Ash Road Properties

BROOME COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C704032

Prepared for:

West Covina Royale, LP

5150 Overland Avenue, Culver City, CA 90230

Prepared by:

GeoLogic NY, Inc.

PO Box 350, Homer, NY 13077

607-749-5000

NOVEMBER 2015

CERTIFICATIONS

I, Kenneth J. Teter, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established in for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Kenneth Teter, P.E., of 32 Clinton Street, Homer, New York, 13077, am certifying as Owner's Designated Site Representative and I have been authorized and designated by all site owners to sign this certification for the site.

NYS Professional Engineer #	Date	Signature
	11/6/15	

TABLE OF CONTENTS

List of Tables

List of Figures

List of Appendices

List of Acronyms

BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BOD	Biological Oxygen Demand
COC	Contaminants of Concern
DER	Division of Environmental Remediation
DO	Dissolved Oxygen
DUSR	Data Usability Summary Report
EC	Engineering Control
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
NYCRR	New York Codes, Rules and Regulations
ORP	Oxidation reduction Potential
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Soil Management Plan
TCL	Target Compound List
TOC	Total Organic Carbon

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

West Covina Royale, LLP entered into a Brownfield Cleanup Agreement (BCA), with the New York State Department of Environmental Conservation (NYSDEC) in July 2009, to investigate and remediate a 1.557-acre property located in Town of Vestal, Broome County, New York. The property was remediated to commercial use.

The site is located in Broome County and is identified as Section 158.10 Block 2 Lot 13 on the Broome County tax map. The site occupies the southern portion of the Lowe's Home Center 14.47-acre property, tax map number 158.10-2-13. The Site has been identified by four tax map parcel designations prior to the incorporation of these four parcels, as well as other parcels, into the one current 14.47-acre parcel. The site is bounded by Lowes Home Center parking lot to the north, Ash Road to the south, a residential mobile home park to the east, and Sycamore Road to the west (see Figures 1 and 2). The boundaries of the site are fully described in Appendix A, Survey Map, Metes and Bounds.

An electronic copy of this FER with all supporting documentation is included as Appendix F.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of the Remedial Investigation/Interim Remedial Measure, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure from contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the site.

2.2 Description of Selected Remedy

The site was remediated in accordance with the remedy selected by the NYSDEC in the Remedial Action Work Plan (RAWP) dated March 2015 with an addendum to the RAWP submitted May 2015. See Appendix B for the NYSDEC approval letters for both documents.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Injection of a biostimulant to accelerate the already occurring biodegradation of the primary contaminant of concern, tetrachloroethene;

2. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site;

3. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, and (3) reporting;

4. Periodic certification of the institutional and engineering controls listed above.

3.0 INTERIM REMEDIAL MEASURES

An Interim Remedial Measure (IRM) was implemented to remove the source area in order to reduce continuing receptor exposure to the contaminants of concern (COC), which include tetrachloroethene and its transformation products trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride. Source removal was achieved via excavation. The IRM activities were completed between September and November, 2011.

An excavation contractor completed all excavation, staging and backfilling activities, as well as providing the transportation and disposal of all waste materials. The limits of the excavation were approximately 35 feet (east-west) by 40 feet (north-south). The depth of the excavation extended to between 9 and 11 feet bgs to the bottom of an organic soils zone in the south portion of the excavation. The north section of the excavation was extended to depths ranging from approximately 5 to 6 feet bgs. At the northeast corner of the excavation, the remains of a foundation wall and footing were present. These structures were not removed. This observation confirms that the area excavated is the same area identified in previous studies at the site where elevated contaminant levels were observed off the southwest corner of a former automotive body shop building.

Soils exhibiting contaminant characteristics (elevate photoionization detector (PID) readings and olfactory) were removed by the excavation operations. Field observations indicated that contaminant levels decreased with depth, with the highest PID readings recorded within the upper 5 feet of the excavation.

Soil samples were collected from the bottom and sidewalls of the excavation for analysis for volatile compounds on the Target Compound List (TCL). The concentration of COCs in the soil samples collected from the bottom and sidewalls of the IRM excavation were below Commercial Soil Cleanup Objectives (SCOs).

The excavation was backfilled with clean 1-inch minus crushed stone. A total of 196.63 tons of materials were transported off-site to the landfill. The excavated area was repaved with asphalt.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the site were conducted in accordance with the NYSDEC-approved RAWP for the Ash Road Properties site dated March 2015 with an addendum to the RAWP dated May 2015.

The objective of enhanced in-situ bioremediation is to increase activity of a targeted biological biomass throughout the contaminated aquifer, thereby achieving effective biodegradation of contaminants. While the primary purpose of bioremediation is to increase the viability of a population of a particular group, or groups of microbes to degrade a particular contaminant, these processes are already occurring within the groundwater system at the Site, indicating that the existing geochemical conditions are favorable for anaerobic biodegradation.

The enhanced in-situ bioremediation was accomplished through the introduction of Carus CAP 18®, an unemulsified oil that provides an auxiliary substrate (carbon source). In this direct anaerobic dechlorination process, hydrogen (an electron donor) is supplied by fermentation of the substrate, and the contaminant serves as the electron acceptor. The auxiliary substrate also provides additional carbon source material to support the growth of transforming microorganisms involved in cometabolic anaerobic reductive dechlorination processes in the environment.

4.1 Pre-Injection Monitoring

The COCs at the site are tetrachloroethene and its transformation products trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride. COCs in groundwater at the site exceed NYSDEC Water Quality Guidance Standards. Monitoring wells MW-01,

MW-02S/D, MW-09S/D and MW-10S/D are located within or just beyond the general limits of the on-site contaminant plume with wells MW-02D, MW-09D and MW-10D being deeper piezometers. Groundwater samples collected from these deeper wells have either low contaminant concentrations or no contaminants detected. Seven sampling events over a two-year period have little to no variation in contaminant concentrations at these deeper wells. These wells were not part of the sampling scheme for pre-injection and post-injection monitoring.

Prior to the injection of CAP 18®, groundwater samples from monitoring wells MW-01, MW-02S, MW-09S and MW-10S were collected and analyzed for volatile organic compounds on the Target Compounds List (TCL) by EPA Method 8260 in accordance with the Sampling and Analysis Plan (see RAWP, Appendix C). Pre-injection groundwater monitoring also included depth to groundwater measurements, along with dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, and conductivity field measurements at all four monitoring wells (see Tables 1 and 2). Groundwater samples from these four wells were analyzed for biological oxygen demand (BOD), nitrite, nitrate (field measurement), sulfate, chloride, methane and dissolved iron. Wells MW-02S and MW-09S were also analyzed for total organic carbon (TOC) and manganese to evaluate trends in biological activity (see Table 3). This is an expanded scope of analysis from that proposed in the RAWP.

4.2 Injection of Biostimulants

The application of the biostimulant, CAP 18®, a carbon-based substrate, into the subsurface was through direct injection using direct-push equipment and a Geoprobe® Grout Pump, an injection machine that features a variable-speed control valve with pulsating fluid delivery.

The number of planned injection points was one hundred-two points; ninety-five points were performed due to slight discrepancies between planned layouts and actual field layout of the injection grid pattern. Additional injection points were completed within the area between the IRM excavation and Ash Road, an area that was not excavated due to the presence of underground utilities.

The ninety-five injection locations were completed in a grid-pattern within the general proximity of the interim remedial measure excavation, encompassing the area south of the excavation (a likely on-going source of contamination) and north of the excavation generally encompassing the contaminant plume with concentrations over 500 parts per billion (ppb) (Figure 3). Direct-push rods were advanced to a depth of approximately 12 feet bgs. After completing the injection, the borings were allowed to collapse in on themselves as the rods are removed. The remaining open boreholes were sealed with granular bentonite. Equipment refusal was encountered at some injection point locations before reaching the planned injection depth of 12 feet. Table 4 summarized the depths achieved, the injection interval and the quantity injected at each injection location. A total of 850 pounds of CAP 18® was injected (Figure 3) into the subsurface.

4.3 Post-Injection Monitoring and Sampling

Post-injection groundwater monitoring included DO, ORP, pH, temperature, and conductivity field measurements on a weekly basis for three weeks and then monthly for three months. Laboratory analysis of BOD, nitrite, sulfate/sulfur, chloride, dissolved iron, manganese and methane, and nitrate field measurements were conducted at wells MW-02S and MW-09S on a monthly basis for three months per the RAWP. Analyses at wells MW-01 and MW-10S were also performed in order to monitor any changes that may have occurred near the limits of the on-site contaminant plume.

Groundwater samples from MW-01, MW-02S, MW-09S and MW-10S were also analyzed for TCL volatile compounds monthly for three months, post-injection (see Tables 5 and 6).

5.0 GOVERNING DOCUMENTS

5.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the site.

5.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix C of the RAWP approved by the NYSDEC (See Appendix C). The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives

5.3 Remedial Program Contractors and Consultants

Environmental Consultant:	GeoLogic NY, Inc.
Injection Contractor:	GeoLogic NY, Inc.
Biostimulant Vendor:	Carus Corporation
Project Engineer:	Kenneth Teter, P.E.
Laboratory:	Pace Analytical

6.0 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

This section contains groundwater elevations and field parameter measurement data for the pre- and post-injection groundwater monitoring scope proposed in the RAWP, as well as the laboratory analytical data with the exception of the third monthly sampling event performed on September 3, 2015. The September 2015 data will be included in the first Periodic Review Report.

Groundwater elevations (Table 1) were recorded monthly between June and September, 2015. Groundwater Table Maps were prepared for these three dates; the direction of groundwater flow is to the northwest, and is similar to previously recorded flow directions (see Figures 4 through 6).

Field parameters were recorded during seven monitoring events between June and September 2015 at wells MW-01, MW-02S, MW-09S and MW-10S (see Table 2). Wells MW-01 and MW-10S are located along the limits of the contaminant plume. Well MW-09S is located adjacent to the IRM excavation (former source area) and MW-02 is located downgradient of the IRM excavation. It is apparent through the recorded measurements

that the groundwater environment at wells MW-09S and MW-02S have been influenced by the injection event as discussed below.

6.1 Field Parameters

Biodegradation of an organic substrate (e.g. tetrachloroethene) can deplete the aquifer of terminal electron acceptors such as oxygen, lower the ORP as well as pH, and increase conductivity. These field parameters were measured to assist in the evaluation of changes in the groundwater system after the injection of the supplemental carbon source (See Table 2).

There is an upward trend in temperature readings at all four wells and is likely attributed to the summer season.

Although biodegradation of substrates can increase conductivity measurement, it was expected to see a decrease in conductivity at well MW-09S due to the presence of CAP 18® in groundwater within the injection zone. The conductivity at MW-09S did decrease post-injection, but has shown an increasing trend over the last 3 months. Minimal fluctuations in conductivity have been observed at wells MW-01 and MW-02S with no discernible trend. Conductivity at well MW-10S has decreased post-injection. Additional data collected during future monitoring events may assist in evaluating these changes in conductivity.

A decrease in ORP and pH was expected within the injection zone at well MW-09S and downgradient of the injection zone at well MW-02S. There is a downward trend for ORP at wells MW-02S and MW-09S. The ORP at MW-09S has changed to a negative measurement, indicating that the groundwater environment in the injection zone has changed to a reducing environment. The pH at wells MW-02S and MW-09S have remained less than 7 since the injection event, another indication of changes in the groundwater to a reducing environment. There are no discernible trends in pH measurements at wells MW-01 and MW-10S, or for ORP measurements at MW-01. Fluctuations in ORP have been observed at well MW-10S with the lowest measurements observed during the last two monitoring events. This may indicate that the groundwater environment at well MW-10S is being influenced by the injection of CAP 18®.

Additional data collected during future monitoring events may assist in evaluating these changes in ORP.

A decrease of DO concentrations was expected within the injection zone at well MW-09S and possibly downgradient of the injection zone at well MW-02S. An increase in dissolved oxygen has been observed only at well MW-01. Little change in DO has been observed at well MW-02S and MW-10S. There is a decreasing trend of DO at MW-09S, another indicator that the groundwater environment in the injection zone is changing to a reducing environment.

6.2 Groundwater Chemistry

Groundwater samples from the four wells were analyzed for biological oxygen demand (BOD), nitrite, nitrate (field measurement), sulfate, chloride, methane and dissolved iron. Wells MW-02S and MW-09S were also analyzed for total organic carbon (TOC) and manganese to evaluate trends in biological activity.

Chloride is a general water quality parameter and can be an indicator that dechlorination is occurring since chloride is produced during the reduction of tetrachloroethene. A general decrease in chloride concentrations has been observed at all wells since the injection of CAP 18®. The reason for this decrease is not clear at this time, but may be related to the overall decrease in the contaminant concentrations in groundwater.

After DO is consumed, anaerobic bacteria will typically use, depending upon availability, nitrate, manganese, ferric iron, sulfate and then carbon dioxide as terminal electron acceptors, in that order. Nitrate is an alternate electron acceptor for microbial respiration in the absence of oxygen. Nitrate can be reduced to nitrite. Both nitrate and nitrite were evaluated since the total of both nitrate and nitrate is a better indicator of total nitrate in the groundwater environment. Depleted levels of nitrate (relative to background) indicate that the groundwater environment is sufficiently reducing nitrate. No nitrate has been detected above the method detection limits within the injection zone at well MW-09S. Low levels of nitrate ranging from >1 mg/L to 7.8 mg/L have been detected outside the injection zone. Nitrite concentrations have generally been <10 ug/L. Although no background samples for nitrate/nitrite analysis have been completed during

this work, it may be assumed that the nitrate/nitrite concentrations reported at MW-10S represent background, since this well has reported the lowest contaminant concentrations.

An increase in soluble manganese was expected within the injection zone at well MW-09S. An increase in soluble manganese indicates that the groundwater environment is sufficiently reducing for dechlorination to occur; solid mineral form of manganese (IV) is being reduced to the soluble form of manganese (II). Manganese concentrations have increased by a factor of three at MW-09S indicating a change toward a reducing environment within the injection zone. Manganese levels at MW-02S are 2 to 3 orders of magnitude lower than at MW-09S.

Ferric iron is an alternate electron acceptor for microbial respiration in the absence of oxygen and nitrate. The reduction of ferric iron produces ferrous iron. Elevated levels of ferrous iron indicate that the groundwater environment is sufficiently reducing to sustain iron reduction and for anaerobic dechlorination to occur. The presence of ferrous iron greater than 1,000 ug/L is considered favorable for reducing conditions. Levels of ferrous iron are lowest at well MW-01, and highest within the injection zone at well MW-09S. Ferrous iron levels in the injection zone have increased from a pre-injection level of 1,106 ug/L to 21,600 ug/L post-injection, supporting that the environment within the injection zone is changing toward a reducing environment.

Sulfate/sulfur concentrations are similar across the study area, and are marginally elevated above the published levels (<20 mg/L) at which a substrate (any carbon source including the contaminant or the injected CAP 18®) is efficiently used in the anaerobic dechlorination process. There is a declining trend in sulfate/ sulfur concentrations suggesting that sulfate is being used as an alternate electron acceptor for microbial respiration. It should also be noted that sulfur odors and black sulfur-like staining on sample tubing has been observed at well MW-09S, post-injection; hydrogen sulfide is a by-product of sulfate reduction.

The TOC data collected is limited and indicates similar levels across the study area, except for a marked increase of TOC at well MW-09S, post-injection. Well MW-09S is located in the injection zone and an increase in TOC would be expected since CAP 18® is a carbon source. Based on field observations, CAP 18® at well MW-09S remains within

the injection zone two months after the injection.

Methane is produced during the reduction of carbon dioxide and is one indicator that fermentation is occurring. A methane concentration of 500 ug/L can be an indicator of favorable reducing conditions. Methane concentrations within and outside the injection zone have been <10 ug/L, with the exception of MW-02S. This data suggests that the other above noted alternative electron acceptors are available at levels to support reducing conditions, and these electron acceptors are being used more by the microbial communities than any available carbon dioxide within the system. A methane concentration of 1,900 ug/L was observed at well MW-02S prior to injection, but has decreased post-injection. Methane concentrations at MW-02S may be influenced by the nearby sewer lines.

