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April 13, 2017

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Mr. Bradford Shaw, P.E.
NYS Department of Environmental Conservation
RCRA Permitting Section
Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

Subject: Orange County Landfill
NYSDEC Site No. 336007
2016 Periodic Review Report
STERLING File #2010-15

Dear Mr. Shaw,

In accordance with the approved Site Management Plan, enclosed please find the Periodic Review Report for the January 1, 2016 through December 31, 2016 period.

Please contact me should you have questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.
President
mark.millspaugh@sterlingenvironmental.com

MPM/bc
Email/First Class Mail
Enclosure

cc: Peter S. Hammond, Orange County (phammond@co.orange.ny.us)
Joseph F. Mahoney Esq. (JJMahoney@orangecountygov.com)

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2016 PERIODIC REVIEW REPORT
(January 1, 2016 – January 31, 2017

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

Prepared for:

Orange County Department of Public Works
Division of Environmental Facilities and Services
P.O. Box 637
2455-2459 Route 17M
Goshen, New York 10924

Prepared by:

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

April 13, 2017

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

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CERTIFICATION

I, Mark P. 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.

Mark P. Millspaugh, P.E.

4/13/17
Date

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 No. 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 01. 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, regular inspections and maintenance activities. Post-closure water and air quality monitoring, leachate removal, 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.

An annual Periodic Review Report (PRR) is required to document site management activities outlined in the SMP. This PRR covers the period January 1, 2016 to January 31, 2017.

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. Discolored groundwater seeps exhibiting some leachate characteristics have been observed along the banks of the Cheechunk Canal, downgradient of the Landfill. In 2016, the County completed the Supplemental Sediment Investigation (SSI) and submitted the SSI Report on August 19, 2016; completed the Constructed Wetland Treatment System Feasibility Study; submitted a revised Remedial Action Work Plan (RAWP) to the NYSDEC addressing the observed seeps; and conducted weekly inspections of the seep locations.

Based on the results of activities performed in 2016 through January 2017, no 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, including additional required submittals and actions addressing the seeps, is recommended.

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.

An annual PRR is required to document site management activities outlined in the SMP. This PRR covers the period January 1, 2016 to January 31, 2017.

1.1 Summary of Site Contamination and Site History

The NYSDEC issued a Record of Decision (ROD) on January 28, 1994 for Operable Unit No. 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 01. 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, regular inspections and maintenance activities. Post-closure water and air quality monitoring, leachate removal, 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.

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 run-off and direct human/animal contact with waste is eliminated, and Landfill gas migration/buildup is prevented. Discolored groundwater seeps exhibiting some leachate characteristics have been observed along the banks of the Cheechunk Canal, downgradient of the Landfill. In 2016, the County completed the Supplemental Sediment Investigation (SSI) and submitted the SSI Report on August 19, 2016; completed the Constructed Wetland Treatment System Feasibility Study; submitted a revised Remedial Action Work Plan (RAWP) to the NYSDEC addressing the observed seeps; and conducted weekly inspections of the seep locations.

1.3 Recommendations

Based on the results of activities performed in 2016 through January 2017, no 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, including additional required submittals and actions addressing the seeps, is recommended.

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 to the northwest and southwest. To the northwest of the Landfill, a proposed Landfill expansion of an additional 75-acres was intended. The expansion project was never completed nor used for landfilling. To the northeast edge of the Landfill lies a landfill-to-gas energy system facility. The New Hampton Transfer Station is located on the northeast border of the 300-acre parcel.

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, 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, annual air and water quality monitoring, 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 reports to the NYSDEC documenting the Landfill inspection, environmental monitoring, and leachate management activities. Since 2014, the NYSDEC has required annual documentation in the form of a PRR.

This PRR covers inspection, monitoring, operating and maintenance activities, and compliance for the period from January 1, 2016 through January 31, 2017.

3.0 PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

The Landfill has been subject to a Post-Closure Monitoring and Maintenance Program (PCMMM) since January 1996. The PCMMM, revised in January 1999, December 2002 and June 2014, provides for regular site inspections, groundwater, surface water and leachate monitoring, leachate collection and management, mowing, and Landfill gas management. Monitoring 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 concentrations of turbidity, 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 1998)). Historically, leachate indicator parameters such as alkalinity, ammonia, Chemical Oxygen Demand (COD), chloride, sulfate, TDS, TKN, and Total Organic Carbon (TOC) along with inorganic compounds such as iron, magnesium, manganese, potassium, and sodium were evaluated.

Groundwater quality results in 2017 indicate no significant differences in data trends where exceedances were historically observed.

The chart below shows where the highest concentration areas for certain parameters are:

Parameter	Highest Concentration Areas
Alkalinity	MW-3B and PZ-4
Ammonia	MW-3B and MW-245D
COD	MW-245S
Chloride	MW-233D
Sulfate	MW-220 and MW-233S
TDS	MW-220 and PZ-4
TKN	MW-233S
TOC	MW-3B and MW-233S
Iron	MW-220 and MW-245S
Magnesium	MW-220, MW-233S, and PZ-4
Manganese	MW-220, MW-233S, and MW-245S
Potassium	MW-245S and MW-245D
Sodium	MW-233D

As described in Section 4.2.3 below, in 2017 the upgradient well pair MW-233 (MW-233S / MW-233D) was sampled in replacement of upgradient well pair MW-230 (MW-230S / MW-230D). No VOCs were detected at any of the overburden or bedrock monitoring wells sampled in 2017.

The 2017 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. Analytical results for monitoring well samples are summarized in Table 3 and are compared to the NYSDEC TOGS 1.1.1, June 1998.

A detailed summary of reported parameter exceedances for the 2017 event is provided below.

Parameter Exceeding Water Quality Standard (TOGS 1.1.1)	**Monitoring Well Location (Analytical Result)**
Turbidity (5 NTU)	Upgradient Overburden (MW-233S (90.1 NTU)), Upgradient Bedrock (MW-233D (11.51 mg/L)), Downgradient Overburden (MW-3B (5.15 mg/L), MW-220 (277.4 mg/L), and PZ-4 (9.35 mg/L)), and Downgradient Bedrock (MW-245D (12.37 mg/L))
Ammonia (2.0 mg/L)	Downgradient Overburden (MW-3B (2.29 mg/L) and Downgradient Bedrock (MW-245D (4.24 mg/L))
Color* (15 Color Units (CU))	Downgradient Overburden (MW-3B (32 CU), MW-220 (30 CU), and MW-245S (52 CU)), and Downgradient Bedrock (MW-245D (16 CU))
Phenolics (0.001 mg/L)	Upgradient Overburden (MW-233S (0.028 mg/L**)) and Downgradient Overburden (MW-3B (0.007 mg/L**), MW-220 (0.008 mg/L**), and PZ-4 (0.011 mg/L**))
TDS (500 mg/L)	Upgradient Overburden (MW-233S (540 mg/L)), Upgradient Bedrock (MW-233D (550 mg/L)), and Downgradient Overburden (MW-3B (630 mg/L), MW-220 (700 mg/L), MW-245S (630 mg/L), and PZ-4 (720 mg/L))
Arsenic (0.025 mg/L)	Downgradient Overburden (MW-3B (0.0305 mg/L) and MW-245S (0.1686 mg/L))
Iron (0.3 mg/L***)	Upgradient Overburden (MW-233S (0.127 mg/L***)), Downgradient Overburden (MW-3B (0.815 mg/L***), MW-220 (3.63 mg/L***), MW-245S (11.1 mg/L**), and PZ-4 (0.294 mg/L***)), and Downgradient Bedrock (MW-245D (1.17 mg/L***))
Magnesium (35 mg/L)	Upgradient Overburden (MW-233S (46 mg/L)), and Downgradient Overburden (MW-220 (46 mg/L), and PZ-4 (44 mg/L))
Manganese (0.3 mg/L***)	Upgradient Overburden (MW-233S (2.145 mg/L***)), Downgradient Overburden (MW-3B (0.6728 mg/L***), MW-220 (1.571 mg/L***), MW-245S (1.783 mg/L***), and PZ-4 (0.4129 mg/L***)), and Downgradient Bedrock (MW-245D (0.2291 mg/L***))
Sodium (20 mg/L)	Upgradient Bedrock (MW-233D (109 mg/L)), Downgradient Overburden (MW-3B (41.4 mg/L), and MW-245S (51.3 mg/L), and Downgradient Bedrock (MW-245D (51.5 mg/L)

* Standard based on EPA Part 5, Subpart 5-1 Public Water Systems – Tables 1 and 5.

** 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 sum of iron and manganese must not exceed 0.5 mg/L.

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

- MW-3B (Downgradient) - TOGS 1.1.1 exceedances for turbidity, ammonia, color, phenolics, TDS, arsenic, iron, manganese, and sodium were reported. Turbidity, ammonia, TDS, iron, manganese, and sodium have consistently exceeded their applicable standard at this downgradient monitoring well since 2011. The reported result for phenolics is associated with a "J" qualifier which indicates that the result is above the laboratory method detection limit; however, it is approximated below the laboratory reporting limit. TDS, arsenic, iron, manganese, and sodium results slightly decreased from the 2014 and 2015 levels, and appear to be stable and within the published historical range for each analyte. Ammonia, TDS, arsenic, iron, manganese, and sodium concentrations have exhibited a decreasing trend and some analytes are at their lowest levels since 2009 (ammonia, TDS, arsenic, and sodium) or since 1997 (iron and manganese). The reported concentrations for phenolics has increased compared to 2014 and 2015 results.

- MW-220 (Downgradient) – TOGS 1.1.1 exceedances for turbidity, color, phenolics, TDS, iron, magnesium, and manganese were reported during this sampling event. Turbidity, TDS, iron, magnesium, and manganese have consistently exceeded their applicable standard at this downgradient monitoring well. Values of these parameters are comparable to those from 2015. The reported result for phenolics is associated with a "J" qualifier which indicates that the result is above the laboratory method detection limit; however, it is approximated below the laboratory reporting limit. Water quality parameter results for turbidity, TDS, and magnesium were stable and at the lower end of their published historical range. Iron decreased in comparison to 2014 and 2015 results and is also at the lower end of the published historical range. The reported concentrations for phenolics and manganese slightly increased compared to 2014 and 2015 results but were still within their published range.

- MW-233S Upgradient) - TOGS 1.1.1 exceedances for turbidity, phenolics, TDS, iron, magnesium, and manganese were reported during this sampling event. The reported result for phenolics is associated with a "J" qualifier which indicates that the result is above the laboratory method detection limit; however, it is approximated below the laboratory reporting limit. Analytical results for this monitoring well are comparable to the reported results for 2015.

- MW-233D (Upgradient) - TOGS 1.1.1 exceedances for turbidity, TDS, and sodium were reported. Analytical results for this upgradient monitoring well are similar to the reported results for 2015.

- MW-245S (Downgradient) - TOGS 1.1.1 exceedances for color, TDS, arsenic, iron, manganese, and sodium were reported during this sampling event. TDS and manganese results are stable and within the published historical range for each analyte. Arsenic increased from 2015 concentrations but were similar to 2012 and 2014 results. Iron increased from 2015 concentrations but were similar to 2013 and 2014 results and significantly lower than 2012 results. Sodium concentrations slightly increased compared to 2015 results and have steadily risen since 2012; the 2011 sodium results was very similar to the 2017 sodium result.

- MW-245D (Downgradient) - TOGS 1.1.1 exceedances for turbidity, ammonia, color, iron, manganese, and sodium were reported. Turbidity, iron, and sodium consistently exceed their applicable standard. Past TDS results exceeded the TOGS 1.1.1 standard between 2012 and 2015; the 2017 TDS result was less than 500 mg/L standard. Ammonia levels slightly increased compared to 2015 results but are notably lower than 2012, 2013, and 2014 levels. Iron increased

from 2015 concentrations but were less than 2012 results and within the published historical range. Sodium results are also within the published historical range and have slightly dropped since 2014.

- PZ-4 (Downgradient) - TOGS 1.1.1 exceedances for turbidity, phenolics, TDS, iron, magnesium, and manganese were reported during this sampling event. TDS, iron, and manganese have consistently TOGS 1.1.1 standards. The reported result for phenolics is associated with a "J" qualifier which indicates that the result is above the laboratory method detection limit; however, it is approximated below the laboratory reporting limit. Water quality parameter results for turbidity, TDS, and magnesium were stable and at the lower end of the published historical range. Iron decreased from 2012 to 2015 concentrations and is below the historical range and at the lower end of the published historical range. The reported concentrations for phenolics and manganese slightly increased compared to 2014 and 2015 results but were still at the lower end of their published historical range.

3.2 Surface Water Quality

The 2017 analytical data 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 upstream surface water monitoring location SW-13.

Reported concentrations for total aluminum exceeded the TOGS 1.1.1 Class C surface water quality standard of 0.1 mg/L at SW-13 (0.974 mg/L), SW-5 (0.662 mg/L) and SW-8 (1.04 mg/L). Review of historical concentrations (1999 – 2017) indicate that 2017 aluminum results for upstream and downstream samples were elevated but similar to each other and within the upper limits of the historical range.

The surface water samples collected from SW-13 (upstream) and SW-8 (downstream) exceeded the TOGS 1.1.1 Class C surface water quality standard for iron (0.3 mg/L). The 2017 iron result at the upstream location SW-13 (1.72 mg/L) is higher than its historical average, which is also higher than the downstream sample collected at SW-8 (1.67 mg/L). The 2017 iron concentrations at SW-13 and SW-8 were on the higher end of past reported concentrations at those locations.

There were no volatile organic compounds detected above method detection limits in any of the surface water samples collected. No water quality parameters or other total recoverable metals, besides aluminum and iron, exceeded standards or guidance values. A comparison of upstream (background conditions) to downstream water quality indicates that no downstream surface water results exceeded upstream conditions, including water quality parameters such as alkalinity, ammonia, chloride, magnesium, and sodium.

3.3 Leachate Quality

The 2017 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 alkalinity, ammonia, COD, chloride, hardness, nitrate, sulfate, TDS, TKN, and TOC and inorganic parameters, including aluminum, antimony, arsenic, barium, boron, calcium, chromium (total), cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, and zinc. Inorganic parameters that were not detected include: beryllium, cadmium, hexavalent chromium, mercury, selenium, silver, and thallium.

The VOCs benzene (12 µg/L) and chlorobenzene (estimated as 19 µg/L) were detected at MH-7; 1,4-dichlorobenzene (estimated as 1.7 µg/L), benzene (0.68 µg/L), chlorobenzene (estimated as 0.76 µg/L), chloroethane (estimated as 2.1 µg/L),and vinyl chloride (estimated as 0.18 µg/L) were detected at MH-15.

3.4 Air Quality

In accordance with the SMP, Landfill gas monitoring consists of measuring explosive gas (Lower Explosive Limit, or LEL) and VOCs in the headspace at each monitoring well/piezometer and leachate manholes MH-7 and MH-15 and along the Landfill perimeter at designated locations shown on Figure 3. Explosive gas measurements were obtained with a QRAE multi-gas monitor while VOC measurements were obtained with a miniRAE 3000 photoionization detector (PID). VOCs are also analyzed in post-closure groundwater and surface water samples.

Explosive gas was detected at wells MW-222, MW-303S, and MW-303D with LEL readings of >100%, >100%, and 4%, respectively. Headspace monitoring at two monitoring well locations, MW-207SA and MW-303S, revealed the presence of VOCs with PID readings of 0.6 parts per million (ppm) and 3.8 ppm, respectively. All other air monitoring locations measured no VOCs and 0% LEL.

A perimeter explosive gas survey was performed on January 26, 2017. Lower Explosive Level (LEL) gas measurements were collected at approximately 100-foot intervals from the subsurface Landfill perimeter from temporary probe holes installed at depths of 12 to 18 inches. A detection of 21% LEL was observed along the western perimeter of the Landfill immediately north of the MW-223 monitoring well pair and immediately south of the perimeter access road. Three (3) additional readings were taken, each ten (10) feet farther from the Landfill perimeter until no explosive gas was detected. The final reading of 0.0% LEL was located approximately 20 feet northwest of the western perimeter access road. This indicates that explosive gas is not migrating off the Landfill property and remains localized. STERLING will continue to monitor explosive gas. The January 2017 air quality monitoring survey for explosive gas, H_2S, 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(f).

3.5 Seeps

In accordance with the SMP, observation for leachate outbreaks is the focus of weekly 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. Further, weekly inspection in the historical leachate seep area included photo-documentation and collection of hydrologic and hydrogeologic data. Based on this information, the surface water level in the historic leachate seep area was lower than the seep elevation line of 357.25 feet amsl during the following periods: June 10, 2016 through July 29, 2016 and August 19, 2016 through November 10, 2016.

Seep samples were not collected during the 2017 PCM sampling event as the water level in the Canal was above the seeps. In support of the ongoing seep evaluation, the County completed the Supplemental Sediment Investigation (SSI) and submitted the SSI Report on August 19, 2016; completed the Constructed Wetland Treatment System Feasibility Study; submitted a revised Remedial Action Work Plan (RAWP) to the NYSDEC addressing the observed seeps; and conducted weekly inspections of the seep locations. The County is poised to complete the Seep Mitigation Work upon NYSDEC's approval of the RAWP and issuance of any required Federal permit.

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 (i.e., 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. A completed Inspection Checklist, Institutional and Engineering Control Form, and select photographs from the annual site inspection and monthly site inspections are provided in Appendix A. The Landfill appears secure, stable, and the Landfill cover is intact with no evidence of stressed vegetation or damage due to settlement or active vectors. No evidence was observed of significant settlement or evidence of erosion of the Landfill cover. There were no observed leachate discharges or iron-stained soils during the Annual Landfill Inspection. The stormwater drainage system appeared to be functioning as designed.

During the monthly post-closure field inspections conducted throughout 2016, the Landfill cover system was observed to be well maintained and remains in good condition. Completed inspection reports are included in Appendix A. No damage to the Landfill cover system was observed. 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 by underground pipes which flow by gravity to sumps. From these sumps, leachate is pumped into aboveground storage tanks (ASTs) where it 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 regarding leachate removal and treatment are provided in Appendix B. Orange County removed 225,322 gallons from Leachate Tanks 1 - 4 and 221,468 gallons from Leachate Tanks 5 - 7 in 2016. The total leachate removed from the Landfill in 2016 was 446,790 gallons for treatment at an offsite permitted facility. The total leachate removed from the Landfill in 2015 was 488,259 gallons

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 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.

Monitoring wells MW-230D and the MW-235 well pair (MW-235S/MW-235D) were damaged by mowing activities. Accordingly, MW-233S (Overburden) and MW-233D (Bedrock) were sampled as substitutes for the upgradient well pair location for the 2017 sampling event. The County will revise the SMP groundwater monitoring program to memorialize the change in upgradient monitoring location from MW-230S/MW-230D to MW-233S/MW-233D, as documented in STERLING's previous Notification Letter to the NYSDEC Project Manager. Section 4.4.3 of the SMP will also be revised to remove MW-235S/MW-235D from the list of monitoring wells required to collect groundwater measurements given that they no longer exist (destroyed by mowing contractor) and groundwater flow patterns are well documented north of the closed Landfill. Overall, the monitoring well network is functioning as designed and Orange County will continue the approved annual monitoring program.

4.2.4 Surface Water Runoff Features

Surface water runoff features are located on and around the Landfill property. Terraces and riprap downchutes on the Landfill waste mass 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 into perimeter drainage ditches into drainage basins to reduce particulates and sediment before it ultimately enters 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 downchutes, and sloughing of the Landfill cover. Appendix A contains documentation of monthly inspections of the surface water runoff features in 2016. Based on the observed conditions, no corrective measures are needed for the surface water management features. Orange County will continue to perform monthly inspections.

4.3 IC/EC Certification

As required by DER-10, Section 6.3(a), the completed and signed NYSDEC IE/EC Certification Form is provided as Appendix C. All ICs/ECs are in place and functioning as designed. The previously noted seeps between the canal and Landfill are the subject of a NYSDEC approved Remedial Action Work Plan.

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 monitoring 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 recently updated 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 twenty-one (21) additional overburden and bedrock monitoring wells and piezometers. 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. These vertical gradients are consistent with historical trends.

During the 2017 sampling event, samples were obtained from seven (7) monitoring wells at four downgradient locations and one upgradient location using low flow methodology and analyzed for 6 NYCRR Part 360 Baseline parameters. Since upgradient bedrock well MW-230D could not be sampled an upgradient sample was collected from the overburden hydrogeologic unit (MW-233S) and bedrock hydrogeologic unit (MW-233D) at the MW-233 well pair, which is located approximately 1,150 feet east of MW-230 well pair and upgradient of the Landfill.

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. Orange County will continue groundwater monitoring according to the approved SMP along with the recommended modification described above.

5.2 Surface Water Monitoring

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

Surface water sampling for the 2017 event included sampling of the three (3) surface water monitoring locations in the Cheechunk Canal. These 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, labeled MH-7 and MH-15, located on the eastern and western edges of the Landfill footprint respectively. During the 2017 monitoring event, leachate samples were collected from MH-7 and MH-15, which 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 will implement the following remedial measures as detailed in the revised Remedial Action Work Plan (RAWP) and approved by the NYSDEC on March 20, 2017:

a) Excavation and removal of impacted soil at the seeps;
b) Installation of recovery well(s);
c) Upgradient groundwater withdrawal by the installed recovery well(s) to eliminate the seeps; and,
d) Offsite transportation and disposal of withdrawn upgradient groundwater.

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 downchutes;
- 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; and,
- Repair or replacement, if necessary, of monitoring wells and piezometers.

Between January 1, 2016 and January 31, 2017, 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 (Appendix A);
- Mowing of the Landfill cover system in June, July, and August, 2016;
- Regular leachate removal from aboveground storage tanks for treatment at permitted facilities (Appendix B);
- Groundwater, surface water, leachate, and air quality monitoring performed on January 25 and 26, 2017 (Field Forms provided in Appendix D); and,
- Weekly inspection of seeps.

Operational issues were addressed by Landfill staff, including:

- It was noted in the October, November and December 2015 inspections that the circuit board for L-1 was not operational. The circuit board was replaced in early January 2016;

- It was noted in the December 2016 inspection report that leachate collection tanks L-2 and L-4 were disconnected due to ice buildup. L-5 had a crack in the connection pipe.

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 between January 1, 2016 through January 31, 2017 reporting period. The components of the remedy subject to O&M requirements (Landfill cover, gas venting and leachate collection systems, surface water runoff features are functioning as designed. The integrity of the monitoring network remains intact although one of the upgradient bedrock monitoring wells (MW-230D) is damaged and the missing MW-235 well pair, used for water level measurements only, is absent. Due to past damage at the MW-230 well pair (MW-230D), upgradient well pair MW-233 (MW-233S/MW-233D) was used as a suitable replacement for the 2017 PCM sampling event. The SMP will be revised accordingly. 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. Orange County will implement the following approved remedial measures in 2017:

a) Tree removal within the sediment removal work zone;
b) Excavate and remove impacted soil at the seep area when USACE permit is issued;
c) Install, develop and test recovery well(s) to withdraw upgradient groundwater; and,
d) Development of an onsite groundwater treatment system as set forth in the RAWP.

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 the reporting period (January 1, 2016 through January 31, 2017):

- 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.

- Applicable TOGS 1.1.1 groundwater standards were exceeded for phenolics, TDS, arsenic, iron, magnesium, manganese and sodium, as described in Section 3.1.

- Groundwater quality results indicate no significant differences in data trends where exceedances were historically observed.

- Applicable TOGS 1.1.1 Class C surface water standards were exceeded for aluminum and iron, 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 no downstream surface water results exceeded upstream conditions, including water quality parameters historically tracked such as alkalinity, ammonia, chloride, hardness, magnesium, and sodium.

- The 2017 analytical results for leachate collected from onsite manholes are consistent with previous results.

- The January 2017 air quality monitoring survey for explosive gas, H_2S, 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(f).

- Monitoring well MW-230D is damaged and monitoring well pair MW-235 is missing, due to mowing activities. The County revised the SMP groundwater monitoring program to memorialize the change in upgradient well pair from MW-230S/MW-230D to MW-233S/MW-233D as

documented in STERLING's previous Notification Letters to the NYSDEC Project Manager. A petition to revise Section 4.4.3 of the SMP will also be made to remove MW-235S/MW-235D from the list of wells required to collect groundwater measurements given that they no longer exist (destroyed by mowing contractor) and groundwater flow patterns are well documented north of the closed Landfill.

- The Landfill appears secure, 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 conducted weekly inspections of the seep locations and will continue to pursue implementation of the approved RAWP.

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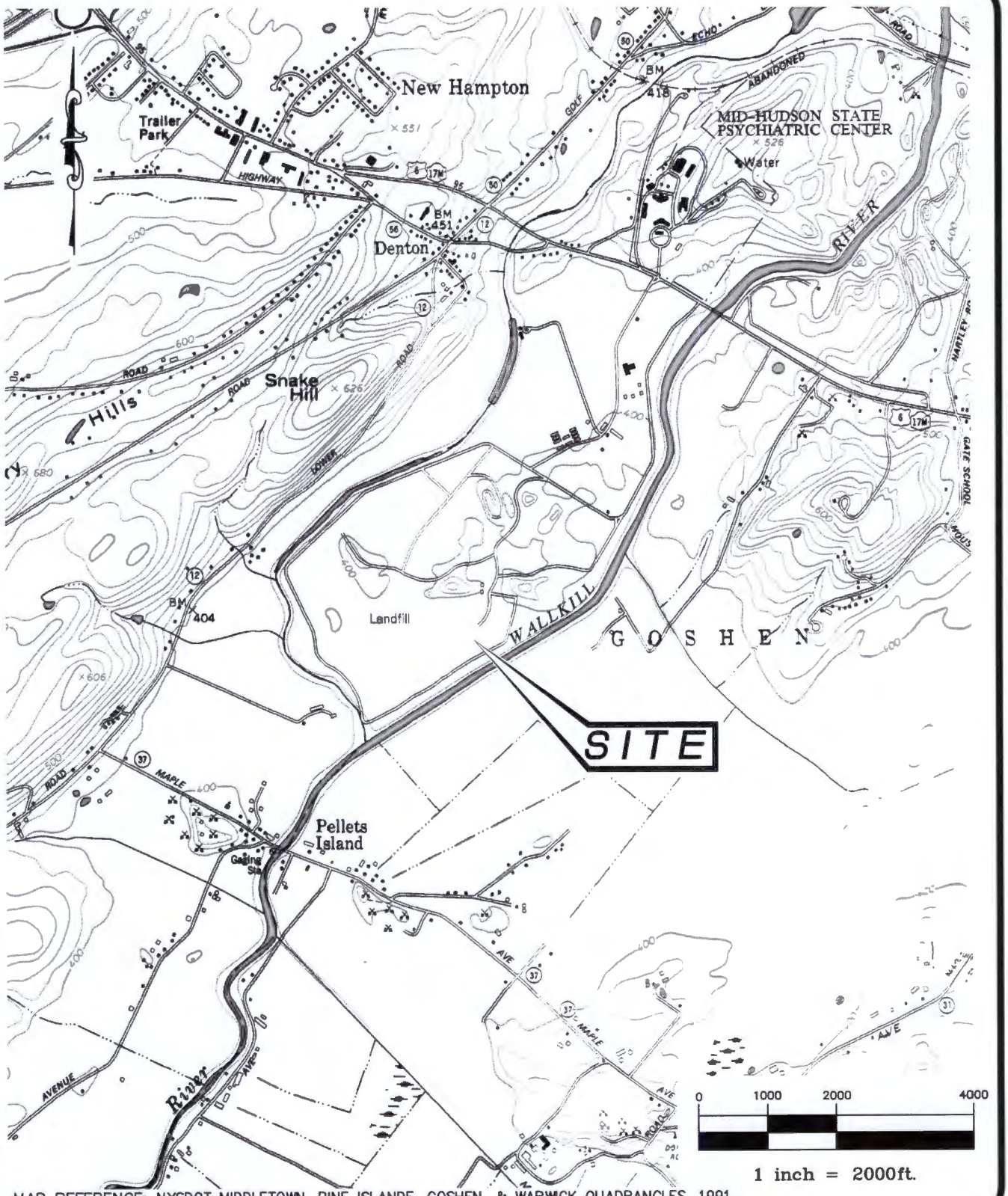
FIGURES



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STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

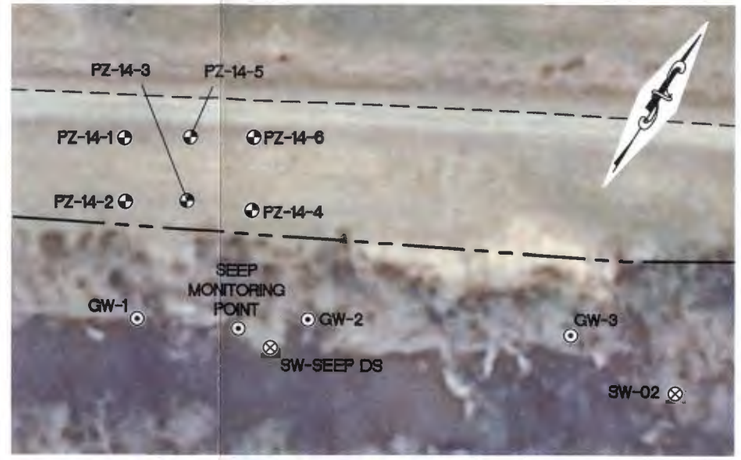
SITE LOCATION MAP

ORANGE CO. DEPT. OF PUBLIC WORKS

ORANGE COUNTY LANDFILL

TOWN OF GOSHEN — ORANGE CO., N.Y.

