved	0.00397J	0.00619J	mg/l	NC	20
Antimony, Dissolved	0.00061J	0.00101J	mg/l	NC	20
Arsenic, Dissolved	0.03485	0.03472	mg/l	0	20
Barium, Dissolved	0.3991	0.3857	mg/l	3	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.00032J	0.00019J	mg/l	NC	20
Cobalt, Dissolved	0.00026J	0.00025J	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	ND	0.0262J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	0.9218	0.9097	mg/l	1	20
Nickel, Dissolved	0.00518	0.00488	mg/l	6	20
Potassium, Dissolved	6.57	6.43	mg/l	2	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	46.1	45.5	mg/l	1	20
Thallium, Dissolved	0.00041J	0.00109J	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568681-4 QC Sample: L2159357-01 Client ID: MW-3B					
Zinc, Dissolved	0.01032	0.00896J	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-4 QC Sample: L2159357-01 Client ID: MW-3B					
Boron, Dissolved	0.198	0.197	mg/l	1	20
Calcium, Dissolved	139	136	mg/l	2	20
Magnesium, Dissolved	39.6	38.8	mg/l	2	20
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-4 QC Sample: L2159357-01 Client ID: MW-3B					
Hardness	510	500	mg/l	2	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568685-4 QC Sample: L2159357-02 Client ID: PZ-4					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566772-6 QC Sample: L2159038-01 Client ID: DUP Sample						
Barium, Total	0.4775	0.4418	mg/l	7		20
Manganese, Total	0.8573	0.8778	mg/l	2		20
Potassium, Total	240.	242.	mg/l	1		20
Sodium, Total	782.	753.	mg/l	4		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-6 QC Sample: L2159038-01 Client ID: DUP Sample						
Boron, Total	5.82	5.58	mg/l	4		20
Calcium, Total	233	217	mg/l	7		20
Magnesium, Total	91.6	89.0	mg/l	3		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1566774-6 QC Sample: L2159038-01 Client ID: DUP Sample						
Hardness	960	910	mg/l	5		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568681-6 QC Sample: L2159357-01 Client ID: MW-3B						
Arsenic, Dissolved	0.03485	0.03725	mg/l	7		20
Barium, Dissolved	0.3991	0.3997	mg/l	0		20
Manganese, Dissolved	0.9218	0.9460	mg/l	3		20
Potassium, Dissolved	6.57	6.37	mg/l	3		20
Sodium, Dissolved	46.1	45.1	mg/l	2		20

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-6 QC Sample: L2159357-01 Client ID: MW-3B					
Calcium, Dissolved	139	140	mg/l	1	20
Magnesium, Dissolved	39.6	39.8	mg/l	1	20
Dissolved Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1568684-6 QC Sample: L2159357-01 Client ID: MW-3B					
Hardness	510	514	mg/l	1	20

INORGANICS
&
MISCELLANEOUS

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-01
Client ID: MW-3B
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 09:55
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	10/29/21 17:57	121,2120B	AS
Alkalinity, Total	498.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	640		mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 13:21	1,9010C/9012B	CS
Nitrogen, Ammonia	5.84		mg/l	0.075	0.024	1	11/06/21 14:45	11/09/21 19:52	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/29/21 08:27	44,353.2	MR
Nitrogen, Total Kjeldahl	6.48		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:31	4,351.1	AT
Chemical Oxygen Demand	4.8	J	mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:47	44,410.4	TL
Total Organic Carbon	3.43		mg/l	0.500	0.114	1	-	11/10/21 09:46	121,5310C	SD
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:35	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:09	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	1.23		mg/l	0.250	0.066	5	-	11/10/21 20:07	44,300.0	AT
Chloride	44.6		mg/l	2.50	0.420	5	-	11/10/21 20:07	44,300.0	AT
Sulfate	27.4		mg/l	5.00	2.27	5	-	11/10/21 20:07	44,300.0	AT

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-02
Client ID: PZ-4
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 11:20
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	N/A		A.P.C.U.	5	5.0	1	-	10/29/21 17:57	121,2120B	AS
Alkalinity, Total	558.		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	800		mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 13:24	1,9010C/9012B	CS
Nitrogen, Ammonia	0.420		mg/l	0.150	0.048	2	11/06/21 14:45	11/09/21 19:53	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/29/21 08:28	44,353.2	MR
Nitrogen, Total Kjeldahl	0.650		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:32	4,351.1	AT
Chemical Oxygen Demand	16.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:47	44,410.4	TL
Total Organic Carbon	1.81		mg/l	0.500	0.114	1	-	11/10/21 09:46	121,5310C	SD
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:40	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:09	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	1.30		mg/l	0.250	0.066	5	-	11/10/21 20:18	44,300.0	AT
Chloride	53.4		mg/l	2.50	0.420	5	-	11/10/21 20:18	44,300.0	AT
Sulfate	79.9		mg/l	5.00	2.27	5	-	11/10/21 20:18	44,300.0	AT