BOD is an indirect measure of the concentration of biologically degradable material present in the groundwater. It was anticipated that areas affected by the injected CAP 18® would show an increase in BOD. There has been an increase in BOD at well MW-09S from a pre-injection level of <2 mg/L to a level as high as 77 mg/L, post-injection. BOD has remained similar over the monitoring period at the wells outside the injection zone.

6.3 Contaminant Concentrations

Contaminant concentrations post-injection have remained similar to historical concentrations at wells MW-01 and MW-10S (see Table 5 and 6). There is a declining trend in contaminant concentrations of tetrachloroethene and trichloroethene at MW-02S and MW-09S. There is no apparent trend, either increasing or declining, in the concentrations of vinyl chloride at these two wells. Contaminant concentrations and groundwater elevations for wells MW-02S and MW-09S are presented in chart form on Tables 7 and 8.

Although the concentrations of *cis*-1,2-dichloroethene have historically been higher than the tetrachloroethene, the relative difference has been within one order of magnitude. The concentration of *cis*-1,2-dichloroethene at MW-09S during the August 2015 sampling event was 9,500 ug/L with a tetrachloroethene concentration of 12.4 ug/L. This may indicate an exhaustion of tetrachloroethene concentrations within the injection

zone. Future sampling outlined in the Site Management Plan will provide additional data to evaluate this conclusion.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in Appendix E, and associated raw is provided electronically in Appendix F.

7.0 CONTAMINATION REMAINING AT THE SITE

7.1 Soil

Soils on the site were only impacted by volatile organic compounds, specifically the primary COCs, tetrachloroethene, trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride.

The concentrations of the COCs that remain in soils after completing the interim remedial action that exceed the SCOs for the Protection of Groundwater were located generally within or near the excavation area (see Appendix B, RAWP, Figure 1). All contaminant concentrations at the site are below the SCOs for Commercial Use.

7.2 Groundwater

Elevated concentrations of tetrachloroethene, trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride remain in groundwater at wells MW-01, MW-02S and MW-09S at concentrations exceeding their respective groundwater standards. Tables 5 though 8 provide historical and current contaminant concentrations observed in groundwater at the site.

7.3 Soil Vapor

Soil vapor has been found to be impacted by site-related contaminants. During the soil vapor evaluation in July 2013, maximum concentrations of tetrachloroethene, trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride in soil vapor at levels ranging from 90 to 110 ug/m^3. The areas of soil vapor contamination appear to be associated with areas of groundwater contamination.

Because the site is vacant, the inhalation of contaminants due to soil vapor intrusion does not represent a current concern. The potential exists for inhalation of site

contaminants due to soil vapor intrusion for any future on-site development, and will need to be evaluated at that time.

8.0 ENGINEERING CONTROLS

Since the site is currently vacant of buildings, the remedy for the site did not require the construction of any engineering control systems.

9.0 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) prevent future exposure to remaining contamination; and, (2) limit the use and development of the site to commercial and industrial uses only.

The environmental easement for the site was executed by the Department on October 9, 2015, and recorded with the Broome County Clerk on November 2, 2015 on Book 2476 of Deeds at Page 355. The County Recording Identifier number for this filing is 201500033405. A copy of the easement and proof of filing is provided in Appendix C.

10.0 REFERENCE

NYSDEC. 2010. *DER-10/Technical Guidance for Site Investigation and Remediation* dated May 2010 (DER-10).

NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1): *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. June 1998 (TOGS 1.1.1).

USEPA. 1998a. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater. Cincinnati, OH*; National Risk Management Research Laboratory. USEPA. EPA/600/R-98/128.

USGS. 2006. *Description, Properties, and Degradation of Selected Volatile Organic Compounds Detected in Groundwater-A Review of Selected Literature*. Open-File 2006-1338.

TABLE 1

GROUNDWATER ELEVATIONS

ASH ROAD PROPERTIES
BCP SITE C704032

WELLS	MW-01	MW-02S	MW-02D	MW-03	MW-04	MW-05	MW-07	MW-08	MW-09S	MW-09D	MW-10S	MW-10D
Top of Well Screen Elevation	826.1	824.7	803.3	826.5	826.0	826.3	828.8	826.5	827.7	809.8	826.5	808.5
Bottom of Well Casing Elevation	816.1	814.7	793.3	816.5	816.0	816.3	818.8	816.5	817.7	804.8	816.5	803.5
Reference Elevation(1)	832.52	831.14	831.29	831.00	831.54	831.94	831.46	831.25	832.66	832.81	831.53	831.45
DATE												
8-04-2008 through 8-12-2008	821.68	821.63		822.55	822.43	823.48	829.48	825.60				
10-13-2010	820.86	820.91		821.96	821.33	822.99	829.76	825.48				
5-7-2012 and 5-8-2012	821.80	821.79	822.09	822.80	821.81	823.34	829.30	825.23	824.18	822.63	824.72	822.95
8-3-2012	821.09	821.16	821.39	821.25					823.95	823.01	824.56	822.49
10-13-2012	820.95	821.00	821.38	821.05					823.44	822.90	824.08	822.22
7-16-2013	821.84	821.95	822.26	822.01					824.64	823.00	824.96	823.27
10-24-2013	822.00	822.01	821.99	822.82					824.48	823.51	824.67	822.85
3-11-2014	821.70	821.72	821.88	822.57					824.13	823.15	824.32	822.70
6-12-2014	822.16	822.13	821.82	823.31					824.81	823.61	824.24	822.67
6-01-2015	822.71	822.73							825.36		824.92	
7-06-2015	823.11	823.18							825.45		824.49	
8-05-2015	822.87	822.80							825.24		825.02	
9-03-2015	822.39	822.39							824.24		824.31	

(1) Reference elevation is top of PVC well casing

TABLE 2
FIELD PARAMETERS

ASH ROAD PROPERTIES
BCP SITE C704032

Location	Temperature C	Conductivity mS/cm	Dissolved Oxygen mg/L	pH	ORP
MW-01					
6/1/2015	11.44	2.086	0.9	6.62	178.6
6/12/2015	12.41	2.063	1.8	6.29	215.4
6/18/2015	12.70	2.218	1.84	5.90	230.7
6/25/2010	13.26	2.177	3.29	4.26	295.3
7/6/2015	13.82	2.164	2.92	5.72	319.1
8/5/2015	15.63	2.384	4.59	6.65	240.1
9/3/2015	16.67	2.258	3.59	7.25	123.8
MW-02S					
6/1/2015	10.31	2.653	0.69	7.14	285.4
6/12/2015	11.07	2.501	0.43	6.63	53.7
6/18/2015	12.38	2.913	1.75	6.61	159.8
6/25/2015	12.82	2.747	1.98	6.70	305.7
7/6/2015	13.98	2.298	0.87	6.21	281.9
8/5/2015	14.81	2.560	1.62	6.75	84.8
9/3/2015	15.56	2.191	0.73	6.80	4.2
MW-09S					
6/1/2015	12.54	3.022	2.30	7.46	250.6
6/12/2015	14.00	2.443	0.61	6.64	152.2
6/18/2015	14.24	2.981	1.74	6.66	178.9
6/25/2015	15.77	2.976	1.58	6.87	254.5
7/6/2015	16.22	2.476	0.95	6.37	175.8
8/5/2015	18.68	3.210	1.25	6.34	-13.4
9/3/2015	19.61	3.310	0.55	6.29	-56.7
MW-10S					
6/1/2015	13.26	3.022	0.97	7.37	255.5
6/12/2015	13.76	2.155	0.62	6.90	127.4
6/18/2015	14.19	1.929	1.62	6.83	186.4
6/25/2015	15.89	2.160	2.26	7.06	299.5
7/6/2015	16.22	2.110	2.15	6.52	291.2
8/5/2015	17.77	2.300	1.86	7.02	46.5
9/3/2015	18.93	1.904	1.14	7.19	118.6

TABLE 3
GROUNDWATER CHEMISTRY

ASH ROAD PROPERTIES
BCP SITE C704032

Location	CHLORIDE mg/L	SULFATE mg/L	SULFUR ug/L	BOD mg/L	NITRITE mg/L	NITRATE mg/L	METHANE ug/L	FERROUS IRON ug/L	TOC mg/L	Manganese ug/L	pH
MW-01											
6/1/2015	682	34.4		<2	<0.10	<1	2.3	88.9			6.4
7/6/2015	555	45.2		<6.0	<0.01	7.8	2.8	31.1			5.8
8/5/2015	548		18,300	6.0	<0.01	<1	<1.0	<100	2.8		6.7
MW-02S											
6/1/2015	769	15		7	<0.10	<1	1900	568.1	3.9	496	7.0
7/6/2015	581	24.2		<6.0	<0.01	1.8	15	67.9		6.7	6.2
8/5/2015	558		8300	6.0	<0.01	<1	290	400	4.0	503	6.7
MW-09S											
6/1/2015	942	43.7		<2	<0.10	<1	21	1106.5	3.7	10,400	7.4
7/6/2015	992	82.7		77.3	<0.01	<1	6.0	4,700		21,200	6.3
8/5/2015	893		2,680	58.6	<0.01	<1	7.2	21,600	214	29,300	6.3
MW-10S											
6/1/2015	995	30.8		<2	<0.10	<1	<1.0	79			7.1
7/6/2015	741	35.4		<6.0	<0.01	3.9	<1.0	355			6.5
8/5/2015	609		13,000	6.0	0.015	<1	<1.0	<100	3.0		7.0

TABLE 4

INJECTION POINT GRID DATA

ASH ROAD PROPERTIES
BCP SITE C704032

Injection Range (depth in feet) / Quantity Injected (pounds)														
	1	**2**	**3**	**4**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**10**
A	9-12/9	9-12/9	9-12/9	9-12/9	9-12/9									
B	9-12/9	9-12/9	9-12/9	9-12/9	9-12/9		9-12/9		9-12/9		9-12/9			
C	9-12/9	9-12/9	9-12/9	9-12/9	9-12/9		9-12/9		9-12/9		9-10.2/9		9-12/9	9-12/9
D	9-12/9	9-11.2/9	9-12/9	9-12/9	10-12/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
E	9-12/9	9-12/9	9-12/9	9-12/9	10-12/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
F		9-10.7/9	9-12/9	9-12/9	7.2/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
G		9-12/9	9-12/9	7.6/9	10-12/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
H		9-11/9	9-12/9	9-12/9	10-12/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
I		9-11/9	9-12/9	9-12/9	10-12/6		10-12/6		10-12/6		10-12/6		9-12/9	9-12/9
J			9-11/9	9-12/9	10-12/9	9-12/12	10-12/9	9-12/12	10-12/9	9-12/12	10-12/9	9-12/12	9-12/9	9-12/9
K							9-12/20		9-12/20		9-12/20		9-12/20	

Reference: Figure 3

TABLE 5

POST-INJECTION CONTAMINANT CONCENTRATION SUMMARY

ASH ROAD PROPERTIES
BCP SITE C704032

CONTAMINANT		Tetrachlorothene ug/L	Trichloroethene ug/L	cis-1,2-Dichloroethene ug/L	Vinyl Chloride ug/L
NYS Standard[(1)]		5 ug/L	5 ug/L	5 ug/L	2 ug/L
LOCATION	**DATE**				
MW-01	6-1-2015[(2)]	9.3	23	270	1.9
	7-6-2015	18.7	6.8	135	<1.0
	8-5-2015	12.7	57	92.3	<1.0
MW-02S	6-1-2015	3000	370	490	46
	7-6-2015	6.4	<1.0	<1.0	<1.0
	8-5-2015	372	87.0	130	14.5
MW-09S	6-1-2015	2300	290	1100	90
	7-6-2015	95	34.3	692	19.1
	8-5-2015	12.4	5.0	9500	123
MW-10S	6-1-2015	4.5	<1.0	<1.0	<1.0
	7-6-2015	1.8	<1.0	<1.0	<1.0
	8-5-2015	3.7	<1.0	<1.0	<1.0

(1) NYS Standard – NYS Water Quality Standard and Guidance Value; GA – Source of Drinking Water; 1998 with April 2000 Addendum
(2) Sample collected prior to injection event

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01
Sample Location	**Standard**	**8/13/2008**	**1/14/2009**	**10/13/2010**	**5/7/2012**	**8/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**	**6/1/2015**	**7/6/2015**	**8/5/2015**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter													
Volatile Target Compound List (TCL)													
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---			100 U	100 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	---			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloromethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2			5 U	5 U	5 U	1.0 UJ	1.12	1.0 U	1.0 U	1.9	1.0 UJ	1.0 U
Bromomethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Chloroethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50			10 U	10 U	10 U	5.0 UJ	5.0 U	27.0	10 U	1.0 UJ	10.0 U	10.0 U
1,1-Dichloroethene	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	60			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.6
1,1-Dichloroethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50			10 U	10 U	10 U	1.0 UJ	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	5	5 J	5.8	3.0 J	44	62	24.8J	24.2	1.0 U	27.5	270	135	92.3
Chloroform	7			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5			5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	7.5	5.8	5.0 J	5.8	7.7	6.94	5.07	1.0 U	1.8	23	6.8	5.7
1,2-Dichloropropane	1			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---			10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,3-Dichloropropene	0.4			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50			10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
Tetrachloroethene	5	20	15	18	17 J	19	19.9	16.9	5.08	12.0	9.3	18.7	12.7
Dibromochloromethane	50			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
o-Xylene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5			5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Value for GA - Source of Drinking Water (groundwater); 1998 with April 2000 Addendum