PROJ. No.: 2013-29	DATE: 12/3/14	SCALE: 1" = 2000'	DWG. NO. 2010-15038	FIGURE 1



ENLARGED PLAN
SCALE: 1" = 80'

LEGEND:

MW-230S	OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATIONS
MW-230D	BEDROCK MONITORING WELL LOCATIONS
MH-5	LEACHATE SAMPLING LOCATIONS
GW-1	SEEP MONITORING LOCATIONS
SW-5	SURFACE WATER SAMPLE LOCATIONS
	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 STATWDE 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	12/3/14	1"=500'	2010–15039	2

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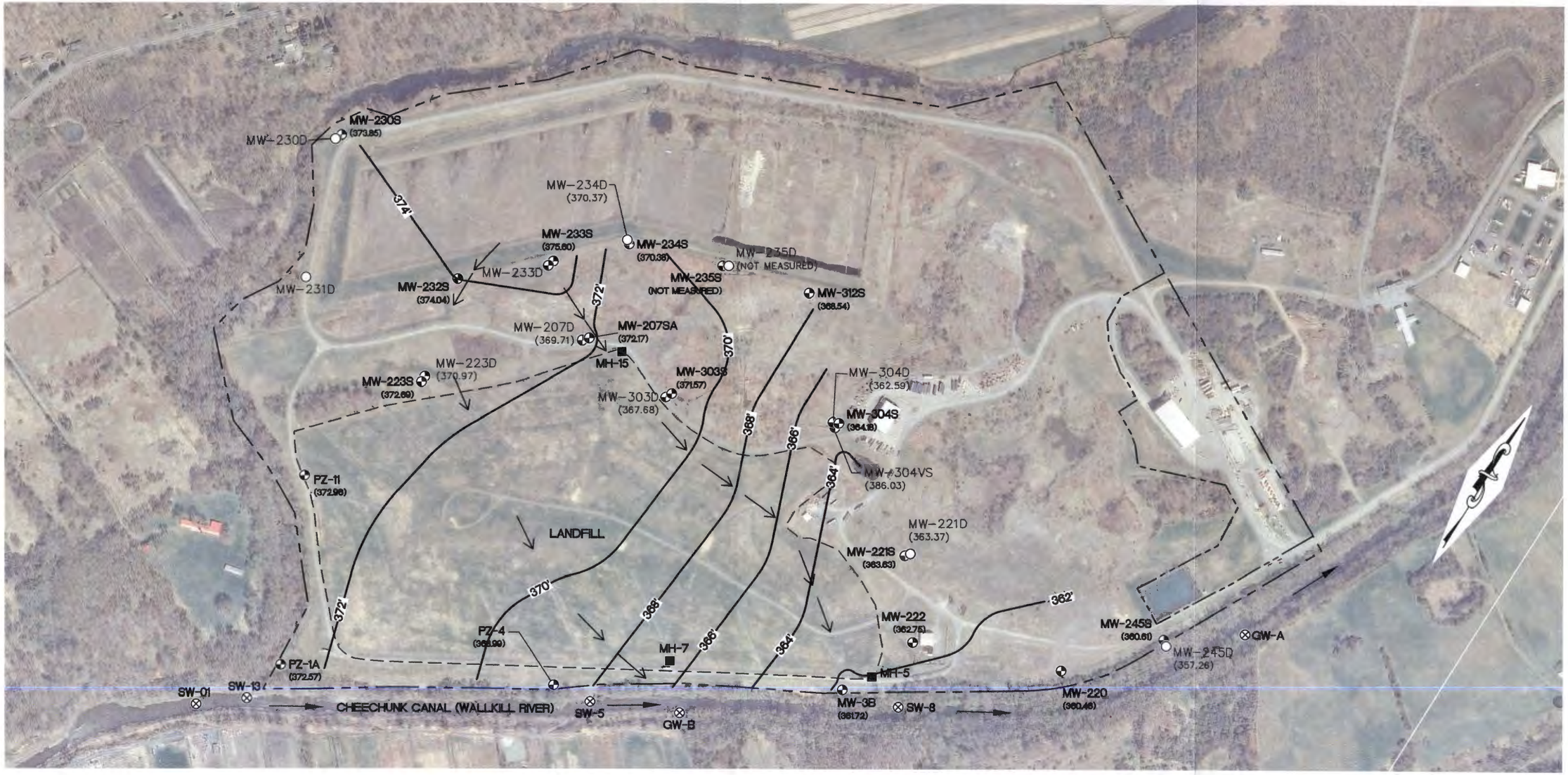

LEGEND:

370'	GROUNDWATER ELEVATION CONTOUR
→	INFERRED GROUNDWATER FLOW DIRECTION
MW-245S (360.61)	OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATION WITH GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL (AMSL))
MW-245D(357.26)	BEDROCK MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION (FEET AMSL)
MH-7	LEACHATE SAMPLING LOCATION
SW-5	SURFACE WATER SAMPLE LOCATION
— — — — —	LIMIT OF WASTE
—— — — ——	PROPERTY BOUNDARY

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
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	02/13/2017	1"=500'	2010–15071	3

S:\Drawings\2010-15 - Orange County\2010-15071_F-3 - GW Elev Map 1-2017.dwg CAD 3/21/2017 1:06 PM

TABLES

TABLE 1

Summary of Field Parameter Measurements (January 25-26, 2017)
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-13	SW-5	SW-8	MH-7	MH-15
Static Water Level [1]	---	feet	24.71	18.48	13.69	17.81	30.52	29.94	13.35	---	---	---	---	---
Specific Conductivity	---	mS/cm[c]	0.885	1.223	0.980	1.069	1.193	0.939	1.273	0.581	0.731	0.749	8.456	1.915
Temperature	---	degrees C	9.70	8.86	8.23	7.47	8.12	8.26	9.14	1.27	0.86	1.16	1.88	7.49
pH	6.5<pH< 8.5	pH Units	8.0	8.0	7.1	8.0	8.2	8.3	7.8	7.9	8.3	8.1	7.5	8.3
ORP	--	mV	57.0	25.6	202.9	109.1	11.0	6.3	99.8	211.9	141.0	117.2	34.2	20.3
Turbidity[2]	5	NTU	**5.15**	**277.4**	**90.10**	**11.51**	4.978	**12.37**	**9.35**	12.44	39.2	28.12	129.3	189.9
Dissolved Oxygen [3]	> 6.0	mg/L	2.02	1.22	2.61	4.08	1.24	1.25	1.33	11.29	10.31	11.13	5.29	4.05

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] Turbidity standard applies to grounwater samples only.

[3] Dissolved Oxygen standard applies to surface water samples only.

--- No standard or not measured.

Upgradient Monitoring well

Downgradient monitoring well

Table 2

Summary of Water Elevation Measurements (January 25-26, 2017)
Orange County Landfill, Goshen NY

Well I.D.	Measuring Point Elevation (feet amsl)	Static Water Level (feet)	Groundwater Elevation (feet amsl)
MW-207D	390.02	18.70	371.32
MW-207SA	389.74	17.57	372.17
MW-220	378.94	18.48	360.46
MW-221S	381.44	17.81	363.63
MW-221D	381.21	15.56	365.65
MW-222	382.49	19.74	362.75
MW-223S	389.25	16.56	372.69
MW-223D	389.36	16.85	372.51
MW-230S	385.6	11.75	373.85
MW-230D	385.35	Well Damaged	
MW-231D	387.67*	15.55	372.12
MW-232S	388.64	14.60	---
MW-233S	389.29	13.69	375.60
MW233D	---	17.81	--
MW-234S	390.63	18.91	371.72
MW-234D	390.1	18.20	371.90
MW-235S	388.04	---	---
MW-235D	393.74	---	---
MW-245S	391.13	30.52	360.61
MW-245D	391.08	29.94	361.14
MW-303S	389.85	18.38	371.47
MW-303D	389.83	18.17	371.66
MW-304VS	390.72	4.51	386.21
MW-304S	390.92	26.74	364.18
MW-304D	390.08	25.30	364.78
MW-312S	387.87*	17.39	368.25
MW-3B	386.43	24.71	361.72
PZ-11	390.41	17.45	372.96
PZ-14-1†	390.27	27.32	362.95
PZ-14-2†	381.94	19.24	362.70
PZ-14-3†	381.83	19.30	362.53
PZ-14-4†	381.77	19.25	362.52
PZ-14-5†	392.22	29.41	362.81
PZ-14-6†	391.11	28.36	362.75
PZ-1A	385.28	12.71	372.57
PZ-4	382.34	13.35	368.99

Notes:
--- = Not measured or no available data
† = Measuring point elevation surveyed by Sterling Environmental Engineering, P.C. on September 6, 2014.
* = Measuring point elevation obtained from Table 3-2 of the Remedial Investigation Report for the Orange County Landfill - DRAFT, prepared by Stearns & Wheler, dated March 1995.
All other Measuring Point Elevations were obtain from Table 1 of the 2013 Monitoring Event for the Orange County Landfill, prepared by Cornerstone Environmental Group, LLC., dated September 2013.

Table 3

Summary of Groundwater Analytical Results (January 25-26, 2017)
Orange County Landfill, Goshen, New York

Analyte	Groundwater Standard[A]	MW-3B (Downgradient)		MW-220 (Downgradient)		MW-233S (Upgradient)		MW-233D (Upgradient)		MW-245S (Downgradient)		MW-245D (Downgradient)		PZ-4 (Downgradient)	
		11/17/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/17/2015	1/25/2017
Water Quality Parameters (mg/L)															
Alkalinity, Total	---	520	527	478	459	334	333	193	186	364	328	271	286	460	504
Ammonia	2.0	**5.2**	**2.29**	0.052 J	0.055 J	0.024 J	0.026 J	0.075 U	0.075 U	0.161	0.097	1.91	**4.24**	0.462	0.075 U
Biochemical Oxygen Demand (BOD)	---	2 U	14*	2 U	9.6*	2 U	9*	2 U	8.8*	2 U	24*	5.9	15*	2 U	11*
Bromide	2.0	---	0.287	---	0.05 U	---	0.05 U	---	---	---	0.05 U	---	0.017 J	---	0.122
Chemical Oxygen Demand (COD)	---	19	10	5.5 J	20	10 U	10	10 U	10	12	49	19	8.2 J	12	3.4 J
Chloride	250	63.6	54.1	24.5	21.2	1.41	1.79	120	116	90.9	68.1	38.2	34.7	36.9	39.4
Chromium, hexavalent	0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Color (Color Units)	15[B]	**32**	**32**	**220**	**30**	5 U	13	9	9	**46**	**52**	**16**	**16**	**17**	6
Cyanide, Total	0.2	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J	0.003 J	0.003 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Hardness	---	470	420	550	650	450	510	200	220	480	460	310	320	570	630
Nitrate as N	10	0.1 U	0.022 J	0.11	0.095 J	0.27	0.22	0.086 J	0.058 J	0.086 J	0.044 J	2.7	0.033 J	0.3	0.1 U
Phenolics, Total Recoverable	0.001[C]	0.03 U	**0.007** J	0.03 U	**0.008** J	0.03 U	**0.028** J	0.03 U	0.03 U	**0.009** J	0.03 U	0.03 U	0.03 U	0.03 U	**0.011** J
Sulfate	250	40	35.5	154	164	183	163	140	124	176	142	141	123	143	117
Total Dissolved Solids (TDS)	500	**650**	**630**	**690**	**700**	**550**	**540**	**550**	**550**	**740**	**630**	**500**	460	**670**	**720**
Total Kjeldahl Nitrogen (TKN)	---	4.58	2.63	0.378	0.622	0.271 J	7.34	0.322	0.252 J	0.335	0.379	1.37	4.82	0.357	0.176 J
Total Organic Carbon (TOC)	---	4.04	3.43	3.95	2.13	3.89	3.02	2.26	0.61	2.62	2.23	1.9	1.28	1.85	1.24

Notes:

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

U = Sample concentration was not detected at or above the reporting limit.

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.

^ = Instrument related QC exceeds the control limits.

* = The polyseed value and recovery percentages exceed the acceptance criteria. Re-analysis could not be performed due to the expiration of the method required holding time. All positive results are considered to have a potentially high bias.

[A] = NY TOGs 1.1.1: Water Quality Stds & Guidance Values: GA Water Class for Standard and Guidance Values; Eff. June 1998

[B] = Standards based on EPA Part 5, Subpart 5-1 Public Water Systems - Tables 1 and 5.

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

[D] = The sum of iron and manganese concentrations must not exceed 0.5 mg/L.

--- No standard or not measured.

Table 3

Summary of Groundwater Analytical Results (January 25-26, 2017)
Orange County Landfill, Goshen, New York

Analyte	Groundwater Standard[A]	MW-3B (Downgradient)		MW-220 (Downgradient)		MW-233S (Upgradient)		MW-233D (Upgradient)		MW-24SS (Downgradient)		MW-245D (Downgradient)		PZ-4 (Downgradient)	
		11/17/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/17/2015	1/25/2017
Volatile Organic Compounds (µg/L)															
1,1,1-Trichloroethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1.0	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chloroethyl vinyl ether	---	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon tetrachloride	5.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5.0	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene Chloride	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m-Xylene & p-Xylene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5.0	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	2.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.
U = Sample concentration was not detected at or above the reporting limit.
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.
^ = Instrument related QC exceeds the control limits.
* = The polyseed value and recovery percentages exceed the acceptance criteria. Re-analysis could not be performed due to the expiration of the method required holding time. All positive results are considered to have a potentially high bias.
[A] = NY TOGs 1.1.1: Water Quality Stds & Guidance Values: GA Water Class for Standard and Guidance Values; Eff. June 1998
[B] = Standards based on EPA Part 5, Subpart 5-1 Public Water Systems - Tables 1 and 5.
[C] = The sample specific reporting limit does not support the applicable groundwater standard.
[D] = The sum of iron and manganese concentrations must not exceed 0.5 mg/L.
--- No standard or not measured.

Table 3

Summary of Groundwater Analytical Results (January 25-26, 2017)
Orange County Landfill, Goshen, New York

Analyte	Groundwater Standard[A]	MW-3B (Downgradient)		MW-220 (Downgradient)		MW-233S (Upgradient)		MW-233D (Upgradient)		MW-245S (Downgradient)		MW-245D (Downgradient)		PZ-4 (Downgradient)	
		11/17/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/16/2015	1/25/2017	11/17/2015	1/25/2017
Total Recoverable Metals (mg/L)															
Aluminum	---	0.019	0.034	0.264	0.153	0.006 J	0.02	0.022	0.013	0.482	4.83	0.022	0.025	0.059	0.028
Antimony	0.003[C]	0.0002 J	0.002 U	0.002 U	0.002 U	0.002 U	0.004 U	0.0021	0.004 U	0.002 U	0.0004 J	0.001 J	0.002 U	0.0007 J	0.002 U
Arsenic	0.025	**0.0447**	**0.0305**	**0.0261**	0.0221	0.0006	0.0009 U	0.0008	0.0007	**0.0392**	**0.1686**	0.0029	0.0057	0.0111	0.0095
Barium	1.0	0.3146	0.1404	0.0658	0.0826	0.0537	0.0989	0.0418	0.0351	0.0885	0.1225	0.0852	0.0893	0.036	0.0404
Beryllium	0.003	0.0005 U	0.0005 U	0.0005 U	0.0001 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0004 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Boron	1.0	0.206	0.13	0.0368	0.0469	0.0197 J	0.019 J	0.0895	0.0968	0.0248 J	0.0229 J	0.049	0.0504	0.101	0.105
Cadmium	0.005	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 J	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0009	0.0006	0.0002 U	0.0002 U
Calcium	---	130	130	161	180	127	130	51.4	54	147	130	85.1	82	160	180
Chromium	0.05	0.0024 J	0.0009 J	0.0029	0.0021	0.0114	0.0007 J	0.0027	0.0013	0.0022	0.008	0.0018 J	0.0045	0.0047	0.0007 J
Cobalt	---	---	0.0003 J	---	0.0013	---	0.001	---	0.0005 U	---	0.0028	---	0.0002 J	---	0.0005 U
Copper	2.0	0.0004 J	0.0006 J	0.001	0.0023	0.0014	0.0078	0.0024	0.0014	0.0015	0.0091	0.0011	0.0017	0.0012	0.00098 J
Iron[D]	0.3	**1.55**	**0.815**	**4.24**	**3.63**	**0.085**	**0.127**	0.125	0.086	**2.06**	**11.1**	0.291	**1.17**	**0.584**	**0.294**
Lead	0.025	0.0017	0.0011	0.0036	0.0073	0.001 U	0.001 U	0.0022	0.0011	0.0024	0.017	0.0027	0.0068	0.0016	0.0004 J
Magnesium	35	32	24	**41.2**	**46**	**41.8**	**46**	19	22	33.5	30	26.7	28	**40**	**44**
Manganese[D]	0.3	**0.94**	**0.6728**	**1.006**	**1.571**	**1.085**	**2.145**	0.0614	0.0332	**1.801**	**1.783**	0.1974	**0.2291**	**0.1398**	**0.4129**
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.002 U	0.0002 U	0.002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.0072	0.0045	0.0039	0.0029	0.0105	0.0124	0.0025	0.0012 J	0.0027	0.0066	0.0041	0.0039	0.0039	0.0026
Potassium	---	4.57	1.86	3.3	3.22	2.76	2.88	2	1.99	2.08	3.69	4.1	3.99	2.7	3.15
Selenium	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Silver	0.05	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Sodium	20	**54.9**	**41.4**	13.3	18.4	1.59	2.27	**109**	**109**	**48.2**	**51.3**	**54.6**	**51.5**	17.5	19.6
Thallium	0.0005[C]	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0001 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vanadium	---	---	0.005 U	---	0.005 U	---	0.005 U	---	0.005 U	---	0.0093	---	0.005 U	---	0.005 U
Zinc	2.0	0.0199	0.0101	0.0093 J	0.0098 J	0.0053 J	0.0268	0.0364	0.0079 J	0.0072 J	0.0217	0.0813	0.0947	0.0059 J	0.0051 J

Notes:

Values in **BOLD** indicate an exceedance of applicable water quality standard.
U = Sample concentration was not detected at or above the reporting limit.
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.
^ = Instrument related QC exceeds the control limits.
* = The polyseed value and recovery percentages exceed the acceptance criteria. Re-analysis could not be performed due to the expiration of the method required holding time. All positive results are considered to have a potentially high bias.
[A] = NY TOGs 1.1.1: Water Quality Stds & Guidance Values: GA Water Class for Standard and Guidance Values; Eff. June 1998
[B] = Standards based on EPA Part 5, Subpart 5-1 Public Water Systems - Tables 1 and 5.
[C] = The sample specific reporting limit does not support the applicable groundwater standard for some samples.
[D] = The sum of iron and manganese concentrations must not exceed 0.5 mg/L.
--- No standard or not measured.

Table 4

Summary of Surface Water Analytical Results (January 25-26, 2017)
Orange County Landfill, Goshen, New York

Analyte	Surface Water Standard[A]	SW-13 (Upstream)		SW-5 (Downstream)		SW-8 (Downstream)	
		11/17/2015	1/25/2017	11/17/2015	1/25/2017	11/17/2015	1/25/2017
Water Quality Parameters (mg/L)							
Alkalinity, Total	---	97.3	70.9	98.4	70.9	97.6	71.3
Ammonia	[B]	0.043 J	0.209	0.056 J	0.193	0.034 J	0.176
Biochemical Oxygen Demand (BOD)	---	2 U	8.7*	2 U	8.8*	2 U	8.9*
Bromide	---	---	0.05 U	---	0.05 U	---	0.05 U
Chemical Oxygen Demand (COD)	---	24	42	19	39	35	37
Chloride	---	75.8	91.6	75.1	90.1	75	86
Chromium, hexavalent	0.011[C]	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Color (Color Units)	---	48	52	54	54	54	44
Cyanide, Total	0.0052	0.005 U	0.002 J	0.001 J	0.005 U	0.005 U	0.004 J
Hardness as calcium carbonate	---	150	180	150	180	140	180
Nitrate as N	---	0.58	3.9	0.58	3.9	0.57	3.9
Phenolics, Total Recoverable	0.001[D]	**0.008** J	0.03 U	**0.005** J	0.03 U	0.03 U	0.03 U
Sulfate	---	31.4	70.7	31.2	69.1	32	68.3
Total Dissolved Solids (TDS)	---	250	340	250	320	250	340
Total Kjeldahl Nitrogen (TKN)	---	0.755	1.49	0.666	1.27	0.715	1.15
Total Organic Carbon (TOC)	---	7.62	9.63	7.58	8.7	7.61	8.94
Volatile Organic Compounds (µg/L)							
1,1,1-Trichloroethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	---	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	5 [E]	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	---	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	5 [E]	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	5 [E]	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chloroethyl vinyl ether	---	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	---	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon tetrachloride	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	---	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	17	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methylene Chloride	200	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m-Xylene & p-Xylene	65 [E]	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	65 [E]	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	1.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	6,000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	---	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	40	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	---	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	---	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	65	---	---	---	---	---	---
Metals, Total Recoverable (mg/L)							
Aluminum	0.1	0.085	**0.974**	0.087	**0.662**	0.073	**1.04**
Antimony	---	0.0001 J	0.004 U	0.0002 J	0.004 U	0.0002 J	0.004 U
Arsenic	0.15[C]	0.0008	0.0015	0.0009	0.0012	0.0008	0.0015
Barium	---	0.0175	0.0277	0.0184	0.024	0.0189	0.0266
Beryllium	[F]	0.0005 U	0.0001 J	0.0005 U	0.0005 U	0.0005 U	0.0001 J
Boron	10	0.0206 J	0.0225 J	0.0223 J	0.0221 J	0.0197 J	0.0225 J
Cadmium	[F]	0.0002 U	0.00015 J	0.0002 U	0.0001 J	0.0002 U	0.0001 J
Calcium	---	39	52	39	52	37	52
Chromium	[F]	0.0056	0.0017	0.0074	0.0016	0.0064	0.0017
Cobalt	0.005	---	0.0017	---	0.0013	---	0.0016
Copper	[F]	0.0015	0.0059	0.0016	0.0013	0.0016	0.0046
Iron	0.3	**0.407**	**1.72**	**0.396**	0.0036	**0.354**	**1.67**
Lead	[F]	0.0003 J	0.002	0.0003 J	0.001	0.0003 J	0.0015
Magnesium	---	12	12	12	12	12	12
Manganese	---	0.0747	0.197	0.0771	0.1373	0.0758	0.1798
Mercury	0.7	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	[F]	0.0044	0.0033	0.006	0.0027	0.0043	0.0034
Potassium	---	2.17	2.66	2.24	2.69	2.19	2.7
Selenium	---	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Silver	---	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Sodium	---	41.1	47	40.3	46.7	38.8	45.6
Thallium	0.008	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vanadium	14	---	0.0017 J	---	0.005 U	---	0.0018 J
Zinc	[F]	0.0072 J	0.0343	0.01	0.0248	0.0069 J	0.0321

Notes:

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

U = Compound is not detected at or above laboratory method detection 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.

^ = Instrument related QC exceeds the control limits.

have a potentially high bias.

[A] = T.O.G.S. 1.1.1 Ambient Water Quality Standards for Class C Surface Water

[B] = Surface water standard for ammonia (mg/L) is interpolated using the temperatures and pH of the individual samples. The values represent the 2015 and 2017 standards, respectively:

SW-13 = 2.18, 1.82; SW-5 = 2.19, 0.812; and SW-8 = 2.10, 1.25.

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

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

[E] = 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-

[F] = Surface Water Standard for Berylium, Cadmium, Chromium, Copper, Lead, Nickel, and Zinc are based on the individual sample's hardness. The values represent the 2015 and 2017 standards respectively.

Berylium (mg/L): SW-13 = 1.1, 1.1; SW-5 = 1.1, 1.1; and SW-8 = 1.1, 1.1

Cadmium (mg/L): SW-13 = 0.01, 0.007; SW-5 = 0.01, 0.007; and SW-8 = 0.01, 0.007

Chromium: (mg/L): SW-13 = 1.17, 0.922; SW-5 = 1.13, 0.922; and SW-8 = 1.7, 0.922

Copper (mg/L): SW-13 = 0.03, 0.023; SW-5 = 0.03, 0.023; and SW-8 = 0.03, 0.023

Lead (mg/L): SW-13 = 0.25, 0.183; SW-5 = 0.24, 0.183; and SW-8 = 0.25, 0.183

Nickel (mg/L): SW-13 = 0.98, 0.77; SW-5 = 0.95, 0.77; and SW-8 = 0.98, 0.77

Zinc (mg/L): SW-13 = 0.25, 0.193; SW-5 = 0.24, 0.193; and SW-8 = 0.25, 0.193

--- No standard or not measured.

Table 5

Summary of Leachate Analytical Results (January 25-26, 2017)
Orange County Landfill, Goshen, New York

Analyte	MH-7		MH-15	
	11/17/2015	1/26/2017	11/17/2015	1/26/2017
Water Quality Parameters (mg/L)				
Alkalinity, Total	2,720	2,540	1,320	691
Ammonia	400	416	98	38.9
Biochemical Oxygen Demand (BOD)	20 U	490*	10 U	120*
Bromide	---	11.5	---	0.895
Chemical Oxygen Demand (COD)	540	770	330	84
Chloride	1,350	1,340	461	130
Color (Color Units)	330	370	260	180
Cyanide, Total	0.003 J	0.004 J	0.001 J	0.002 J
Hardness as calcium carbonate	630	1200	720	450
Nitrate as N	0.027 J	0.11	1.6	0.095 J
Phenolics, Total Recoverable	0.015 J	0.019 J	0.009 J	0.006 J
Sulfate	41.7	50.7	21.6	7.13
Total Dissolved Solids (TDS)	3,400	3,400	1,700	790
Total Kjeldahl Nitrogen (TKN)	384	479	95.4	37.1
Total Organic Carbon (TOC)	200	172	106	28.3
Volatile Organic Compounds (µg/L)				
1,1,1-Trichloroethane	2.5 U	25 U	2.5 U	2.5 U
1,1,1,2-Tetrachloroethane	2.5 U	25 U	2.5 U	2.5 U
1,1,2-Trichloroethane	1.5 U	15 U	1.5 U	1.5 U
1,1-Dichloroethane	2.5 U	25 U	2.5 U	2.5 U
1,1-Dichloroethene	0.5 U	5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	2.5 U	25 U	2.5 U	2.5 U
1,2-Dichloroethane	0.5 U	5 U	0.5 U	0.5 U
1,2-Dichloropropane	1 U	10 U	1 U	1 U
1,3-Dichlorobenzene	2.5 U	25 U	2.5 U	2.5 U
1,4-Dichlorobenzene	**3.9**	25 U	**1.3** J	**1.7** J
2-Chloroethyl vinyl ether	10 U	25 U	10 U	10 U
Benzene	**14**	**12**	**0.39** J	**0.68**
Bromodichloromethane	0.5 U	5 U	0.5 U	0.5 U
Bromoform	2 U	20 U	2 U	2 U
Bromomethane	2.5 U	25 U	2.5 U	2.5 U
Carbon tetrachloride	0.5 U	5 U	0.5 U	0.5 U
Chlorobenzene	**22**	**19** J	2.5 U	**0.76** J
Chloroethane	1.8 J	25 U	2.5 U	**2.1** J
Chloroform	2.5 U	25 U	2.5 U	2.5 U
Chloromethane	2.5 U	25 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	---	---	---	---
cis-1,3-Dichloropropene	0.5 U	5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5 U	50 U	5 U	5 U
Ethylbenzene	**15**	25 U	2.5 U	2.5 U
Methylene Chloride	2.5 U	25 U	2.5 U	2.5 U
m-Xylene & p-Xylene	0.72 J	25 U	2.5 U	2.5 U
o-Xylene	2.5 U	25 U	2.5 U	2.5 U
Tetrachloroethene	0.5 U	5 U	0.5 U	0.5 U
Toluene	2.5 U	25 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	2.5 U	25 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	0.5 U	5 U	0.5 U	0.5 U
Trichloroethene	0.5 U	5 U	0.5 U	0.5 U
Trichlorofluoromethane	2.5 U	25 U	2.5 U	2.5 U
Vinyl chloride	1 U	10 U	1 U	**0.18** J
Xylenes, Total	2.5 U	25 U	2.5 U	2.5 U
Metals, Total Recoverable (mg/L)				
Aluminum	0.422	2.1	0.009 J	0.008 J
Antimony	0.0032	0.0015 J	0.0005 J	0.004 U
Arsenic	0.0166	0.0114	0.0062	0.002
Barium	0.1397	0.2145	0.2791	0.1074
Beryllium	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Boron	3.21	3.21	1.45	0.487
Cadmium	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Calcium	140	370	190	130
Chromium	0.0146	0.0106	0.0078	0.0021
Chromium, hexavalent	0.01 U	0.01 U	0.008 J	0.01 U
Cobalt	---	0.0092	---	0.002
Copper	0.0017	0.0057	0.0007 J	0.001 U
Iron	12.5	17.3	7.26	15
Lead	0.0026	0.0053	0.0001 J	0.001 U
Magnesium	71	78	62	30
Manganese	0.3844	0.6703	2.089	1.878
Mercury	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.0707	0.0359	0.0351	0.0091
Potassium	192	94.5	79.2	24
Selenium	0.005 U	0.005 U	0.005 U	0.005 U
Silver	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Sodium	640	423	416	97.7
Thallium	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Zinc	0.0096 J	0.0122	0.0028 J	0.01 U

Notes:

BOLD values indicate a detected volatile organic compound.
U = Sample concentration was not detected at or above the reporting limit.
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.
* = The polyseed value and recovery percentages exceed the acceptance criteria. Re-analysis could not be performed due to the expiration of the method required holding time. All positive results are considered to have a potentially high bias.
--- No standard or not measured.

APPENDIX A

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

Staff Gauge Inspection Report for Wallkill River Near Orange County Landfill

Note:	*Staff Gauge readings are to be performed once a week.*
	Staff Gauge readings are to be performed the day after a storm event.
	Staff Gauge zero mark approximately installed at elevation 356'.
	Staff Guage readings below, based on April 2015 survey and replacement gauge.

Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
4/29/2015	R.H.	3.00	359.00	Weekly Reading	Seep Covered
5/6/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
5/13/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
5/20/2015	R.H.	2.25	358.25	Weekly Reading	Seep Covered
5/27/2015	R.H.	2.75	358.75	Weekly Reading	Seep Covered
6/3/2015	K.S.	2.25	358.25	Weekly Reading	Seep Covered
6/10/2015	K.S.	2.25	358.25	Weekly Reading	Seep Covered
6/17/2015	R.H.	2.50	358.50	Weekly Reading	Seep Covered
6/24/2015	R.H.	2.25	358.25	Weekly Reading	Seep Covered
7/1/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
7/8/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
7/15/2015	R.H.	1.25	357.25	Weekly Reading	Seep Covered
7/22/2015	R.H.	1.00	357.00	Weekly Reading	Seep Exposed
7/29/2015	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
8/5/2015	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
8/12/2015	G.L.P.	1.25	357.25	Weekly Reading / Day After Storm Event	Seep Covered
8/19/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
8/26/2015	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
9/2/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/9/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/11/2015	G.L.P.	0.75	356.75	Day After Storm Event	Seep Exposed
9/15/2015	G.L.P.	1.25	357.25	Day After Storm Event	Seep Covered
9/16/2015	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
9/23/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/28/2016	G.L.P.	5.00	361.00	Weekly Reading / Day After Storm Event	Seep Covered
10/5/2015	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
10/8/2015	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
10/15/2015	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
10/16/2015	G.L.P.	1.25	357.25	Weekly Reading / Day After Storm Event	Seep Covered
10/29/2015	G.L.P.	4.50	360.50	Weekly Reading / Day After Storm Event	Seep Covered
11/4/2015	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
11/13/2015	G.L.P.	3.00	359.00	Weekly Reading / Day After Storm Event	Seep Covered
11/16/2015	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
11/18/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
11/20/2015	G.L.P.	4.00	360.00	Day After Storm Event	Seep Covered
11/27/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/3/2015	G.L.P.	4.50	360.50	Weekly Reading / Day After Storm Event	Seep Covered
12/4/2015	G.L.P.	4.00	360.00	Weekly Reading	Seep Covered
12/11/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/18/2015	G.L.P.	4.75	360.75	Weekly Reading / Day After Storm Event	Seep Covered
12/24/2015	G.L.P.	6.00	362.00	Weekly Reading / Day After Storm Event	Seep Covered
12/31/2015	G.L.P.	6.00	362.00	Weekly Reading / Day After Storm Event	Seep Covered

Staff Gauge Inspection Report for Wallkill River Near Orange County Landfill

Note:	*Staff Gauge readings are to be performed once a week.*
	Staff Gauge readings are to be performed the day after a storm event.
	Staff Gauge zero mark approximately installed at elevation 356'.
	Staff Guage readings below, based on April 2015 survey and replacement gauge.

Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
1/8/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
1/13/2016	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
1/22/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
1/29/2016	G.L.P.	2.50	358.50	Weekly Reading	Seep Covered
2/5/2016	G.L.P.	5.75	361.75	Weekly Reading	Seep Covered
2/8/2016	G.L.P.	3.75	359.75	Weekly Reading	Seep Covered
2/11/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
2/19/2016	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
2/22/2016	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
2/25/2016	G.L.P.	Above 8.50	#VALUE!	Weekly Reading	Seep Covered
2/29/2016	G.L.P.	7.75	363.75	Weekly Reading	Seep Covered
3/4/2016	G.L.P.	4.50	360.50	Weekly Reading	Seep Covered
3/11/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
3/16/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
3/18/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
3/25/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
4/1/2016	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
4/8/2016	G.L.P.	3.25	359.25	Weekly Reading / Day After Storm Event	Seep Covered
4/15/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
4/22/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
4/29/2016	G.L.P.	1.50	357.50	Weekly Reading/Currently Raining	Seep Covered
5/4/2016	G.L.P.	5.25	361.25	Weekly Reading	Seep Covered
5/6/2016	G.L.P.	4.00	360.00	Weekly Reading/Day After Rain Storm	Seep Covered
5/12/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
5/19/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
5/27/2016	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
5/31/2016	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
6/9/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
6/13/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
6/17/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
6/24/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
6/28/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
7/1/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/5/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/8/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/15/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/21/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
7/29/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
8/1/2016	G.L.P.	6.25	362.25	Weekly Reading / Day After Storm Event	Seep Covered
8/5/2016	G.L.P.	1.25	357.25	Day After Storm Event	Seep Covered
8/12/2016	G.L.P.	4.25	360.25	Day of Storm Event	Seep Covered
8/19/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed

Staff Gauge Inspection Report for Wallkill River Near Orange County Landfill

Note:	*Staff Gauge readings are to be performed once a week.*
	Staff Gauge readings are to be performed the day after a storm event.
	Staff Gauge zero mark approximately installed at elevation 356'.
	Staff Guage readings below, based on April 2015 survey and replacement gauge.

Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
8/25/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
9/2/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/8/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/16/2016	G.L.P.	0.00	356.00	Weekly Reading	Seep Exposed
9/23/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/30/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/7/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/14/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/21/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/28/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
11/4/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
11/10/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
11/17/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
11/18/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
11/23/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
11/30/2016	G.L.P.	4.25	360.25	Weekly Reading / Day After Storm Event	Seep Covered
12/1/2016	G.L.P.	7.75	363.75	Weekly Reading / Day After Storm Event	Seep Covered
12/9/2016	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
12/16/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/23/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
12/29/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
1/5/2017	G.L.P.	4.50	360.50	Weekly Reading	Seep Covered
1/6/2017	G.L.P.	3.75	359.75	Weekly Reading	Seep Covered
1/11/2017	G.L.P.	2.50	358.50	Weekly Reading	Seep Covered
1/12/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
1/20/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
1/27/2017	G.L.P.	6.50	362.50	Weekly Reading	Seep Covered
2/3/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
2/10/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered

ANNUAL MONITORING AND MAINTENANCE OPERATIONS CHECKLIST
ORANGE COUNTY LANDFILL
YEAR 2016

TASK DESCRIPTION	TASK FREQUENCY	MONTH TASK WAS COMPLETED [2]											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing	Bi-annually								8/24				
Monthly Inspections (Internal)	Monthly	KS 15th	KS 16th	KS 15th	KS 15th	KS 16th	KS 15th	KS 14th	KS 15th	KS 14th	KS 17th	KS 15th	KS 15th
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: 1/15/16 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: 9/23/15			
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 *

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

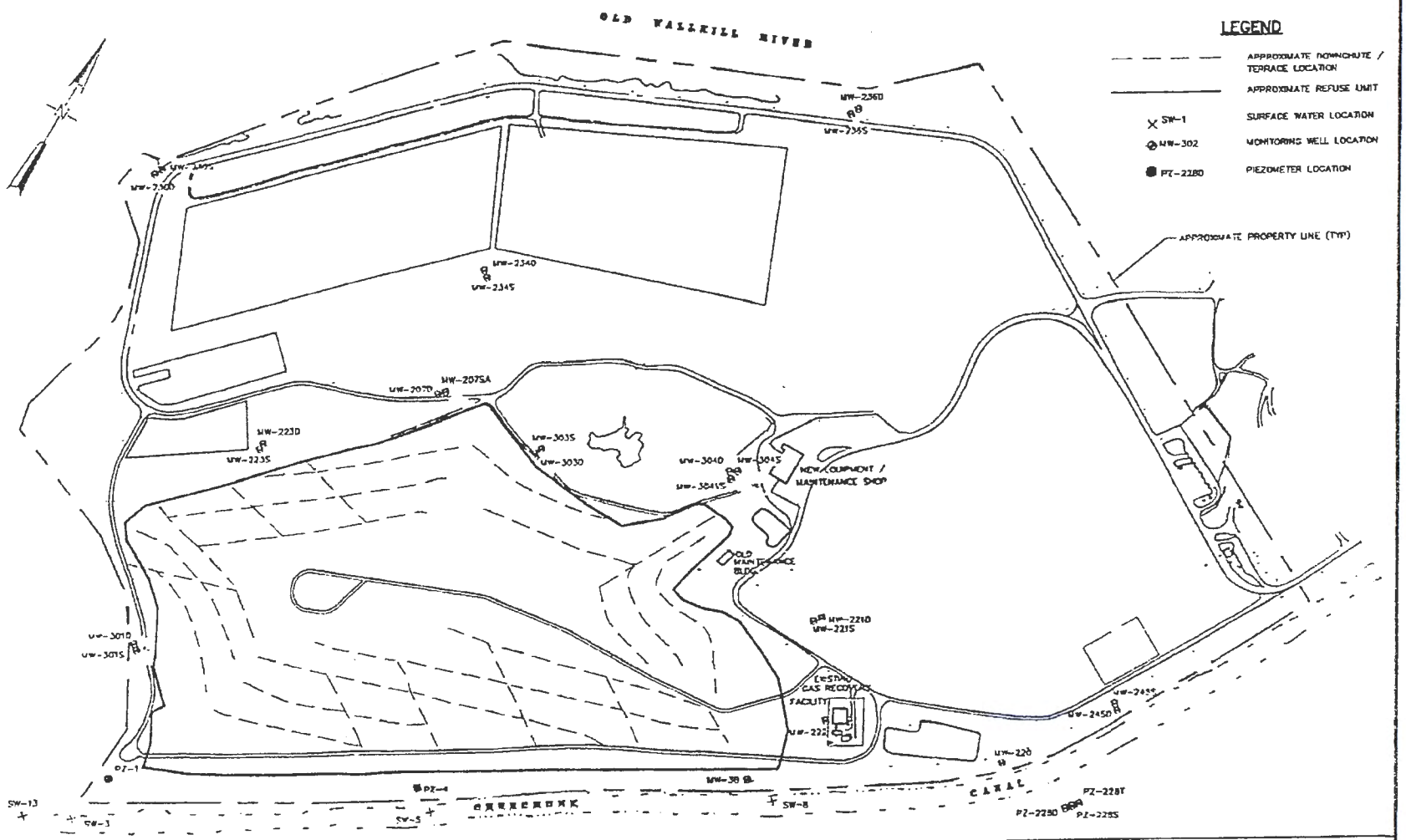
COMMENTS: L-1 has been repaired.

CORRECTIVE ACTION TAKEN: L-1 has been fixed. Breaker was no good.

BY: _____

DATE: _____

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: 2/16/16 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
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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: 9/23/15			
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

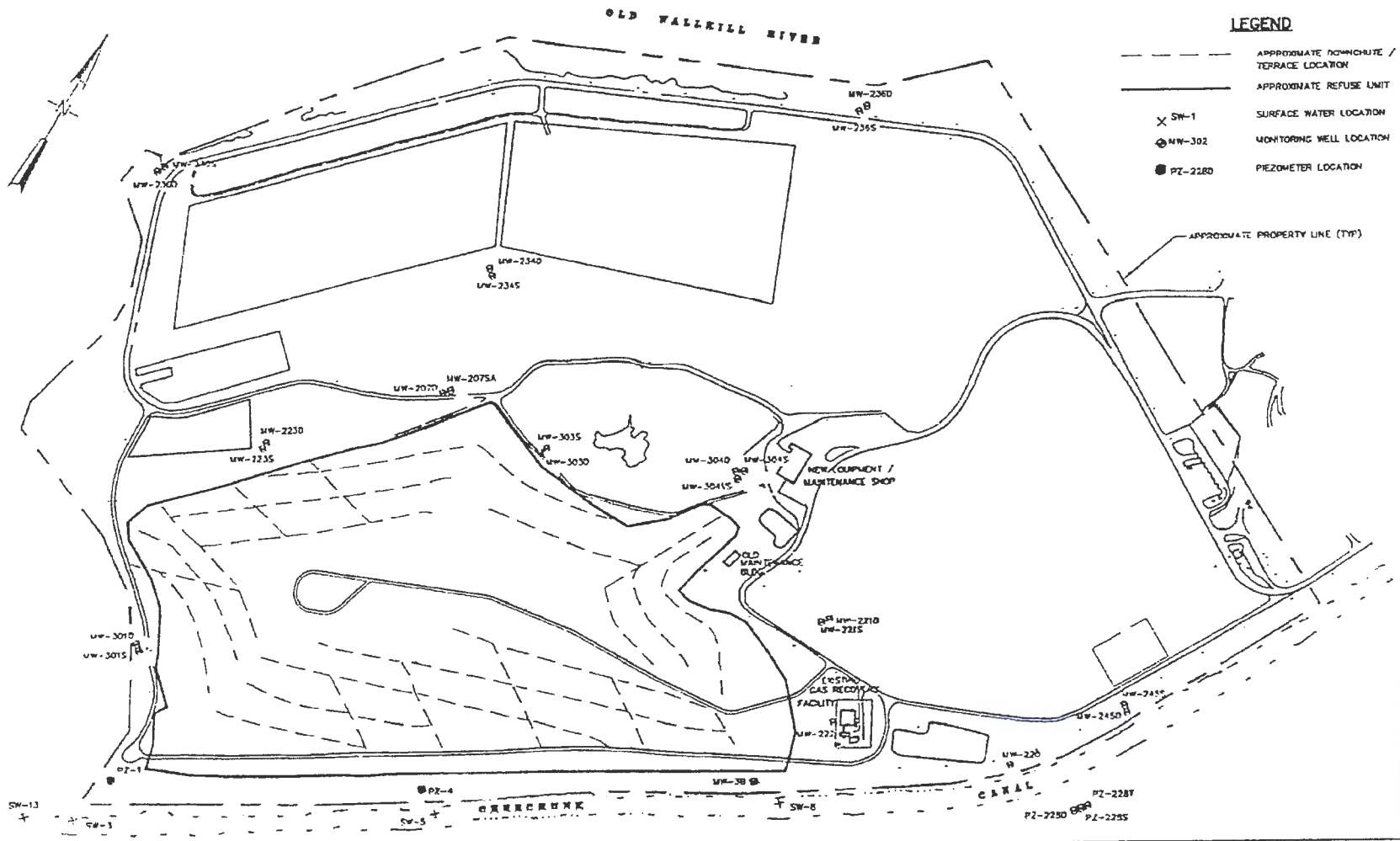
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 3/15/16 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: 9/23/15				
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 Back filled:	
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

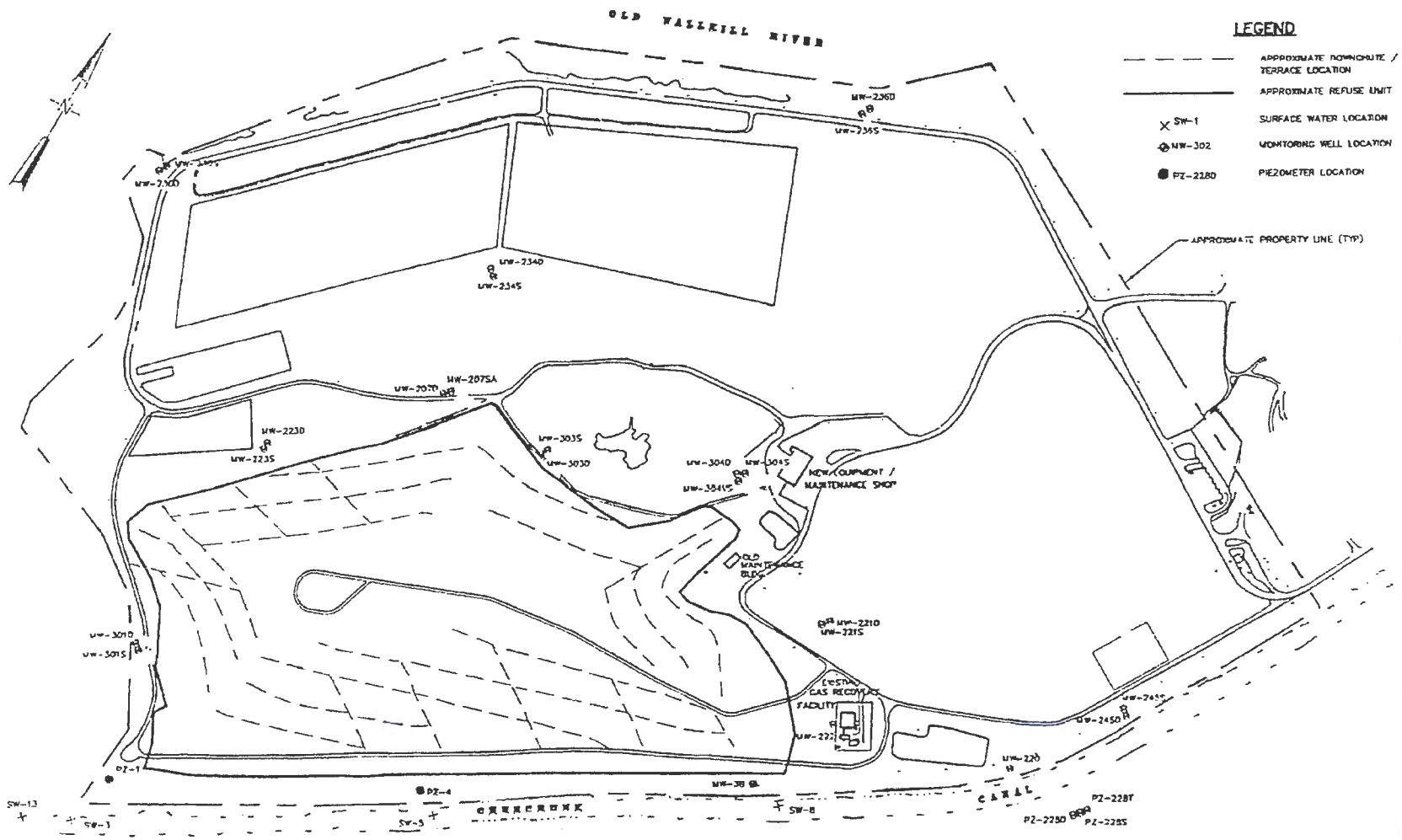
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 4/15/16 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: 9/23/15				
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

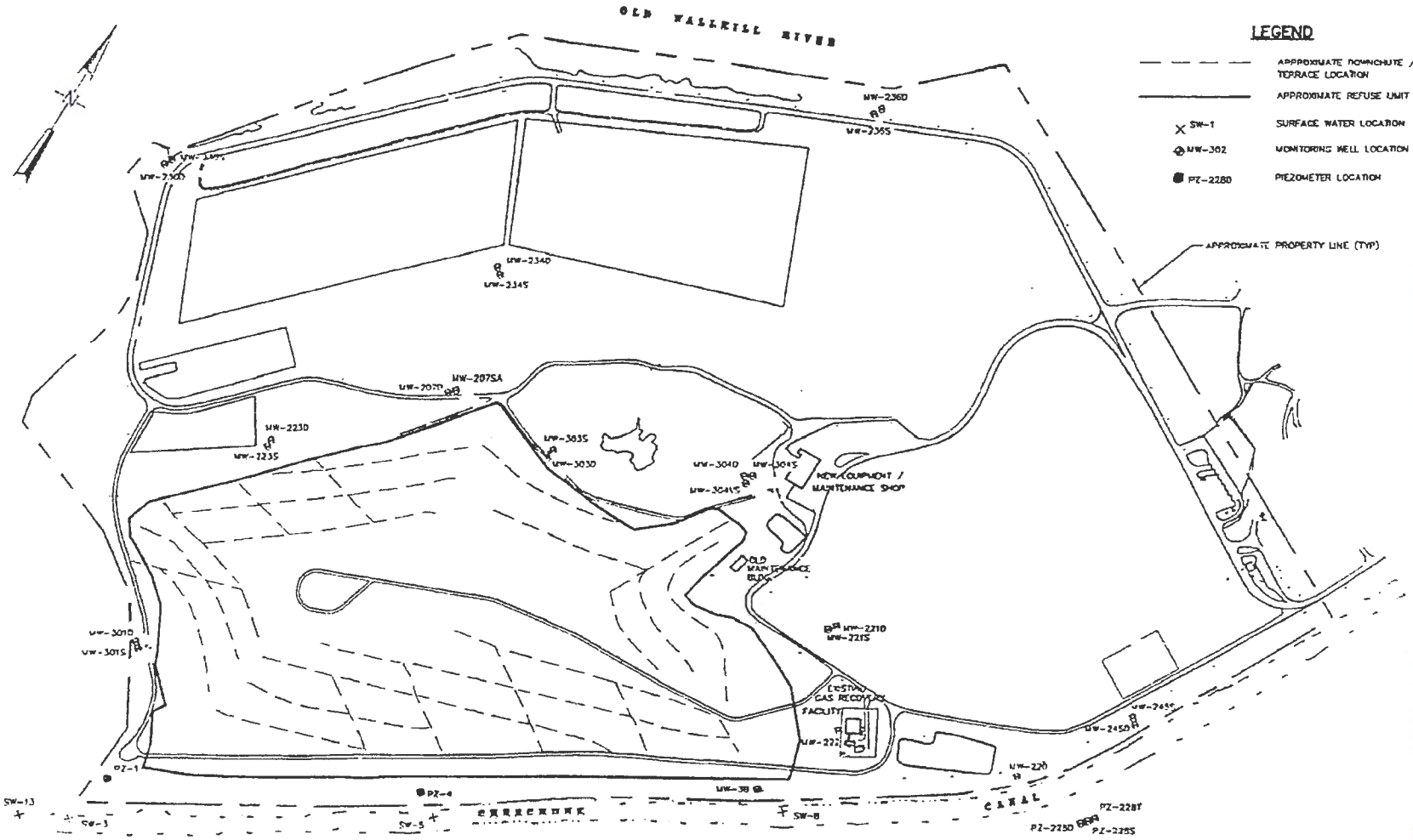
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 5/16/16 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: 9/23/15			
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 *

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: _____

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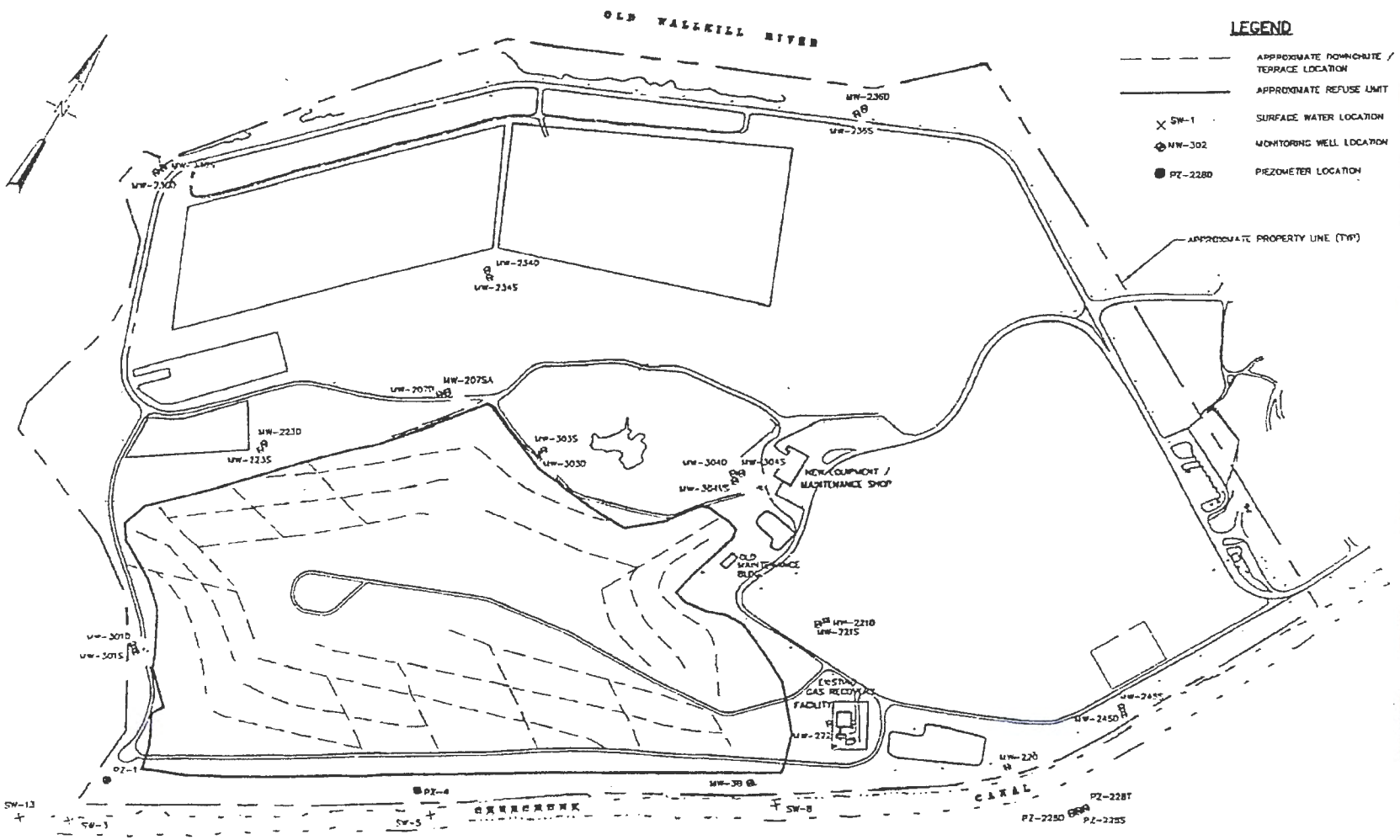


Stearns&Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

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: 6/15/16 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: 9/23/15			
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 Back filled: _____
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

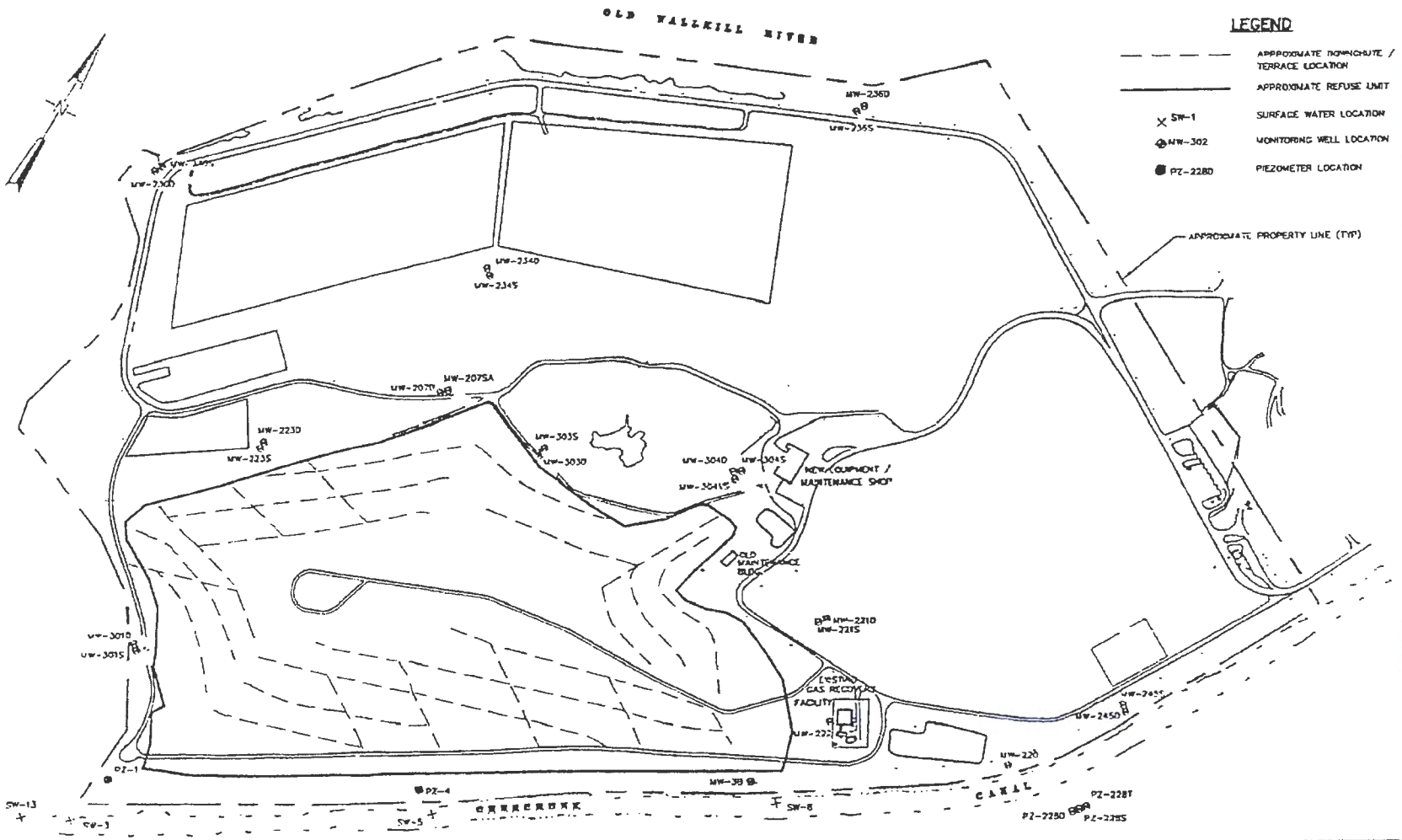
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 7/14/16 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: 6/22/16			
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 Back filled: _____
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

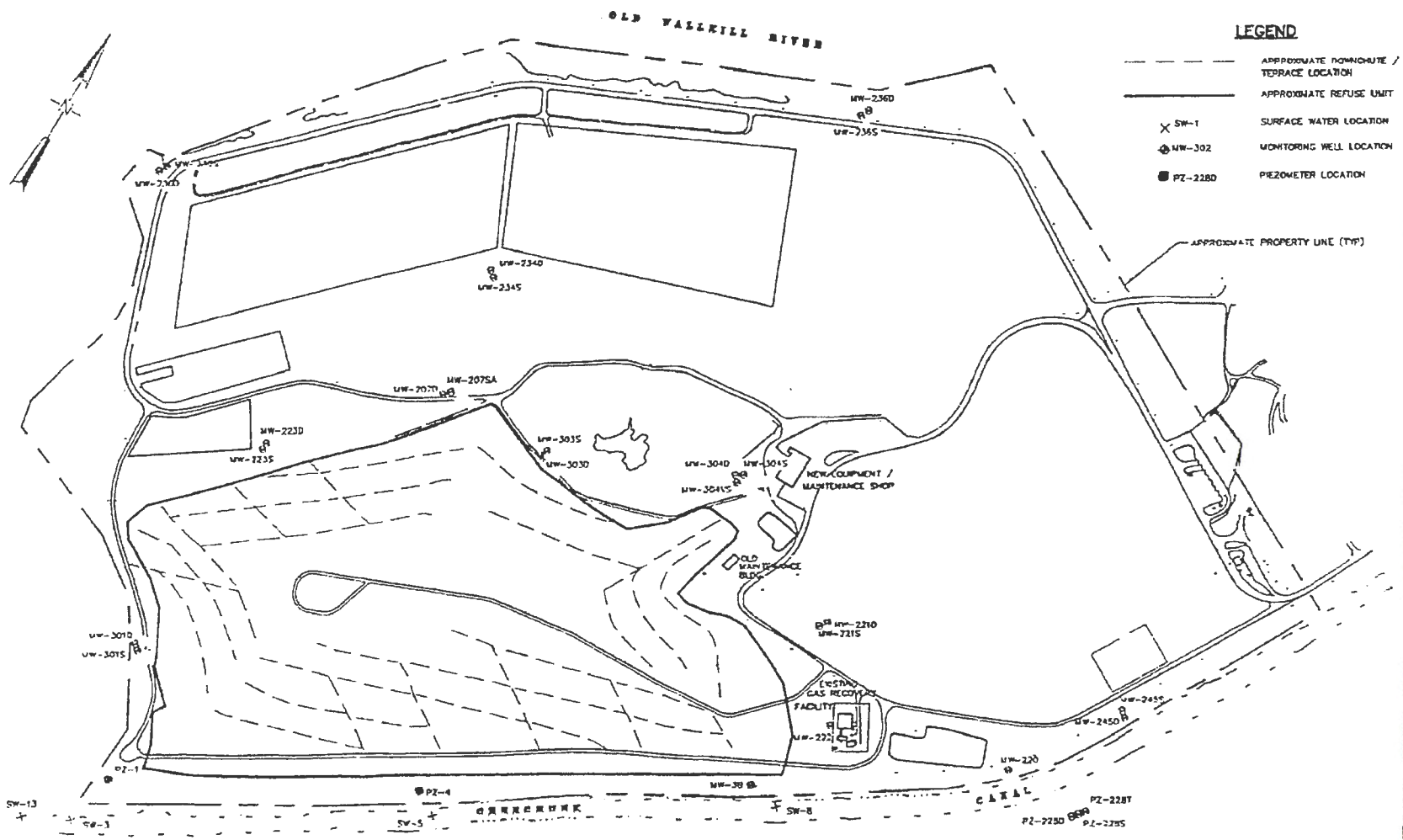
COMMENTS: _____

CORRECTIVE ACTION TAKEN: _____

BY: _____

DATE: _____

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: 8/15/16 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: 7/13/16			
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 *