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-03
Client ID: SW-5
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 11:30
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	120		A.P.C.U.	25	25.	5	-	10/29/21 17:57	121,2120B	AS
Alkalinity, Total	67.8		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	140		mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 13:25	1,9010C/9012B	CS
Nitrogen, Ammonia	0.108		mg/l	0.075	0.024	1	11/06/21 14:45	11/09/21 19:54	44,350.1	AT
Nitrogen, Nitrate	1.2		mg/l	0.10	0.023	1	-	10/29/21 08:33	44,353.2	MR
Nitrogen, Total Kjeldahl	0.907		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:33	4,351.1	AT
Chemical Oxygen Demand	34.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:48	44,410.4	TL
Total Organic Carbon	11.6		mg/l	1.00	0.228	2	-	11/10/21 09:46	121,5310C	SD
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:41	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:10	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.162		mg/l	0.050	0.013	1	-	11/10/21 23:46	44,300.0	AT
Chloride	21.6		mg/l	0.500	0.083	1	-	11/10/21 23:46	44,300.0	AT
Sulfate	11.4		mg/l	1.00	0.454	1	-	11/10/21 23:46	44,300.0	AT

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-04
Client ID: SW-8
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 10:15
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	110		A.P.C.U.	25	25.	5	-	10/29/21 17:57	121,2120B	AS
Alkalinity, Total	51.7		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	130		mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 13:26	1,9010C/9012B	CS
Nitrogen, Ammonia	0.102		mg/l	0.075	0.024	1	11/06/21 14:45	11/09/21 19:55	44,350.1	AT
Nitrogen, Nitrate	1.2		mg/l	0.10	0.023	1	-	10/29/21 08:35	44,353.2	MR
Nitrogen, Total Kjeldahl	1.12		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:34	4,351.1	AT
Chemical Oxygen Demand	40.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:48	44,410.4	TL
Total Organic Carbon	11.4		mg/l	1.00	0.228	2	-	11/10/21 09:46	121,5310C	SD
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:41	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:10	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.143		mg/l	0.050	0.013	1	-	11/10/21 23:57	44,300.0	AT
Chloride	22.0		mg/l	0.500	0.083	1	-	11/10/21 23:57	44,300.0	AT
Sulfate	10.3		mg/l	1.00	0.454	1	-	11/10/21 23:57	44,300.0	AT

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

SAMPLE RESULTS

Lab ID: L2159357-05
Client ID: SW-13
Sample Location: GOSHEN, NY

Date Collected: 10/28/21 11:50
Date Received: 10/28/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	76		A.P.C.U.	10	10.	2	-	10/29/21 17:57	121,2120B	AS
Alkalinity, Total	50.7		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
Solids, Total Dissolved	120		mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 13:27	1,9010C/9012B	CS
Nitrogen, Ammonia	0.063	J	mg/l	0.075	0.024	1	11/06/21 14:45	11/09/21 19:56	44,350.1	AT
Nitrogen, Nitrate	1.2		mg/l	0.10	0.023	1	-	10/29/21 08:36	44,353.2	MR
Nitrogen, Total Kjeldahl	0.865		mg/l	0.300	0.066	1	11/08/21 22:19	11/09/21 18:34	4,351.1	AT
Chemical Oxygen Demand	47.		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:48	44,410.4	TL
Total Organic Carbon	11.5		mg/l	1.00	0.228	2	-	11/10/21 09:46	121,5310C	SD
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:42	4,420.1	KP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:10	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.146		mg/l	0.050	0.013	1	-	11/11/21 00:08	44,300.0	AT
Chloride	22.2		mg/l	0.500	0.083	1	-	11/11/21 00:08	44,300.0	AT
Sulfate	10.3		mg/l	1.00	0.454	1	-	11/11/21 00:08	44,300.0	AT