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in the DUSRs

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S	MW-02S
Sample Location	**Standard**	**8/13/2008**	**1/14/2009**	**10/13/2010**	**5/7/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**	**6/1/2015**	**7/6/2015**	**8/5/2015**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter														
Volatile Target Compound List (TCL)														
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4			250 U	5 U	500 U	500 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---			5000 U	100 U	10000 U	10000 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	---			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5			250 U	5 U	500 U	500 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---			250 U	5 U	500 U	500 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloromethane	5			250 U	5 U	500 U	500 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	400	160 J	90 JD	5 U	690 D	200 JD	1.0 U	1.20	1.0 U	1.0 U	46	1.0 U	14.5
Bromomethane	5			250 U	5 U	500 U	500 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Chloroethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50			500 U	10 U	1000 U	1000 U	5.0 UJ	5.0 U	10 U	10 U	10 UJ	10.0 U	10.0 U
1,1-Dichloroethene	5	13	500 U	250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U	1.0 U
Carbon disulfide	60			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5			250 U	5 U	500 U	500 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U
1,1-Dichloroethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50			500 U	10 U	1000 U	1000 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	5	4500	2400	1300 D	5 U	11000 D	3000 D	1.75	3.14	1.0 U	1.60	490	1.0 UJ	130
Chloroform	7			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	3700	1600	1200 D	5 U	7100 D	2400 D	3.72	1.0 U	1.0 U	1.52	370	1.0 U	87.0
1,2-Dichloropropane	1			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---			500 U	10 U	1000 U	1000 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,3-Dichloropropene	0.4			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1			250 U	5 U	500 U	410 JD	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50			500 U	10 U	1000 U	1000 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
Tetrachloroethene	5	3100	8400	4800 D	5 UJ	42000 D	12000 D	15.6	1.01	1.0 U	5.56	3000	6.4	372
Dibromochloromethane	50			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
o-Xylene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5			250 U	5 U	500 U	500 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-02D	MW-03	MW-03	MW-04	MW-04	MW-05	MW-05
Sample Location	**Standard**	**5/7/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**	**10/13/2010**	**5/7/2012**	**10/13/2010**	**5/7/2012**	**10/13/2010**	**5/7/2012**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter														
Volatile Target Compound List (TCL)														
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	4	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromomethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	4.7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3,5-trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	---	100 U	100 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	100 U	100 U	100 U	100 U	100 U	100 U
Bromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Freon-113	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl acetate	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
methyl tert-butyl ether	10	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
n-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
n-Propylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
sec-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
tert-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	10 U	10 U	10 U	5.0 UJ	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	60	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	5 U	5 U	5 U	1.0 U	5.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5	5.9	6.1	5.9	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	2 J	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	6.5	2.0 J	2.6J	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	---	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	55J	3.7 J	4.4 J	1.0 U	1.0 U	1.0 U	1.0 U	2 J	5 UJ	5 U	5 UJ	2 J	2 J
Dibromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	68
Ethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
m,p-Xylenes	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U	5 U	5 U	5 U	5 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-07	MW-07	MW-08	MW-08	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S	MW-09S
Sample Location	**Standard**	**10/13/2010**	**5/7/2012**	**10/13/2010**	**5/7/2012**	**5/8/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/1014**	**6/1/2015**	**7/6/2015**	**8/5/2015**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter															
Volatile Target Compound List (TCL)															
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 UJ	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---	100 U	100 U	100 U	100 U	50000 U	10000 U	5000 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	---	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 UJ	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	3.66	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloromethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 UJ	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	5 U	5 U	5 U	5 U	2900 D	1000 D	370 D	593 D	915 D	1.0 U	59.5	90	19.1	123.0
Bromomethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 UJ	50.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Chloroethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 UJ	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50	10 U	10 U	10 U	10 U	5000 U	1000 U	500 U	5.0 UJ	250 U	10 U	10 U	35J	72.4	10.0 U
1,1-Dichloroethene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	6.70	50.0 U	1.0 U	2.5	2.1	1.0 UJ	2.4
Carbon disulfide	60	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	250 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	21.1	50.0 U	1.0 U	7.82	4.7	7.2	49.7
1,1-Dichloroethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	5000 U	1000 U	500 U	1.0 U	50.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 UJ
cis-1,2-Dichloroethene	5	5 U	5 U	5 U	5 U	15000 D	6500 D	4900 D	3480 D	4160 D	4.57	1310	1100	692	9500
Chloroform	7	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	5 U	5 UJ	5 U	5 UJ	2500 U	500 U	250 U	1.38	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	5 U	5 U	5 U	5 U	1500 JD	490 JD	370 D	486 D	798 D	1.0 U	342	290	34	5.0
1,2-Dichloropropane	1	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---	10 U	10 U	10 U	10 U	5000 U	1000 U	500 U	1.0 U	50.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.26	50.0 U	1.0 U	1.27	1.27	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50	10 U	10 U	10 U	10 U	5000 U	1000 U	500 U	1.0 U	50.0 U	5.0 U	5.0 U	5.0 U	10.0 U	27.1J
Tetrachloroethene	5	5 U	5 UJ	5 U	5 UJ	2200 JD	660 D	430 D	901 D	1090 D	2.49	2010	2300	95.0	12.4
Dibromochloromethane	50	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
o-Xylene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	2500 U	500 U	250 U	1.0 U	50.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-09D	MW-09D	MW-09D	MW-09D	MW-09D	MW-09D	MW-09D
Sample Location	**Standard**	**5/8/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter								
Volatile Target Compound List (TCL)								
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---	100 U	100 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Freon-113	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	14	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Acetone	50	10 U	10 U	10 U	5.0 UJ	5.0 U	10 U	10 U
1,1-Dichloroethene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	60	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5 U	5 U	5 U	1.0 U	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	27	5 U	8.3	2.63	1.46	1.0 U	1.44
Chloroform	7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	2.4 J	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U
Tetrachloroethene	5	4.9 J	2.2 J	5 U	1.0 U	1.0 U	1.0 U	2.17
Dibromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit

This summary table includes the data qualifiers identified in

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S
Sample Location	**Standard**	**5/8/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**	**6/1/2015**	**7/6/2015**	**8/5/2015**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter											
Volatile Target Compound List (TCL)											
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---	100 U	100 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	---	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Freon-113	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Chloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	50	10 U	10 U	10 U	5.0 UJ	5.0 U	10 U	10 U	10 UJ	10.0 U	10.0 U
1,1-Dichloroethene	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	60	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	5	5 U	5 U	5 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	1.0 UJ	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	5	5 U	1.6 J	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	7	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	5 U	1.9 J	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.1J	1.0 UJ
Carbon tetrachloride	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5 U	1.5 J	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U
Tetrachloroethene	5	5 UJ	5.6	5 U	1.0 U	1.0 U	1.0 U	1.1	4.5	1.8	3.7
Dibromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
o-Xylene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in

TABLE 6

GROUNDWATER DATA SUMMARY

2010 through 2015

ASH ROAD PROPERTIES
BCP #C704032

	*NYS	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D	MW-10D
Sample Location	**Standard**	**5/8/2012**	**8/3/2012**	**10/3/2012**	**7/16/2013**	**10/24/2013**	**3/11/2014**	**6/12/2014**
	Water	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Parameter								
Volatile Target Compound List (TCL)								
Unit	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2,3-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromomethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	4.7	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-trimethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	---	100 U	100 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	50	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane	---	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Freon-113	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
methyl tert-butyl ether	10	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylcyclohexane	---	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Acetone	50	10 U	10 U	10 U	5.0 UJ	5.0 U	10 U	10 U
1,1-Dichloroethene	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide	60	5 U	5 U	5 U	1.0 UJ	1.02	1.0 U	1.72
Methylene chloride	5	5 U	5 U	5 U	1.0 UJ	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	1.0 UJ	1.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	5 U	2.7 J	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	5 U	2.5 J	3.5 J	2.17J	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	5 U	5 U	5 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Benzene	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	5 U	2.3 J	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	---	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	50	10 U	10 U	10 U	1.0 U	1.0 U	5.0 U	5.0 U
Tetrachloroethene	5	5 UJ	5.9	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
m,p-Xylenes	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U

* NYS Standards Source:
New York State Water Quality Standards and Guidance Val

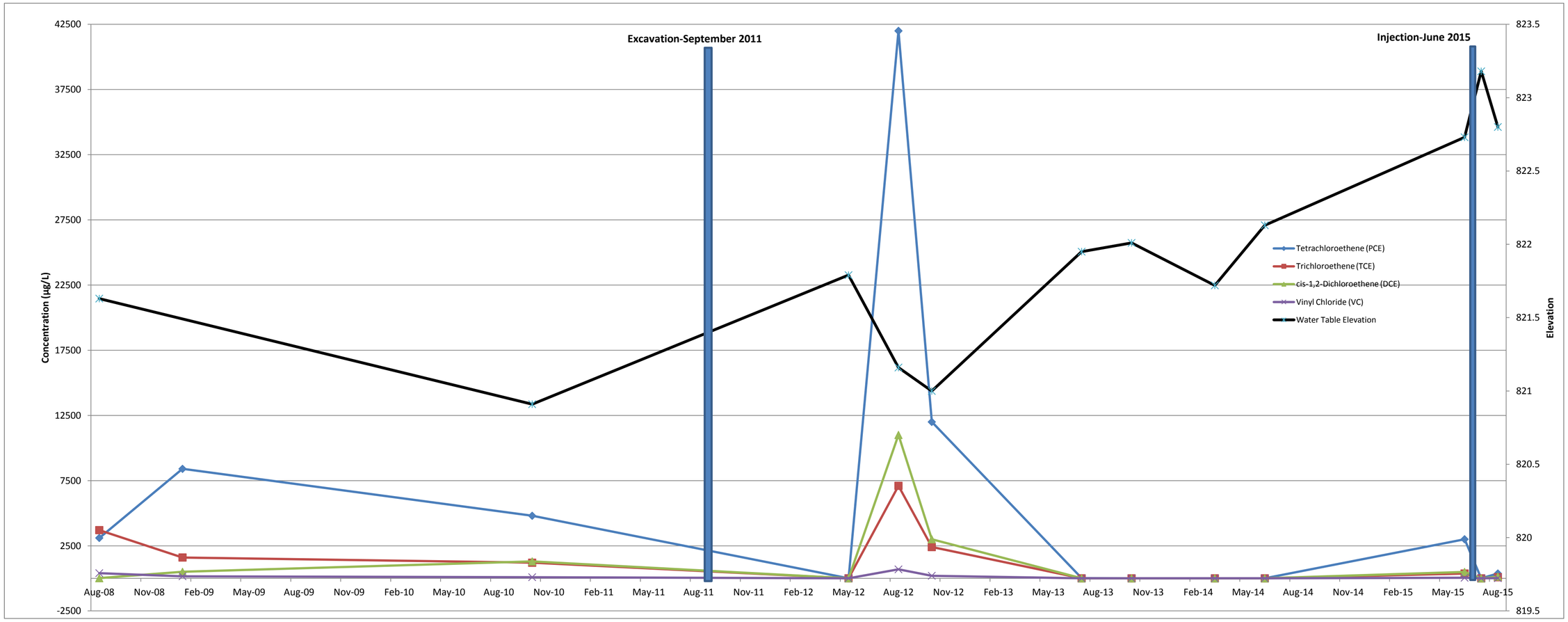
Notes:
Highlighed value exceed Standards

U - Not detected at the Practical Quantitation Limits
(---) Compound not listed in Standard
J - Detected below the Practical Quantitation Limit
This summary table includes the data qualifiers identified in

MW-02S	Aug-08	Jan-09	Oct-10	May-12	Aug-12	Oct-12	Jul-13	Oct-13	Mar-14	Jun-14	Jun-15	Jul-15	Aug-15
Tetrachloroethene (PCE)	3100	8400	4800	5	42000	12000	16	1	1	6	3000	6	372
Trichloroethene (TCE)	3700	1600	1200	5	7100	2400	3	1	2	2	370	1	87
cis-1,2-Dichloroethene (DCE)	13	500	1300	5	11000	3000	2	3	2	2	490	1	130
Vinyl Chloride (VC)	400	160	90	5	690	200	1	1	1	1	46	1	14.5
Water Table Elevation	821.63		820.91	821.79	821.16	821	821.95	822.01	821.72	822.13	822.73	823.18	822.8

Monitoring Well MW-02S
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATIONS
Ash Road Properties
BCP Site C704032

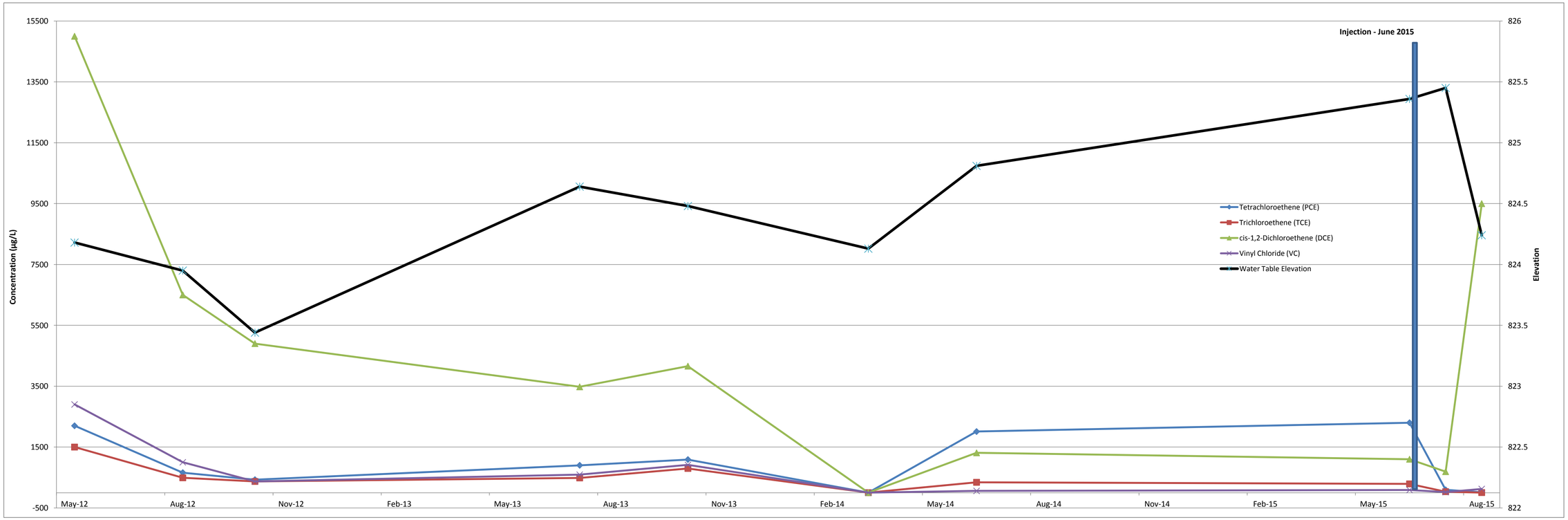
Table 7

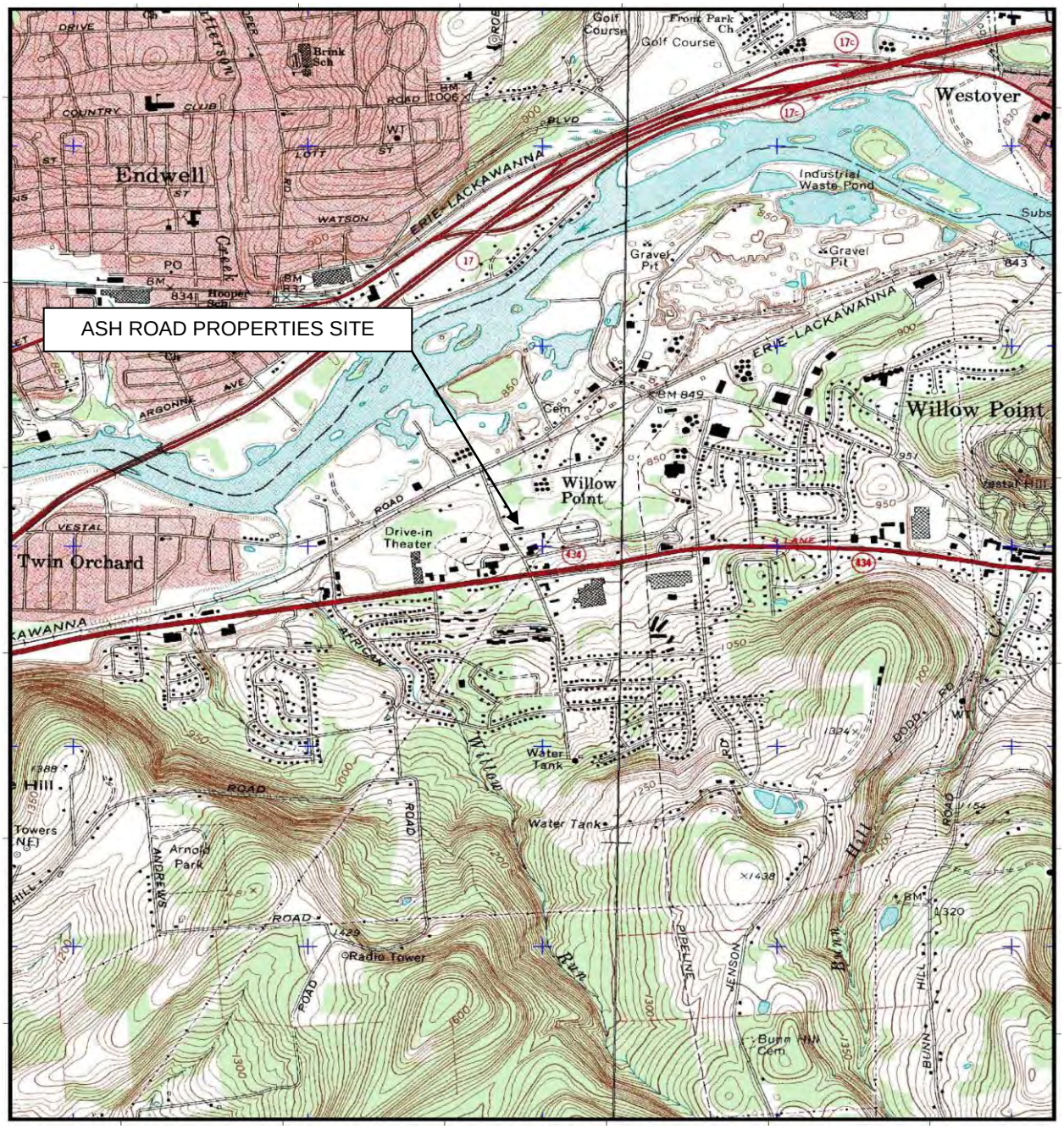


MW-09S	May-12	Aug-12	Oct-12	Jul-13	Oct-13	Mar-14	Jun-14	Jun-15	Jul-15	Aug-15
Tetrachloroethene (PCE)	2200	660	430	901	1090	2	2010	2300	95	12.4
Trichloroethene (TCE)	1500	490	370	486	798	1	342	290	34.3	5
cis-1,2-Dichloroethene (DCE)	15000	6500	4900	3480	4160	4.57	1310	1100	692	9500
Vinyl Chloride (VC)	2900	1000	370	593	915	1	60	90	19.1	123
Water Table Elevation	824.18	823.95	823.44	824.64	824.48	824.13	824.81	825.36	825.45	824.24