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

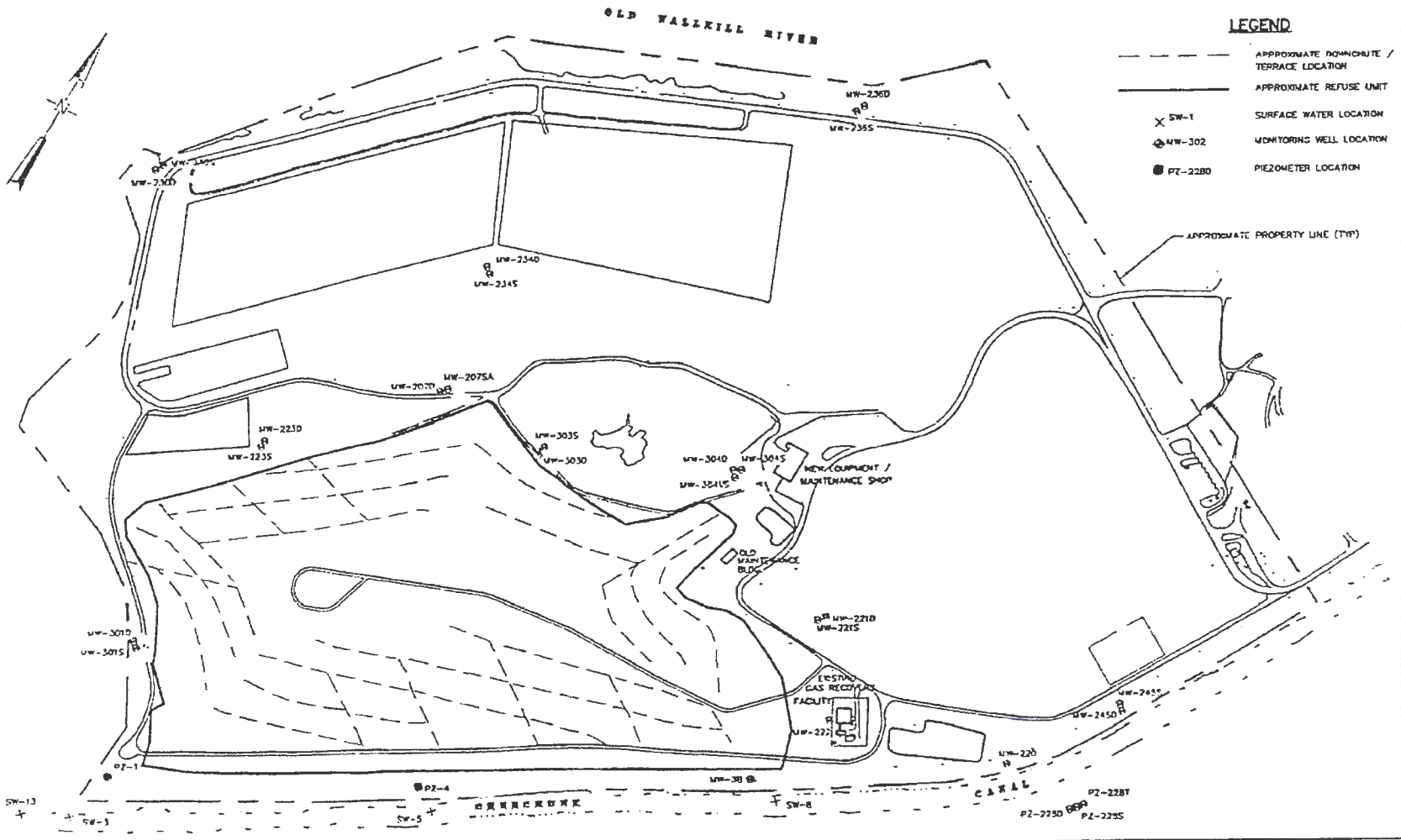
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 9/14/16 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: 8/24/16			
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 Back filled: _____
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: _____

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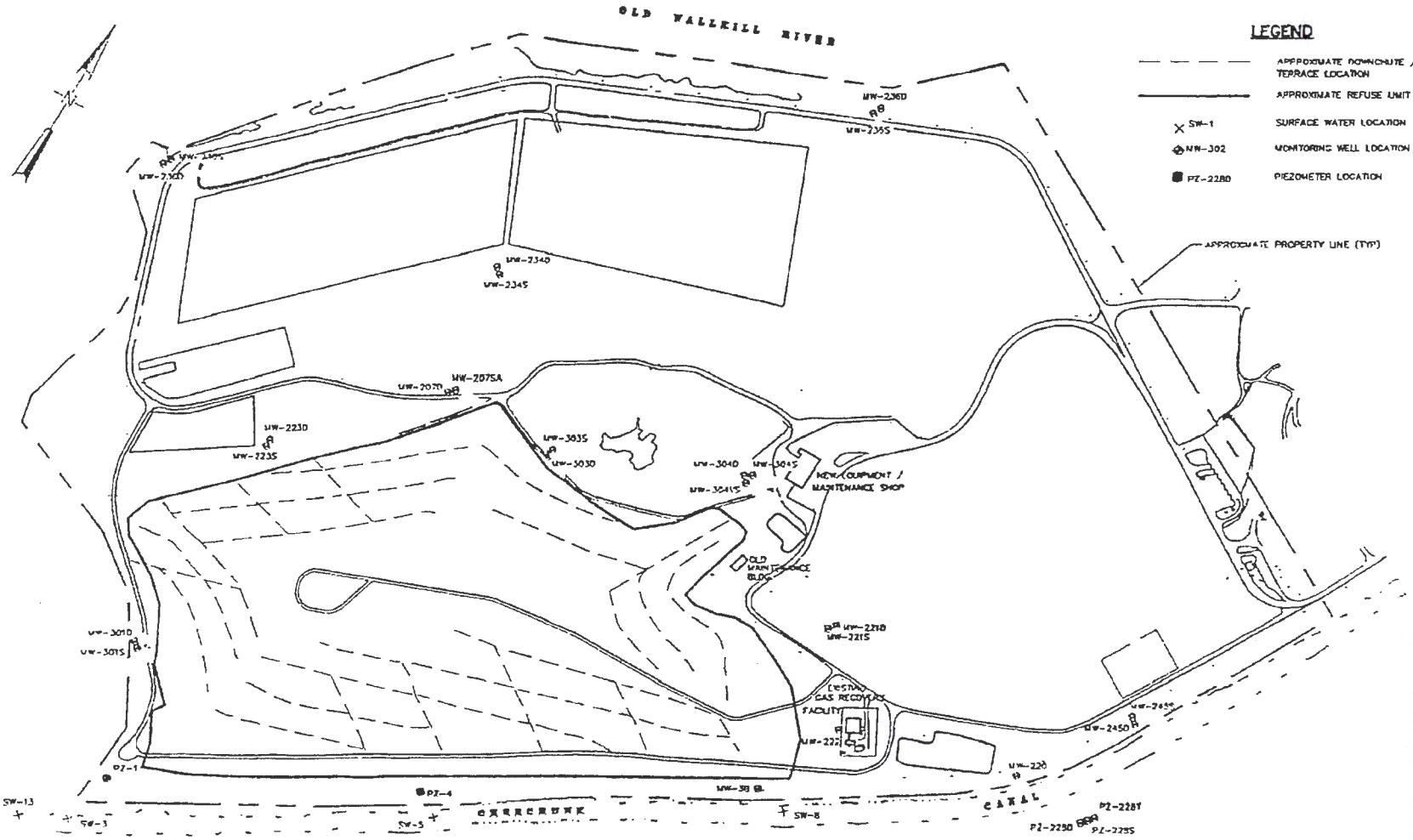


Stearns&Wheler
ENVIRONMENTAL ENGINEERS & SCIENTISTS

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: 10/17/16 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: 8/24/16			
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

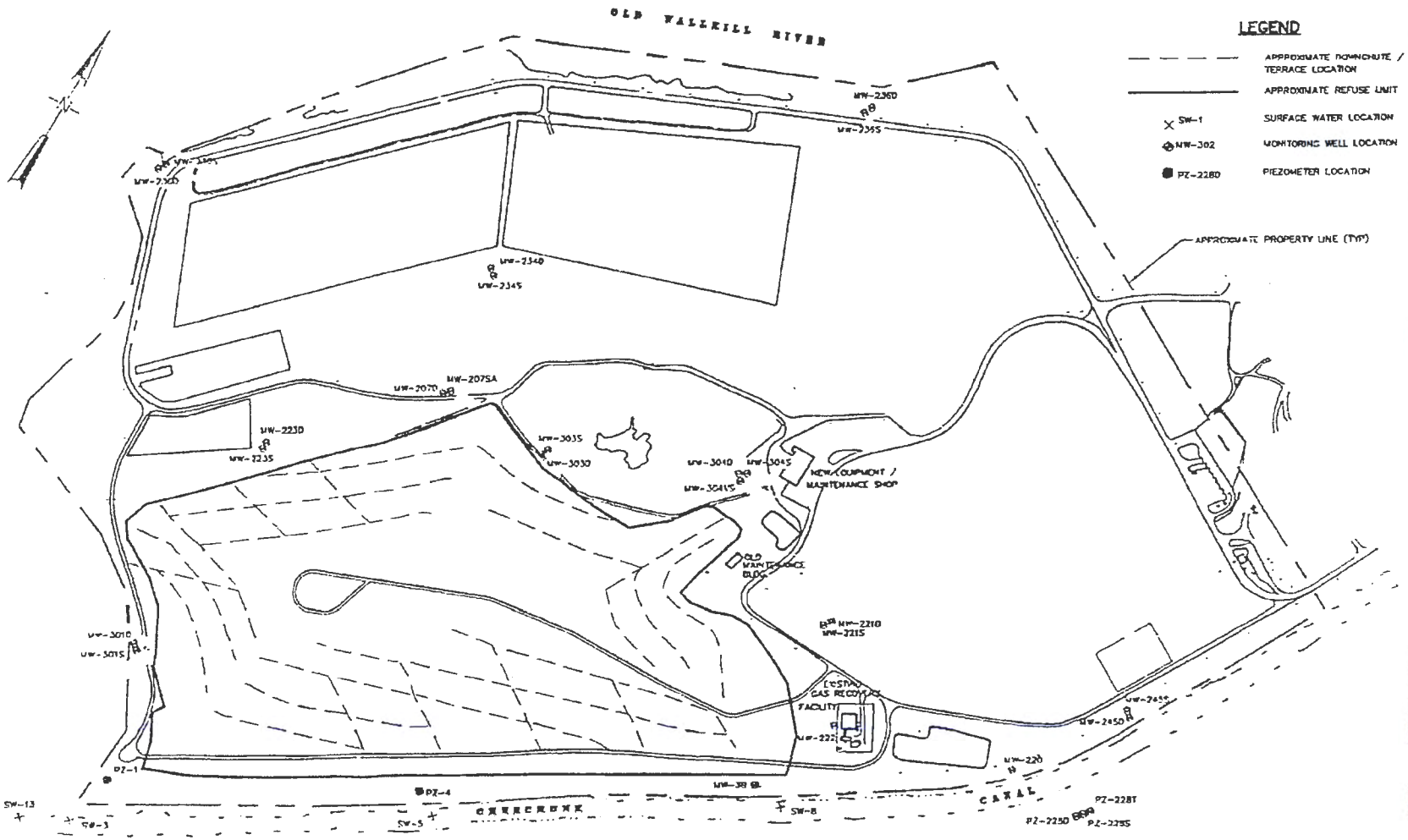
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 11/15/16 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: 8/24/16			
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

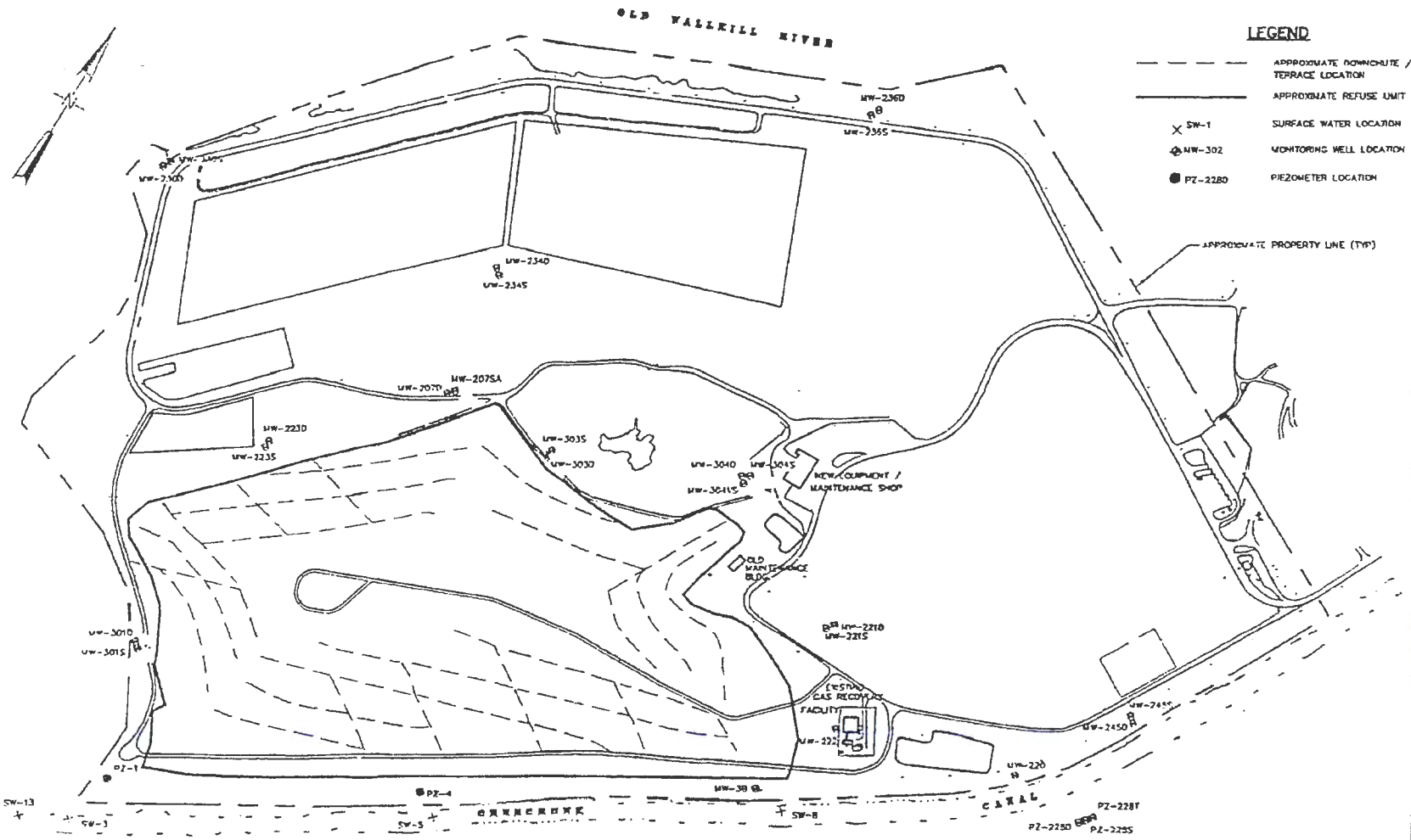
COMMENTS:

CORRECTIVE ACTION TAKEN:

BY:

DATE:

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: 12/15/16 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: 5/24/16			
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

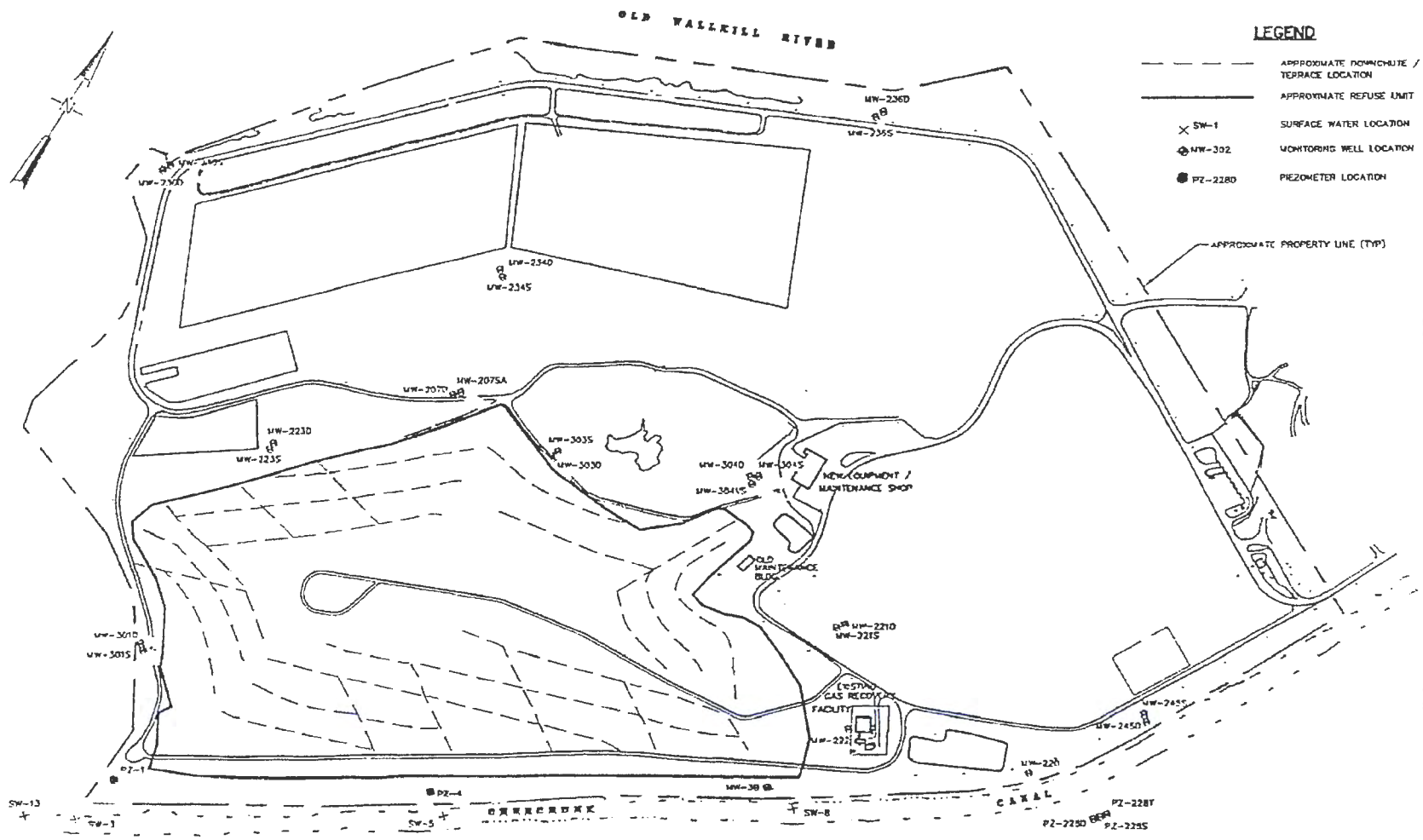
COMMENTS: L-2 and L-4 were found disconnected from Ice build up. L-5 has a crack in the connection pipe itself.

CORRECTIVE ACTION TAKEN:

BY: Ken Sherman

DATE: 12/15/16

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: 1/1/2016 to 12/31/2016
From Material: 047 to 049
From Customer: to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 2/17/2017
Print Time: 8:48AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
			Outgoing					
Material:	**048**	Fred A. Cook Jr. Inc		Note = 048: Refers to Leachate Tanks 1-4				
Customer:	**140**	LEACH. - MANHOLES						
1717	1/4/16	2151917	4878.049 Gal	20.000 tn			$0.00	$0.00
1717	1/6/16	2152217	2107.317 Gal	8.640 tn			$0.00	$0.00
1717	1/6/16	2152264	5131.707 Gal	21.040 tn			$0.00	$0.00
1717	1/14/16	2153302	3351.220 Gal	13.740 tn			$0.00	$0.00
1717	1/15/16	2153388	4846.341 Gal	19.870 tn			$0.00	$0.00
1717	1/15/16	2153437	4939.024 Gal	20.250 tn			$0.00	$0.00
1717	1/19/16	2153744	4982.927 Gal	20.430 tn			$0.00	$0.00
1717	1/19/16	2153793	5107.317 Gal	20.940 tn			$0.00	$0.00
1717	1/19/16	2153832	3092.683 Gal	12.680 tn			$0.00	$0.00
1717	2/4/16	2155583	2358.537 Gal	9.670 tn			$0.00	$0.00
1717	2/4/16	2155607	5131.707 Gal	21.040 tn			$0.00	$0.00
1717	2/4/16	2155668	5129.268 Gal	21.030 tn			$0.00	$0.00
1717	2/10/16	2156342	4970.732 Gal	20.380 tn			$0.00	$0.00
1717	2/16/16	2156738	3973.171 Gal	16.290 tn			$0.00	$0.00
1717	2/16/16	2156775	5017.073 Gal	20.570 tn			$0.00	$0.00
1717	2/22/16	2157618	4197.561 Gal	17.210 tn			$0.00	$0.00
1717	3/4/16	2159012	2882.927 Gal	11.820 tn			$0.00	$0.00
1717	3/4/16	2159016	2207.317 Gal	9.050 tn			$0.00	$0.00
1717	3/4/16	2159056	5029.268 Gal	20.620 tn			$0.00	$0.00
1715	3/15/16	2160574	6770.732 Gal	27.760 tn			$0.00	$0.00
1717	3/30/16	2162916	4985.366 Gal	20.440 tn			$0.00	$0.00
1717	3/31/16	2162981	1356.098 Gal	5.560 tn			$0.00	$0.00
1717	3/31/16	2163048	4948.780 Gal	20.290 tn			$0.00	$0.00
1717	5/2/16	2168015	1463.415 Gal	6.000 tn			$0.00	$0.00
1717	5/2/16	2168024	1704.878 Gal	6.990 tn			$0.00	$0.00
1717	5/5/16	2168614	4760.976 Gal	19.520 tn			$0.00	$0.00
1717	5/6/16	2168715	1719.512 Gal	7.050 tn			$0.00	$0.00
1717	5/25/16	2171748	4890.244 Gal	20.050 tn			$0.00	$0.00
1715	5/27/16	2172125	6412.195 Gal	26.290 tn			$0.00	$0.00
1717	5/31/16	2172320	4629.268 Gal	18.980 tn			$0.00	$0.00
1717	5/31/16	2172386	5146.341 Gal	21.100 tn			$0.00	$0.00
1717	6/17/16	2175508	4685.366 Gal	19.210 tn			$0.00	$0.00
1717	6/21/16	2175925	4721.951 Gal	19.360 tn			$0.00	$0.00
1717	6/21/16	2176050	4848.780 Gal	19.880 tn			$0.00	$0.00
1717	7/12/16	2179510	4700.000 Gal	19.270 tn			$0.00	$0.00
1715	7/20/16	2180680	5902.439 Gal	24.200 tn			$0.00	$0.00
1717	7/20/16	2180741	4824.390 Gal	19.780 tn			$0.00	$0.00
1715	7/20/16	2180748	6892.683 Gal	28.260 tn			$0.00	$0.00
1717	9/20/16	2190418	5190.244 Gal	21.280 tn			$0.00	$0.00
1717	9/21/16	2190533	4548.780 Gal	18.650 tn			$0.00	$0.00
1717	9/21/16	2190592	5143.902 Gal	21.090 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 1/1/2016 to 12/31/2016
From Material: 047 to 049
From Customer: to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 2/17/2017
Print Time: 8:49AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
1717	9/23/16	2190819	5175.610 Gal	21.220 tn			$0.00	$0.00
1717	9/23/16	2190876	4843.902 Gal	19.860 tn			$0.00	$0.00
1717	10/6/16	2192868	4526.829 Gal	18.560 tn			$0.00	$0.00
1719	10/28/16	2196128	6729.268 Gal	27.590 tn			$0.00	$0.00
1717	12/12/16	2202517	3114.634 Gal	12.770 tn			$0.00	$0.00
1717	12/14/16	2202733	1931.707 Gal	7.920 tn			$0.00	$0.00
1717	12/14/16	2202838	4697.561 Gal	19.260 tn			$0.00	$0.00
1717	12/15/16	2202946	4978.049 Gal	20.410 tn			$0.00	$0.00
1717	12/15/16	2202993	4748.780 Gal	19.470 tn			$0.00	$0.00
1717	12/16/16	2203125	4995.122 Gal	20.480 tn			$0.00	$0.00
Fred A. Cook Jr. Inc Totals			225321.948 Gal	923.820 tn			$0.00	$0.00
Tickets: 51								
LEACH. - MANHOLES Totals			225321.948 Gal	923.820 tn			$0.00	$0.00
Tickets: 51								
Material: 049		Fred A. Cook Jr. Inc		Note = 049: Refers to Leachate Tanks 5-7				
Customer: 140		NEW CONST.-DITCH/POND						
1717	1/4/16	2151852	4878.049 Gal	20.000 tn			$0.00	$0.00
1717	1/6/16	2152209	2841.463 Gal	11.650 tn			$0.00	$0.00
1717	1/13/16	2153138	1953.659 Gal	8.010 tn			$0.00	$0.00
1717	1/13/16	2153165	4973.171 Gal	20.390 tn			$0.00	$0.00
1717	1/14/16	2153294	1560.976 Gal	6.400 tn			$0.00	$0.00
1717	1/18/16	2153693	5100.000 Gal	20.910 tn			$0.00	$0.00
1717	1/19/16	2153713	5087.805 Gal	20.860 tn			$0.00	$0.00
1717	1/19/16	2153822	2019.512 Gal	8.280 tn			$0.00	$0.00
1717	1/22/16	2154275	5009.756 Gal	20.540 tn			$0.00	$0.00
1717	2/4/16	2155578	2751.220 Gal	11.280 tn			$0.00	$0.00
1717	2/9/16	2156179	982.927 Gal	4.030 tn			$0.00	$0.00
1717	2/9/16	2156185	4051.220 Gal	16.610 tn			$0.00	$0.00
1717	2/9/16	2156224	4990.244 Gal	20.460 tn			$0.00	$0.00
1717	2/10/16	2156303	5039.024 Gal	20.660 tn			$0.00	$0.00
1717	2/16/16	2156734	880.488 Gal	3.610 tn			$0.00	$0.00
1717	2/24/16	2157862	2890.244 Gal	11.850 tn			$0.00	$0.00
1717	2/24/16	2157868	2112.195 Gal	8.660 tn			$0.00	$0.00
1717	2/24/16	2157901	5126.829 Gal	21.020 tn			$0.00	$0.00
1717	3/11/16	2159979	1670.732 Gal	6.850 tn			$0.00	$0.00
1717	3/11/16	2160016	4980.488 Gal	20.420 tn			$0.00	$0.00
1717	3/11/16	2160109	5092.683 Gal	20.880 tn			$0.00	$0.00
1717	3/17/16	2160967	2534.146 Gal	10.390 tn			$0.00	$0.00
1717	3/24/16	2161987	1404.878 Gal	5.760 tn			$0.00	$0.00
1717	3/25/16	2162094	4982.927 Gal	20.430 tn			$0.00	$0.00
1717	3/25/16	2162181	5136.585 Gal	21.060 tn			$0.00	$0.00
1717	3/31/16	2162975	1341.463 Gal	5.500 tn			$0.00	$0.00
1717	4/4/16	2163480	5021.951 Gal	20.590 tn			$0.00	$0.00

Material Usage ALL SITES

From Date: 1/1/2016 to 12/31/2016
From Material: 047 to 049
From Customer: to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 2/17/2017
Print Time: 8:49AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
1717	4/4/16	2163525	5117.073 Gal	20.980 tn			$0.00	$0.00
1717	4/14/16	2165076	1090.244 Gal	4.470 tn			$0.00	$0.00
1717	4/21/16	2166092	2078.049 Gal	8.520 tn			$0.00	$0.00
1717	4/21/16	2166095	2936.585 Gal	12.040 tn			$0.00	$0.00
1717	4/27/16	2167289	3770.732 Gal	15.460 tn			$0.00	$0.00
1717	5/2/16	2168091	3080.488 Gal	12.630 tn			$0.00	$0.00
1717	5/2/16	2168141	3139.024 Gal	12.870 tn			$0.00	$0.00
1717	5/12/16	2169514	2370.732 Gal	9.720 tn			$0.00	$0.00
1717	5/12/16	2169523	2675.610 Gal	10.970 tn			$0.00	$0.00
1717	5/12/16	2169578	3041.463 Gal	12.470 tn			$0.00	$0.00
1717	5/12/16	2169640	5100.000 Gal	20.910 tn			$0.00	$0.00
1715	5/27/16	2172044	6851.220 Gal	28.090 tn			$0.00	$0.00
1717	5/31/16	2172486	1400.000 Gal	5.740 tn			$0.00	$0.00
1717	5/31/16	2172548	5168.293 Gal	21.190 tn			$0.00	$0.00
1717	6/16/16	2175305	2478.049 Gal	10.160 tn			$0.00	$0.00
1717	6/17/16	2175441	4829.268 Gal	19.800 tn			$0.00	$0.00
1717	6/21/16	2175991	4946.341 Gal	20.280 tn			$0.00	$0.00
1717	6/29/16	2177514	843.902 Gal	3.460 tn			$0.00	$0.00
1717	7/12/16	2179385	1248.780 Gal	5.120 tn			$0.00	$0.00
1717	7/12/16	2179394	3619.512 Gal	14.840 tn			$0.00	$0.00
1717	7/12/16	2179448	5200.000 Gal	21.320 tn			$0.00	$0.00
1717	7/20/16	2180684	446.341 Gal	1.830 tn			$0.00	$0.00
1717	7/20/16	2180696	4439.024 Gal	18.200 tn			$0.00	$0.00
1717	7/30/16	2182411	1114.634 Gal	4.570 tn			$0.00	$0.00
1717	7/30/16	2182431	5729.268 Gal	23.490 tn			$0.00	$0.00
1717	9/1/16	2187654	2926.829 Gal	12.000 tn			$0.00	$0.00
1717	9/1/16	2187666	821.951 Gal	3.370 tn			$0.00	$0.00
1717	9/20/16	2190303	1973.171 Gal	8.090 tn			$0.00	$0.00
1717	9/20/16	2190310	2858.537 Gal	11.720 tn			$0.00	$0.00
1717	9/20/16	2190351	5014.634 Gal	20.560 tn			$0.00	$0.00
1717	9/23/16	2190933	5209.756 Gal	21.360 tn			$0.00	$0.00
1717	10/6/16	2192783	4336.585 Gal	17.780 tn			$0.00	$0.00
1715	10/28/16	2196043	2892.683 Gal	11.860 tn			$0.00	$0.00
1715	10/28/16	2196053	4024.390 Gal	16.500 tn			$0.00	$0.00
1717	12/8/16	2202039	4782.927 Gal	19.610 tn			$0.00	$0.00
1717	12/14/16	2202731	2482.927 Gal	10.180 tn			$0.00	$0.00
1717	12/14/16	2202765	4951.220 Gal	20.300 tn			$0.00	$0.00
1717	12/15/16	2202897	2063.415 Gal	8.460 tn			$0.00	$0.00
Fred A. Cook Jr. Inc Totals			221468.292 Gal	908.020 tn			$0.00	$0.00
Tickets: 65								
NEW CONST.-DITCH/POND Totals			221468.292 Gal	908.020 tn			$0.00	$0.00
Tickets: 65								

Material Usage ALL SITES

From Date: 1/1/2016 to 12/31/2016
From Material: 047 to 049
From Customer: to zzzzzzzzzzzzzzz
Direction: ALL

Print Date: 2/17/2017
Print Time: 8:49AM

Truck ID	Ticket Date	Ticket Number	Unit	Net	Material	Tax	Other	Total
Outgoing Totals				1831.840 tn			$0.00	$0.00
Tickets: 116								
In and Outbound Combined Totals				**1,831.84**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
				0.00				

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: 75.0

Reporting Period: January 1, 2016 to January 31, 2017

	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

Box2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	X	
7. Are all ICs/ECs 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.*
*As described in Section 4.2.2 of the Periodic Review Report, seeps have been investigated through work plans approved by NYSDEC pursuant to the Order on Consent

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 336007 **Box3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
16-1-1.1	I. C. Dept. Envrion. Facilities Services	Monitoring Plan O&M Plan

Box4

Description of Engineering Controls

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

Engineering Control Details for Site No. 336007

Parcel: 16-1-1.1

This is a municipal landfill that has been capped under Title 3, with leachate collection and gas collection. Periodic groundwater monitoring and inspections and reporting in accordance with the 1997 OM &M plan (and updates thereto) are required.