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)
Lab Number: L2159357
Report Date: 11/12/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1564678-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	10/29/21 07:50	10/29/21 08:03	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1565775-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	11/01/21 21:15	11/01/21 23:45	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1565881-1										
Solids, Total Dissolved	7.0	J	mg/l	10	3.1	1	-	11/02/21 09:50	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1566404-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.023	1	-	10/29/21 05:56	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1567600-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	11/05/21 10:14	121,2320B	JB
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1568033-1										
Nitrogen, Ammonia	0.024	J	mg/l	0.075	0.024	1	11/06/21 14:45	11/09/21 19:40	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1568704-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	11/08/21 22:19	11/09/21 18:28	4,351.1	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1568798-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	11/09/21 07:14	11/09/21 11:33	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1569484-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	11/10/21 09:46	121,5310C	SD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1569521-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	11/10/21 17:00	11/11/21 12:54	1,9010C/9012B	CS
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG1569847-1										
Bromide	ND		mg/l	0.050	0.013	1	-	11/10/21 17:56	44,300.0	AT
Chloride	ND		mg/l	0.500	0.083	1	-	11/10/21 17:56	44,300.0	AT
Sulfate	ND		mg/l	1.00	0.454	1	-	11/10/21 17:56	44,300.0	AT

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1564678-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1565775-2								
Chemical Oxygen Demand	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1565881-2								
Solids, Total Dissolved	86		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1566404-2								
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1567600-2								
Alkalinity, Total	92		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1568033-2								
Nitrogen, Ammonia	99		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1568704-2								
Nitrogen, Total Kjeldahl	104		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1568798-2					
Phenolics, Total	93	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1569484-2					
Total Organic Carbon	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1569521-2 WG1569521-3					
Cyanide, Total	105	100	85-115	5	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG1569847-2					
Bromide	96	-	90-110	-	
Chloride	99	-	90-110	-	
Sulfate	98	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1564678-4 QC Sample: L2159357-02 Client ID: PZ-4												
Chromium, Hexavalent	ND	0.1	0.106	106		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1565775-3 QC Sample: L2158945-05 Client ID: MS Sample												
Chemical Oxygen Demand	9.2J	47.6	53	**111**	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1566404-4 QC Sample: L2159748-25 Client ID: MS Sample												
Nitrogen, Nitrate	0.14	4	4.5	109		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1567600-4 QC Sample: L2158658-21 Client ID: MS Sample												
Alkalinity, Total	1130	500	1340	**43**	Q	-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568033-4 QC Sample: L2161217-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.180	4	3.72	**88**	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568704-4 QC Sample: L2158945-05 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.400	8	8.04	96		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568798-4 QC Sample: L2159357-01 Client ID: MW-3B												
Phenolics, Total	ND	0.4	0.32	81		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1569484-3 QC Sample: L2159040-04 Client ID: MS Sample												
Total Organic Carbon	4.65	16	21.3	104		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1569521-4 WG1569521-5 QC Sample: L2159038-01 Client ID: MS Sample												
Cyanide, Total	0.006	0.2	0.188	91		0.160	**77**	Q	80-120	16		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1569847-3 QC Sample: L2159357-01 Client ID: MW-3B										
Bromide	1.23	2	3.06	91		-	-	90-110	-	20
Chloride	44.6	20	66.8	**111**	Q	-	-	90-110	-	18
Sulfate	27.4	40	71.2	110		-	-	90-110	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1564678-3 QC Sample: L2159357-01 Client ID: MW-3B						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1565056-1 QC Sample: L2159357-05 Client ID: SW-13						
Color, Apparent	76	80	A.P.C.U.	5		
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1565775-4 QC Sample: L2158945-05 Client ID: DUP Sample						
Chemical Oxygen Demand	9.2J	11	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1565881-3 QC Sample: L2159225-01 Client ID: DUP Sample						
Solids, Total Dissolved	190	170	mg/l	**11**	Q	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1566404-3 QC Sample: L2159748-25 Client ID: DUP Sample						
Nitrogen, Nitrate	0.14	0.12	mg/l	**15**	Q	6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1567600-3 QC Sample: L2158658-21 Client ID: DUP Sample						
Alkalinity, Total	1130	912	mg CaCO3/L	**21**	Q	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568033-3 QC Sample: L2161217-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.180	0.189	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568704-3 QC Sample: L2158945-05 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.400	0.993	mg/l	**85**	Q	24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1568798-3 QC Sample: L2159357-01 Client ID: MW-3B						
Phenolics, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: ORANGE COUNTY LF

Project Number: 2010-15 (TASK 500)

Lab Number: L2159357

Report Date: 11/12/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1569484-4 QC Sample: L2159040-04 Client ID: DUP Sample					
Total Organic Carbon	4.65	4.58	mg/l	2	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1569847-4 QC Sample: L2159357-01 Client ID: MW-3B					
Bromide	1.23	1.35	mg/l	9	20
Chloride	44.6	49.7	mg/l	11	18
Sulfate	27.4	31.4	mg/l	14	20