Monitoring Well MW-09S
CONTAMINANT CONCENTRATIONS AND GROUNDWATER ELEVATIONS
Ash Road Properties
BCP Site C704032

Table 8





Reference: Base Map USGS 7.5 MIN. Quad. Endicott, NY, 1976
Approximate Scale: 1" = 2000'

N

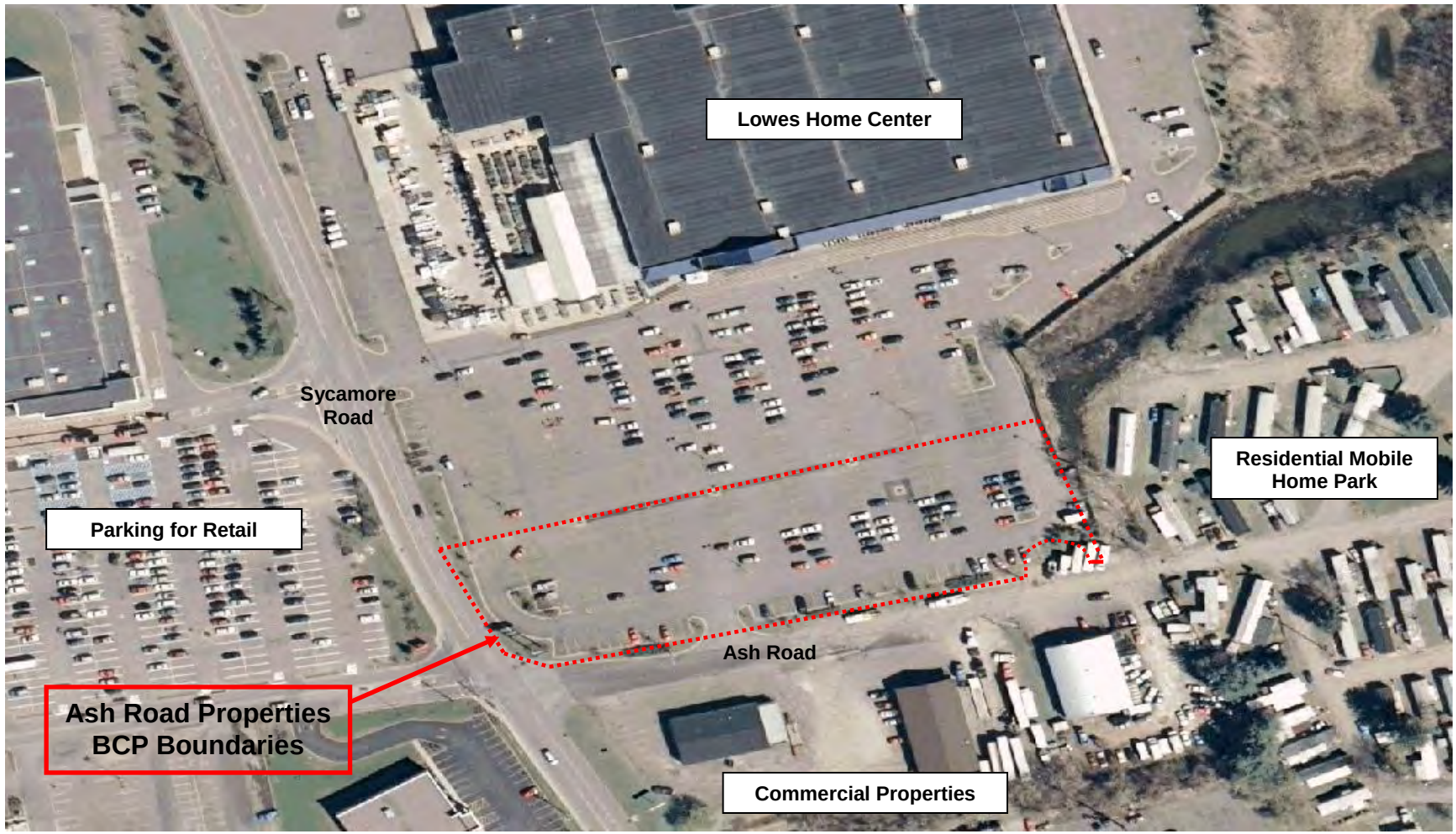
Project North

GeoLogic

GeoLogic NY, Inc.

SITE LOCATION PLAN
ASH ROAD PROPERTIES
TOWN OF VESTAL, NEW YORK
BCP Site #C704032

DRAWN BY:	SCALE:	PROJECT NO:
sc	As Noted	209183
REVIEWED BY:	DATE:	FIGURE NO:
fce	July 2015	1



N

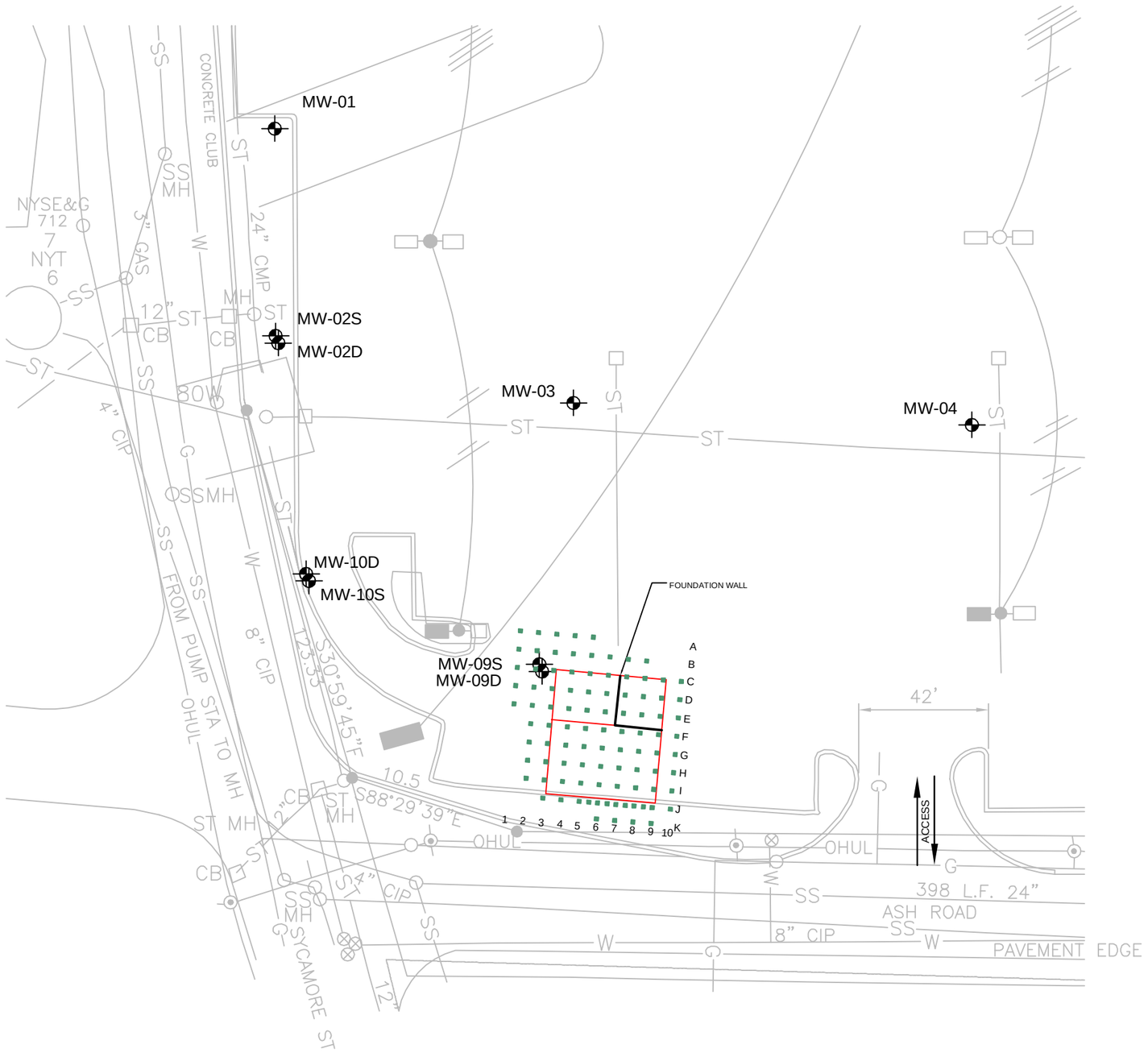
Project North

GeoLogic

GeoLogic NY, Inc.

SITE LAYOUT MAP
ASH ROAD PROPERTEIS
TOWN OF VESTAL, NEW YORK
BCP Site #C704032

DRAWN BY:	SCALE:	PROJECT NO:
SC	Not To Scale	209183
REVIEWED BY:	DATE:	FIGURE NO:
FCE	July 2015	2



LEGEND

- DECORATIVE WOOD FENCE
- CHAIN LINK FENCE
- GUIDE RAIL
- SANITARY SEWER (SS)
- STORM SEWER (ST)
- WATER LINE (W)
- OVERHEAD UTILITY LINES (OHUL)
- UNDERGROUND ELECTRIC (UE)
- UNDERGROUND TELEPHONE (UT)
- GAS LINE (G)
- UNDERGROUND SITE ELECTRIC
- FIRE HYDRANT
- MANHOLE
- CATCH BASIN
- LIGHT POLE
- UTILITY POLE
- CONCRETE SLAB OR SIDEWALK
- CONCRETE CURB
- TITLE LINES
- OUTSIDE PROPERTY BOUNDARY
- CAPPED 5/8"REBAR SET

N

- MONITORING WELL LOCATION
- INJECTION LOCATION
- LIMITS OF EXCAVATION

NOTE: THIS DRAWING BASED ON BOUNDARY, BUILDING & UTILITIES LOCATION SURVEY BY WHISTLE, PREPARED BY GARY W. WHISTLE, DATED 11-15-06.

THIS MAP DOES NOT CONSTITUTE A SURVEY AND IS INTENDED TO CONVEY APPROXIMATE SAMPLE LOCATIONS AND SITE FEATURES.

APPROXIMATE SCALE:

0' 10' 40' 80'

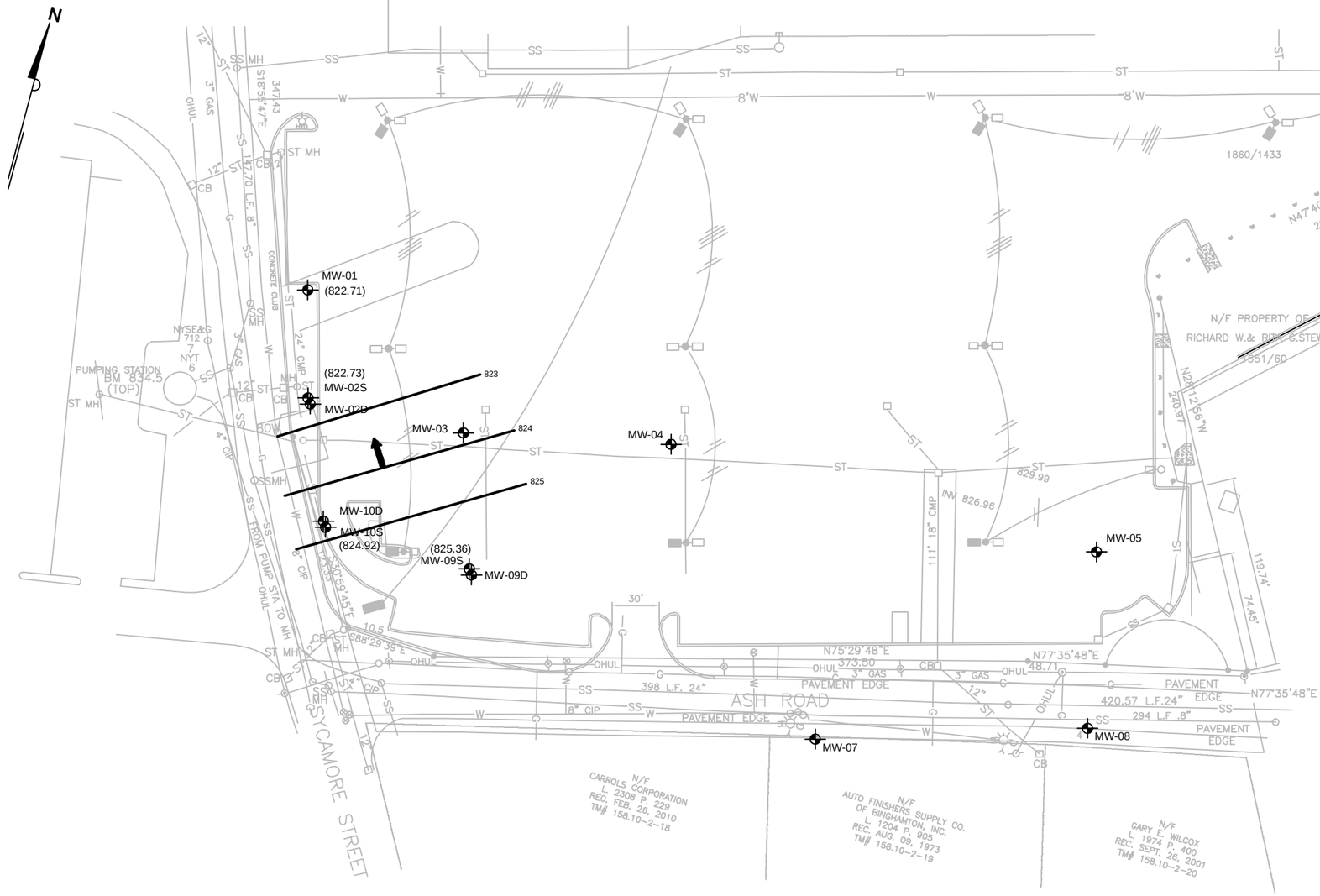
GeoLogic

GeoLogic NY, Inc., Homer, New York

INJECTION LOCATION PLAN
ASH ROAD PROPERTIES
TOWN OF VESTAL, NEW YORK
BCP SITE #C704032

DRAWN BY:	SCALE:	PROJECT NO.:
SMC/SDW	AS SHOWN	209183
REVIEWED BY:	DATE: AUG. 2015	FIGURE NO.: 3

\..\209183\TECH\DRAWING\INJECTION LOCATIONS 08-14-15.DWG



Key

DECORATIVE WOOD FENCE	
CHAIN LINK FENCE	
GUIDE RAIL	
SANITARY SEWER	SS
STORM SEWER	ST
WATER LINE	W
OVERHEAD UTILITY LINES	OHUL
UNDERGROUND ELECTRIC	UE
UNDERGROUND TELEPHONE	UT
GAS LINE	G
UNDERGROUND SITE ELECTRIC	
FIRE HYDRANT	
MANHOLE	
CATCH BASIN	
LIGHT POLE	
UTILITY POLE	
CONCRETE SLAB OR SIDEWALK	
CONCRETE CURB	
TITLE LINES	
OUTSIDE PROPERTY BOUNDARY	
NUMBER OF PARKING SPACES	(33)
CAPPED 5/8"REBAR SET	
LIBER AND PAGE OF RECORD	1864/872

LEGEND

- MONITORING WELL LOCATION
- (822.80) GROUNDWATER ELEVATION (FT.) FOR 06/01/2015
- 822 GROUNDWATER ELEVATION CONTOUR FOR 06/01/2015
- DIRECTION OF GROUNDWATER FLOW

APPROXIMATE SCALE:

0' 10' 80' 160'

NOTE: THIS DRAWING BASED ON BOUNDARY, BUILDING & UTILITIES LOCATION SURVEY BY WHISTLE, PREPARED BY GARY W. WHISTLE, DATED 11-15-06.