Box5

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 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. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or 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.

Peter S. Hammond (print name) at 2455-2459 Route 17M, Goshen, New York 10924-0637 (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

4-13-17
Date

IC/EC CERTIFICATIONS

Box7

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.

Mark P. Millspaugh, P.E. at 24 Wade Road, Latham, New York 12110

print name print business address

am certifying as a Professional Engineer for the Orange County Department of Public Works

(Owner or Remedial Party)

LICENSED PROFESSIONAL ENGINEER
MARK P. MILLSPAUGH
059182
STATE OF NEW YORK

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

Stamp (Required for PE)

4/13/17

Date

APPENDIX D

2017 PCM SAMPLING EVENT FORMS

WATER LEVEL MEASUREMENTS

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, N.Y. 12110

Project Name: Orange County LF
Project No. 2010-15
Location New Hampton, NY
Weather: Overcast, Rainy, 35-45°F
Field Personnel: Cody Sargood, Joe Spaulding
Measuring Device: Water Level Indicator

Well ID	Date	Time	Total Well Depth	Depth to Water	Measuring Point	Meas. Pt. Elevation	Calc. Water Level Elev.	PID Reading (ppm)	4-Gas Reading (%LEL/CO/H2S/O2)	Remarks
PZ-1A	1/26/2017	954	75.25	12.71	Top PVC	385.28	372.57	0.0	0/0/0/19.2	
MW-222	1/26/2017	1155	25.35	19.74	Top PVC	382.49	362.75	0.0	>100/0/0/15.9	
MW-221S	1/26/2017	1142	20.93	17.81	Top PVC	381.44	363.63	0.0	0/0/0/19.2	
MW-221D	1/26/2017	1144	20.93	15.56	Top PVC	381.29	365.73	0.0	0/0/0/19.2	
MW-304S	1/26/2017	1107	27.63	26.74	Top PVC	390.92	364.18	0.0	0/0/0/19.2	
MW-304VS	1/26/2017	1105	5.14	4.51	Top PVC	390.72	386.21	0.0	0/0/0/19.2	
MW-304D	1/26/2017	1109	57.15	25.3	Top PVC	390.08	364.78	0.0	0/0/0/19.2	
MW-312S	1/26/2017	1100	19.93	17.39	Top PVC	385.93	368.54	0.0	0/0/0/19.2	
MW-303S	1/26/2017	1118	22.45	18.38	Top PVC	389.95	371.57	3.8	>100/0/0/0	
MW-207D	1/26/2017	1130	55.80	18.7	Top PVC	390.92	372.22	0.0	0/0/0/19.2	
MW-207SA	1/26/2017	1127	24.88	17.57	Top PVC	389.74	372.17	0.6	0/0/0/19.2	
PZ-14-5	1/26/2017	1159	39.84	29.41	Top PVC	392.08	362.67	0.0	0/0/0/19.2	
PZ-14-1	1/26/2017	1206	39.86	27.32	Top PVC	390.10	362.78	0.0	0/0/0/19.2	
PZ-14-2	1/26/2017	1205	30.20	19.24	Top PVC	381.84	362.60	0.0	0/0/0/19.2	
PZ-14-3	1/26/2017	1204	29.94	19.3	Top PVC	381.71	362.41	0.0	0/0/0/19.2	
PZ-14-4	1/26/2017	1203	30.22	19.25	Top PVC	381.70	362.45	0.0	0/0/0/19.2	
PA-14-6	1/26/2017	1201	37.20	28.36	Top PVC	390.95	362.59	0.0	0/0/0/19.2	
PZ-11	1/26/2017	1000	25.10	17.45	Top PVC	390.41	372.96	0.0	0/0/0/19.2	
MW-230D	1/25/2017	1011	---	---	Top Steel	385.51	---	0.0	0/0/0/19.2	Obstruction @ 4.90'
MW-230S	1/25/2017	1009	12.82	11.75	Top PVC	385.60	373.85	0.0	0/0/0/19.2	
MW-223S	1/26/2017	1020	62.85	16.56	Top PVC	389.25	372.69	0.0	0/0/0/19.2	
MW-223D	1/26/2017	1023	63.39	16.85	Top PVC	389.36	372.51	0.0	0/0/0/19.2	
MW-232S	1/26/2017	1035	23.20	14.60	Top PVC	388.64	374.04	0.0	0/0/0/19.2	
MW-234S	1/26/2017	1040	38.88	18.91	Top PVC	389.29	370.38	0.0	0/0/0/19.2	
MW-234D	1/26/2017	1042	81.50	18.2	Top PVC	390.10	371.90	0.0	0/0/0/19.2	
PZ-4	1/25/2017	1055	54.30	13.35	Top PVC	382.34	368.99	0.0	0/0/0/19.2	
MW-231D	1/26/2017	1006	52.68	15.55	Top PVC	---	---	0.0	0/0/0/19.2	
MW-233S	1/25/2017	850	19.92	13.69	Top PVC	389.29	375.60	0.0	0/0/0/19.2	
MW-233D	1/25/2017	930	102.98	17.81	Top PVC	---	---	0.0	0/0/0/19.2	
MW-303D	1/26/2017	1120	69.49	18.17	Top PVC	389.83	371.66	0.0	4/0/0/19.2	
MW-3B	1/25/2017	1200	52.81	24.71	Top PVC	386.43	361.72	0.0	0/0/0/19.2	
MW-245S	1/25/2017	1410	46.85	30.52	Top PVC	391.13	360.61	0.0	0/0/0/19.2	
MW-245D	1/25/2017	1445	80.50	29.94	Top PVC	391.08	361.14	0.0	0/0/0/19.2	
MW-220	1/25/2017	1315	30.00	16.48	Top PVC	378.94	360.46	0.0	0/0/0/19.2	
MW-235S	1/26/2017	1050	---	---	---	388.04	---	---	---	Could not be located
MW-235D	1/26/2017	1050	---	---	---	393.74	---	---	---	Could not be located

SURFACE WATER DATA FORM

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project Name: Orange County Landfill
Project No. 2010-15
Date: January 25, 2017
Field Personnel: Joseph Spaulding, Cody Sargood
Measuring Devices: YSI, Hannah pH Stick,
WGZ - 2B - Turbidity Meter

Location	Date	Time	Temp (°C)	Spec. Cond. (mS)	pH	ORP (mV)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)
SW-13	1/25/2017	10:00	1.27	0.581	7.9	211.9	12.44	11.29
SW-5	1/25/2017	11:10	0.86	0.731	8.3	141.0	39.23	10.31
SW-8	1/25/2017	12:15	1.16	0.749	8.1	117.2	28.12	11.13

REMARKS:

STERLING Sterling Environmental Engineering, P.C.	ORANGE COUNTY COUNTY OF ORANGE LANDFILL	GROUNDWATER FIELD DATA LOG

1. **CLIENT:** Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: Partly Cloudy, 35°F

DATE: 1-25-17
TIME: 12:00 PM

Location: Town of Ramapo Landfill | **Sample ID:** MW-3B

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1988 Reg
 # OF CONTAINERS: 13
SAMPLING METHOD: Low Flow Monsoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☑ YES ☐ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd):	52.81	(ft)	Diameter (d):	2.00	(in)
Depth to Water (dw):	24.71	(ft)	Water Column:	0.167	(ft)
			Well Volume = (5.904 x d^2 (wd-dw)) =	4.59	(gallons)
Avg. Flow Rate:	0.100	(L/min)	Purge Vol:	13.76	(gallons)
Length of Time Purged:	25	(minutes)	Purge Start Time:	11:30	
Amount Purged:	2.5	(gallons)	Purge Depth:	24.71	

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
11:30	0.1	8.2	0.874	9.99	11.96	7.01	87.2	24.71
11:33	0.1	8.1	0.798	~~9.46~~	8.70	6.58	89.2	24.71
11:36	0.1	7.9	0.825	9.28	6.51	3.52	85.1	24.71
11:39	0.1	8.0	0.848	9.35	6.82	2.33	79.7	24.71
11:42	0.1	8.0	0.870	9.47	2.33	2.11	59.7	24.71
11:45	0.1	8.0	0.895	9.70	5.15	2.02	57.0	24.71

5. NOTES:

* Dup sample collected

STERLING
Sterling Environmental Engineering, P.C.

ORANGE COUNTY
COUNTY OF ORANGE LANDFILL

GROUNDWATER
FIELD DATA LOG

1. **CLIENT:** Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: Partly Sunny, 810°F

DATE: 1-25-17
TIME: 1315

Location: Town of Ramapo Landfill | **Sample ID:** MW-220

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1988 Regs
 # OF CONTAINERS: 13
SAMPLING METHOD: Low Flow Monsoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd): 30.00 (ft) — Diameter (d): 2.00 (in)
Depth to Water (dw): 18.48 (ft) — Water Column: 0.167 (ft)
Well Volume = (5.904 x d^2 (wd-dw)) = 1.98 (gallons)
Avg. Flow Rate: 0100 (mL/min) — Purge Vol: 5.64 (gallons)
Length of Time Purged: 25 (minutes) — Purge Start Time: 12:50
Amount Purged: 2.5 (gallons) — Purge Depth: 18.44

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
12:50	0.1	8.1	[illegible] 1.04	9.36	280.5	2.83	41.0	18.48
12:53	0.1	8.0	1.224	9.17	304.5	1.83	33.4	18.45
12:56	0.1	8.0	1.223	9.17	331.5	1.53	30.7	18.46
12:59	0.1	8.0	1.224	8.91	311.2	1.41	28.5	19.46
1302	0.1	8.0	1.224	8.88	280.1	1.30	26.8	18.44
1305	0.1	8.0	1.223	8.86	277.4	1.22	25.6	18.44

5. NOTES:

Slightly turbid, Yellow Brown,
No odors, No sheen

STERLING
Sterling Environmental Engineering, P.C.

ORANGE COUNTY
COUNTY OF ORANGE LANDFILL

GROUNDWATER
FIELD DATA LOG

1. **CLIENT:** Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: Cloudy, 30°F

DATE: 1-25/17
TIME: 8:50

Location: Town of Ramapo Landfill | **Sample ID:** MW-233S

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline 33 Regs
 # OF CONTAINERS: 13
SAMPLING METHOD: SS Monsoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd): 19.92 (ft) | Diameter (d): 2.00 (in)
Depth to Water (dw): 13.69 (ft) | Water Column: 0.167 (ft)
Well Volume = (5.904 x d^2 (wd-dw)) = 1.02 (gallons)
Avg. Flow Rate: 0.075 (L/min) | Purge Vol: 3.175 (gallons)
Length of Time Purged: 30 (minutes) | Purge Start Time: 8:20
Amount Purged: 2.25 (gallons) | Purge Depth: 13.70

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
8:20	0.075	6.0	0.461	8.12	142.1	3.21	230.7	13.70
8:25	0075	6.7	0.470	7.81	123.8	3.05	220.5	13.70
8:30	0.075	6.8	0.470	7.80	120.5	3.04	220.1	13.70
8:35	0.075	7.0	0.472	7.78	113.0	3.07	218.5	13.70
8:32	0.075	7.1	0.470	7.97	103.0	3.00	216.3	13.70
8:35	0.075	7.1	0.470	8.39	96.3	2.81	209.8	13.70
8:38	0.075	7.1	0.480	8.23	90.10	2.61	~~209~~ 202.4	13.70

5. NOTES:

Brown color, Slightly turbid, No odor, No sheen

STERLING Sterling Environmental Engineering, P.C.	ORANGE COUNTY COUNTY OF ORANGE LANDFILL	GROUNDWATER FIELD DATA LOG

1. **CLIENT:** Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: Cloudy, 32°F

DATE: 1/25/17
TIME: 9:30

Location: Town of Ramapo Landfill | **Sample ID:** MW-233D

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1988 Regs
 # OF CONTAINERS: 13
SAMPLING METHOD: SS Masoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd):	102.98	(ft)	Diameter (d):	2.00	(in)
Depth to Water (dw):	17.81	(ft)	Water Column:	0.167	(ft)
			Well Volume = (5.904 x d^2 (wd-dw)) =	13.90	(gallons)
Avg. Flow Rate:	0.075	(L/min)	Purge Vol:	41.70	(gallons)
Length of Time Purged:	20	(minutes)	Purge Start Time:	9:06	
Amount Purged:	1.5	(gallons)	Purge Depth:	19.70	

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
9:06	0.075	7.7	1.054	8.34	19.32	10.52	111.2	18.95
9:09	0.075	7.9	1.064	8.05	16.60	5.23	111.3	19.20
9:12	0.075	8.0	1.069	7.66	14.39	4.78	112.3	19.55
9:15	0.075	8.0	1.069	7.68	12.11	4.14	111.7	19.70
9:18	0.075	8.0	1.069	7.47	11.51	4.08	109.1	19.90

5. NOTES:

STERLING Sterling Environmental Engineering, P.C.	ORANGE COUNTY COUNTY OF ORANGE LANDFILL	GROUNDWATER FIELD DATA LOG

1. CLIENT: Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: Cloudy, 35°F

DATE: 1-25-17
TIME: 1410

Location: Town of Ramapo Landfill | Sample ID: MW-245 S

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1988 Regs
OF CONTAINERS: 13
SAMPLING METHOD: Low Flow Monsoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd): 46.85 (ft)
Depth to Water (dw): 30.52 (ft)
Avg. Flow Rate: 0.075 (L/min)
Length of Time Purged: ~~0~~ 25 (minutes)
Amount Purged: 1.875 (gallons)

Diameter (d): 2.00 (in)
Water Column: 0.167 (ft)
Well Volume = (5.904 x d^2 (wd-dw)) = 2.67 (gallons)
Purge Vol: 7.99 (gallons)
Purge Start Time: 1348
Purge Depth: 30.55

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
1348	0.075	8.4	1.189	8.68	884.5	3.69	20.3	30.53
1351	0.075	8.3	1.191	8.70	582.5	1.57	12.9	30.54
1354	0.075	8.2	1.194	8.38	541.6	1.42	12.1	30.55
1357	0.075	8.2	1.192	8.27	490.4	1.31	11.5	30.55
1400	0.075	8.2	1.191	8.22	507.7	1.26	11.0	30.55
1403	0.075	8.2	1.193	8.12	497.8	1.24	11.0	30.55
~~1406~~ 1350	~~0~~ 0							

5. NOTES:

Light Brown color, No odor, No sheen

STERLING
Sterling Environmental Engineering, P.C.

ORANGE COUNTY
COUNTY OF ORANGE LANDFILL

GROUNDWATER
FIELD DATA LOG

1. **CLIENT:** Orange County
   SAMPLED BY: CS
   WEATHER CONDITIONS: Cloudy, 35°F

DATE: 1-25-17
TIME: 1445

Location: Town of Ramapo Landfill | **Sample ID:** 245D

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1988 Regs
 # OF CONTAINERS: 13
SAMPLING METHOD: Low Flow Mersion Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☑
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

4. WELL EVACUATION DATA

Well Depth (wd): 30.50 (ft)
Depth to Water (dw): 29.94 (ft)
Diameter (d): 2.00 (in)
Water Column: 0.167 (ft)
Well Volume = (5.904 x d^2 (wd-dw)) = 8.25 (gallons)
Avg. Flow Rate: 0.100 (L/min)
Purge Vol: 24.75 (gallons)
Length of Time Purged: 15 (minutes)
Purge Start Time: 14:20
Amount Purged: 1.5 (gallons)
Purge Depth: 29.95

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
1420	0.1	8.3	0.937	8.04	54.60	2.48	0.7	29.94
1423	0.1	8.3	0.938	8.11	17.99	1.71	20.3	29.95
1426	0.1	8.3	0.937	8.21	16.58	1.31	14.0	29.95
1429	0.1	8.3	0.939	8.26	12.37	1.25	6.3	29.95

5. NOTES:

Clear, no odor

STERLING
Sterling Environmental Engineering, P.C.

ORANGE COUNTY
COUNTY OF ORANGE LANDFILL

GROUNDWATER
FIELD DATA LOG

1. **CLIENT:** Orange County
SAMPLED BY: CS
WEATHER CONDITIONS: ~~Partly Cloudy~~, 35°F

DATE: 1/25/17
TIME: ~~10~~ 10:55

Location: Town of Ramapo Landfill | **Sample ID:** PZ-4

PRESERVATIVE: Ice, HNO3, NaOH, HCL, H2SO4
ANALYSES REQUESTED: Part 360 Baseline, 1998 Regs
 # OF CONTAINERS: 13
SAMPLING METHOD: Low Flow Monsoon Pump
SAMPLES FILTERED: ☐ YES ☑ NO
DUPLICATE SAMPLE: ☐ YES ☑ NO
LOW FLOW: ☑ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☑ Top of PVC casing ☐
Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter – Hanna pH stick	☐
Conductivity Meter – YSI 556XL	☑
Temperature – YSI 556XL	☑
Turbidity Meter – Xinrui	☑
DO Meter – YSI 556XL	☑
ORP Meter – YSI 556XL	☑
Other -	☐

5. NOTES:

4. WELL EVACUATION DATA

Well Depth (wd): 54.30 (ft) | Diameter (d): 2.00 (in)
Depth to Water (dw): 13.35 (ft) | Water Column: 0.167 (ft)
Well Volume = (5.904 x d^2 (wd-dw)) = 6.68 (gallons)
Avg. Flow Rate: 0.075 (~~ml~~ L/min) | Purge Vol: 20.05 (gallons)
Length of Time Purged: 20 (minutes) | Purge Start Time: 1030
Amount Purged: 1.5 (gallons) | Purge Depth: 13.37

Time	Flow Rate (L/min)	pH	Sp. Cond mg/L	Temp. °C	Turbidity	DO	ORP (mV)	Water Level
10:30	0.075	7.7	1.245	9.46	9.54	1.66	97.1	13.35
10:33	0.075	7.7	1.260	9.31	10.63	1.61	89.4	13.36
10:36	0.075	7.8	1.267	9.22	10.15	1.48	85.0	13.36
10:39	0.075	7.8	1.273	9.11	9.53	1.25	92.6	13.36
10.42	0.075	7.8	1.273	9.14	9.35	1.33	98.8	13.37

GROUNDWATER QUALITY DATA FORM

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project Name: Orange County LF
Project No. 2010.75
Date: 1/25/17
Field Personnel: @ + JS
Measuring Device: YSI, Water level Indicator, pH Stick, Turbidity Meter

Well ID #	Depth to Water (feet BMP)	Water Level Elev.	Time	Spec. Cond. (ms/cm)	ORP (mV)	pH	Turbidity (NTU's)	Temp. °C	DO mg/L
MW-23S	13.64	375.60	850	0.980	202.9	7.1	90.10	8.23	2.61
MW-23D	17.81	- - -	930	1.069	109.1	8.0	11.51	7.47	4.08
PZ-4	~~13.85~~ 13.35	368.99	10:55	1.273	99.8	7.8	9.35	9.14	1.33
MW-3B	24.71	361.72	1200	0.885	57.0	8.0	5.15	9.70	2.02
MW-22D	18.48	360.46	1315	1.223	25.6	8.0	277.4	8.86	1.22
MW-24S	30.52	360.61	1410	1.193	11.0	8.2	~~4.99~~ 4.98	8.12	1.24
MW-24D	29.94	361.14	1445	0.939	6.3	8.3	12.37	8.26	1.25

REMARKS:

Leachate

PID - 0.7
LEL - 100%

[redacted] SAMPLING RECORD

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

PROJECT NAME Orange County LF
PROJECT NUMBER 20010
SITE LOCATION Orange County, NY

WELL ID MH-7
DATE 1-26-17

WELL VOLUMES:
2" Diam. = 0.16 gal/ft
4" Diam. = 0.65 gal/ft.
6" Diam. = 1.47 gal/ft.

GENERAL
Weather Conditions: Light misting, 40°F
Site Access/Conditions: Good Condition
Physical Condition of Well: Manhole - Good

PURGING INFORMATION
Depth to Water: 20.71 — Depth to Well Bottom: 21.72 — Ref. Elev.: —
Water Column Height: 1.01 — Well Casing Diameter: —
Well Volume: — — Purging Method: Bailer
Actual Volume Evacuated: — — Purging Time Start: — — Time Stop: —
Depth to Water Prior to Sampling: 20.71
Remarks:

OBSERVATIONS
Color: light green to brown — Odor: Strong sulphur / leachate odor
Turbidity: Fairly Turbid — Sheen: slight rainbow sheen present on surface
Presence of NAPL: — — Other: —
Remarks:

SAMPLING INFORMATION
Field Personnel: (A) & JS
Sampling Method: Grab
Sample Date: 1/26/17 — Time: 8:10
Sample Description: Leachate Sample
Analysis: Baseline Parameters (9A' Regs)

FIELD MEASUREMENTS	Well Vol. 1	Well Vol. 2	Well Vol. 3		
Temperature	9.88				
pH	8.456				
Conductance	7.5				
Turbidity	129.3				
Redox	-34.2				
DO	5.29				

CALIBRATION:	INSTRUMENT ID:
Temperature	YSI 556
pH	Hanna pH stick
Conductance	YSI 556
Turbidity	Xian turbidity meter
Redox	YSI 556
Dissolved Oxygen	" "

Leachate [redacted]ECORD

PID = 0.0 ppm
H-Gas = 0.0% LEL

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

PROJECT NAME Orange County LF
PROJECT NUMBER 20010
SITE LOCATION Orange County, NY

WELL ID MH-15
DATE 1-26-17

WELL VOLUMES:
2" Diam. = 0.16 gal/ft
4" Diam. = 0.65 gal/ft.
6" Diam. = 1.47 gal/ft.

GENERAL
Weather Conditions: Rain, 40°F
Site Access/Conditions: Good
Physical Condition of Well: Good (Manhole)

PURGING INFORMATION
Depth to Water: 11.04
Water Column Height: 4.53
Well Volume: —
Actual Volume Evacuated: —
Depth to Water Prior to Sampling: —
Remarks: —
Depth to Well Bottom: 15.57
Well Casing Diameter: —
Purging Method: Bailer
Purging Time Start: —
Time Stop: —
Ref. Elev.: —

OBSERVATIONS
Color: slight yellow/green tint
Turbidity: —
Presence of NAPL: —
Remarks: —
Odor: Sulfur/Leachate odor
Sheen: Sheen on surface.
Other: —

SAMPLING INFORMATION
Field Personnel: CP & JS
Sampling Method: Grab
Sample Date: 1/26/17
Time: 8:50
Sample Description: Leachate Sample
Analysis: Baseline (88 regs)

FIELD MEASUREMENTS	Well Vol. 1	Well Vol. 2	Well Vol. 3		
Temperature	7.49				
pH	8.3				
Conductance	1.915				
Turbidity	189.9				
Redox	20.3				
DO	4.05				

CALIBRATION:	INSTRUMENT ID:
Temperature	YSI 556
pH	Hanna pH stick
Conductance	YSI 556
Turbidity	Turbidity Meter
Redox	YSI 556
Dissolved Oxygen	YSI 556

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 1

Date Rec'd in Lab: 1/25/17

ALPHA Job #: L1702506

Client Information

Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironmen

Project Information

Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project # 2010-15
(Use Project name as Project #) ☐
Project Manager:
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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex
Cody.Sargood@sterlingenvironmental.com, mark.williams@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	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Total # Bottles
	~~MH-15~~			~~Water~~		X	X	X	X	X	X	X			~~12~~
	~~MH-7~~			~~Water~~		X	X	X	X	X	X	X			~~12~~
02506-10	SW-5	1/25/17	1110	Water	(a)	X	X	X	X	X	X	X			12
11	SW-8	1/25/17	1215	Water	(a)	X	X	X	X	X	X	X			12
12	SW-13	1/25/17	1000	Water	(a)	X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				~~Water~~		X	X	X	X	X	X	X			~~12~~
				~~Water~~		X	X	X	X	X	X	X			12
	Trip Blank			Lab Water								X		Trip Blank	2

Container Type: A P P P P V V
Preservative: D A C D A D 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
	1/25/17 1615		1-25-17 16:15
	1-25-17 17:15		1-25-17 1810
	1-25-17 2300		1/25/17 23

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.

Form No: 01-25 (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 1 of 2

Date Rec'd in Lab: 1/25/17

ALPHA Job #: L1702506

Client Information

Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironme

Project Information

Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project # 2010-15
(Use Project name as Project #) ☐
Project Manager:
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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex
cc'y. S.rgo.d@sterlingenvironmental.com
mark.williams@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☑ Lab to do (Dissolved Metals)
Preservation
☑ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Outside Lab
02506-01	MW-2335	1/25/17	850	Water	(a)	X	X	X	X	X	X	X	X		12
02	MW-2338 D		930	Water	(a)	X	X	X	X	X	X	X	X		12
03	MW-38		1200	Water	(a)	X	X	X	X	X	X	X	X		12
04	MW-220		1315	Water	(a)	X	X	X	X	X	X	X	X		12
05	MW-2455		1410	Water	(a)	X	X	X	X	X	X	X	X		12
06	MW-245 D		1445	Water	(a)	X	X	X	X	X	X	X	X		12
07	~~PZ~~ PZ-4		1055	Water	(a)	X	X	X	X	X	X	X	X		12
11	MS/MSD		1215	Water	(a)	X	X	X	X	X	X	X	X		12
08	Dup	✓	--	water	(a)	X	X	X	X	X	X	X	X		13
09	Trip Blank	1/25/17	--	Lab Water	(a)							X		Trip Blank	2

Container Type: A P P P P V V P
Preservative: D A C D A D B 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
	1/25/17 1615		1-25-17 1615
	1-25-17 17:15	Tom Tobin	1-25-17 1800
Tom Tobin	1-25-17 2300		1/25/17 2300

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Form No: 01-25 (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
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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 1

Date Rec'd in Lab: 1/27/17 (1/27/16)

ALPHA Job #: L1702506

Client Information

Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironme

Project Information

Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project # 2010-15
(Use Project name as Project #) ☐
Project Manager: Mark Williams
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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex
rody.spaulding@sterlingenvironmental.com mwilliams@sterlingenvironmental

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	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Total # Bottles
92506.13	MH-7	1/26/17	810	Water	CO	X	X	X	X	X	X	X			12
.14	MH-15	1/26/17	815	Water	CO	X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
.15	Trip Blank	1/26/17	900	Lab Water	CO							X		Trip Blank	2

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

Container Type	A	P	P	P	P	V	V	
Preservative	D	A	C	D	A	D	B	

Relinquished By:	Date/Time	Received By:	Date/Time
	1/26/17 15:45		1-26-17 16:45
Robert Greene	1-26-17 16:45		1/26/17 15:45
	15:45		

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Form No: 01-25 (rev. 30-Sept-2013)

APPENDIX E

ANALYTICAL REPORT

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1702506
Client:	Sterling Environmental Eng 24 Wade Road Latham, NY 12110
ATTN:	Cody Sargood
Phone:	(518) 456-4900
Project Name:	ORANGE COUNTY- BASELINE 88 REG
Project Number:	2010-15
Report Date:	02/06/17

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1702506-01	MW-233S	WATER	NY	01/25/17 08:50	01/25/17
L1702506-02	MW-233D	WATER	NY	01/25/17 09:30	01/25/17
L1702506-03	MW-3B	WATER	NY	01/25/17 12:00	01/25/17
L1702506-04	MW-220	WATER	NY	01/25/17 13:15	01/25/17
L1702506-05	MW-245S	WATER	NY	01/25/17 14:10	01/25/17
L1702506-06	MW-245D	WATER	NY	01/25/17 14:45	01/25/17
L1702506-07	PZ-4	WATER	NY	01/25/17 10:55	01/25/17
L1702506-08	DUP	WATER	NY	01/25/17 00:00	01/25/17
L1702506-09	TRIP BLANK	WATER	NY	01/25/17 00:00	01/25/17
L1702506-10	SW-5	WATER	NY	01/25/17 11:10	01/25/17
L1702506-11	SW-8	WATER	NY	01/25/17 12:15	01/25/17
L1702506-12	SW-13	WATER	NY	01/25/17 10:00	01/25/17
L1702506-13	MH-7	WATER	NY	01/26/17 08:10	01/26/17
L1702506-14	MH-15	WATER	NY	01/26/17 08:50	01/26/17
L1702506-15	TRIP BLANK	WATER	NY	01/26/17 09:00	01/26/17

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	ORANGE COUNTY- BASELINE 88 REG	**Lab Number:**	L1702506
Project Number:	2010-15	**Report Date:**	02/06/17

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

The analyses performed were specified by the client.

L1702506-14: The sample collection time was obtained from the container labels, as specified by the client.

Volatile Organics

L1702506-01 through -15: The pH of the sample was less than two. It should be noted that 2-Chloroethylvinyl ether breaks down under acidic conditions.

L1702506-13: The sample has elevated detection limits due to the dilution required by the sample matrix (foam).