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159357-01A	Vial H2SO4 preserved	B	NA		5.0	Y	Absent		TOC-5310(28)
L2159357-01B	Vial H2SO4 preserved	B	NA		5.0	Y	Absent		TOC-5310(28)
L2159357-01C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-01D	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-01E	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-01F	Amber 250ml unpreserved	B	7	7	5.0	Y	Absent		COLOR-A-2120(2)
L2159357-01G	Plastic 250ml unpreserved	B	7	7	5.0	Y	Absent		HEXCR-7196(1)
L2159357-01H	Plastic 250ml unpreserved/No Headspace	B	NA		5.0	Y	Absent		ALK-T-2320(14)
L2159357-01I	Plastic 250ml unpreserved	B	7	7	5.0	Y	Absent		-
L2159357-01J	Plastic 250ml HNO3 preserved	B	<2	<2	5.0	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),B-TI(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CO-6020T(180),CA-TI(180),HARDT(180)
L2159357-01K	Plastic 250ml NaOH preserved	B	>12	>12	5.0	Y	Absent		TCN-9010(14)
L2159357-01L	Plastic 500ml H2SO4 preserved	B	<2	<2	5.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2159357-01M	Plastic 950ml unpreserved	B	7	7	5.0	Y	Absent		SO4-300(28),CL-300(28),NO3-353(2),BR-300(28),TDS-2540(7)
L2159357-01N	Amber 950ml H2SO4 preserved	B	<2	<2	5.0	Y	Absent		NY-TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159357-01W	Plastic 120ml HNO3 preserved Filtrates	B	NA		5.0	Y	Absent		K-6020S(180),SE-6020S(180),V-6020S(180),B-SI(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),FE-6020S(180),CR-6020S(180),PB-6020S(180),NA-6020S(180),TL-6020S(180),BA-6020S(180),NI-6020S(180),HARDS(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),MG-SI(180),CD-6020S(180),AL-6020S(180),CA-SI(180),HG-S(28)
L2159357-02A	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-02B	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-02C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-02D	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-02E	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-02F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		COLOR-A-2120(2)
L2159357-02G	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		HEXCR-7196(1)
L2159357-02H	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2159357-02I	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		-
L2159357-02J	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),B-TI(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),AG-6020T(180),MG-TI(180),HARDT(180),CA-TI(180),CO-6020T(180)
L2159357-02K	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2159357-02L	Plastic 500ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2159357-02M	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7),NO3-353(2)
L2159357-02N	Amber 950ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159357-02W	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.4	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),B-SI(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),PB-6020S(180),HARDS(180),NA-6020S(180),TL-6020S(180),BA-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),MG-SI(180),HG-S(28),AL-6020S(180),CA-SI(180),CD-6020S(180)
L2159357-03A	Vial H2SO4 preserved	B	NA		5.0	Y	Absent		TOC-5310(28)
L2159357-03B	Vial H2SO4 preserved	B	NA		5.0	Y	Absent		TOC-5310(28)
L2159357-03C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-03D	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-03E	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-03F	Amber 250ml unpreserved	B	7	7	5.0	Y	Absent		COLOR-A-2120(2)
L2159357-03G	Plastic 250ml unpreserved	B	7	7	5.0	Y	Absent		HEXCR-7196(1)
L2159357-03H	Plastic 250ml unpreserved/No Headspace	B	NA		5.0	Y	Absent		ALK-T-2320(14)
L2159357-03I	Plastic 250ml HNO3 preserved	B	<2	<2	5.0	Y	Absent		FE-6020T(180),BA-6020T(180),TL-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),B-TI(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AL-6020T(180),MG-TI(180),AG-6020T(180),HG-T(28),CD-6020T(180),HARDT(180),CA-TI(180),CO-6020T(180)
L2159357-03J	Plastic 250ml NaOH preserved	B	>12	>12	5.0	Y	Absent		TCN-9010(14)
L2159357-03K	Plastic 500ml H2SO4 preserved	B	<2	<2	5.0	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2159357-03L	Plastic 950ml unpreserved	B	7	7	5.0	Y	Absent		SO4-300(28),CL-300(28),TDS-2540(7),BR-300(28),NO3-353(2)
L2159357-03M	Amber 950ml H2SO4 preserved	B	<2	<2	5.0	Y	Absent		NY-TPHENOL-420(28)
L2159357-04A	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-04B	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-04C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-04D	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-04E	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159357-04F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		COLOR-A-2120(2)
L2159357-04G	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		HEXCR-7196(1)
L2159357-04H	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2159357-04I	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),MG-TI(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),HARDT(180),CO-6020T(180),CA-TI(180)
L2159357-04J	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2159357-04K	Plastic 500ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2159357-04L	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		SO4-300(28),CL-300(28),TDS-2540(7),BR-300(28),NO3-353(2)
L2159357-04M	Amber 950ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2159357-05A	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-05B	Vial H2SO4 preserved	A	NA		3.4	Y	Absent		TOC-5310(28)
L2159357-05C	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-05D	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-05E	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-05F	Amber 250ml unpreserved	A	7	7	3.4	Y	Absent		COLOR-A-2120(2)
L2159357-05G	Plastic 250ml unpreserved	A	7	7	3.4	Y	Absent		HEXCR-7196(1)
L2159357-05H	Plastic 250ml unpreserved/No Headspace	A	NA		3.4	Y	Absent		ALK-T-2320(14)
L2159357-05I	Plastic 250ml HNO3 preserved	A	<2	<2	3.4	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),MG-TI(180),AL-6020T(180),CD-6020T(180),HG-T(28),HARDT(180),CA-TI(180),CO-6020T(180)
L2159357-05J	Plastic 250ml NaOH preserved	A	>12	>12	3.4	Y	Absent		TCN-9010(14)
L2159357-05K	Plastic 500ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-350(28)
L2159357-05L	Plastic 950ml unpreserved	A	7	7	3.4	Y	Absent		SO4-300(28),CL-300(28),TDS-2540(7),NO3-353(2),BR-300(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY LF
Project Number: 2010-15 (TASK 500)