THIS MAP DOES NOT CONSTITUTE A SURVEY AND IS INTENDED TO CONVEY APPROXIMATE SAMPLE LOCATIONS AND SITE FEATURES.

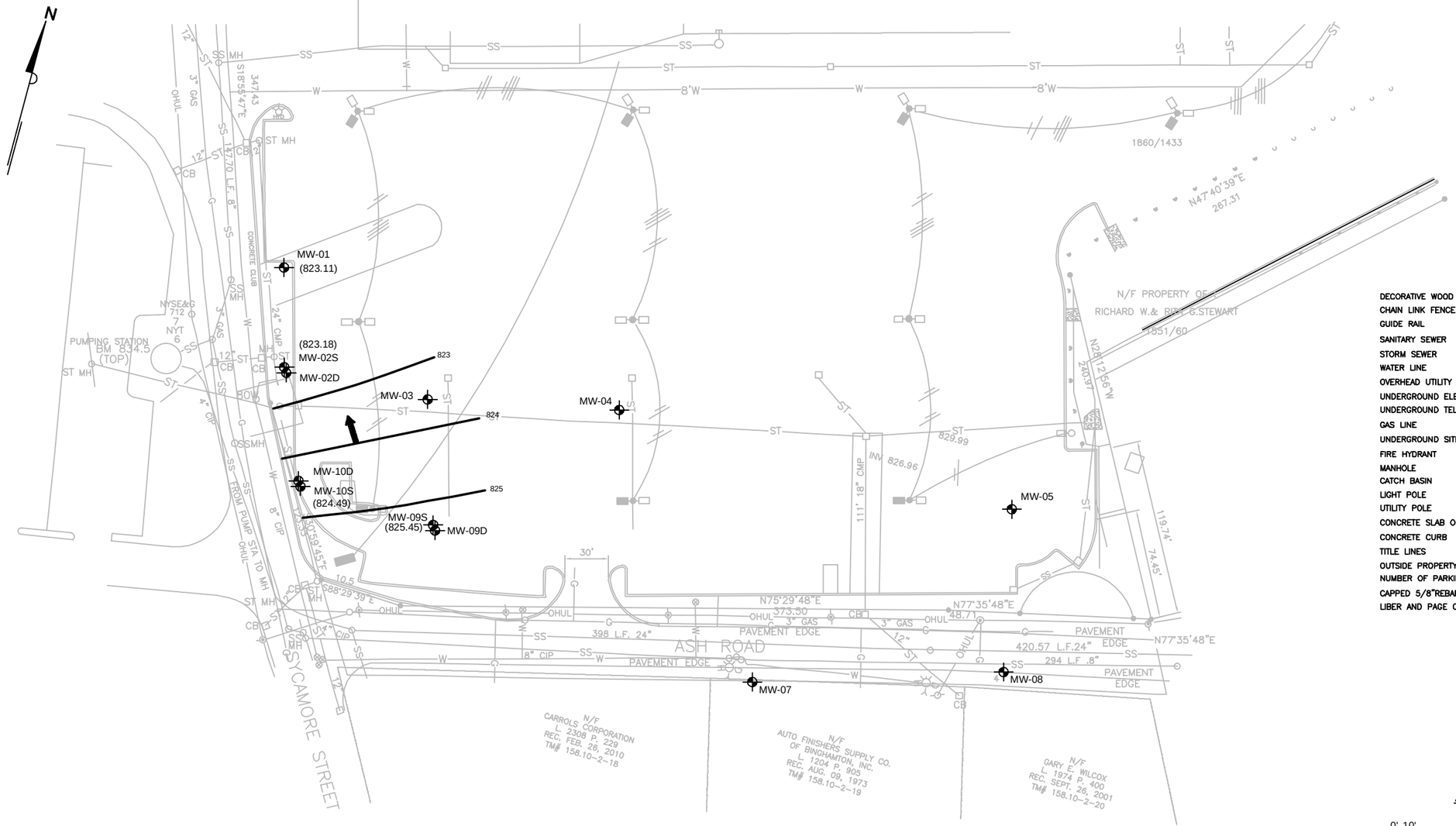
\..\209183\TECH\DRAWING\WATER TABLE MAP 06-01-15.DWG

GeoLogic

GeoLogic NY, Inc., Homer, New York

GROUNDWATER TABLE MAP FOR 06/01/2015
ASH ROAD PROPERTIES
TOWN OF VESTAL, NEW YORK
BCP SITE #C704032

DRAWN BY:	SCALE:	PROJECT NO.:
SMC/SDW	AS SHOWN	209183
REVIEWED BY:	DATE:	DRAWING NO.:
	JULY 2015	4



Key

DECORATIVE WOOD FENCE	
CHAIN LINK FENCE	
GUIDE RAIL	
SANITARY SEWER	SS
STORM SEWER	ST
WATER LINE	W
OVERHEAD UTILITY LINES	OHUL
UNDERGROUND ELECTRIC	UE
UNDERGROUND TELEPHONE	UT
GAS LINE	G
UNDERGROUND SITE ELECTRIC	
FIRE HYDRANT	
MANHOLE	
CATCH BASIN	
LIGHT POLE	
UTILITY POLE	
CONCRETE SLAB OR SIDEWALK	
CONCRETE CURB	
TITLE LINES	
OUTSIDE PROPERTY BOUNDARY	
NUMBER OF PARKING SPACES	(33)
CAPPED 5/8"REBAR SET	
LIBER AND PAGE OF RECORD	1864/872

LEGEND

- MONITORING WELL LOCATION
- (822.80) GROUNDWATER ELEVATION (FT.) FOR 07/06/2015
- 822 GROUNDWATER ELEVATION CONTOUR FOR 07/06/2015
- DIRECTION OF GROUNDWATER FLOW

NOTE: THIS DRAWING BASED ON BOUNDARY, BUILDING & UTILITIES LOCATION SURVEY BY WHISTLE, PREPARED BY GARY W. WHISTLE, DATED 11-15-06.

THIS MAP DOES NOT CONSTITUTE A SURVEY AND IS INTENDED TO CONVEY APPROXIMATE SAMPLE LOCATIONS AND SITE FEATURES.

APPROXIMATE SCALE:

0' 10' 80' 160'

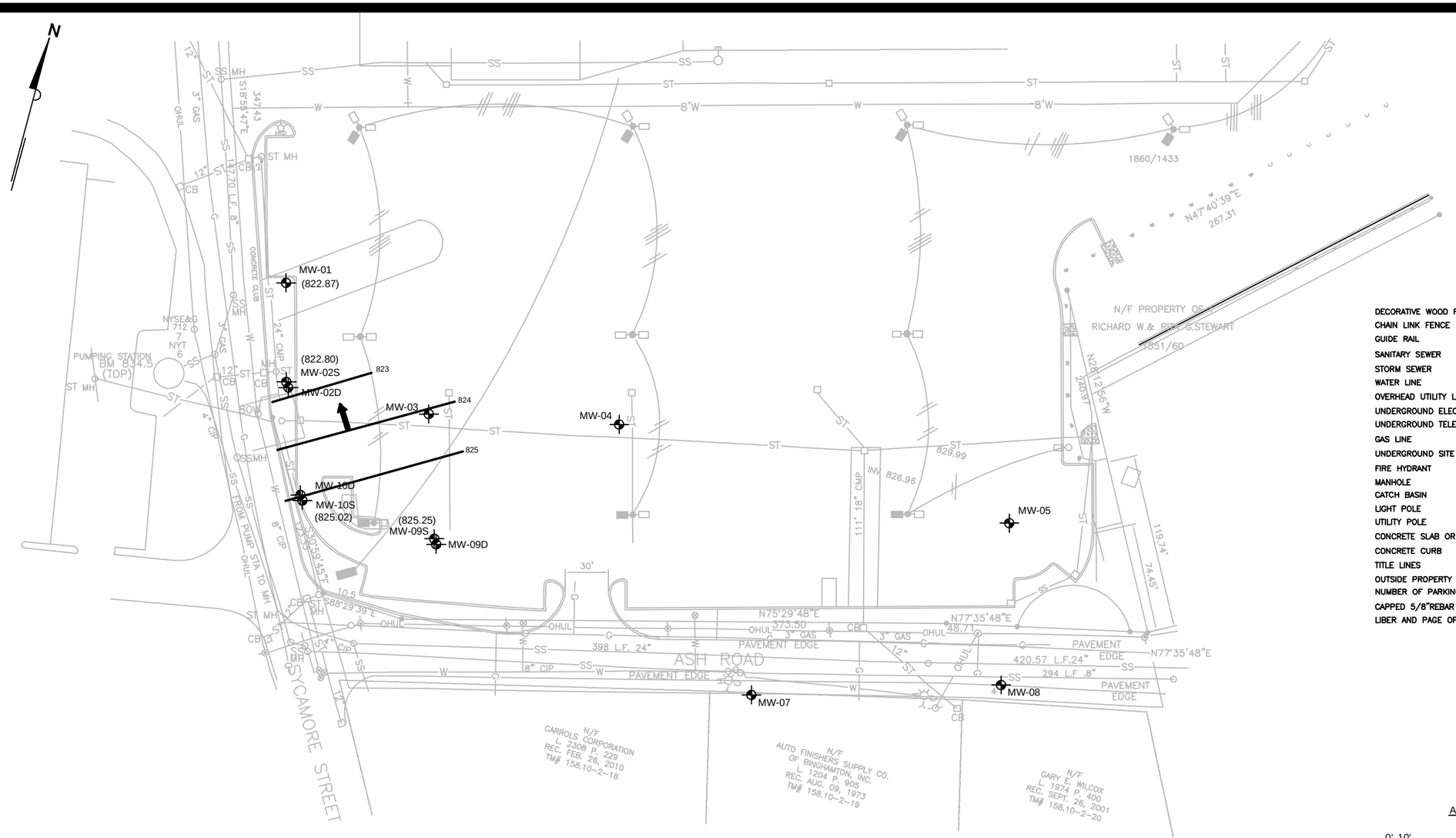
\..\209183\TECH\DRAWING\WATER TABLE MAP 07-06-15.DWG

GeoLogic

GeoLogic NY, Inc., Homer, New York

GROUNDWATER TABLE MAP FOR 07/06/2015
ASH ROAD PROPERTIES
TOWN OF VESTAL, NEW YORK
BCP SITE #C704032

DRAWN BY:	SCALE:	PROJECT NO.:
SMC/SDW	AS SHOWN	209183
REVIEWED BY:	DATE:	DRAWING NO.:
	JULY 2015	5



Key

- DECORATIVE WOOD FENCE
- CHAIN LINK FENCE
- GUIDE RAIL
- SANITARY SEWER — SS
- STORM SEWER — ST
- WATER LINE — W
- OVERHEAD UTILITY LINES — OHUL
- UNDERGROUND ELECTRIC — UE
- UNDERGROUND TELEPHONE — UT
- GAS LINE — G
- UNDERGROUND SITE ELECTRIC
- FIRE HYDRANT
- MANHOLE
- CATCH BASIN
- LIGHT POLE
- UTILITY POLE
- CONCRETE SLAB OR SIDEWALK
- CONCRETE CURB
- TITLE LINES
- OUTSIDE PROPERTY BOUNDARY
- NUMBER OF PARKING SPACES — (33)
- CAPPED 5/8"REBAR SET
- LIBER AND PAGE OF RECORD — 1864/872

LEGEND

- MONITORING WELL LOCATION
- (822.80) GROUNDWATER ELEVATION (FT.) FOR 08/05/2015
- 822 GROUNDWATER ELEVATION CONTOUR FOR 08/05/2015
- DIRECTION OF GROUNDWATER FLOW

APPROXIMATE SCALE:

0' 10' 80' 160'

NOTE: THIS DRAWING BASED ON BOUNDARY, BUILDING & UTILITIES LOCATION SURVEY BY WHISTLE, PREPARED BY GARY W. WHISTLE, DATED 11-15-06.

THIS MAP DOES NOT CONSTITUTE A SURVEY AND IS INTENDED TO CONVEY APPROXIMATE SAMPLE LOCATIONS AND SITE FEATURES.

\..\209183\TECH\DRAWING\WATER TABLE MAP 08-05-15.DWG

GeoLogic

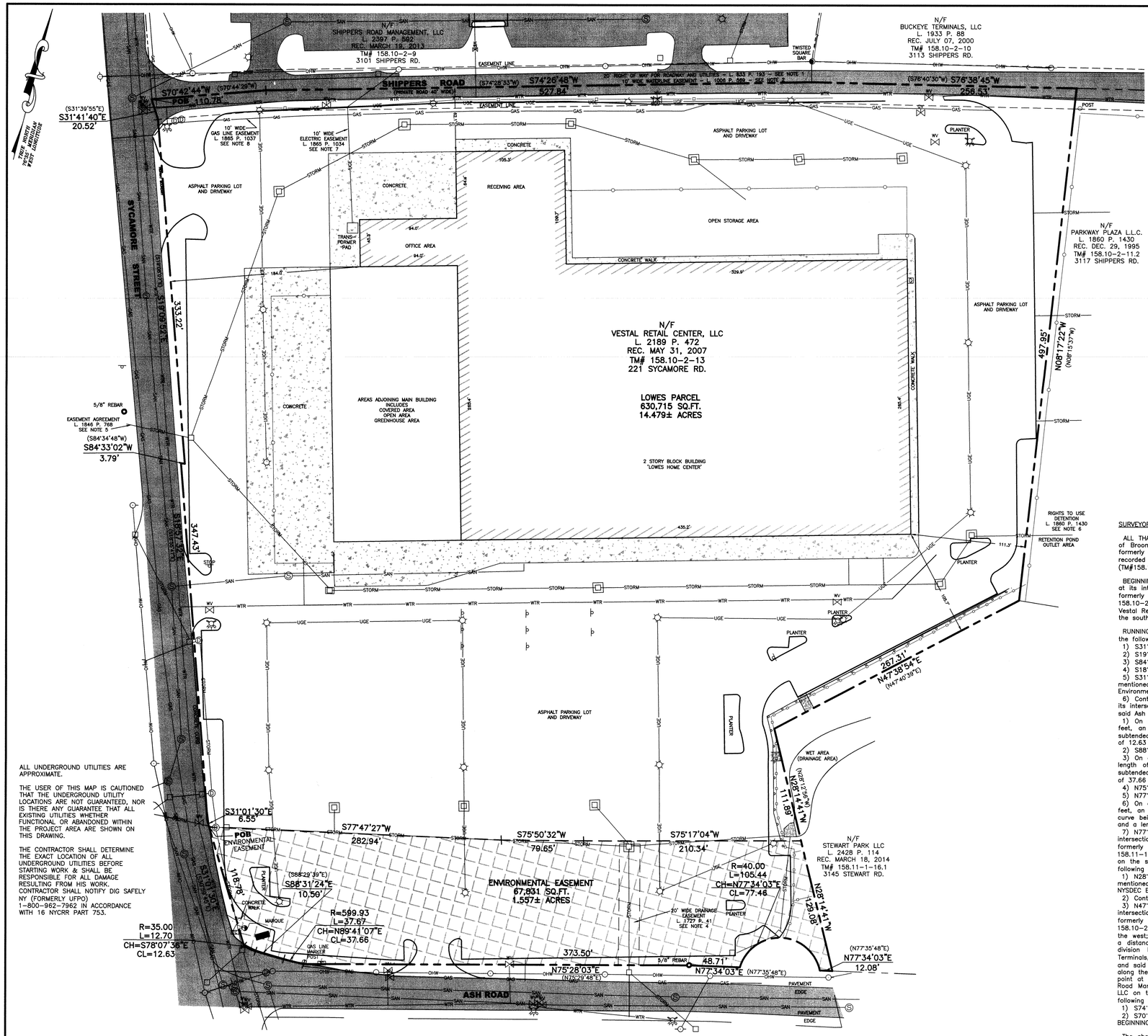
GeoLogic NY, Inc., Homer, New York

GROUNDWATER TABLE MAP FOR 08/05/2015
ASH ROAD PROPERTIES
TOWN OF VESTAL, NEW YORK
BCP SITE #C704032

DRAWN BY:	SCALE:	PROJECT NO.:
SMC/SDW	AS SHOWN	209183
REVIEWED BY:	DATE:	DRAWING NO.:
	AUG. 2015	6

APPENDIX A

Survey Map, Metes and Bounds



GRAPHIC SCALE

12 8 0 8 12 24

(IN METERS)
1 centimeter = 6 meters

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in more detail in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at www.derweb@dec.ny.gov.