The WG973916-6/-7 MS/MSD recoveries, performed on L1702506-11, are below the acceptance criteria for 2-chloroethylvinyl ether (0%) due to the pH of the sample being less than two. It should be noted that 2-Chloroethylvinyl ether breaks down under acidic conditions.

Total Metals

The WG973148-4 MSD recovery for calcium (70%), performed on L1702506-11, does not apply because the sample concentration is greater than four times the spike amount added.

The WG973562-3 MS recovery for sodium (129%), performed on L1702506-11, does not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Metals

L1702506-03 and -08: The dissolved results are greater than the total results for some metals. The sample containers were verified as being labeled correctly by the laboratory.

The WG973620-1 Method Blank, associated with L1702506-01 through -08, has a concentration above the reporting limit for Barium. Since the associated sample concentrations are greater than 10x the blank

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506
Project Number: 2010-15 **Report Date:** 02/06/17

Case Narrative (continued)

concentration for this analyte, no corrective action is required.

Cyanide, Total

L1702506-13: The sample has an elevated detection limit due to the dilution required by the sample matrix.

Phenolics, Total

The WG972755-4 MS recovery (5%), performed on L1702506-01, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

BOD, 5 day

WG973040: The polyseed value (1.35 ppm) associated with this batch was above the acceptance criteria (0.6-1.0ppm) for the method; however, re-analysis could not be performed due to the expiration of the method required holding time. The results of the original analyses are reported; however, all positive results are considered to have a potentially high bias.

The WG973040-2 LCS recovery (131%), associated with L1702506-01 through -08 and -10 through -14, is outside the acceptance criteria. Due to the expiration of the method required holding time, no further action was taken.

The WG973040-3 MS recovery (179%), performed on L1702506-11, is above the acceptance criteria. Re-analysis could not be performed due to expiration of the sample holding time.

Nitrogen, Nitrate

The WG973298-3 Laboratory Duplicate RPD (9%), performed on L1702506-13, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Nitrogen, Total Kjeldahl

The WG974203-4 MS recovery (12%), performed on L1702506-13, does not apply because the sample concentration is greater than four times the spike amount added.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 02/06/17

ORGANICS

VOLATILES

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-01
Client ID: MW-233S
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 16:10
Analyst: NL

Date Collected: 01/25/17 08:50
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-01 Date Collected: 01/25/17 08:50

Client ID: MW-233S Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-02
Client ID: MW-233D
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 16:37
Analyst: NL

Date Collected: 01/25/17 09:30
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-02 Date Collected: 01/25/17 09:30

Client ID: MW-233D Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	103		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-03
Client ID: MW-3B
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 17:05
Analyst: NL

Date Collected: 01/25/17 12:00
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-03 Date Collected: 01/25/17 12:00

Client ID: MW-3B Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-04
Client ID: MW-220
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 17:33
Analyst: NL

Date Collected: 01/25/17 13:15
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-04 Date Collected: 01/25/17 13:15

Client ID: MW-220 Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-05
Client ID: MW-245S
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 18:01
Analyst: NL

Date Collected: 01/25/17 14:10
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-05 Date Collected: 01/25/17 14:10

Client ID: MW-245S Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-06
Client ID: MW-245D
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 18:29
Analyst: NL

Date Collected: 01/25/17 14:45
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-06 Date Collected: 01/25/17 14:45

Client ID: MW-245D Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-07
Client ID: PZ-4
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 18:56
Analyst: NL

Date Collected: 01/25/17 10:55
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-07 Date Collected: 01/25/17 10:55

Client ID: PZ-4 Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-08
Client ID: DUP
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 17:58
Analyst: BD

Date Collected: 01/25/17 00:00
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-08 Date Collected: 01/25/17 00:00

Client ID: DUP Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-09
Client ID: TRIP BLANK
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 19:24
Analyst: NL

Date Collected: 01/25/17 00:00
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-09 Date Collected: 01/25/17 00:00

Client ID: TRIP BLANK Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-10
Client ID: SW-5
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 18:21
Analyst: BD

Date Collected: 01/25/17 11:10
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-10 Date Collected: 01/25/17 11:10

Client ID: SW-5 Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

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

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-11
Client ID: SW-8
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 18:44
Analyst: BD

Date Collected: 01/25/17 12:15
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-11 Date Collected: 01/25/17 12:15

Client ID: SW-8 Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-12
Client ID: SW-13
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 19:07
Analyst: BD

Date Collected: 01/25/17 10:00
Date Received: 01/25/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-12 Date Collected: 01/25/17 10:00

Client ID: SW-13 Date Received: 01/25/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-13 D
Client ID: MH-7
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 19:30
Analyst: BD

Date Collected: 01/26/17 08:10
Date Received: 01/26/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
2-Chloroethylvinyl ether	ND		ug/l	100	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	19	J	ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
Bromoform	ND		ug/l	20	6.5	10
Benzene	12		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-13 D
Client ID: MH-7
Sample Location: NY

Date Collected: 01/26/17 08:10
Date Received: 01/26/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-14
Client ID: MH-15
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/30/17 19:53
Analyst: BD

Date Collected: 01/26/17 08:50
Date Received: 01/26/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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	0.76	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
Benzene	0.68		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	0.18	J	ug/l	1.0	0.07	1
Chloroethane	2.1	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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	1.7	J	ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-14 Date Collected: 01/26/17 08:50

Client ID: MH-15 Date Received: 01/26/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Lab Number: L1702506
Project Number: 2010-15
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-15
Client ID: TRIP BLANK
Sample Location: NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 01/31/17 19:52
Analyst: NL

Date Collected: 01/26/17 09:00
Date Received: 01/26/17
Field Prep: Not Specified

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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-15 Date Collected: 01/26/17 09:00

Client ID: TRIP BLANK Date Received: 01/26/17

Sample Location: NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/30/17 13:00
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,10-14 Batch: WG973916-5					
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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/30/17 13:00
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08,10-14 Batch: WG973916-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/17 13:23
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09,15 Batch: WG974451-5					
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
2-Chloroethylvinyl ether	ND		ug/l	10	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
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
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/17 13:23
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07,09,15 Batch: WG974451-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10-14 Batch: WG973916-3 WG973916-4								
Methylene chloride	98		95		70-130	3		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	82		82		70-130	0		20
Carbon tetrachloride	86		81		63-132	6		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		97		63-130	3		20
1,1,2-Trichloroethane	95		96		70-130	1		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		75-130	10		20
Trichlorofluoromethane	90		84		62-150	7		20
1,2-Dichloroethane	99		97		70-130	2		20
1,1,1-Trichloroethane	100		97		67-130	3		20
Bromodichloromethane	100		99		67-130	1		20
trans-1,3-Dichloropropene	87		84		70-130	4		20
cis-1,3-Dichloropropene	93		90		70-130	3		20
1,1-Dichloropropene	100		97		70-130	3		20
Bromoform	98		95		54-136	3		20
1,1,2,2-Tetrachloroethane	95		93		67-130	2		20
Benzene	110		110		70-130	0		20
Toluene	110		100		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10-14 Batch: WG973916-3 WG973916-4								
Ethylbenzene	110		100		70-130	10		20
Chloromethane	110		100		64-130	10		20
Bromomethane	120		110		39-139	9		20
Vinyl chloride	100		92		55-140	8		20
Chloroethane	120		100		55-138	18		20
1,1-Dichloroethene	100		95		61-145	5		20
trans-1,2-Dichloroethene	110		100		70-130	10		20
Trichloroethene	100		98		70-130	2		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	95		91		63-130	4		20
p/m-Xylene	110		105		70-130	5		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	100		96		70-130	4		20
1,2,3-Trichloropropane	83		81		64-130	2		20
Acrylonitrile	94		92		70-130	2		20
Isopropyl Ether	100		99		70-130	1		20
tert-Butyl Alcohol	88		94		70-130	7		20
Styrene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG

Project Number: 2010-15

Lab Number: L1702506

Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10-14 Batch: WG973916-3 WG973916-4								
Dichlorodifluoromethane	83		78		36-147	6		20
Acetone	120		89		58-148	30	Q	20
Carbon disulfide	100		93		51-130	7		20
2-Butanone	90		83		63-138	8		20
Vinyl acetate	91		90		70-130	1		20
4-Methyl-2-pentanone	71		72		59-130	1		20
2-Hexanone	76		72		57-130	5		20
Acrolein	84		85		40-160	1		20
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	94		88		63-133	7		20
1,2-Dibromoethane	98		97		70-130	1		20
1,3-Dichloropropane	99		97		70-130	2		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	120		110		70-130	9		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	88		87		41-144	1		20
Hexachlorobutadiene	98		98		63-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10-14 Batch: WG973916-3 WG973916-4								
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	78		85		70-130	9		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	84		91		70-130	8		20
1,2,4-Trichlorobenzene	96		97		70-130	1		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
Methyl Acetate	84		83		70-130	1		20
Ethyl Acetate	89		87		70-130	2		20
Cyclohexane	75		72		70-130	4		20
Ethyl-Tert-Butyl-Ether	84		82		70-130	2		20
Tertiary-Amyl Methyl Ether	80		77		66-130	4		20
1,4-Dioxane	80		88		56-162	10		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	82		77		70-130	6		20
p-Diethylbenzene	110		110		70-130	0		20
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		20
Tetrahydrofuran	95		95		58-130	0		20
Ethyl ether	100		96		59-134	4		20
trans-1,4-Dichloro-2-butene	95		93		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08,10-14 Batch: WG973916-3 WG973916-4								
Iodomethane	96		94		70-130	2		20
Methyl cyclohexane	79		74		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	100		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09,15 Batch: WG974451-3 WG974451-4								
Methylene chloride	84		88		70-130	5		20
1,1-Dichloroethane	110		120		70-130	9		20
Chloroform	100		110		70-130	10		20
2-Chloroethylvinyl ether	73		74		70-130	1		20
Carbon tetrachloride	88		97		63-132	10		20
1,2-Dichloropropane	110		120		70-130	9		20
Dibromochloromethane	86		95		63-130	10		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	90		97		70-130	7		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	81		86		62-150	6		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	95		100		67-130	5		20
Bromodichloromethane	95		100		67-130	5		20
trans-1,3-Dichloropropene	95		100		70-130	5		20
cis-1,3-Dichloropropene	91		100		70-130	9		20
1,1-Dichloropropene	100		110		70-130	10		20
Bromoform	80		90		54-136	12		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		110		70-130	10		20
Toluene	100		110		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09,15 Batch: WG974451-3 WG974451-4								
Ethylbenzene	100		110		70-130	10		20
Chloromethane	130		140	Q	64-130	7		20
Bromomethane	71		72		39-139	1		20
Vinyl chloride	110		120		55-140	9		20
Chloroethane	110		110		55-138	0		20
1,1-Dichloroethene	79		86		61-145	8		20
trans-1,2-Dichloroethene	78		84		70-130	7		20
Trichloroethene	99		110		70-130	11		20
1,2-Dichlorobenzene	92		100		70-130	8		20
1,3-Dichlorobenzene	95		100		70-130	5		20
1,4-Dichlorobenzene	94		100		70-130	6		20
Methyl tert butyl ether	75		81		63-130	8		20
p/m-Xylene	95		105		70-130	10		20
o-Xylene	90		100		70-130	11		20
cis-1,2-Dichloroethene	94		100		70-130	6		20
Dibromomethane	94		100		70-130	6		20
1,2,3-Trichloropropane	110		120		64-130	9		20
Acrylonitrile	110		120		70-130	9		20
Isopropyl Ether	110		120		70-130	9		20
tert-Butyl Alcohol	70		90		70-130	25	Q	20
Styrene	90		100		70-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09,15 Batch: WG974451-3 WG974451-4								
Dichlorodifluoromethane	160	Q	160	Q	36-147	0		20
Acetone	120		110		58-148	9		20
Carbon disulfide	73		94		51-130	25	Q	20
2-Butanone	120		120		63-138	0		20
Vinyl acetate	120		130		70-130	8		20
4-Methyl-2-pentanone	87		96		59-130	10		20
2-Hexanone	93		97		57-130	4		20
Bromochloromethane	94		99		70-130	5		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	93		100		70-130	7		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	90		99		64-130	10		20
Bromobenzene	92		98		70-130	6		20
n-Butylbenzene	89		96		53-136	8		20
sec-Butylbenzene	94		100		70-130	6		20
tert-Butylbenzene	78		86		70-130	10		20
o-Chlorotoluene	100		120		70-130	18		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	73		82		41-144	12		20
Hexachlorobutadiene	76		83		63-130	9		20
Isopropylbenzene	98		110		70-130	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09,15 Batch: WG974451-3 WG974451-4								
p-Isopropyltoluene	85		94		70-130	10		20
Naphthalene	91		94		70-130	3		20
n-Propylbenzene	100		110		69-130	10		20
1,2,3-Trichlorobenzene	83		88		70-130	6		20
1,2,4-Trichlorobenzene	82		86		70-130	5		20
1,3,5-Trimethylbenzene	97		110		64-130	13		20
1,2,4-Trimethylbenzene	94		100		70-130	6		20
Methyl Acetate	100		110		70-130	10		20
Ethyl Acetate	120		130		70-130	8		20
Cyclohexane	120		130		70-130	8		20
Ethyl-Tert-Butyl-Ether	100		110		70-130	10		20
Tertiary-Amyl Methyl Ether	85		93		66-130	9		20
1,4-Dioxane	**40**	Q	84		56-162	**71**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	83		88		70-130	6		20
p-Diethylbenzene	87		95		70-130	9		20
p-Ethyltoluene	98		110		70-130	11		20
1,2,4,5-Tetramethylbenzene	120		130		70-130	8		20
Tetrahydrofuran	96		120		58-130	**22**	Q	20
Ethyl ether	83		87		59-134	5		20
trans-1,4-Dichloro-2-butene	120		**140**	Q	70-130	15		20
Iodomethane	**52**	Q	**51**	Q	70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07,09,15 Batch: WG974451-3 WG974451-4								
Methyl cyclohexane	96		100		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		116		70-130
Toluene-d8	105		105		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	99		97		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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 SW-8	Associated sample(s): 08,10-14	QC Batch ID: WG973916-6 WG973916-7	QC Sample: L1702506-11	Client ID:								
Methylene chloride	ND	10	8.7	87		9.3	93		70-130	7		20
1,1-Dichloroethane	ND	10	9.4	94		10	100		70-130	6		20
Chloroform	ND	10	9.2	92		10	100		70-130	8		20
2-Chloroethylvinyl ether	ND	10	ND	0	Q	ND	0	Q	70-130	NC		20
Carbon tetrachloride	ND	10	7.7	77		8.6	86		63-132	11		20
1,2-Dichloropropane	ND	10	9.4	94		10	100		70-130	6		20
Dibromochloromethane	ND	10	8.6	86		9.4	94		63-130	9		20
1,1,2-Trichloroethane	ND	10	9.1	91		9.9	99		70-130	8		20
Tetrachloroethene	ND	10	8.6	86		9.5	95		70-130	10		20
Chlorobenzene	ND	10	8.8	88		9.7	97		75-130	10		20
Trichlorofluoromethane	ND	10	9.5	95		10	100		62-150	5		20
1,2-Dichloroethane	ND	10	9.3	93		10	100		70-130	7		20
1,1,1-Trichloroethane	ND	10	9.3	93		10	100		67-130	7		20
Bromodichloromethane	ND	10	9.0	90		9.8	98		67-130	9		20
trans-1,3-Dichloropropene	ND	10	7.2	72		7.9	79		70-130	9		20
cis-1,3-Dichloropropene	ND	10	7.3	73		8.0	80		70-130	9		20
1,1-Dichloropropene	ND	10	9.1	91		9.9	99		70-130	8		20
Bromoform	ND	10	8.2	82		8.9	89		54-136	8		20
1,1,2,2-Tetrachloroethane	ND	10	9.1	91		9.6	96		67-130	5		20
Benzene	ND	10	9.7	97		10	100		70-130	3		20
Toluene	ND	10	9.0	90		9.8	98		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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 SW-8	Associated sample(s): 08,10-14					QC Batch ID: WG973916-6	WG973916-7		QC Sample: L1702506-11			Client ID:
Ethylbenzene	ND	10	8.6	86		9.5	95		70-130	10		20
Chloromethane	ND	10	8.5	85		9.2	92		64-130	8		20
Bromomethane	ND	10	7.9	79		9.3	93		39-139	16		20
Vinyl chloride	ND	10	8.9	89		9.8	98		55-140	10		20
Chloroethane	ND	10	9.2	92		10	100		55-138	8		20
1,1-Dichloroethene	ND	10	9.2	92		10	100		61-145	8		20
trans-1,2-Dichloroethene	ND	10	9.0	90		9.8	98		70-130	9		20
Trichloroethene	ND	10	8.8	88		9.5	95		70-130	8		20
1,2-Dichlorobenzene	ND	10	8.6	86		9.4	94		70-130	9		20
1,3-Dichlorobenzene	ND	10	8.6	86		9.2	92		70-130	7		20
1,4-Dichlorobenzene	ND	10	8.5	85		9.2	92		70-130	8		20
Methyl tert butyl ether	ND	10	8.6	86		9.5	95		63-130	10		20
p/m-Xylene	ND	20	18	90		20	100		70-130	11		20
o-Xylene	ND	20	18	90		20	100		70-130	11		20
cis-1,2-Dichloroethene	ND	10	9.1	91		10	100		70-130	9		20
Dibromomethane	ND	10	9.3	93		9.8	98		70-130	5		20
1,2,3-Trichloropropane	ND	10	8.1	81		9.6	96		64-130	17		20
Acrylonitrile	ND	10	9.3	93		10	100		70-130	7		20
Isopropyl Ether	ND	10	9.0	90		9.9	99		70-130	10		20
tert-Butyl Alcohol	ND	50	49	98		52	104		70-130	6		20
Styrene	ND	20	18	90		20	100		70-130	11		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 08,10-14 QC Batch ID: WG973916-6 WG973916-7 QC Sample: L1702506-11 Client ID: SW-8												
Dichlorodifluoromethane	ND	10	7.0	70		7.5	75		36-147	7		20
Acetone	2.4J	10	11	110		11	110		58-148	0		20
Carbon disulfide	ND	10	8.0	80		8.8	88		51-130	10		20
2-Butanone	ND	10	8.9	89		9.9	99		63-138	11		20
Vinyl acetate	ND	10	7.7	77		8.7	87		70-130	12		20
4-Methyl-2-pentanone	ND	10	6.9	69		7.4	74		59-130	7		20
2-Hexanone	ND	10	7.0	70		7.7	77		57-130	10		20
Acrolein	ND	10	7.7	77		8.4	84		40-160	9		20
Bromochloromethane	ND	10	9.2	92		10	100		70-130	8		20
2,2-Dichloropropane	ND	10	7.0	70		7.9	79		63-133	12		20
1,2-Dibromoethane	ND	10	8.8	88		9.7	97		70-130	10		20
1,3-Dichloropropane	ND	10	9.1	91		9.9	99		70-130	8		20
1,1,1,2-Tetrachloroethane	ND	10	8.8	88		9.5	95		64-130	8		20
Bromobenzene	ND	10	8.8	88		9.4	94		70-130	7		20
n-Butylbenzene	ND	10	8.2	82		9.0	90		53-136	9		20
sec-Butylbenzene	ND	10	8.4	84		9.2	92		70-130	9		20
tert-Butylbenzene	ND	10	8.4	84		9.2	92		70-130	9		20
o-Chlorotoluene	ND	10	9.4	94		10	100		70-130	6		20
p-Chlorotoluene	ND	10	8.7	87		9.3	93		70-130	7		20
1,2-Dibromo-3-chloropropane	ND	10	7.2	72		8.4	84		41-144	15		20
Hexachlorobutadiene	ND	10	7.4	74		8.2	82		63-130	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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 SW-8	Associated sample(s): 08,10-14					QC Batch ID: WG973916-6	WG973916-7		QC Sample: L1702506-11			Client ID:
Isopropylbenzene	ND	10	8.6	86		9.5	95		70-130	10		20
p-Isopropyltoluene	ND	10	8.4	84		9.3	93		70-130	10		20
Naphthalene	ND	10	7.0	70		8.4	84		70-130	18		20
n-Propylbenzene	ND	10	8.6	86		9.3	93		69-130	8		20
1,2,3-Trichlorobenzene	ND	10	7.4	74		8.6	86		70-130	15		20
1,2,4-Trichlorobenzene	ND	10	7.6	76		8.7	87		70-130	13		20
1,3,5-Trimethylbenzene	ND	10	8.6	86		9.4	94		64-130	9		20
1,2,4-Trimethylbenzene	ND	10	8.6	86		9.5	95		70-130	10		20
Methyl Acetate	ND	10	8.5	85		8.9	89		70-130	5		20
Ethyl Acetate	ND	10	8.1J	81		8.6J	86		70-130	6		20
Cyclohexane	ND	10	7.7J	77		8.4J	84		70-130	9		20
Ethyl-Tert-Butyl-Ether	ND	10	7.6	76		8.4	84		70-130	10		20
Tertiary-Amyl Methyl Ether	ND	10	7.2	72		7.9	79		66-130	9		20
1,4-Dioxane	ND	500	430	86		520	104		56-162	19		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	8.7	87		9.5	95		70-130	9		20
p-Diethylbenzene	ND	10	8.1	81		8.9	89		70-130	9		20
p-Ethyltoluene	ND	10	8.6	86		9.4	94		70-130	9		20
1,2,4,5-Tetramethylbenzene	ND	10	7.7	77		8.6	86		70-130	11		20
Tetrahydrofuran	ND	10	9.7	97		10	100		58-130	3		20
Ethyl ether	ND	10	9.3	93		10	100		59-134	7		20
trans-1,4-Dichloro-2-butene	ND	10	7.2	72		8.5	85		70-130	17		20

Matrix Spike Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 08,10-14 QC Batch ID: WG973916-6 WG973916-7 QC Sample: L1702506-11 Client ID: SW-8												
Iodomethane	ND	10	6.4	**64**	Q	8.1	81		70-130	**23**	Q	20
Methyl cyclohexane	ND	10	7.9J	79		8.8J	88		70-130	11		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	100		100		70-130
Toluene-d8	99		100		70-130

METALS

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-01
Client ID: MW-233S
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 08:50
Date Received: 01/25/17
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	0.020		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0009		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Barium, Total	0.0989		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Boron, Total	0.0190	J	mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 00:52	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0007		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Calcium, Total	130		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 00:52	EPA 3005A	1,6010C	AB
Chromium, Total	0.0007	J	mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0010		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Copper, Total	0.0078		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Iron, Total	0.127		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Lead, Total	ND		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Magnesium, Total	46.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 00:52	EPA 3005A	1,6010C	AB
Manganese, Total	2.145		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:17	EPA 7470A	1,7470A	BV
Nickel, Total	0.0124		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Potassium, Total	2.88		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Sodium, Total	2.27		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Zinc, Total	0.0268		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 10:57	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	510		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 00:52	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-01
Client ID: MW-233S
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 08:50
Date Received: 01/25/17
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	0.006	J	mg/l	0.010	0.003	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Antimony, Dissolved	0.0004	J	mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.00047	J	mg/l	0.00050	0.00017	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0472		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.0179	J	mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 01:12	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Calcium, Dissolved	130		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 01:12	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Copper, Dissolved	0.0005	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	46.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 01:12	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.0009	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 13:50	EPA 7470A	1,7470A	BV
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Potassium, Dissolved	2.69		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Sodium, Dissolved	1.97		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB
Zinc, Dissolved	ND		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:12	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-02
Client ID: MW-233D
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 09:30
Date Received: 01/25/17
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	0.013		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0007		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Barium, Total	0.0351		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Boron, Total	0.0968		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 00:56	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Calcium, Total	54.		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 00:56	EPA 3005A	1,6010C	AB
Chromium, Total	0.0013		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Cobalt, Total	ND		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Copper, Total	0.0014		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Iron, Total	0.086		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Lead, Total	0.0011		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Magnesium, Total	22.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 00:56	EPA 3005A	1,6010C	AB
Manganese, Total	0.0332		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:19	EPA 7470A	1,7470A	BV
Nickel, Total	0.0012	J	mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Potassium, Total	1.99		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Sodium, Total	109		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Zinc, Total	0.0079	J	mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:00	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	220		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 00:56	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-02
Client ID: MW-233D
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 09:30
Date Received: 01/25/17
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	0.005	J	mg/l	0.010	0.003	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.00049	J	mg/l	0.00050	0.00017	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0337		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.0938		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:09	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Calcium, Dissolved	55.		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:09	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Copper, Dissolved	0.0006	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	23.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:09	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.0015		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 13:55	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Potassium, Dissolved	1.87		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Sodium, Dissolved	103		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB
Zinc, Dissolved	0.0063	J	mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:15	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-03
Client ID: MW-3B
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 12:00
Date Received: 01/25/17
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	0.034		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0305		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Barium, Total	0.1404		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Boron, Total	0.130		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:01	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Calcium, Total	130		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:01	EPA 3005A	1,6010C	AB
Chromium, Total	0.0009	J	mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0003	J	mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Copper, Total	0.0006	J	mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Iron, Total	0.815		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Lead, Total	0.0011		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Magnesium, Total	24.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:01	EPA 3005A	1,6010C	AB
Manganese, Total	0.6728		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:24	EPA 7470A	1,7470A	BV
Nickel, Total	0.0045		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Potassium, Total	1.86		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Sodium, Total	41.4		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Zinc, Total	0.0101		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:03	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	420		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:01	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-03
Client ID: MW-3B
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 12:00
Date Received: 01/25/17
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	0.010	0.003	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0216		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.3459		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.206		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:13	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Calcium, Dissolved	140		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:13	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	0.0004	J	mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Copper, Dissolved	ND		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	37.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:13	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.8696		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 13:57	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0058		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Potassium, Dissolved	5.44		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Sodium, Dissolved	47.7		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB
Zinc, Dissolved	ND		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:18	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-04
Client ID: MW-220
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 13:15
Date Received: 01/25/17
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	0.153		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0221		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Barium, Total	0.0826		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Beryllium, Total	0.0001	J	mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Boron, Total	0.0469		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:05	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Calcium, Total	180		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:05	EPA 3005A	1,6010C	AB
Chromium, Total	0.0021		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/31/17 10:01	EPA 3005A	1,6020A	AM
Cobalt, Total	0.0013		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Copper, Total	0.0023		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Iron, Total	3.63		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Lead, Total	0.0073		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Magnesium, Total	46.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:05	EPA 3005A	1,6010C	AB
Manganese, Total	1.571		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:26	EPA 7470A	1,7470A	BV
Nickel, Total	0.0029		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Potassium, Total	3.22		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Sodium, Total	18.4		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Zinc, Total	0.0098	J	mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:12	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	650		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:05	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-04
Client ID: MW-220
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 13:15
Date Received: 01/25/17
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	0.010	0.003	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0028		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0679		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.0442		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:18	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Calcium, Dissolved	180		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:18	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	0.0006		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Copper, Dissolved	ND		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	45.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:18	EPA 3005A	1,6010C	AB
Manganese, Dissolved	1.121		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 13:59	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.00198	J	mg/l	0.00200	0.00056	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Potassium, Dissolved	3.12		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Sodium, Dissolved	17.3		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB
Zinc, Dissolved	0.0037	J	mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:28	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-05
Client ID: MW-245S
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 14:10
Date Received: 01/25/17
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	4.83		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Antimony, Total	0.0004	J	mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Arsenic, Total	0.1686		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Barium, Total	0.1225		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Beryllium, Total	0.0004	J	mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Boron, Total	0.0229	J	mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:09	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Calcium, Total	130		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:09	EPA 3005A	1,6010C	AB
Chromium, Total	0.008		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0028		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Copper, Total	0.0091		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Iron, Total	11.1		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Lead, Total	0.0170		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Magnesium, Total	30.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:09	EPA 3005A	1,6010C	AB
Manganese, Total	1.783		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:28	EPA 7470A	1,7470A	BV
Nickel, Total	0.0066		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Potassium, Total	3.69		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Sodium, Total	51.3		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Vanadium, Total	0.0093		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Zinc, Total	0.0217		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:15	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	460		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:09	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-05
Client ID: MW-245S
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 14:10
Date Received: 01/25/17
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	0.010	0.003	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0131		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0791		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.0218	J	mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:22	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Calcium, Dissolved	140		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:22	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0006	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	0.0003	J	mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Copper, Dissolved	0.0005	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Iron, Dissolved	0.028	J	mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	31.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:22	EPA 3005A	1,6010C	AB
Manganese, Dissolved	1.414		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 14:01	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0008	J	mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Potassium, Dissolved	1.83		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Sodium, Dissolved	50.5		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB
Zinc, Dissolved	ND		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:31	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-06
Client ID: MW-245D
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 14:45
Date Received: 01/25/17
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	0.025		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0057		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Barium, Total	0.0893		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Boron, Total	0.0504		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:13	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0006		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Calcium, Total	82.		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:13	EPA 3005A	1,6010C	AB
Chromium, Total	0.0045		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0002	J	mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Copper, Total	0.0017		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Iron, Total	1.17		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Lead, Total	0.0068		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Magnesium, Total	28.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:13	EPA 3005A	1,6010C	AB
Manganese, Total	0.2291		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:29	EPA 7470A	1,7470A	BV
Nickel, Total	0.0039		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Potassium, Total	3.99		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Sodium, Total	51.5		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Zinc, Total	0.0947		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:18	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	320		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:13	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-06
Client ID: MW-245D
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 14:45
Date Received: 01/25/17
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	0.005	J	mg/l	0.010	0.003	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0023		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0873		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.0502		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:53	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	0.0003		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Calcium, Dissolved	86.		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:53	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Copper, Dissolved	ND		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	29.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:53	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.2210		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 14:03	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0033		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Potassium, Dissolved	4.09		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Sodium, Dissolved	54.0		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB
Zinc, Dissolved	0.0814		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:34	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-07
Client ID: PZ-4
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 10:55
Date Received: 01/25/17
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	0.028		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0095		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Barium, Total	0.0404		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Boron, Total	0.105		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:18	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Calcium, Total	180		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:18	EPA 3005A	1,6010C	AB
Chromium, Total	0.0007	J	mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Cobalt, Total	ND		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Copper, Total	0.00098	J	mg/l	0.00100	0.00038	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Iron, Total	0.294		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Lead, Total	0.0004	J	mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Magnesium, Total	44.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:18	EPA 3005A	1,6010C	AB
Manganese, Total	0.4129		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:31	EPA 7470A	1,7470A	BV
Nickel, Total	0.0026		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Potassium, Total	3.15		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Sodium, Total	19.6		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Zinc, Total	0.0051	J	mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:21	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	630		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:18	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-07
Client ID: PZ-4
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 10:55
Date Received: 01/25/17
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	0.010	0.003	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0045		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.0374		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.102		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 02:58	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Calcium, Dissolved	180		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 02:58	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Copper, Dissolved	0.0008	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Iron, Dissolved	ND		mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	45.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 02:58	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.3788		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 14:04	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0025		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Potassium, Dissolved	3.08		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Sodium, Dissolved	18.9		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB
Zinc, Dissolved	0.0045	J	mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:37	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-08
Client ID: DUP
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 00:00
Date Received: 01/25/17
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	0.028		mg/l	0.010	0.003	1	01/27/17 11:42	01/31/17 10:04	EPA 3005A	1,6020A	AM
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0296		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Barium, Total	0.1348		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Boron, Total	0.122		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:39	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Calcium, Total	120		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:39	EPA 3005A	1,6010C	AB
Chromium, Total	0.0006	J	mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Copper, Total	0.0007	J	mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Iron, Total	0.763		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Lead, Total	0.0012		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Magnesium, Total	22.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:39	EPA 3005A	1,6010C	AB
Manganese, Total	0.6442		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:33	EPA 7470A	1,7470A	BV
Nickel, Total	0.0039		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Potassium, Total	1.72		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Sodium, Total	40.5		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Zinc, Total	0.0112		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:24	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	390		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:39	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-08
Client ID: DUP
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 00:00
Date Received: 01/25/17
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	0.010	0.003	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Arsenic, Dissolved	0.0243		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Barium, Dissolved	0.3515		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Boron, Dissolved	0.207		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 03:02	EPA 3005A	1,6010C	AB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Calcium, Dissolved	150		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 03:02	EPA 3005A	1,6010C	AB
Chromium, Dissolved	0.0007	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Cobalt, Dissolved	0.0003	J	mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Copper, Dissolved	ND		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Iron, Dissolved	0.027	J	mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Magnesium, Dissolved	38.		mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 03:02	EPA 3005A	1,6010C	AB
Manganese, Dissolved	0.8905		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 14:10	EPA 7470A	1,7470A	BV
Nickel, Dissolved	0.0059		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Potassium, Dissolved	5.54		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Sodium, Dissolved	47.8		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB
Zinc, Dissolved	ND		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 15:40	EPA 3005A	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-10
Client ID: SW-5
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 11:10
Date Received: 01/25/17
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	0.662		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0012		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Barium, Total	0.0240		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Boron, Total	0.0221	J	mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:44	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0001	J	mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Calcium, Total	52.		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:44	EPA 3005A	1,6010C	AB
Chromium, Total	0.0016		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0013		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Copper, Total	0.0036		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Iron, Total	1.04		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Lead, Total	0.0010		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Magnesium, Total	12.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:44	EPA 3005A	1,6010C	AB
Manganese, Total	0.1373		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:48	EPA 7470A	1,7470A	BV
Nickel, Total	0.0027		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Potassium, Total	2.69		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Sodium, Total	46.7		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Zinc, Total	0.0248		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:27	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	180		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:44	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-11
Client ID: SW-8
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 12:15
Date Received: 01/25/17
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	1.04		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0015		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Barium, Total	0.0266		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Beryllium, Total	0.0001	J	mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Boron, Total	0.0225	J	mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 00:16	EPA 3005A	1,6010C	AB
Cadmium, Total	0.0001	J	mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Calcium, Total	52.		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 00:16	EPA 3005A	1,6010C	AB
Chromium, Total	0.0017		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0016		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Copper, Total	0.0046		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Iron, Total	1.67		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Lead, Total	0.0015		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Magnesium, Total	12.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 00:16	EPA 3005A	1,6010C	AB
Manganese, Total	0.1798		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 12:57	EPA 7470A	1,7470A	BV
Nickel, Total	0.0034		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Potassium, Total	2.70		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Sodium, Total	45.6		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Vanadium, Total	0.0018	J	mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Zinc, Total	0.0321		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 10:54	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	180		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 00:16	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-12
Client ID: SW-13
Sample Location: NY
Matrix: Water
Date Collected: 01/25/17 10:00
Date Received: 01/25/17
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	0.974		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0015		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Barium, Total	0.0277		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Beryllium, Total	0.0001	J	mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Boron, Total	0.0225	J	mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:48	EPA 3005A	1,6010C	AB
Cadmium, Total	0.00015	J	mg/l	0.00020	0.00006	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Calcium, Total	52.		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:48	EPA 3005A	1,6010C	AB
Chromium, Total	0.0017		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0017		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Copper, Total	0.0059		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Iron, Total	1.72		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Lead, Total	0.0020		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Magnesium, Total	12.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:48	EPA 3005A	1,6010C	AB
Manganese, Total	0.1970		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 13:35	EPA 7470A	1,7470A	BV
Nickel, Total	0.0033		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Potassium, Total	2.66		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Sodium, Total	47.0		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Vanadium, Total	0.0017	J	mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Zinc, Total	0.0343		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:30	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	180		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:48	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-13
Client ID: MH-7
Sample Location: NY
Matrix: Water
Date Collected: 01/26/17 08:10
Date Received: 01/26/17
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	2.10		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Antimony, Total	0.0015	J	mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0114		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Barium, Total	0.2145		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Boron, Total	3.21		mg/l	0.0600	0.0032	1	01/27/17 11:42	01/28/17 01:52	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Calcium, Total	370		mg/l	0.20	0.070	1	01/27/17 11:42	01/28/17 01:52	EPA 3005A	1,6010C	AB
Chromium, Total	0.0106		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0092		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Copper, Total	0.0057		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Iron, Total	17.3		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Lead, Total	0.0053		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Magnesium, Total	78.		mg/l	0.20	0.031	1	01/27/17 11:42	01/28/17 01:52	EPA 3005A	1,6010C	AB
Manganese, Total	0.6703		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/27/17 10:42	01/30/17 19:13	EPA 7470A	1,7470A	EA
Nickel, Total	0.0359		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Potassium, Total	94.5		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Sodium, Total	423		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Vanadium, Total	0.0114		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Zinc, Total	0.0122		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:34	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	1200		mg/l	1.3	NA	1	01/27/17 11:42	01/28/17 01:52	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-14
Client ID: MH-15
Sample Location: NY
Matrix: Water
Date Collected: 01/26/17 08:50
Date Received: 01/26/17
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	0.008	J	mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Arsenic, Total	0.0020		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Barium, Total	0.1074		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Boron, Total	0.487		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/28/17 01:57	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Calcium, Total	130		mg/l	0.10	0.035	1	01/27/17 11:42	01/28/17 01:57	EPA 3005A	1,6010C	AB
Chromium, Total	0.0021		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Cobalt, Total	0.0020		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Copper, Total	ND		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Iron, Total	15.0		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Lead, Total	ND		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Magnesium, Total	30.		mg/l	0.10	0.015	1	01/27/17 11:42	01/28/17 01:57	EPA 3005A	1,6010C	AB
Manganese, Total	1.878		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/27/17 10:42	01/30/17 19:15	EPA 7470A	1,7470A	EA
Nickel, Total	0.0091		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Potassium, Total	24.0		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Sodium, Total	97.7		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Zinc, Total	ND		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 11:37	EPA 3005A	1,6020A	DB
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	450		mg/l	0.66	NA	1	01/27/17 11:42	01/28/17 01:57	EPA 3005A	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