Lab Number: L2159357
Report Date: 11/12/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2159357-05M	Amber 950ml H2SO4 preserved	A	<2	<2	3.4	Y	Absent		NY-TPHENOL-420(28)
L2159357-06A	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)
L2159357-06B	Vial HCl preserved	B	NA		5.0	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	ORANGE COUNTY LF	**Lab Number:**	L2159357
Project Number:	2010-15 (TASK 500)	**Report Date:**	11/12/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 10/28/21

ALPHA Job #: L2159357

Client Information
Client: Sterling Env
Address: 24 J Wade Rd
Latham NY 12110
Phone: 518 456-4900
Fax:
Email:

Project Information
Project Name: Orange County LF
Project Location: Goshen, NY
Project #: 2010-15 (Task 500)
(Use Project name as Project #)
Project Manager: Andrew Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☒ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOL	HACH, TDS, Soy, Br	Cl, NO3	Total metals* Hardness	COD, TKN, NH3	NYTCL 8260 VOCs	TCN	Alkalinity	Sample Specific Comments	Total # Bottles
59357-01	MW-3B	10-28-21	955	GW	PWS	X	X	X	X	X	X	X	X		11
02	PZ-4		1120	GW		X	X	X	X	X	X	X	X		11
03	SW-5		1015	SW		X	X	X	X	X	X	X	X		11
04	SW-8		1130	SW		X	X	X	X	X	X	X	X		11
05	SW-13		1150	SW		X	X	X	X	X	X	X	X		11
06	TB10282021	↓	—	LW	↓						X				2

Container Type: V | P | P | P | P | V | P | P
Preservative: D | A | A | C | D | B | E | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10-28-21 1850	Secured Storage	10/28/21 18:50
Secured Storage	10/28/21 21:30		10/28/21 21:30
	10/28/21 21:30		10/29/21 01:41

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 10/28/21

ALPHA Job #: L2159357

Client Information

Client: Sterling Env
Address: 24 Wolfe Rd
Latham, NY 12110
Phone: 518 456-4900
Fax:
Email:

Project Information

Project Name: Orange County LF
Project Location: Goshen, NY
Project #: 2010-15 (Task 500)
(Use Project name as Project #) ☐
Project Manager: Andrew Millspaugh
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☒ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	T-Phenol	Color	Dissolved Metals*					Sample Specific Comments	Total Bottles
59357-01	MW-3B	10-28-21	955	GW		X	X	X						3
02	~~MW-05~~ PZ-4		1120	GW		X	X	X						3
03	SW-5		1015	SW		X	X							2
04	SW-8		1130	SW		X	X							2
05	SW-13		1150	SW		X	X							2

Container Type: A A P
Preservative: D A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	10-28-21 1850	Secured Storage	10/28/21 1850
Secured Storage	10/28/21 2130		10/28/21 2130
	10/28/21 2130		10/29/21 0140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)