NOTES

1. PREMISES SOURCE OF TITLE BEING L. 2189 P. 472, RECORDED IN THE BROOME COUNTY CLERK'S OFFICE MAY 31, 2007.
2. SUBJECT TO ANY AND ALL EASEMENTS OF RECORD AND/OR AS FOUND IN THE FIELD.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE TO THE PROPERTY OR A TITLE REPORT.
4. BEARING SHIFT IS DIFFERENT FROM "WHISTLE DESIGN" SURVEY. KEYSTONE ASSOCIATES USED A TRUE NORTH FROM GPS.
5. IN SEVERAL AREAS THERE WERE SNOW PILES UP TO 2 FEET.
6. ALL CURB ON-SITE IS CONCRETE CURB.

EASEMENTS AS RECORDED IN THE BROOME COUNTY CLERK'S OFFICE

1. 20' RIGHT OF WAY FOR ROADWAY & UTILITIES IN L. 833 P. 193 ON JUNE 13, 1953. NOTED.
2. 10' WATERLINE EASEMENT GRANTED TO THE TOWN OF VESTAL IN L. 1006 P. 569 ON AUGUST 7, 1959. NOTED.
3. EASEMENT GRANTED TO NEW YORK STATE ELECTRIC & GAS CORPORATION IN L. 1150 P. 609 ON AUGUST 12, 1969. NOT PLOTTABLE.
4. RIGHT OF WAY AND EASEMENT GRANTED TO THE TOWN OF VESTAL IN L. 1727 P. 41 ON OCTOBER 17, 1988. PLOTTED.
5. EASEMENT AGREEMENT IN L. 1846 P. 768 ON DECEMBER 19, 1994. NOTED.
6. RIGHT TO USE DETENTION IN L. 1860 P. 1430 ON DECEMBER 29, 1995. NOTED.
7. EASEMENT GRANTED TO NEW YORK STATE ELECTRIC & GAS CORPORATION IN L. 1865 P. 1034 ON MAY 31, 1996. NOTED.
8. EASEMENT GRANTED TO NEW YORK STATE ELECTRIC & GAS CORPORATION IN L. 1865 P. 1037 ON MAY 31, 1996. NOTED.

REFERENCE DATA

1. MAP ENTITLED "BOUNDARY, BUILDING AND UTILITIES LOCATION SURVEY, SHIPPERS HOLDING CORP, 225 SYCAMORE ROAD, TOWN OF VESTAL, COUNTY OF BROOME, STATE OF NEW YORK" PREPARED BY WHISTLE DESIGN AS FILE NAME LOWES.DGN ON JUNE 21, 2006 AND REVISED NOVEMBER 15, 2006.

LEGEND

- MONUMENT FOUND AS NOTED
- N/F NOW OR FORMERLY
- TM# TAX MAP NUMBER
- PROPERTY LINE
- SIGN
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- LIGHT POLE
- GUY WIRE
- OHW OVERHEAD UTILITIES
- GV GAS VALVE
- GAS METER
- GAS GAS LINE
- SANITARY SEWER MANHOLE
- SEW SANITARY SEWER LINE
- HYDRANT
- WV WATER VALVE
- WTR WATER LINE
- DRAINAGE MANHOLE
- CATCH BASIN
- CATCH BASIN WITH CONCRETE APRON
- STORM STORM LINE
- TC TRAFFIC CONTROL BOX (FLUSH)
- TRAFFIC SIGNAL POLE
- CHAIN LINK FENCE
- WOODEN FENCE
- ENVIRONMENTAL EASEMENT

SURVEYOR'S DESCRIPTION – VESTAL RETAIL CENTER, LLC

ALL THAT TRACT OR PARCEL OF LAND situate in the Vestal, County of Broome, State of New York, being all of the property now or formerly of Vestal Retail Center, LLC described in L. 2189 P. 472 as recorded in the Broome County Clerk's Office on May 31, 2007 (TM#158.10-2-13), bounded and described as follows:

BEGINNING at a point on the easterly boundary of Sycamore Street at its intersection with the division line between the property now or formerly of Shippers Road Management, LLC per L. 2397 P. 592 (TM# 158.10-2-9) on the north and the property now or formerly of Vestal Retail Center, LLC per L. 2189 P. 472 (TM# 158.10-2-13) on the south;

RUNNING THENCE along said easterly boundary of Sycamore Street the following six (6) courses and distances:
1) S31°41'40"E, a distance of 20.52 feet to a point;
2) S19°09'52"E, a distance of 333.22 feet to a point;
3) S84°33'02"W, a distance of 3.79 feet to a point;
4) S18°57'32"E, a distance of 347.43 feet to a point;
5) S31°01'30"E, a distance of 6.55 feet to a point, the last mentioned point being the Point of Beginning for a proposed NYSDEC Environmental Easement;
6) Continuing S31°01'30"E, a distance of 118.78 feet to a point at its intersection with the northerly boundary of Ash Road; thence along said Ash Road the following seven (7) courses and distances:
1) On a non-tangent curve to the left having a radius of 35.00 feet, an arc length of 12.70 feet to a point, said curve being subtended by a chord having a bearing of S78°07'36"E and a length of 12.63 feet;
2) S88°31'24"E, a distance of 10.50 feet to a point;
3) On a curve to the left having a radius of 599.93 feet, an arc length of 37.67 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N89°41'07"E and a length of 37.66 feet (non-tangent);
4) N75°28'03"E, a distance of 373.50 feet to a point;
5) N77°34'03"E, a distance of 48.71 feet to a point;
6) On a non-tangent curve to the right having a radius of 40.00 feet, an arc length of 105.44 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N77°34'03"E and a length of 77.46 feet;
7) N77°34'03"E, a distance of 12.08 feet to a point at its intersection with the division line between the property now or formerly of Stewart Park LLC per L. 2428 P. 114 (TM# 158.11-1-16.1) on the northeast and said Vestal Retail Center, LLC on the southwest; thence along the last mentioned division line, the following three (3) courses and distances:
1) N28°14'41"W, a distance of 129.08 feet to a point, the last mentioned point being the northeasterly corner of said proposed NYSDEC Environmental Easement
2) Continuing N28°14'41"W, a distance of 111.89 fee to a point;
3) N47°38'54"E, a distance of 267.31 feet to a point at its intersection with the division line between the property now or formerly of Parkway Plaza L.L.C. per L. 1860 P. 1430 (TM# 158.10-2-11.2) on the east and said Vestal Retail Center, LLC on the west; thence N08°17'22"W along the last mentioned division line, a distance of 497.95 feet to a point at its intersection with the division line between the property now or formerly of Buckeye Terminals, LLC per L. 1933 P. 88 (TM# 158.10-2-10) on the north and said Vestal Retail Center, LLC on the south; thence S76°38'45"W along the last mentioned division line, a distance of 256.53 feet to a point at its intersection with said division line between said Shippers Road Management, LLC on the north and said Vestal Retail Center, LLC on the south; thence along the last mentioned division line the following two (2) courses and distances:
1) S74°26'48"W, a distance of 527.84 feet to a point;
2) S70°42'44"W, a distance of 110.78 feet to the POINT OF BEGINNING.

The above described parcel contains 630,715 square feet or 14.479 acres, more or less.

SURVEYOR'S DESCRIPTION – PROPOSED ENVIRONMENTAL EASEMENT

ALL THAT TRACT OR PARCEL OF LAND situate in the Vestal, County of Broome, State of New York, being a portion of the property now or formerly of Vestal Retail Center, LLC described in L. 2189 P. 472 as recorded in the Broome County Clerk's Office on May 31, 2007 (TM#158.10-2-13), bounded and described as follows:

COMMENCING at a point on the easterly boundary of Sycamore Street at its intersection with the division line between the property now or formerly of Shippers Road Management, LLC per L. 2397 P. 592 (TM# 158.10-2-9) on the north and the property now or formerly of Vestal Retail Center, LLC per L. 2189 P. 472 (TM# 158.10-2-13) on the south; thence along said easterly boundary of Sycamore Street the following five (5) courses and distances: 1) S31°41'40"E, a distance of 20.52 feet to a point; 2) S19°09'52"E, a distance of 333.22 feet to a point; 3) S84°33'02"W, a distance of 3.79 feet to a point; 4) S18°57'32"E, a distance of 347.43 feet to a point; 5) S31°01'30"E, a distance of 6.55 feet to a point, the last mentioned point being the Point of Beginning;

RUNNING THENCE and continuing S31°01'30"E along said easterly boundary of Sycamore Street, a distance of 118.78 feet to a point at its intersection with the northerly boundary of Ash Road; thence along said Ash Road the following seven (7) courses and distances:
1) On a non-tangent curve to the left having a radius of 35.00 feet, an arc length of 12.70 feet to a point, said curve being subtended by a chord having a bearing of S78°07'36"E and a length of 12.63 feet;
2) S88°31'24"E, a distance of 10.50 feet to a point;
3) On a curve to the left having a radius of 599.93 feet, an arc length of 37.67 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N89°41'07"E and a length of 37.66 feet (non-tangent);
4) N75°28'03"E, a distance of 373.50 feet to a 5/8 inch rebar;
5) N77°34'03"E, a distance of 48.71 feet to a point;
6) On a non-tangentcurve to the right having a radius of 40.00 feet, an arc length of 105.44 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N77°34'03"E and a length of 77.46 feet;
7) N77°34'03"E, a distance of 12.08 feet to a point at its intersection with the division line between the property now or formerly of Stewart Park LLC per L. 2428 P. 114 (TM# 158.11-1-16.1) on the northeast and said Vestal Retail Center, LLC on the southwest; thence N28°14'41"W along the last mentioned division line, a distance of 129.08 feet to a point; thence through lands of said Vestal Retail Center, LLC the following three (3) courses and distances:
1) S75°17'04"W, a distance of 210.34 feet to a point;
2) S75°50'32"W, a distance of 79.65 feet to a point;
3) S77°47'27"W, a distance of 282.94 feet to the POINT OF BEGINNING.

The above described parcel contains 67,831 square feet or 1.557 acres, more or less.

I hereby certify to NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION; HINMAN, HOWARD & KATTELL, LLP; WEST COVINA ROYALE, LP; VESTAL RETAIL CENTER, LLC; and GEOLOGIC NY, INC. that this survey was prepared in accordance with the current Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. and with the "Survey Requirements for Environmental Easements". This certification is limited to persons for whom this map is prepared, to the title company and to the lending institution listed. Certifications are not transferable to additional institutions or subsequent owners.

KEYSTONE ASSOCIATES
ARCHITECTS, ENGINEERS AND SURVEYORS, LLC
58 Exchange Street
Binghamton, New York 13901
Phone: 607.722.1100
Fax: 607.722.2515
Email: info@keystonep.com
www.keystonep.com

STATE OF NEW YORK * RODNEY LEE CAREY * LICENSED LAND SURVEYOR
RODNEY L. CAREY, PLS LIC. NO. 049842
No. 049842

NO.	REVISIONS AND DESCRIPTIONS	DATE:

ENVIRONMENTAL EASEMENT DESCRIPTION
DEPARTMENT SITE NO. C704032
VESTAL RETAIL CENTER, LLC
221 SYCAMORE ROAD - LOWES HOME CENTER
TOWN OF VESTAL BROOME COUNTY NEW YORK STATE

SHEET NO.
EED-1

PROJECT NO.
1899.04815

DATE OF FIELD WORK:
04/06/15

DATE OF MAP:
04/29/15

CAD FILE NO.:
167703615EED-1.dwg

APPENDIX B

Remedial Action Work Plan Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 7
1679 NYS Route 11, Kirkwood, NY 13795
P: (607) 775-2545 | F: (607) 775-2019
www.dec.ny.gov

April 29, 2015

Susan M. Cummins
GeoLogic NY, Inc.
P.O. Box 350
Homer, New York 13077

Re: Ash Road Properties, C704032
Town of Vestal, Broome County

Dear Ms. Cummins:

The New York Department of Environmental Conservation and the New York State Department of Health (NYSDEC and NYSDOH, respectively; collectively referred to the Departments) have completed our review of the work plan titled, "Remedial Action Work Plan, Ash Road Properties, 221 Sycamore Road, Town of Vestal, New York" (RWP) dated March 2015. Based on our review, the Departments hereby approve the RWP with the following conditions:

1. A projected schedule for the remedial action phase of the project will be submitted to the Departments as part of the pre-injection plan. The remedial action schedule should be developed in accordance to DER-10 Section 5.7.
2. A post-injection monitoring and sampling plan including specific details (e.g., number of wells, well locations, sampling depths) will be submitted with the pre-injection plan for review by the Departments.
3. A quality assurance and quality controls plan for sampling, analysis and construction will be submitted with the pre-injection plan for review by the Departments.

If you have any questions, please do not hesitate to contact me by electronic mail at gary.priscott@dec.ny.gov or by telephone at 607-775-2545 extension 116.

Respectfully,

Gary Priscott
Project Manager

ec: H. Warner, NYSDEC
B. McGinn, Esq., NYSDEC
M. Doroski, NYSDOH
J. Baran, West Covina Royale
K. Fitzgerald, Esq., HHK

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 7
1679 NYS Route 11, Kirkwood, NY 13795
P: (607) 775-2545 | F: (607) 775-2019
www.dec.ny.gov

May 27, 2015

Susan M. Cummins
GeoLogic NY, Inc.
P.O. Box 350
Homer, New York 13077

Re: Ash Road Properties, C704032
Town of Vestal, Broome County

Dear Ms. Cummins:

The New York State Department of Environmental Conservation and the New York State Department of Health have completed our review of the work plan addendum titled, “Addendum to Remedial Action Work Plan, Ash Road Properties, 221 Sycamore Road, Town of Vestal, New York”, re-submitted on May 26, 2015. Based on our review, the Work Plan is hereby approved.

Sincerely,

Gary Priscott
Project Manager

ec: H. Warner, NYSDEC
B. McGinn, Esq., NYSDEC
M. Doroski, NYSDOH
J. Baran, West Covina Royale
K. Fitzgerald, Esq., HHK

APPENDIX C

Environmental Easement

STATE OF NEW YORK
BROOME COUNTY

I, Richard R. Blythe, Clerk of the County of Broome of the County Court of said County and of the Supreme Court, both being courts of Record having a common seal, DO HEREBY CERTIFY that I have compared this copy with the original

DESCRIPTION: EASEMENT
DATE: 11/02/2015
BOOK/PAGE: D2476 / 355

filed, recorded, or entered in this office and that the same is a correct transcript thereof and of the whole of said original.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said County and Courts on

Date: 11/02/2015

Frances Martin-Childs

By Frances Martin-Childs
Deputy County Clerk

BROOME COUNTY – STATE OF NEW YORK
RICHARD R. BLYTHE, COUNTY CLERK
60 HAWLEY STREET, P.O. BOX 2062
BINGHAMTON, NY 13902

COUNTY CLERK'S RECORDING PAGE
*****THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH*****

BOOK/PAGE: D2476 / 355
INSTRUMENT #: 201500033405

Receipt#: 20150770720
Clerk: GG
Rec Date: 11/02/2015 04:21:32 PM
Doc Grp: D
Descrip: EASEMENT
Num Pgs: 11
Rec'd Frm: HINMAN HOWARD & KATTELL LLP

Party1: VESTAL RETAIL CENTER LLC
Party2: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Town: TOWN OF VESTAL

Recording:	
Cover Page	5.00
Recording Fee	70.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
Sub Total:	95.00
Transfer Tax	
Transfer Tax - State	0.00
Transfer Tax - County	0.00
Sub Total:	0.00
Total:	95.00

****** NOTICE: THIS IS NOT A BILL ******

***** Transfer Tax *****
Transfer Tax #: TT001336
Transfer Tax
Consideration: 0.00

Total: 0.00

WARNING***

This sheet constitutes the clerks endorsement, required by Section 316-A (5) & Section 319 of the Real Property Law of the State of New York. DO NOT DETACH.