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): 01-08,10-12 Batch: WG972766-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	01/26/17 11:09	01/31/17 12:53	1,7470A	BV

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): 13-14 Batch: WG973122-1										
Mercury, Total	0.00009	J	mg/l	0.00020	0.00006	1	01/27/17 10:42	01/30/17 19:00	1,7470A	EA

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): 01-08,10-14 Batch: WG973148-1										
Boron, Total	ND		mg/l	0.0300	0.0016	1	01/27/17 11:42	01/27/17 23:59	1,6010C	AB
Calcium, Total	ND		mg/l	0.10	0.035	1	01/27/17 11:42	01/27/17 23:59	1,6010C	AB
Magnesium, Total	ND		mg/l	0.10	0.015	1	01/27/17 11:42	01/27/17 23:59	1,6010C	AB

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): 01-08,10-14 Batch: WG973148-1										
Hardness	ND		mg/l	0.66	NA	1	01/27/17 11:42	01/27/17 23:59	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

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): 01-08 Batch: WG973268-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	01/27/17 15:53	01/31/17 13:36	1,7470A	BV

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): 01-08,10-14 Batch: WG973562-1										
Aluminum, Total	ND		mg/l	0.010	0.003	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Antimony, Total	ND		mg/l	0.0040	0.0004	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Arsenic, Total	ND		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Barium, Total	ND		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Chromium, Total	ND		mg/l	0.0010	0.0002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Cobalt, Total	ND		mg/l	0.0005	0.0002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Copper, Total	ND		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Iron, Total	ND		mg/l	0.050	0.019	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Lead, Total	ND		mg/l	0.0010	0.0003	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Manganese, Total	ND		mg/l	0.0010	0.0004	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Nickel, Total	ND		mg/l	0.0020	0.0006	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Potassium, Total	ND		mg/l	0.100	0.031	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Selenium, Total	ND		mg/l	0.005	0.002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Silver, Total	ND		mg/l	0.0004	0.0002	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Sodium, Total	ND		mg/l	0.100	0.029	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Thallium, Total	ND		mg/l	0.0005	0.0001	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Vanadium, Total	ND		mg/l	0.0050	0.0016	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB
Zinc, Total	ND		mg/l	0.0100	0.0034	1	01/27/17 11:42	01/30/17 10:35	1,6020A	DB

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

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): 01-08 Batch: WG973620-1										
Aluminum, Dissolved	0.004	J	mg/l	0.010	0.003	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Antimony, Dissolved	ND		mg/l	0.0040	0.0004	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Arsenic, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Barium, Dissolved	0.0013		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Chromium, Dissolved	0.0007	J	mg/l	0.0010	0.0002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Cobalt, Dissolved	ND		mg/l	0.0005	0.0002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Copper, Dissolved	0.0005	J	mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Iron, Dissolved	0.026	J	mg/l	0.050	0.019	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Lead, Dissolved	ND		mg/l	0.0010	0.0003	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Manganese, Dissolved	ND		mg/l	0.0010	0.0004	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Nickel, Dissolved	ND		mg/l	0.0020	0.0006	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Potassium, Dissolved	ND		mg/l	0.100	0.031	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Selenium, Dissolved	ND		mg/l	0.005	0.002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Silver, Dissolved	ND		mg/l	0.0004	0.0002	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Sodium, Dissolved	ND		mg/l	0.100	0.029	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Vanadium, Dissolved	ND		mg/l	0.0050	0.0016	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB
Zinc, Dissolved	ND		mg/l	0.0100	0.0034	1	01/30/17 11:48	01/30/17 14:51	1,6020A	DB

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): 01-08 Batch: WG973623-1										
Boron, Dissolved	ND		mg/l	0.0300	0.0016	1	01/30/17 11:48	01/31/17 01:03	1,6010C	AB
Calcium, Dissolved	ND		mg/l	0.10	0.035	1	01/30/17 11:48	01/31/17 01:03	1,6010C	AB

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

Method Blank Analysis
Batch Quality Control

Magnesium, Dissolved	ND	mg/l	0.10	0.015	1	01/30/17 11:48	01/31/17 01:03	1,6010C	AB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-12 Batch: WG972766-2								
Mercury, Total	104		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 13-14 Batch: WG973122-2								
Mercury, Total	108		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-14 Batch: WG973148-2								
Boron, Total	111		-		80-120	-		
Calcium, Total	100		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-08,10-14 Batch: WG973148-2								
Hardness	103		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG973268-2								
Mercury, Dissolved	100		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-14 Batch: WG973562-2					
Aluminum, Total	98	-	80-120	-	
Antimony, Total	93	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	101	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	99	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	106	-	80-120	-	
Manganese, Total	98	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	99	-	80-120	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	108	-	80-120	-	
Thallium, Total	98	-	80-120	-	
Vanadium, Total	98	-	80-120	-	
Zinc, Total	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG973620-2					
Aluminum, Dissolved	97	-	80-120	-	
Antimony, Dissolved	93	-	80-120	-	
Arsenic, Dissolved	101	-	80-120	-	
Barium, Dissolved	98	-	80-120	-	
Beryllium, Dissolved	104	-	80-120	-	
Cadmium, Dissolved	103	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	98	-	80-120	-	
Copper, Dissolved	102	-	80-120	-	
Iron, Dissolved	97	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	100	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	111	-	80-120	-	
Silver, Dissolved	100	-	80-120	-	
Sodium, Dissolved	104	-	80-120	-	
Thallium, Dissolved	93	-	80-120	-	
Vanadium, Dissolved	101	-	80-120	-	
Zinc, Dissolved	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG973623-2					
Boron, Dissolved	106	-	80-120	-	
Calcium, Dissolved	110	-	80-120	-	
Magnesium, Dissolved	100	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 01-08,10-12 QC Batch ID: WG972766-3 WG972766-4 QC Sample: L1702506-11 Client ID: SW-8												
Mercury, Total	ND	0.005	0.00514	103		0.00493	99		75-125	4		20
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG973122-3 QC Sample: L1702735-01 Client ID: MS Sample												
Mercury, Total	0.00012J	0.005	0.00530	106		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-08,10-14 QC Batch ID: WG973148-3 WG973148-4 QC Sample: L1702506-11 Client ID: SW-8												
Boron, Total	0.0225J	1	1.15	115		1.11	111		75-125	4		20
Calcium, Total	52.	10	61	90		59	70	Q	75-125	3		20
Magnesium, Total	12.	10	22	100		21	90		75-125	5		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-08,10-14 QC Batch ID: WG973148-3 WG973148-4 QC Sample: L1702506-11 Client ID: SW-8												
Hardness	180	66.2	240	91		230	76		75-125	4		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG973268-3 QC Sample: L1702506-01 Client ID: MW-233S												
Mercury, Dissolved	ND	0.005	0.00500	100		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

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): 01-08,10-14 QC Batch ID: WG973562-3 WG973562-4 QC Sample: L1702506-11 Client ID: SW-8										
Aluminum, Total	1.04	2	2.94	95		2.82	89	75-125	4	20
Antimony, Total	ND	0.5	0.5084	102		0.4828	96	75-125	5	20
Arsenic, Total	0.0015	0.12	0.1298	107		0.1228	101	75-125	6	20
Barium, Total	0.0266	2	2.076	102		2.013	99	75-125	3	20
Beryllium, Total	0.0001J	0.05	0.0515	103		0.0523	105	75-125	2	20
Cadmium, Total	0.0001J	0.051	0.0529	104		0.0520	102	75-125	2	20
Chromium, Total	0.0017	0.2	0.2009	100		0.2011	100	75-125	0	20
Cobalt, Total	0.0016	0.5	0.5137	102		0.4940	98	75-125	4	20
Copper, Total	0.0046	0.25	0.2640	104		0.2525	99	75-125	4	20
Iron, Total	1.67	1	2.57	90		2.46	79	75-125	4	20
Lead, Total	0.0015	0.51	0.5542	108		0.5434	106	75-125	2	20
Manganese, Total	0.1798	0.5	0.6863	101		0.6771	99	75-125	1	20
Nickel, Total	0.0034	0.5	0.5099	101		0.5048	100	75-125	1	20
Potassium, Total	2.70	10	13.0	103		12.4	97	75-125	5	20
Selenium, Total	ND	0.12	0.123	102		0.115	96	75-125	7	20
Silver, Total	ND	0.05	0.0511	102		0.0502	100	75-125	2	20
Sodium, Total	45.6	10	58.5	129	Q	56.7	111	75-125	3	20
Thallium, Total	ND	0.12	0.1220	102		0.1172	98	75-125	4	20
Vanadium, Total	0.0018J	0.5	0.5203	104		0.5156	103	75-125	1	20
Zinc, Total	0.0321	0.5	0.5215	98		0.5113	96	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 01-08 QC Batch ID: WG973620-3 QC Sample: L1702506-01 Client ID: MW-233S									
Aluminum, Dissolved	0.006J	2	2.04	102	-	-	75-125	-	20
Antimony, Dissolved	0.0004J	0.5	0.4927	98	-	-	75-125	-	20
Arsenic, Dissolved	0.00047J	0.12	0.1238	103	-	-	75-125	-	20
Barium, Dissolved	0.0472	2	2.045	100	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0526	105	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.0516	101	-	-	75-125	-	20
Chromium, Dissolved	0.0003J	0.2	0.1987	99	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.4969	99	-	-	75-125	-	20
Copper, Dissolved	0.0005J	0.25	0.2561	102	-	-	75-125	-	20
Iron, Dissolved	ND	1	1.05	105	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5380	105	-	-	75-125	-	20
Manganese, Dissolved	0.0009J	0.5	0.5075	102	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4936	99	-	-	75-125	-	20
Potassium, Dissolved	2.69	10	13.2	105	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.128	107	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.0508	102	-	-	75-125	-	20
Sodium, Dissolved	1.97	10	13.1	111	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1180	98	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5120	102	-	-	75-125	-	20
Zinc, Dissolved	ND	0.5	0.5029	100	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 01-08 QC Batch ID: WG973623-3 QC Sample: L1702506-01 Client ID: MW-233S									
Boron, Dissolved	0.0179J	1	1.10	110	-	-	75-125	-	20
Calcium, Dissolved	130	10	140	100	-	-	75-125	-	20
Magnesium, Dissolved	46.	10	57	110	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-14 QC Batch ID: WG973122-4 QC Sample: L1702735-01 Client ID: DUP Sample						
Mercury, Total	0.00012J	0.00012J	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG973268-4 QC Sample: L1702506-01 Client ID: MW-233S						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG973620-4 QC Sample: L1702506-01 Client ID: MW-233S					
Aluminum, Dissolved	0.006J	0.005J	mg/l	NC	20
Antimony, Dissolved	0.0004J	0.0011J	mg/l	NC	20
Arsenic, Dissolved	0.00047J	0.00048J	mg/l	NC	20
Barium, Dissolved	0.0472	0.0460	mg/l	3	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.0003J	0.0002J	mg/l	NC	20
Cobalt, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.0005J	0.0005J	mg/l	NC	20
Iron, Dissolved	ND	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	0.0009J	0.0009J	mg/l	NC	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	2.69	2.79	mg/l	4	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	1.97	1.98	mg/l	1	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG973620-4 QC Sample: L1702506-01 Client ID: MW-233S					
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG973623-4 QC Sample: L1702506-01 Client ID: MW-233S					
Boron, Dissolved	0.0179J	0.0180J	mg/l	NC	20
Calcium, Dissolved	130	130	mg/l	0	20
Magnesium, Dissolved	46.	46	mg/l	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-01
Client ID: MW-233S
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 08:50
Date Received: 01/25/17
Field Prep: Not Specified

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	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	333.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	540		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:08	1,9010C/9012B	JO
Nitrogen, Ammonia	0.026	J	mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:45	44,350.1	AT
Nitrogen, Nitrate	0.22		mg/l	0.10	0.019	1	-	01/26/17 18:41	44,353.2	MR
Nitrogen, Total Kjeldahl	7.34		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:00	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	10.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:33	44,410.4	TL
BOD, 5 day	9.0		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	3.02		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	0.028	J	mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:11	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:13	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 17:56	44,300.0	AU
Chloride	1.79		mg/l	0.500	0.054	1	-	01/26/17 17:56	44,300.0	AU
Sulfate	163.		mg/l	25.0	3.75	25	-	01/26/17 22:32	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-02
Client ID: MW-233D
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 09:30
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	9.0		A.P.C.U.	5.0	5.0	1	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	186.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	550		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:09	1,9010C/9012B	JO
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:46	44,350.1	AT
Nitrogen, Nitrate	0.058	J	mg/l	0.10	0.019	1	-	01/26/17 18:42	44,353.2	MR
Nitrogen, Total Kjeldahl	0.252	J	mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:00	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	10.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:34	44,410.4	TL
BOD, 5 day	8.8		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	0.610		mg/l	0.500	0.114	1	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:17	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:14	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.890		mg/l	0.050	0.010	1	-	01/26/17 18:08	44,300.0	AU
Chloride	116.		mg/l	12.5	1.35	25	-	01/26/17 22:44	44,300.0	AU
Sulfate	124.		mg/l	25.0	3.75	25	-	01/26/17 22:44	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-03
Client ID: MW-3B
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 12:00
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	32		A.P.C.U.	5.0	5.0	1	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	527.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	630		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:10	1,9010C/9012B	JO
Nitrogen, Ammonia	2.29		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:47	44,350.1	AT
Nitrogen, Nitrate	0.022	J	mg/l	0.10	0.019	1	-	01/26/17 18:43	44,353.2	MR
Nitrogen, Total Kjeldahl	2.63		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:01	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	10.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:34	44,410.4	TL
BOD, 5 day	14.		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	3.43		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	0.007	J	mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:18	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:15	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.287		mg/l	0.050	0.010	1	-	01/26/17 18:20	44,300.0	AU
Chloride	54.1		mg/l	5.00	0.541	10	-	01/26/17 22:56	44,300.0	AU
Sulfate	35.5		mg/l	1.00	0.150	1	-	01/26/17 18:20	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-04
Client ID: MW-220
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 13:15
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	30		A.P.C.U.	5.0	5.0	1	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	459.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	700		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:10	1,9010C/9012B	JO
Nitrogen, Ammonia	0.055	J	mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:50	44,350.1	AT
Nitrogen, Nitrate	0.095	J	mg/l	0.10	0.019	1	-	01/26/17 18:45	44,353.2	MR
Nitrogen, Total Kjeldahl	0.622		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:02	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:34	44,410.4	TL
BOD, 5 day	9.6		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	2.13		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	0.008	J	mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:20	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:16	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 18:32	44,300.0	AU
Chloride	21.2		mg/l	0.500	0.054	1	-	01/26/17 18:32	44,300.0	AU
Sulfate	164.		mg/l	25.0	3.75	25	-	01/26/17 23:08	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-05
Client ID: MW-245S
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 14:10
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	52		A.P.C.U.	10	10.	2	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	328.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	630		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:11	1,9010C/9012B	JO
Nitrogen, Ammonia	0.097		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:51	44,350.1	AT
Nitrogen, Nitrate	0.044	J	mg/l	0.10	0.019	1	-	01/26/17 18:46	44,353.2	MR
Nitrogen, Total Kjeldahl	0.379		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:03	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	49.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:34	44,410.4	TL
BOD, 5 day	24.		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	2.23		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:21	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:16	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 18:44	44,300.0	AU
Chloride	68.1		mg/l	12.5	1.35	25	-	01/26/17 23:20	44,300.0	AU
Sulfate	142.		mg/l	25.0	3.75	25	-	01/26/17 23:20	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-06
Client ID: MW-245D
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 14:45
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	16		A.P.C.U.	5.0	5.0	1	-	01/26/17 04:50	121,2120B	KA
Alkalinity, Total	286.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	460		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:12	1,9010C/9012B	JO
Nitrogen, Ammonia	4.24		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:52	44,350.1	AT
Nitrogen, Nitrate	0.033	J	mg/l	0.10	0.019	1	-	01/26/17 18:47	44,353.2	MR
Nitrogen, Total Kjeldahl	4.82		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:04	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	8.2	J	mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:34	44,410.4	TL
BOD, 5 day	15.		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	1.28		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:22	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:17	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.017	J	mg/l	0.050	0.010	1	-	01/26/17 18:56	44,300.0	AU
Chloride	34.7		mg/l	0.500	0.054	1	-	01/26/17 18:56	44,300.0	AU
Sulfate	123.		mg/l	25.0	3.75	25	-	01/26/17 23:32	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-07
Client ID: PZ-4
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 10:55
Date Received: 01/25/17
Field Prep: Not Specified

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	-	01/26/17 05:02	121,2120B	KA
Alkalinity, Total	504.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	720		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:14	1,9010C/9012B	JO
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:53	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	01/26/17 18:49	44,353.2	MR
Nitrogen, Total Kjeldahl	0.176	J	mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:05	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	3.4	J	mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:35	44,410.4	TL
BOD, 5 day	11.		mg/l	5.0	NA	2.5	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	1.24		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	0.011	J	mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:23	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 02:57	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.122		mg/l	0.050	0.010	1	-	01/26/17 19:44	44,300.0	AU
Chloride	39.4		mg/l	0.500	0.054	1	-	01/26/17 19:44	44,300.0	AU
Sulfate	117.		mg/l	25.0	3.75	25	-	01/27/17 00:08	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-08
Client ID: DUP
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 00:00
Date Received: 01/25/17
Field Prep: Not Specified

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	-	01/26/17 05:02	121,2120B	KA
Alkalinity, Total	524.		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	620		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:15	1,9010C/9012B	JO
Nitrogen, Ammonia	2.79		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:54	44,350.1	AT
Nitrogen, Nitrate	0.022	J	mg/l	0.10	0.019	1	-	01/26/17 18:50	44,353.2	MR
Nitrogen, Total Kjeldahl	3.09		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:08	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	13.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:35	44,410.4	TL
BOD, 5 day	13.		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	3.52		mg/l	0.500	0.114	1	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:24	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 02:58	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.285		mg/l	0.050	0.010	1	-	01/26/17 19:56	44,300.0	AU
Chloride	54.8		mg/l	5.00	0.541	10	-	01/27/17 00:20	44,300.0	AU
Sulfate	35.6		mg/l	1.00	0.150	1	-	01/26/17 19:56	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-10
Client ID: SW-5
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 11:10
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	54		A.P.C.U.	10	10.	2	-	01/26/17 05:02	121,2120B	KA
Alkalinity, Total	70.9		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	320		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:16	1,9010C/9012B	JO
Nitrogen, Ammonia	0.193		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:55	44,350.1	AT
Nitrogen, Nitrate	3.9		mg/l	0.10	0.019	1	-	01/26/17 18:51	44,353.2	MR
Nitrogen, Total Kjeldahl	1.27		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:09	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	39.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:35	44,410.4	TL
BOD, 5 day	8.8		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	8.70		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:25	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 02:58	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 20:08	44,300.0	AU
Chloride	90.1		mg/l	5.00	0.541	10	-	01/27/17 00:32	44,300.0	AU
Sulfate	69.1		mg/l	1.00	0.150	1	-	01/26/17 20:08	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-11
Client ID: SW-8
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 12:15
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	44		A.P.C.U.	10	10.	2	-	01/26/17 05:02	121,2120B	KA
Alkalinity, Total	71.3		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	340		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:17	1,9010C/9012B	JO
Nitrogen, Ammonia	0.176		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:55	44,350.1	AT
Nitrogen, Nitrate	3.9		mg/l	0.10	0.019	1	-	01/26/17 18:52	44,353.2	MR
Nitrogen, Total Kjeldahl	1.15		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:10	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	37.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:35	44,410.4	TL
BOD, 5 day	8.9		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	8.94		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:26	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 02:59	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 17:44	44,300.0	AU
Chloride	86.0		mg/l	12.5	1.35	25	-	01/26/17 22:20	44,300.0	AU
Sulfate	68.3		mg/l	1.00	0.150	1	-	01/26/17 17:44	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-12
Client ID: SW-13
Sample Location: NY
Matrix: Water

Date Collected: 01/25/17 10:00
Date Received: 01/25/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	52		A.P.C.U.	10	10.	2	-	01/26/17 05:02	121,2120B	KA
Alkalinity, Total	70.9		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
Solids, Total Dissolved	340		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 14:19	1,9010C/9012B	JO
Nitrogen, Ammonia	0.209		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:58	44,350.1	AT
Nitrogen, Nitrate	3.9		mg/l	0.10	0.019	1	-	01/26/17 19:54	44,353.2	MR
Nitrogen, Total Kjeldahl	1.49		mg/l	0.300	0.066	1	01/30/17 13:07	01/30/17 23:12	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	42.		mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:35	44,410.4	TL
BOD, 5 day	8.7		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	8.63		mg/l	1.00	0.228	2	-	01/26/17 07:06	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:31	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 03:02	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 20:20	44,300.0	AU
Chloride	91.6		mg/l	5.00	0.541	10	-	01/27/17 00:44	44,300.0	AU
Sulfate	70.7		mg/l	1.00	0.150	1	-	01/26/17 20:20	44,300.0	AU

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-13
Client ID: MH-7
Sample Location: NY
Matrix: Water

Date Collected: 01/26/17 08:10
Date Received: 01/26/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	370		A.P.C.U.	50	50.	10	-	01/27/17 02:45	121,2120B	KA
Alkalinity, Total	2540		mg CaCO3/L	10.0	NA	5	-	01/27/17 11:23	121,2320B	BR
Solids, Total Dissolved	3400		mg/l	20	6.1	2	-	01/27/17 09:20	121,2540C	DW
Cyanide, Total	0.004	J	mg/l	0.010	0.003	2	01/27/17 09:37	01/27/17 14:43	1,9010C/9012B	JO
Nitrogen, Ammonia	416.		mg/l	3.75	1.12	50	01/27/17 13:56	01/30/17 22:01	44,350.1	AT
Nitrogen, Nitrate	0.11		mg/l	0.10	0.019	1	-	01/27/17 19:47	44,353.2	CW
Nitrogen, Total Kjeldahl	479.		mg/l	37.5	8.25	125	01/31/17 11:09	01/31/17 22:32	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	770		mg/l	100	27.	10	02/01/17 17:30	02/01/17 19:57	44,410.4	TL
BOD, 5 day	490		mg/l	20	NA	10	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	172.		mg/l	20.0	4.56	40	-	01/27/17 07:02	121,5310C	DW
Phenolics, Total	0.019	J	mg/l	0.030	0.004	1	01/27/17 08:33	01/27/17 13:03	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/27/17 06:00	01/27/17 06:41	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	11.5		mg/l	0.500	0.103	10	-	01/29/17 16:17	44,300.0	JC
Chloride	1340		mg/l	50.0	5.41	100	-	01/29/17 16:41	44,300.0	JC
Sulfate	50.7		mg/l	1.00	0.150	1	-	01/29/17 15:17	44,300.0	JC

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

SAMPLE RESULTS

Lab ID: L1702506-14
Client ID: MH-15
Sample Location: NY
Matrix: Water

Date Collected: 01/26/17 08:50
Date Received: 01/26/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	180		A.P.C.U.	40	40.	8	-	01/27/17 02:45	121,2120B	KA
Alkalinity, Total	691.		mg CaCO3/L	4.00	NA	2	-	01/27/17 11:23	121,2320B	BR
Solids, Total Dissolved	790		mg/l	20	6.1	2	-	01/27/17 09:20	121,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	01/27/17 09:37	01/27/17 13:38	1,9010C/9012B	JO
Nitrogen, Ammonia	38.9		mg/l	0.750	0.225	10	01/27/17 13:56	01/30/17 22:02	44,350.1	AT
Nitrogen, Nitrate	0.095	J	mg/l	0.10	0.019	1	-	01/27/17 19:55	44,353.2	CW
Nitrogen, Total Kjeldahl	37.1		mg/l	3.00	0.660	10	01/30/17 13:07	01/30/17 23:14	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	84.		mg/l	10	2.7	1	02/01/17 17:30	02/01/17 19:57	44,410.4	TL
BOD, 5 day	120		mg/l	5.0	NA	2.5	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
Total Organic Carbon	28.3		mg/l	10.0	2.28	20	-	01/27/17 07:02	121,5310C	DW
Phenolics, Total	0.006	J	mg/l	0.030	0.004	1	01/27/17 08:33	01/27/17 13:04	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/27/17 06:00	01/27/17 06:42	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.895		mg/l	0.050	0.010	1	-	01/29/17 15:29	44,300.0	JC
Chloride	130.		mg/l	5.00	0.541	10	-	01/29/17 16:29	44,300.0	JC
Sulfate	7.13		mg/l	1.00	0.150	1	-	01/29/17 15:29	44,300.0	JC

Project Name: ORANGE COUNTY- BASELINE 88 REC
Project Number: 2010-15
Lab Number: L1702506
Report Date: 02/06/17

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): 07-08,10-12 Batch: WG972621-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:15	01/26/17 02:55	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG972622-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/26/17 02:45	01/26/17 03:12	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-08,10-11 Batch: WG972657-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG972658-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	01/26/17 09:40	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-08,10-11 Batch: WG972728-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 13:56	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG972729-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/26/17 11:00	01/27/17 13:56	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-08,10-12 Batch: WG972744-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	01/26/17 10:32	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG972755-1										
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:06	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 10-12 Batch: WG972756-1										
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/26/17 10:14	01/26/17 14:06	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 01-08,10-12 Batch: WG972830-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	01/26/17 12:20	01/26/17 21:29	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-08,10-12 Batch: WG972833-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	01/26/17 07:06	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-08,10-12 Batch: WG972900-1										
Chemical Oxygen Demand	3.4	J	mg/l	10	2.7	1	01/26/17 18:00	01/26/17 20:30	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-08,10-11 Batch: WG972905-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	01/26/17 18:32	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG972908-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	01/26/17 19:42	44,353.2	MR

Project Name: ORANGE COUNTY- BASELINE 88 REC
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 13-14 Batch: WG973039-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	01/27/17 07:02	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-08,10-14 Batch: WG973040-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	01/27/17 04:20	01/31/17 22:20	121,5210B	TE
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973043-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	01/27/17 09:20	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973058-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	01/27/17 06:00	01/27/17 06:41	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973086-1										
Phenolics, Total	ND		mg/l	0.030	0.004	1	01/27/17 08:33	01/27/17 12:59	4,420.1	AW
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973088-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	01/27/17 09:37	01/27/17 13:24	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973166-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	01/27/17 11:23	121,2320B	BR
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973246-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	01/27/17 13:56	01/30/17 21:28	44,350.1	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-08,10-12 Batch: WG973292-1										
Bromide	ND		mg/l	0.050	0.010	1	-	01/26/17 17:20	44,300.0	AU
Chloride	ND		mg/l	0.500	0.054	1	-	01/26/17 17:20	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.150	1	-	01/26/17 17:20	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 13-14 Batch: WG973298-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.019	1	-	01/27/17 19:31	44,353.2	CW
Anions by Ion Chromatography - Westborough Lab for sample(s): 13-14 Batch: WG973760-1										
Bromide	ND		mg/l	0.050	0.010	1	-	01/29/17 14:53	44,300.0	JC
Chloride	ND		mg/l	0.500	0.054	1	-	01/29/17 14:53	44,300.0	JC
Sulfate	ND		mg/l	1.00	0.150	1	-	01/29/17 14:53	44,300.0	JC
General Chemistry - Westborough Lab for sample(s): 01-08,10-12,14 Batch: WG973769-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	01/30/17 13:07	01/30/17 22:57	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 13 Batch: WG974203-1										
Nitrogen, Total Kjeldahl	0.075	J	mg/l	0.300	0.022	1	01/31/17 11:09	01/31/17 22:30	4,351.3/.1 (M)	AT

Project Name: ORANGE COUNTY- BASELINE 88 REC **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

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): 13-14 Batch: WG974479-1										
Chemical Oxygen Demand	3.4	J	mg/l	10	2.7	1	02/01/17 17:30	02/01/17 19:53	44,410.4	TL

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG

Project Number: 2010-15

Lab Number: L1702506

Report Date: 02/06/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07-08,10-12 Batch: WG972621-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG972622-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 Batch: WG972657-2								
Solids, Total Dissolved	88		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG972658-2								
Solids, Total Dissolved	88		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 Batch: WG972728-2 WG972728-3								
Cyanide, Total	107		109		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG972729-2 WG972729-3								
Cyanide, Total	107		108		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 Batch: WG972744-2								
Alkalinity, Total	101		-		90-110	-		10

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG972755-2					
Phenolics, Total	88	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 10-12 Batch: WG972756-2					
Phenolics, Total	88	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 Batch: WG972830-2					
Nitrogen, Ammonia	91	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 Batch: WG972833-2					
Total Organic Carbon	91	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 Batch: WG972900-2					
Chemical Oxygen Demand	98	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 Batch: WG972905-2					
Nitrogen, Nitrate	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG972908-2					
Nitrogen, Nitrate	96	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery		LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973039-2						
Total Organic Carbon	90		-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-14 Batch: WG973040-2						
BOD, 5 day	131	Q	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973043-2						
Solids, Total Dissolved	90		-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973058-2						
Chromium, Hexavalent	98		-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973086-2						
Phenolics, Total	94		-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973088-2 WG973088-3						
Cyanide, Total	107		110	85-115	3	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973166-2						
Alkalinity, Total	101		-	90-110	-	10

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973246-2					
Nitrogen, Ammonia	96	-	80-120	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-08,10-12 Batch: WG973292-2					
Bromide	93	-	90-110	-	
Chloride	104	-	90-110	-	
Sulfate	104	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG973298-2					
Nitrogen, Nitrate	94	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 13-14 Batch: WG973760-2					
Bromide	91	-	90-110	-	
Chloride	104	-	90-110	-	
Sulfate	105	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12,14 Batch: WG973769-2					
Nitrogen, Total Kjeldahl	94	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 13 Batch: WG974203-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG

Project Number: 2010-15

Lab Number: L1702506

Report Date: 02/06/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-14 Batch: WG974479-2					
Chemical Oxygen Demand	102	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

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): 07-08,10-12 QC Batch ID: WG972621-4 WG972621-5 QC Sample: L1702506-11 Client ID: SW-8												
Chromium, Hexavalent	ND	0.1	0.107	107		0.105	105		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG972622-4 QC Sample: L1702506-06 Client ID: MW-245D												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 QC Batch ID: WG972728-4 WG972728-5 QC Sample: L1702506-11 Client ID: SW-8												
Cyanide, Total	0.004J	0.2	0.200	100		0.164	82		80-120	20		20
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG972729-4 WG972729-5 QC Sample: L1702517-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.142	71	Q	0.170	85		80-120	18		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972744-4 QC Sample: L1702506-11 Client ID: SW-8												
Alkalinity, Total	71.3	100	177	106		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG972755-4 QC Sample: L1702506-01 Client ID: MW-233S												
Phenolics, Total	0.028J	0.4	0.048	5	Q	-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 10-12 QC Batch ID: WG972756-4 QC Sample: L1702506-11 Client ID: SW-8												
Phenolics, Total	ND	0.4	0.36	89		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972830-4 QC Sample: L1702506-11 Client ID: SW-8												
Nitrogen, Ammonia	0.176	4	3.79	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972833-4 QC Sample: L1702506-11 Client ID: SW-8												
Total Organic Carbon	8.94	8	16.7	97		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972900-3 QC Sample: L1702506-11 Client ID: SW-8										
Chemical Oxygen Demand	37.	47.6	87	105		-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 QC Batch ID: WG972905-4 QC Sample: L1702506-11 Client ID: SW-8										
Nitrogen, Nitrate	3.9	4	7.7	95		-	-	83-113	-	6
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG972908-4 QC Sample: L1702526-11 Client ID: MS Sample										
Nitrogen, Nitrate	0.074J	4	3.8	95		-	-	83-113	-	6
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973039-4 QC Sample: L1702635-02 Client ID: MS Sample										
Total Organic Carbon	811.	1600	2320	94		-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-14 QC Batch ID: WG973040-3 QC Sample: L1702506-11 Client ID: SW-8										
BOD, 5 day	8.9	100	190	179	Q	-	-	50-145	-	35
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973058-4 QC Sample: L1702506-14 Client ID: MH-15										
Chromium, Hexavalent	ND	0.1	0.099	99		-	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973086-4 QC Sample: L1702585-01 Client ID: MS Sample										
Phenolics, Total	0.005J	0.4	0.41	103		-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973088-4 WG973088-5 QC Sample: L1702661-01 Client ID: MS Sample										
Cyanide, Total	ND	0.2	0.224	112		0.201	100	80-120	11	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973166-4 QC Sample: L1702580-01 Client ID: MS Sample										
Alkalinity, Total	78.3	100	180	102		-	-	86-116	-	10

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973246-4 QC Sample: L1702506-14 Client ID: MH-15											
Nitrogen, Ammonia	38.9	4	43.0	102		-	-		80-120	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG973292-3 WG973292-4 QC Sample: L1702506-11 Client ID: SW-8											
Bromide	ND	0.4	0.357	89		0.358	90		77-119	0	20
Chloride	86.0	100	190	104		189	103		40-151	1	18
Sulfate	68.3	8	73.8	69		73.6	66		60-140	0	20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973298-4 QC Sample: L1702506-13 Client ID: MH-7											
Nitrogen, Nitrate	0.11	4	3.9	95		-	-		83-113	-	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973760-3 QC Sample: L1702506-14 Client ID: MH-15											
Bromide	0.895	0.4	1.25	89		-	-		77-119	-	20
Chloride	130.	40	169	97		-	-		40-151	-	18
Sulfate	7.13	8	14.9	97		-	-		60-140	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12,14 QC Batch ID: WG973769-4 QC Sample: L1702506-11 Client ID: SW-8											
Nitrogen, Total Kjeldahl	1.15	8	8.40	91		-	-		77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG974203-4 QC Sample: L1702506-13 Client ID: MH-7											
Nitrogen, Total Kjeldahl	479.	8	480	12	Q	-	-		77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG974479-3 QC Sample: L1702763-02 Client ID: MS Sample											
Chemical Oxygen Demand	8.2J	47.6	51	107		-	-		80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07-08,10-12 QC Batch ID: WG972621-3 QC Sample: L1702506-11 Client ID: SW-8						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG972622-3 QC Sample: L1702506-06 Client ID: MW-245D						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG972632-1 QC Sample: L1702506-06 Client ID: MW-245D						
Color, Apparent	16.	16	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 07-08,10-12 QC Batch ID: WG972633-1 QC Sample: L1702506-11 Client ID: SW-8						
Color, Apparent	44.	52	A.P.C.U.	17		
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 QC Batch ID: WG972657-3 QC Sample: L1702506-11 Client ID: SW-8						
Solids, Total Dissolved	340	340	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG972658-3 QC Sample: L1702516-01 Client ID: DUP Sample						
Solids, Total Dissolved	6600	6500	mg/l	2		17
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972744-3 QC Sample: L1702506-11 Client ID: SW-8						
Alkalinity, Total	71.3	71.0	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG972755-3 QC Sample: L1702506-01 Client ID: MW-233S						
Phenolics, Total	0.028J	0.009J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 10-12 QC Batch ID: WG972756-3 QC Sample: L1702506-11 Client ID: SW-8						
Phenolics, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972830-3 QC Sample: L1702506-11 Client ID: SW-8					
Nitrogen, Ammonia	0.176	0.200	mg/l	13	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972833-3 QC Sample: L1702506-11 Client ID: SW-8					
Total Organic Carbon	8.94	8.93	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12 QC Batch ID: WG972900-4 QC Sample: L1702506-11 Client ID: SW-8					
Chemical Oxygen Demand	37.	42	mg/l	13	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-11 QC Batch ID: WG972905-3 QC Sample: L1702506-11 Client ID: SW-8					
Nitrogen, Nitrate	3.9	3.9	mg/l	0	6
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG972908-3 QC Sample: L1702526-11 Client ID: DUP Sample					
Nitrogen, Nitrate	0.074J	0.052J	mg/l	NC	6
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973015-1 QC Sample: L1702506-13 Client ID: MH-7					
Color, Apparent	370	360	A.P.C.U.	3	
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973039-3 QC Sample: L1702635-02 Client ID: DUP Sample					
Total Organic Carbon	811.	842	mg/l	4	20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-14 QC Batch ID: WG973040-4 QC Sample: L1702506-11 Client ID: SW-8					
BOD, 5 day	8.9	8.8	mg/l	1	35
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973043-3 QC Sample: L1702484-01 Client ID: DUP Sample					
Solids, Total Dissolved	430	440	mg/l	2	17

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
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Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973058-3 QC Sample: L1702506-14 Client ID: MH-15						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973086-3 QC Sample: L1702585-01 Client ID: DUP Sample						
Phenolics, Total	0.005J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973166-3 QC Sample: L1702580-01 Client ID: DUP Sample						
Alkalinity, Total	78.3	76.9	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973246-3 QC Sample: L1702506-14 Client ID: MH-15						
Nitrogen, Ammonia	38.9	40.4	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973298-3 QC Sample: L1702506-13 Client ID: MH-7						
Nitrogen, Nitrate	0.11	0.12	mg/l	9	Q	6
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973760-4 QC Sample: L1702506-14 Client ID: MH-15						
Chloride	130.	129	mg/l	1		18
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG973760-4 QC Sample: L1702506-14 Client ID: MH-15						
Bromide	0.895	0.883	mg/l	1		20
Sulfate	7.13	7.13	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-08,10-12,14 QC Batch ID: WG973769-3 QC Sample: L1702506-11 Client ID: SW-8						
Nitrogen, Total Kjeldahl	1.15	1.00	mg/l	14		24

Lab Duplicate Analysis
Batch Quality Control

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG974203-3 QC Sample: L1702506-13 Client ID: MH-7					
Nitrogen, Total Kjeldahl	479.	505	mg/l	5	24
General Chemistry - Westborough Lab Associated sample(s): 13-14 QC Batch ID: WG974479-4 QC Sample: L1702763-02 Client ID: DUP Sample					
Chemical Oxygen Demand	8.2J	8.2J	mg/l	NC	20

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information	Custody Seal
Cooler	
A	Absent
D	Absent
B	Absent
C	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-01A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-01B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-01C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-01D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1702506-01E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1702506-01F	Amber 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	NY-TPHENOL-420(28)
L1702506-01G	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-01J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-01K	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1702506-01L	Plastic 120ml unpreserved w/No H	A	N/A	2.8	Y	Absent	ALK-T-2320(14)
L1702506-01M	Plastic 250ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-01N	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	-
L1702506-01O	Plastic 950ml unpreserved	A	7	2.8	Y	Absent	HEXCR-7196(1),BOD-5210(2)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY- BASELINE 88 REG
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Lab Number: L1702506
Report Date: 02/06/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-01X	Plastic 120ml HNO3 preserved spl	A	N/A	2.8	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-02A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-02B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-02C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-02D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1702506-02E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1702506-02F	Amber 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	NY-TPHENOL-420(28)
L1702506-02G	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-02J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-02K	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1702506-02L	Plastic 120ml unpreserved w/No H	A	N/A	2.8	Y	Absent	ALK-T-2320(14)
L1702506-02M	Plastic 250ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-02N	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	-
L1702506-02O	Plastic 950ml unpreserved	A	7	2.8	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-02X	Plastic 120ml HNO3 preserved spl	A	N/A	2.8	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY- BASELINE 88 REG
Project Number: 2010-15

Lab Number: L1702506
Report Date: 02/06/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-03A	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-03B	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-03C	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-03D	Vial H2SO4 preserved	D	N/A	3.2	Y	Absent	TOC-5310(28)
L1702506-03E	Vial H2SO4 preserved	D	N/A	3.2	Y	Absent	TOC-5310(28)
L1702506-03F	Amber 500ml H2SO4 preserved	D	<2	3.2	Y	Absent	NY-TPHENOL-420(28)
L1702506-03G	Plastic 250ml unpreserved	D	7	3.2	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-03J	Plastic 500ml H2SO4 preserved	D	<2	3.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-03K	Plastic 250ml NaOH preserved	D	>12	3.2	Y	Absent	TCN-9010(14)
L1702506-03L	Plastic 120ml unpreserved w/No H	D	N/A	3.2	Y	Absent	ALK-T-2320(14)
L1702506-03M	Plastic 250ml HNO3 preserved	D	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-03N	Plastic 250ml unpreserved	D	7	3.2	Y	Absent	-
L1702506-03O	Plastic 950ml unpreserved	D	7	3.2	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-03X	Plastic 120ml HNO3 preserved spl	D	N/A	3.2	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-04A	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-04B	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-04C	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-04D	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-04E	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-04F	Amber 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	NY-TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: ORANGE COUNTY- BASELINE 88 REG
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Lab Number: L1702506
Report Date: 02/06/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-04G	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-04J	Plastic 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-04K	Plastic 250ml NaOH preserved	B	>12	2.5	Y	Absent	TCN-9010(14)
L1702506-04L	Plastic 120ml unpreserved w/No H	B	N/A	2.5	Y	Absent	ALK-T-2320(14)
L1702506-04M	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-04N	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	-
L1702506-04O	Plastic 950ml unpreserved	B	7	2.5	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-04X	Plastic 120ml HNO3 preserved spl	B	N/A	2.5	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-05A	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-05B	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-05C	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-05D	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-05E	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-05F	Amber 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	NY-TPHENOL-420(28)
L1702506-05G	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-05J	Plastic 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-05K	Plastic 250ml NaOH preserved	B	>12	2.5	Y	Absent	TCN-9010(14)
L1702506-05L	Plastic 120ml unpreserved w/No H	B	N/A	2.5	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Lab Number: L1702506
Report Date: 02/06/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-05M	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-05N	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	-
L1702506-05O	Plastic 950ml unpreserved	B	7	2.5	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-05X	Plastic 120ml HNO3 preserved spl	B	N/A	2.5	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-06A	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-06B	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-06C	Vial HCl preserved	B	N/A	2.5	Y	Absent	NYTCL-8260(14)
L1702506-06D	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-06E	Vial H2SO4 preserved	B	N/A	2.5	Y	Absent	TOC-5310(28)
L1702506-06F	Amber 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	NY-TPHENOL-420(28)
L1702506-06G	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-06J	Plastic 500ml H2SO4 preserved	B	<2	2.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-06K	Plastic 250ml NaOH preserved	B	>12	2.5	Y	Absent	TCN-9010(14)
L1702506-06L	Plastic 120ml unpreserved w/No H	B	N/A	2.5	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Lab Number: L1702506
Report Date: 02/06/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-06M	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-06N	Plastic 250ml unpreserved	B	7	2.5	Y	Absent	-
L1702506-06O	Plastic 950ml unpreserved	B	7	2.5	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-06X	Plastic 120ml HNO3 preserved spl	B	N/A	2.5	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-07A	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-07B	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-07C	Vial HCl preserved	D	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1702506-07D	Vial H2SO4 preserved	D	N/A	3.2	Y	Absent	TOC-5310(28)
L1702506-07E	Vial H2SO4 preserved	D	N/A	3.2	Y	Absent	TOC-5310(28)
L1702506-07F	Amber 500ml H2SO4 preserved	D	<2	3.2	Y	Absent	NY-TPHENOL-420(28)
L1702506-07G	Plastic 250ml unpreserved	D	7	3.2	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-07J	Plastic 500ml H2SO4 preserved	D	<2	3.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-07K	Plastic 250ml NaOH preserved	D	>12	3.2	Y	Absent	TCN-9010(14)
L1702506-07L	Plastic 120ml unpreserved w/No H	D	N/A	3.2	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-07M	Plastic 250ml HNO3 preserved	D	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-07N	Plastic 250ml unpreserved	D	7	3.2	Y	Absent	-
L1702506-07O	Plastic 950ml unpreserved	D	7	3.2	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-07X	Plastic 120ml HNO3 preserved spl	D	N/A	3.2	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-08A	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-08B	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-08C	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-08D	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-08E	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-08F	Amber 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	NY-TPHENOL-420(28)
L1702506-08G	Plastic 250ml unpreserved	E	7	2.3	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-08J	Plastic 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-08K	Plastic 250ml NaOH preserved	E	>12	2.3	Y	Absent	TCN-9010(14)
L1702506-08L	Plastic 120ml unpreserved w/No H	E	N/A	2.3	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-08M	Plastic 250ml HNO3 preserved	E	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-08N	Plastic 250ml unpreserved	E	7	2.3	Y	Absent	-
L1702506-08O	Plastic 950ml unpreserved	E	7	2.3	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-08X	Plastic 120ml HNO3 preserved spl	E	N/A	2.3	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),MG-SI(180),SB-6020S(180),AL-6020S(180),CA-SI(180),CD-6020S(180),HG-S(28)
L1702506-09A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-09B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1702506-10A	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-10B	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-10C	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-10D	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-10E	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-10F	Amber 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	NY-TPHENOL-420(28)
L1702506-10G	Plastic 250ml unpreserved	C	7	4.4	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-10J	Plastic 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-10K	Plastic 250ml NaOH preserved	C	>12	4.4	Y	Absent	TCN-9010(14)
L1702506-10L	Plastic 120ml unpreserved w/No H	C	N/A	4.4	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-10M	Plastic 250ml HNO3 preserved	C	<2	4.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-10N	Plastic 950ml unpreserved	C	7	4.4	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-11A	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-11A1	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11A2	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11B	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-11B1	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11B2	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11C	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-11C1	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11C2	Vial HCl preserved	E	N/A	2.3	Y	Absent	NYTCL-8260(14)
L1702506-11D	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-11D1	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-11D2	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-11E	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-11E1	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-11E2	Vial H2SO4 preserved	E	N/A	2.3	Y	Absent	TOC-5310(28)
L1702506-11F	Amber 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	NY-TPHENOL-420(28)
L1702506-11F1	Amber 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	NY-TPHENOL-420(28)
L1702506-11F2	Amber 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	NY-TPHENOL-420(28)
L1702506-11G	Plastic 250ml unpreserved	C	7	4.4	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-11G1	Plastic 250ml unpreserved	E	7	2.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-11G2	Plastic 250ml unpreserved	E	7	2.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BOD-5210(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-11J	Plastic 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-11J1	Plastic 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-11J2	Plastic 500ml H2SO4 preserved	E	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-11K	Plastic 250ml NaOH preserved	C	>12	4.4	Y	Absent	TCN-9010(14)
L1702506-11K1	Plastic 250ml NaOH preserved	E	>12	2.3	Y	Absent	TCN-9010(14)
L1702506-11K2	Plastic 250ml NaOH preserved	E	>12	2.3	Y	Absent	TCN-9010(14)
L1702506-11L	Plastic 120ml unpreserved w/No H	C	N/A	4.4	Y	Absent	ALK-T-2320(14)
L1702506-11L1	Plastic 120ml unpreserved w/No H	E	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1702506-11L2	Plastic 120ml unpreserved w/No H	E	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1702506-11M	Plastic 250ml HNO3 preserved	C	<2	4.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-11M1	Plastic 250ml HNO3 preserved	E	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-11M2	Plastic 250ml HNO3 preserved	E	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-11N	Plastic 950ml unpreserved	C	7	4.4	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-11N1	Plastic 950ml unpreserved	E	7	2.3	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-11N2	Plastic 950ml unpreserved	E	7	2.3	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-12A	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-12B	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-12C	Vial HCl preserved	C	N/A	4.4	Y	Absent	NYTCL-8260(14)
L1702506-12D	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-12E	Vial H2SO4 preserved	C	N/A	4.4	Y	Absent	TOC-5310(28)
L1702506-12F	Amber 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	NY-TPHENOL-420(28)
L1702506-12G	Plastic 250ml unpreserved	C	7	4.4	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-12J	Plastic 500ml H2SO4 preserved	C	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-12K	Plastic 250ml NaOH preserved	C	>12	4.4	Y	Absent	TCN-9010(14)
L1702506-12L	Plastic 120ml unpreserved w/No H	C	N/A	4.4	Y	Absent	ALK-T-2320(14)
L1702506-12M	Plastic 250ml HNO3 preserved	C	<2	4.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-12N	Plastic 950ml unpreserved	C	7	4.4	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-13A	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-13B	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-13C	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-13D	Vial H2SO4 preserved	F	N/A	3.8	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

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L1702506-13E	Vial H2SO4 preserved	F	N/A	3.8	Y	Absent	TOC-5310(28)
L1702506-13F	Amber 500ml H2SO4 preserved	F	<2	3.8	Y	Absent	NY-TPHENOL-420(28)
L1702506-13G	Plastic 250ml unpreserved	F	7	3.8	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-13J	Plastic 500ml H2SO4 preserved	F	<2	3.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-13K	Plastic 250ml NaOH preserved	F	>12	3.8	Y	Absent	TCN-9010(14)
L1702506-13L	Plastic 120ml unpreserved w/No H	F	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1702506-13M	Plastic 250ml HNO3 preserved	F	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-13N	Plastic 950ml unpreserved	F	7	3.8	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-14A	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-14B	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-14C	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-14D	Vial H2SO4 preserved	F	N/A	3.8	Y	Absent	TOC-5310(28)
L1702506-14E	Vial H2SO4 preserved	F	N/A	3.8	Y	Absent	TOC-5310(28)
L1702506-14F	Amber 500ml H2SO4 preserved	F	<2	3.8	Y	Absent	NY-TPHENOL-420(28)
L1702506-14G	Plastic 250ml unpreserved	F	7	3.8	Y	Absent	SO4-300(28),CL-300(28),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1702506-14J	Plastic 500ml H2SO4 preserved	F	<2	3.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1702506-14K	Plastic 250ml NaOH preserved	F	>12	3.8	Y	Absent	TCN-9010(14)
L1702506-14L	Plastic 120ml unpreserved w/No H	F	N/A	3.8	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1702506-14M	Plastic 250ml HNO3 preserved	F	<2	3.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-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),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1702506-14N	Plastic 950ml unpreserved	F	7	3.8	Y	Absent	HEXCR-7196(1),BOD-5210(2)
L1702506-15A	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)
L1702506-15B	Vial HCl preserved	F	N/A	3.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

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).

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.

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.

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.

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.

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.

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

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.

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.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

Report Format: DU Report with 'J' Qualifiers

Project Name: ORANGE COUNTY- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

Data Qualifiers

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.

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.

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

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.

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).

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- BASELINE 88 REG **Lab Number:** L1702506

Project Number: 2010-15 **Report Date:** 02/06/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
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: 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**
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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

Serial_No:02061715:54

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 1

Date Rec'd in Lab: 1/27/17 (1/27/16 struck through)

ALPHA Job #: L1702506

Project Information

Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project #: 2010-15
(Use Project name as Project #) ☐
Project Manager: Mark Williams
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information

Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironme

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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex

cody.sargood@sterlingenvironmental.com, mark.williams@sterlingenvironmental

Please specify Metals or TAL.

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	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Total Bottles
02506 .13	MH-7	1/26/17	810	Water	CD	X	X	X	X	X	X	X			12
.14	MH-15	1/26/17	815	Water	CD	X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
.15	Trip Blank	1/26/17	900	Lab Water	CD							X		Trip Blank	2
	Container Type					A	P	P	P	P	V	V			
	Preservative					D	A	C	D	A	D	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
[signature]	1/26/17 1345	[signature] AAL	1-26-17 15:45
[signature]	1-26-17 15:45	[signature]	1/26/17 15:45

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.

Form No: 01-25 (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 1 of 2

Date Rec'd in Lab: 1/25/17

ALPHA Job #: L1702506

Client Information
Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironme

Project Information
Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project # 2010-15
(Use Project name as Project #) ☐
Project Manager:
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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex
cc'y. Swgood@sterlingenvironmental.com
mark.williams@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☑ Lab to do (Dissolved metals)
Preservation
☑ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Total Bottle
02506-01	MW-2335	1/25/17	850	Water	(a)	X	X	X	X	X	X	X	X		12
02	MW-2338 D		930	Water	(a)	X	X	X	X	X	X	X	X		12
03	MW-38		1200	Water	(a)	X	X	X	X	X	X	X	X		12
04	MW-220		1315	Water	(a)	X	X	X	X	X	X	X	X		12
05	MW-2455		1410	Water	(a)	X	X	X	X	X	X	X	X		12
06	MW-245 D		1445	Water	(a)	X	X	X	X	X	X	X	X		12
07	~~RB4~~ PZ-4		1055	Water	(a)	X	X	X	X	X	X	X	X		12
11	MS/MSD		1215	Water	(a)	X	X	X	X	X	X	X	X		12
08	Dup	✓	--	water	(a)	X	X	X	X	X	X	X	X		13
09	Trip Blank	1/25/17	--	Lab Water	(a)							X		Trip Blank	2

Container Type: A P P P P V V P
Preservative: D A C D A D B 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
	1/25/17 1615		1-25-17 1615
	1-25-17 17:15	Tom Tobin	1-25-17 1800
Tom Tobin	1-25-17 2300		1/25/17 2300

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.

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ALPHA ANALYTICAL

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Page 1 of 1

Date Rec'd in Lab: 1/25/17

ALPHA Job #: L1702506

Client Information
Client: Sterling Env & Eng
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax: 518-456-3532
Email: joe.spaulding@sterlingenvironmer

Project Information
Project Name: Orange County - Baseline 88 Regs
Project Location: NY
Project # 2010-15
(Use Project name as Project #)
Project Manager:
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: NA

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Baseline 88 Regs Wet Chem: BOD,TDS,SO4,Br,Cl,NO3,Turb,Color,Hex
Cody.Sargood@sterlingenvironmental.com, mark.williams@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	Tphenol	Wet Chem Parameters	Total Metals (Baseline 88)	NH3 TKN COD	Alk (No Headspace)	TOC	VOC (Baseline 88)	**Dissolved Metals**	Sample Specific Comments	Total Bottles
	~~MH-15~~			Water		X	X	X	X	X	X	X			12
	~~MH-7~~			Water		X	X	X	X	X	X	X			12
02506-10	SW-5	1/25/17	1110	Water	@	X	X	X	X	X	X	X			12
11	SW-8	1/25/17	1215	Water	@	X	X	X	X	X	X	X			12
12	SW-13	1/25/17	1000	Water	@	X	X	X	X	X	X	X			12
				Water		X	X	X	X	X	X	X			12
				~~Water~~		X	X	X	X	X	X	X			12
				~~Water~~		X	X	X	X	X	X	X			12
	Trip ~~Blank~~			Lab Water								X		Trip Blank	2

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

Container Type	A	P	P	P	P	V	V	
Preservative	D	A	C	D	A	D	B	

Relinquished By:	Date/Time	Received By:	Date/Time
	1/25/17 1615		1-25-17 16:15
	1-25-17 17:15		1-25-17 1800
Tom Tobin	1-25-17 2300		1/25/17 23

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