Richard R. Blythe
Broome County Clerk

Record and Return To:

HINMAN HOWARD & KATTELL LLP
700 SECURITY MUTUAL BLDG
80 EXCHANGE ST PO BOX 5250
BINGHAMTON NY 13902

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 9th day of OCTOBER, 2015, between Owner(s) Vestal Retail Center, LLC, having an office at 5150 Overland Avenue, Culver City, California 90230, County of Los Angeles, State of California (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 221 Sycamore Road in the Town of Vestal, County of Broome and State of New York, known and designated on the tax map of the County Clerk of Broome as tax map parcel numbers: Section 158.10 Block 2 Lot 13, being a portion of the property conveyed to Grantor by deed dated May 15, 2007 and recorded in the Broome County Clerk's Office in Liber and Page 2189/472. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 1.557 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 29, 2015 prepared by Rodney L. Carey, PLS of Keystone Associates, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C704032-05-10, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the Controlled Property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Broome County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the Controlled Property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the Controlled Property must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the Controlled Property to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such Controlled Property:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to the Controlled Property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by

Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C704032
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of

this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Controlled Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

VESTAL RETAIL CENTER, LLC,
a Delaware limited liability company

By: West Covina Royale, L.P.,
a California limited partnership,
its managing member

By: JG GROUP GP, LLC,
a California limited liability
company, a general partner

By: _____
Barry Cayton, Manager

Date: September 30, 2015

Grantor's Acknowledgment SEE ATTACHED CERTIFICATE

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)

Subscribed and sworn to (or affirmed) before me on this ___ day of _____, 20___ by
(1) _____,

(and (2) _____),

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature _____ (Seal)
Signature of the Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Los Angeles)

On October 1, 2015 before me, Patricia R. Estrada, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Barry Cayton
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

PATRICIA R. ESTRADA
Commission # 2049783
Notary Public - California
Los Angeles County
My Comm. Expires Dec 20, 2017

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 9th day of October, in the year 2015, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

ENVIRONMENTAL EASEMENT DESCRIPTION
VESTAL RETAIL CENTER, LLC
221 SYCAMORE ROAD
TOWN OF VESTAL
BROOME COUNTY, NEW YORK STATE

ALL THAT TRACT OR PARCEL OF LAND situate in the Vestal, County of Broome, State of New York, being a portion of the property now or formerly of Vestal Retail Center, LLC described in L. 2189 P. 472 as recorded in the Broome County Clerk's Office on May 31, 2007 (TM#158.10-2-13), bounded and described as follows:

COMMENCING at a point on the easterly boundary of Sycamore Street at its intersection with the division line between the property now or formerly of Shippers Road Management, LLC per L. 2397 P. 592 (TM# 158.10-2-9) on the north and the property now or formerly of Vestal Retail Center, LLC per L. 2189 P. 472 (TM# 158.10-2-13) on the south; thence along said easterly boundary of Sycamore Street the following five (5) courses and distances: 1) S31°41'40"E, a distance of 20.52 feet to a point; 2) S19°09'52"E, a distance of 333.22 feet to a point; 3) S84°33'02"W, a distance of 3.79 feet to a point; 4) S18°57'32"E, a distance of 347.43 feet to a point; 5) S31°01'30"E, a distance of 6.55 feet to a point, the last mentioned point being the Point of Beginning;

RUNNING THENCE and continuing S31°01'30"E along said easterly boundary of Sycamore Street, a distance of 118.78 feet to a point at its intersection with the northerly boundary of Ash Road; thence along said Ash Road the following seven (7) courses and distances:

1) On a non-tangent curve to the left having a radius of 35.00 feet, an arc length of 12.70 feet to a point, said curve being subtended by a chord having a bearing of S78°07'36"E and a length of 12.63 feet;
2) S88°31'24"E, a distance of 10.50 feet to a point;
3) On a curve to the left having a radius of 599.93 feet, an arc length of 37.67 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N89°41'07"E and a length of 37.66 feet (non-tangent);
4) N75°28'03"E, a distance of 373.50 feet to a 5/8 inch rebar;
5) N77°34'03"E, a distance of 48.71 feet to a point;
6) On a non-tangentcurve to the right having a radius of 40.00 feet, an arc length of 105.44 feet to a point, the last mentioned curve being subtended by a chord having a bearing of N77°34'03"E and a length of 77.46 feet;
7) N77°34'03"E, a distance of 12.08 feet to a point at its intersection with the division line between the property now or formerly of Stewart Park LLC per L. 2428 P. 114 (TM# 158.11-1-16.1) on the northeast and said Vestal Retail Center, LLC on the southwest; thence N28°14'41"W along the last mentioned division line, a distance of 129.08 feet to a point; thence through said Vestal Retail Center, LLC the following three (3) courses and distances:

1) S75°17'04"W, a distance of 210.34 feet to a point;
2) S75°50'32"W, a distance of 79.65 feet to a point;
3) S77°47'27"W, a distance of 282.94 feet to the POINT OF BEGINNING.

The above described parcel contains 67,831 square feet or 1.557 acres, more or less.

APPENDIX D

Laboratory Data

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 11:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-001
Client Sample ID: MW-01

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,1,2-Trichloro-1,2,2-trifluoroethan	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,1-Dichloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,1-Dichloroethene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2,4-Trichlorobenzene	< 1.0	c	1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2-Dibromoethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2-Dichloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,2-Dichloropropane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
1,4-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
2-Butanone	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
2-Hexanone	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
4-Methyl-2-pentanone	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Acetone	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Benzene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Bromodichloromethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Bromoform	< 1.0	c	1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Bromomethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Carbon disulfide	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Carbon tetrachloride	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Chlorobenzene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Chloroethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Chloroform	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Chloromethane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
cis-1,2-Dichloroethene	270	D	3	µg/L	06/06/2015 4:53 PM	Container-02 of 06
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06
Cyclohexane	< 1.0		1	µg/L	06/06/2015 2:02 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 11:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-001
Client Sample ID: MW-01

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Dibromochloromethane	< 1.0	c	1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Dichlorodifluoromethane	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Ethylbenzene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Isopropylbenzene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Methyl Acetate	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Methyl tert-butyl ether	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Methylcyclohexane	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Methylene chloride	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Styrene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Tetrachloroethene	23		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Toluene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
trans-1,2-Dichloroethene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
trans-1,3-Dichloropropene	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Trichloroethene	9.3		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Trichlorofluoromethane	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Vinyl chloride	1.9		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Xylene (total)	< 1.0		1	µg/L			06/06/2015 2:02 PM	Container-01 of 06
Surr: 1,2-Dichloroethane-d4	116		1	%REC	Limit	53-183	06/06/2015 2:02 PM	Container-01 of 06
Surr: 4-Bromofluorobenzene	116		1	%REC	Limit	63-140	06/06/2015 2:02 PM	Container-01 of 06
Surr: Toluene-d8	121		1	%REC	Limit	60-135	06/06/2015 2:02 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 10:05:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-002
Client Sample ID: MW-02S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,1,2-Trichloro-1,2,2-trifluoroethan	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,1-Dichloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,1-Dichloroethene	1.9		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2,4-Trichlorobenzene	< 1.0	c	1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2-Dibromoethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2-Dichloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,2-Dichloropropane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
1,4-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
2-Butanone	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
2-Hexanone	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
4-Methyl-2-pentanone	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Acetone	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Benzene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Bromodichloromethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Bromoform	< 1.0	c	1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Bromomethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Carbon disulfide	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Carbon tetrachloride	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Chlorobenzene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Chloroethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Chloroform	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Chloromethane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
cis-1,2-Dichloroethene	490	D	25	µg/L	06/06/2015 3:27 PM	Container-04 of 06
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06
Cyclohexane	< 1.0		1	µg/L	06/06/2015 2:23 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 10:05:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-002
Client Sample ID: MW-02S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Dibromochloromethane	< 1.0	c	1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Dichlorodifluoromethane	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Ethylbenzene	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Isopropylbenzene	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Methyl Acetate	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Methyl tert-butyl ether	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Methylcyclohexane	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Methylene chloride	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Styrene	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Tetrachloroethene	3,000	D	25	µg/L			06/06/2015 3:27 PM	Container-04 of 06
Toluene	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
trans-1,2-Dichloroethene	1.1		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
trans-1,3-Dichloropropene	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Trichloroethene	370	D	25	µg/L			06/06/2015 3:27 PM	Container-04 of 06
Trichlorofluoromethane	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Vinyl chloride	46		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Xylene (total)	< 1.0		1	µg/L			06/06/2015 2:23 PM	Container-01 of 06
Surr: 1,2-Dichloroethane-d4	118		1	%REC	Limit	53-183	06/06/2015 2:23 PM	Container-01 of 06
Surr: 4-Bromofluorobenzene	118		1	%REC	Limit	63-140	06/06/2015 2:23 PM	Container-01 of 06
Surr: Toluene-d8	119		1	%REC	Limit	60-135	06/06/2015 2:23 PM	Container-01 of 06

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 8:00:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-003
Client Sample ID: MW-09S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,1,2-Trichloro-1,2,2-trifluoroethan	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,1-Dichloroethene	2.1		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0	c	1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
2-Butanone	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
2-Hexanone	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
4-Methyl-2-pentanone	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Acetone	35		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Bromodichloromethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Bromoform	< 1.0	c	1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Carbon disulfide	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
cis-1,2-Dichloroethene	1,100	D	40	µg/L	06/06/2015 4:10 PM	Container-02 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03
Cyclohexane	< 1.0		1	µg/L	06/06/2015 3:49 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 8:00:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-003
Client Sample ID: MW-09S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Dibromochloromethane	< 1.0	c	1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Methyl Acetate	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Methylcyclohexane	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Tetrachloroethene	2,300	D	40	µg/L			06/06/2015 4:10 PM	Container-02 of 03
Toluene	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
trans-1,2-Dichloroethene	4.7		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Trichloroethene	290	D	40	µg/L			06/06/2015 4:10 PM	Container-02 of 03
Trichlorofluoromethane	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Vinyl chloride	90		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Xylene (total)	< 1.0		1	µg/L			06/06/2015 3:49 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	118		1	%REC	Limit	53-183	06/06/2015 3:49 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	116		1	%REC	Limit	63-140	06/06/2015 3:49 PM	Container-01 of 03
Surr: Toluene-d8	119		1	%REC	Limit	60-135	06/06/2015 3:49 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 9:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-004
Client Sample ID: MW-10S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,1,2-Trichloro-1,2,2-trifluoroethan	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,1-Dichloroethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,1-Dichloroethene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2,4-Trichlorobenzene	< 1.0	c	1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2-Dibromoethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2-Dichloroethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,2-Dichloropropane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
1,4-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
2-Butanone	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
2-Hexanone	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
4-Methyl-2-pentanone	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Acetone	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Benzene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Bromodichloromethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Bromoform	< 1.0	c	1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Bromomethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Carbon disulfide	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Carbon tetrachloride	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Chlorobenzene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Chloroethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Chloroform	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Chloromethane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
cis-1,2-Dichloroethene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03
Cyclohexane	< 1.0		1	µg/L	06/06/2015 4:31 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 9:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By CLIENT

Lab No. : 1506421-004
Client Sample ID: MW-10S

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Dibromochloromethane	< 1.0	c	1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Dichlorodifluoromethane	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Ethylbenzene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Isopropylbenzene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Methyl Acetate	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Methyl tert-butyl ether	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Methylcyclohexane	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Methylene chloride	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Styrene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Tetrachloroethene	4.5		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Toluene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
trans-1,2-Dichloroethene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
trans-1,3-Dichloropropene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Trichloroethene	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Trichlorofluoromethane	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Vinyl chloride	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Xylene (total)	< 1.0		1	µg/L			06/06/2015 4:31 PM	Container-01 of 03
Surr: 1,2-Dichloroethane-d4	116		1	%REC	Limit	53-183	06/06/2015 4:31 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	116		1	%REC	Limit	63-140	06/06/2015 4:31 PM	Container-01 of 03
Surr: Toluene-d8	120		1	%REC	Limit	60-135	06/06/2015 4:31 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/2/2015
Received : 6/2/2015 9:45:00 AM
Collected By PACE

Lab No. : 1506421-005
Client Sample ID: STORAGE BLANK

ASH ROAD, 209183

Sample Information:
Type : Trip Blank

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,1,2-Trichloro-1,2,2-trifluoroethan	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,1-Dichloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,1-Dichloroethene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 1.0	c	1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2-Dibromo-3-chloropropane	< 1.0	c	1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2-Dibromoethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2-Dichloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,2-Dichloropropane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
1,4-Dichlorobenzene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
2-Butanone	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
2-Hexanone	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
4-Methyl-2-pentanone	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Acetone	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Benzene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Bromodichloromethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Bromoform	< 1.0	c	1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Bromomethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Carbon disulfide	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Carbon tetrachloride	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Chlorobenzene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Chloroethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Chloroform	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Chloromethane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02
Cyclohexane	< 1.0		1	µg/L	06/06/2015 1:40 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/2/2015
Received : 6/2/2015 9:45:00 AM
Collected By PACE

Lab No. : 1506421-005
Client Sample ID: STORAGE BLANK

ASH ROAD, 209183

Sample Information:
Type : Trip Blank

Origin:

Analytical Method: SW8260C : Prep Method: 5030C Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Dibromochloromethane	< 1.0	c	1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Dichlorodifluoromethane	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Ethylbenzene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Isopropylbenzene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Methyl Acetate	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Methyl tert-butyl ether	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Methylcyclohexane	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Methylene chloride	1.2		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Styrene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Tetrachloroethene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Toluene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Trichloroethene	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Trichlorofluoromethane	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Vinyl chloride	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Xylene (total)	< 1.0		1	µg/L			06/06/2015 1:40 PM	Container-01 of 02
Surr: 1,2-Dichloroethane-d4	116		1	%REC	Limit	53-183	06/06/2015 1:40 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	115		1	%REC	Limit	63-140	06/06/2015 1:40 PM	Container-01 of 02
Surr: Toluene-d8	118		1	%REC	Limit	60-135	06/06/2015 1:40 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 6/25/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **GEO** Date and Time Received: **6/2/2015 9:45:00 AM**

Work Order Number: **1506421** RcptNo: **1** Received by **Linda Siciliano**

Completed by: Reviewed by:

Completed Date: 6/24/2015 5:49:46 PM Reviewed Date: 6/24/2015 5:48:24 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	2.1 º
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	773728468265					

Case Number: SDG: GEO005 SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1506421

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 11:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-001
Client Sample ID: MW-01

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	682	D	20	mg/L	06/12/2015 8:30 AM	Container-01 of 02
Sulfate	34.4		1	mg/L	06/10/2015 6:46 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:25 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:16 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	2.3		1	µg/L	06/04/2015 3:43 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 10:03:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-002
Client Sample ID: MW-02S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 6/9/2015 10:30:00 AM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Manganese	496		1	ug/L	06/10/2015 3:33 AM	Container-01 of 01

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	769	D	20	mg/L	06/12/2015 8:44 AM	Container-01 of 02
Sulfate	15.0		1	mg/L	06/10/2015 7:27 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	7		1	mg/L	06/03/2015 10:30 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:17 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	1,900	D	215	µg/L	06/04/2015 4:38 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	3.9	+	1	mg/L	06/26/2015	Container-01 of 01

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 8:00:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-003
Client Sample ID: MW-09S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 6/9/2015 10:30:00 AM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Manganese	10,400		1	ug/L	06/10/2015 3:40 AM	Container-01 of 01

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	942	D	20	mg/L	06/12/2015 8:59 AM	Container-01 of 02
Sulfate	43.7		1	mg/L	06/10/2015 7:40 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:35 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:18 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	21		1	µg/L	06/04/2015 4:05 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	3.7	+	1	mg/L	06/26/2015	Container-01 of 01

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 9:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-004
Client Sample ID: MW-10S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	995	D	20	mg/L	06/12/2015 9:13 AM	Container-01 of 02
Sulfate	30.8		1	mg/L	06/10/2015 7:54 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:40 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:20 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	< 1.0		1	µg/L	06/04/2015 4:16 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **50245**

Sample ID: **MB-50245**	SampType: **MBLK**	TestCode: **BOD5_W_SM**	Units: **mg/L**	Prep Date: **6/3/2015**	RunNo: **76493**
Client ID: **PBW**	Batch ID: **50245**	TestNo: **SM5210B**	**SM5210B**	Analysis Date: **6/3/2015**	SeqNo: **1666590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	< 2	2									

Sample ID: **LCS-50245**	SampType: **LCS**	TestCode: **BOD5_W_SM**	Units: **mg/L**	Prep Date: **6/3/2015**	RunNo: **76493**
Client ID: **LCSW**	Batch ID: **50245**	TestNo: **SM5210B**	**SM5210B**	Analysis Date: **6/3/2015**	SeqNo: **1666592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	211	2	198	0	107	84.5	115.5				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **50352**

Sample ID: **MB-50352**	SampType: **MBLK**	TestCode: **200.7_w_clp**	Units: **ug/L**	Prep Date: **6/9/2015**	RunNo: **76421**
Client ID: **PBW**	Batch ID: **50352**	TestNo: **E200.7**	**E200.7**	Analysis Date: **6/10/2015**	SeqNo: **1665258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	< 15.0	15.0									

Sample ID: **LCS-50352**	SampType: **LCS**	TestCode: **200.7_w_clp**	Units: **ug/L**	Prep Date: **6/9/2015**	RunNo: **76421**
Client ID: **LCSW**	Batch ID: **50352**	TestNo: **E200.7**	**E200.7**	Analysis Date: **6/10/2015**	SeqNo: **1665259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	2,680	15.0	2,500	0	107	85	115				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76120**

Sample ID: **LCS-060215**	SampType: **lcs**	TestCode: **no2-a_w**	Units: **mg/L**	Prep Date:	RunNo: **76120**
Client ID: **LCSW**	Batch ID: **R76120**	TestNo: **E353.2**		Analysis Date: **6/3/2015**	SeqNo: **1657412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite as N	1.01	0.10	1.00	0	101	90	110				

Sample ID: **MB-060215**	SampType: **mblk**	TestCode: **no2-a_w**	Units: **mg/L**	Prep Date:	RunNo: **76120**
Client ID: **PBW**	Batch ID: **R76120**	TestNo: **E353.2**		Analysis Date: **6/3/2015**	SeqNo: **1657413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite as N	< 0.10	0.10									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76164**

Sample ID: **MB060415** SampType: **mblk** TestCode: **RSK-175_W** Units: **µg/L** Prep Date: RunNo: **76164**
Client ID: **PBW** Batch ID: **R76164** TestNo: **RSK-175** Analysis Date: **6/4/2015** SeqNo: **1659223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	< 1.0	1.0									
Surr: Propene	10		10.00		100	21	187				

Sample ID: **LFB060415** SampType: **lfb** TestCode: **RSK-175_W** Units: **µg/L** Prep Date: RunNo: **76164**
Client ID: **ZZZZZZ** Batch ID: **R76164** TestNo: **RSK-175** Analysis Date: **6/4/2015** SeqNo: **1659224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1.4	1.0	5.500	0	25.5	22	166				
Surr: Propene	1.9		10.00		19.0	21	187				S

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76522**

Sample ID: **LCS-060915**	SampType: **LCS**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **LCSW**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.70	5.00	10.00	0	97.0	90	110				

Sample ID: **lfb-060915**	SampType: **lfb**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **ZZZZZZ**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.75	5.00	10.00	0	97.5	90	110				

Sample ID: **MB-060915**	SampType: **MBLK**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **PBW**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 5.00	5.00									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76739**

Sample ID: **LCS-061115**	SampType: **LCS**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **LCSW**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.43	2.00	10.00	0	94.3	90	110				

Sample ID: **lfb-061015**	SampType: **lfb**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **ZZZZZZ**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.85	2.00	10.00	0	98.5	90	110				

Sample ID: **MB-061015**	SampType: **MBLK**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **PBW**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	< 2.00	2.00									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **GEO** Date and Time Received: **6/2/2015 9:45:00 AM**

Work Order Number: **1506184** RcptNo: **1** Received by: **Linda Siciliano**

Completed by: Reviewed by:

Completed Date: 6/24/2015 9:58:10 AM Reviewed Date: 6/24/2015 9:56:49 AM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	2.1 º
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	773728468265					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☑ Yes ☐ No ☐ NA Person Contacted: S. CUMMINS

Contact Mode: ☑ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions: Only Level 4 (Cat B) on Volatile data, MS/MSD/DUP only for the volatiles for sam

Date Contacted: 6/4/2015 Contacted By: Nicole Johnson

Regarding: Cat B and QC listed on COC

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1506184

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

July 7, 2015

Pace Analytical Services, Inc.
ATTN: Nicole Johnson
2190 Technology Drive
Schenectady, NY 12308
Nicole.johnson@pacelabs.com

RE: Project PAC-SN1501 Client Project: Geologic #209183

Dear Ms. Johnson,

On June 2, 2015, Brooks Rand Labs (BRL) received four (4) water samples. The samples were logged-in for the contracted analyses of dissolved ferrous iron [Fe(II)] and were field-filtered by the client. All samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

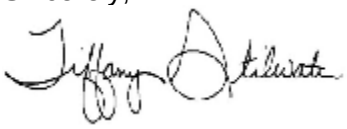
All Fe speciation results were not method blank-corrected in accordance to BRL SOPs. Sample results may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

No laboratory fortified blanks (BS) were available for the Fe(II) analysis. A conversion test BS was performed, though not reportable, and internal confirmed the analysis was not converting Fe(II) to Fe(III).

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,



Tiffany Stilwater
Client Services Manager
tiffany@brooksrand.com

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MW-01	1523004-01	Water	Sample	06/01/2015	06/02/2015
MW-02S	1523004-02	Water	Sample	06/01/2015	06/02/2015
MW-09S	1523004-03	Water	Sample	06/01/2015	06/02/2015
MW-10S	1523004-04	Water	Sample	06/01/2015	06/02/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Fe(II)	Water	SM 3500-Fe B mod.	06/02/2015	06/02/2015	B150821	1500428

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MW-01										
1523004-01	Fe(II)	Water	D	88.9		13.4	40.0	µg/L	B150821	1500428
MW-02S										
1523004-02	Fe(II)	Water	D	568.1		13.4	40.0	µg/L	B150821	1500428
MW-09S										
1523004-03	Fe(II)	Water	D	1106.5		13.4	40.0	µg/L	B150821	1500428
MW-10S										
1523004-04	Fe(II)	Water	D	79.0		13.4	40.0	µg/L	B150821	1500428

Project ID: PAC-SN1401
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Accuracy & Precision Summary

Batch: B150821
Lab Matrix: Water
Method: SM 3500-Fe B mod.

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150821-DUP1	**Duplicate (1523004-01)**						
	Fe(II)	88.9		108.7	µg/L		13% 25
B150821-MS1	**Matrix Spike (1523004-01)**						
	Fe(II)	88.9	200	301.3	µg/L	106% 75-125	
B150821-MSD1	**Matrix Spike Duplicate (1523004-01)**						
	Fe(II)	88.9	200	306.3	µg/L	108% 75-125	2% 25

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Method Blanks & Reporting Limits

Batch: B150821
Matrix: Water
Method: SM 3500-Fe B mod.
Analyte: Fe(II)

Sample	Result	Units
B150821-BLK1	0.0	µg/L
B150821-BLK2	0.0	µg/L
B150821-BLK3	0.0	µg/L
B150821-BLK4	0.0	µg/L
	Average: 0.0	
	Limit: 20.0	

Limit: 20.0

MDL: 6.7
MRL: 20.0

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Sample Containers

Lab ID: 1523004-01
Sample: MW-01
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-02
Sample: MW-02S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-03
Sample: MW-09S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-04
Sample: MW-10S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Shipping Containers

cooler
Received: June 2, 2015 9:30
Tracking No: 806663905935 via FedEx
Coolant Type: Ice
Temperature: -1.2 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: PACE Analytical	Report To:	Attention:
Address: 575 Broad Hollow Rd	Copy To:	Company Name:
Melville, NY 11747		Address:
Email To: NICOLE.JOHNSON@PACELABS.COM	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: GROUNDEC # 209183	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER NY

Section D
Required Client Information

Valid Matrix Codes: MATRIX / CODE (Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	NaHSO4	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	MW-01					6/1	11:10		2				2							
2	MW-02S						10:03		2				2							
3	MW-09S						9:30		2				2							
4	MW-10S						9:10		2				2							
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	PACE	6/1/15	17:00	BRL	6/1/15	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

e-File(ALL)020rev.4,29Mar03)22Jun2005

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 26, 2015

Ms. Jennifer Aracri
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747

RE: Project: 1506184
Pace Project No.: 30151599

Dear Ms. Aracri:
Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1506184
Pace Project No.: 30151599

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 1506184
Pace Project No.: 30151599

Method: **SM 5310C**
Description: 5310C TOC
Client: Pace Analytical Services, Inc. - Melville
Date: June 26, 2015

General Information:
2 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1506184
Pace Project No.: 30151599

Sample: 1506184-002B **Lab ID: 30151599001** Collected: 06/01/15 10:03 Received: 06/23/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.9**	mg/L	1.0	1		06/26/15 00:05	7440-44-0	

Sample: 1506184-003B **Lab ID: 30151599002** Collected: 06/01/15 08:00 Received: 06/23/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.7**	mg/L	1.0	1		06/26/15 00:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1506184
Pace Project No.: 30151599

QC Batch: WETA/20414 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 30151599001, 30151599002

METHOD BLANK: 913531 — Matrix: Water
Associated Lab Samples: 30151599001, 30151599002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/25/15 17:08	

LABORATORY CONTROL SAMPLE: 913532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 913533 913534

Parameter	Units	30151590013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	2.7	10	10	11.6	11.6	89	89	85-115	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 913535 913536

Parameter	Units	30151594003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	9.7	9.6	94	93	85-115	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 1506184
Pace Project No.: 30151599

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1506184
Pace Project No.: 30151599

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30151599001	**1506184-002B**	SM 5310C	WETA/20414		
30151599002	**1506184-003B**	SM 5310C	WETA/20414		

Pace Analytical

CHAIN OF CUSTODY RECORD

Omega COCID 2976

PAGE: 1 OF: 1

WO#:30151599

30151599

ASR-0991

ADDRESS
PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040
FAX: (631) 420-8436
Website: www.pacelabs.com

SUB CONTRATOR: **PACE-Pennsylvania** COMPANY: **Pace Analytical Service, Inc.**

ADDRESS: **1638 Roseytown Road Suites 2,3,&4**

CITY, STATE, ZIP: **Greensburg, PA 15601**

PHONE: **(724) 850-5600** FAX: **(724) 850-5601** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS

Please analyze for TOC in water with a Level 2 package. Results are needed ASAP If you have any questions, please contact Jennifer Aracri at ext. 1211 Thanks!

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	1506184-002B TOC_W_SM (SM5310B)	MW-02S	500MLHDPE w/	Aqueous	6/1/2015 10:03:00 AM	1	001
2	1506184-003B TOC_W_SM (SM5310B)	MW-09S	500MLHDPE w/	Aqueous	6/1/2015 8:00:00 AM	1	002

Relinquished By: Date 6-22-15 Time 1800 Received By: Date 6-22-15 Time 1.40

Relinquished By: Pace Date 6-23-15 Time 3:35 Received By: Date 6/23/15 Time 1535

Relinquished By: Date Time Received By: Date Time

TAT: Standard RUSH Next BD 2nd BD 3rd BD

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

HARDCOPY (extra cost) FAX EMAIL ONLINE

FOR LAB USE ONLY

Temp of samples 3.5 °C Attempt to Cool ? Y

Comments

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pace-LI

Project # 30151599

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no **Biological Tissue is Frozen:** Yes No

Packing Material: Bubble Wrap ___ Bubble Bags ✓ None ___ Other _____

Thermometer Used 7 **Type of Ice:** Wet Blue None ☑ Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 3.8 °C **Correction Factor:** -0.3 °C **Final Temp:** 3.5 °C

Date and Initials of person examining contents: VEW 6/23/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5. Approaching hold time
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WS		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Initial when completed VEW / Lot # of added preservative
exceptions: VOA, coliform, TOC, O&G, Phenols	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Samantha Bayne **Date:** 6/24/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 11:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-001
Client Sample ID: MW-01

ASH ROAD, 209183

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	682	D	20	mg/L	06/12/2015 8:30 AM	Container-01 of 02
Sulfate	34.4		1	mg/L	06/10/2015 6:46 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:25 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:16 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	2.3		1	µg/L	06/04/2015 3:43 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 10:03:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-002
Client Sample ID: MW-02S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 6/9/2015 10:30:00 AM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Manganese	496		1	ug/L	06/10/2015 3:33 AM	Container-01 of 01

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	769	D	20	mg/L	06/12/2015 8:44 AM	Container-01 of 02
Sulfate	15.0		1	mg/L	06/10/2015 7:27 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	7		1	mg/L	06/03/2015 10:30 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:17 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	1,900	D	215	µg/L	06/04/2015 4:38 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	3.9	+	1	mg/L	06/26/2015	Container-01 of 01

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 8:00:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-003
Client Sample ID: MW-09S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 6/9/2015 10:30:00 AM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Manganese	10,400		1	ug/L	06/10/2015 3:40 AM	Container-01 of 01

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	942	D	20	mg/L	06/12/2015 8:59 AM	Container-01 of 02
Sulfate	43.7		1	mg/L	06/10/2015 7:40 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:35 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:18 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	21		1	µg/L	06/04/2015 4:05 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	3.7	+	1	mg/L	06/26/2015	Container-01 of 01

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 6/1/2015 9:10:00 AM
Received : 6/2/2015 9:45:00 AM
Collected By : CLIENT

Lab No. : 1506184-004
Client Sample ID: MW-10S

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E300.0 : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	995	D	20	mg/L	06/12/2015 9:13 AM	Container-01 of 02
Sulfate	30.8		1	mg/L	06/10/2015 7:54 AM	Container-01 of 02

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/3/2015 6:55:47 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Biochemical Oxygen Demand	< 2		1	mg/L	06/03/2015 10:40 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: AW

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10	H	1	mg/L	06/03/2015 10:20 AM	Container-01 of 02

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Methane	< 1.0		1	µg/L	06/04/2015 4:16 PM	Container-01 of 02

Analytical Method: SUB : Analyst: Sub

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Subcontract (See Attached)	-	+	1		06/02/2015	

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/8/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **50245**

Sample ID: **MB-50245**	SampType: **MBLK**	TestCode: **BOD5_W_SM**	Units: **mg/L**	Prep Date: **6/3/2015**	RunNo: **76493**
Client ID: **PBW**	Batch ID: **50245**	TestNo: **SM5210B**	**SM5210B**	Analysis Date: **6/3/2015**	SeqNo: **1666590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	< 2	2									

Sample ID: **LCS-50245**	SampType: **LCS**	TestCode: **BOD5_W_SM**	Units: **mg/L**	Prep Date: **6/3/2015**	RunNo: **76493**
Client ID: **LCSW**	Batch ID: **50245**	TestNo: **SM5210B**	**SM5210B**	Analysis Date: **6/3/2015**	SeqNo: **1666592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	211	2	198	0	107	84.5	115.5				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **50352**

Sample ID: **MB-50352**	SampType: **MBLK**	TestCode: **200.7_w_clp**	Units: **ug/L**	Prep Date: **6/9/2015**	RunNo: **76421**
Client ID: **PBW**	Batch ID: **50352**	TestNo: **E200.7**	**E200.7**	Analysis Date: **6/10/2015**	SeqNo: **1665258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	< 15.0	15.0									

Sample ID: **LCS-50352**	SampType: **LCS**	TestCode: **200.7_w_clp**	Units: **ug/L**	Prep Date: **6/9/2015**	RunNo: **76421**
Client ID: **LCSW**	Batch ID: **50352**	TestNo: **E200.7**	**E200.7**	Analysis Date: **6/10/2015**	SeqNo: **1665259**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	2,680	15.0	2,500	0	107	85	115				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76120**

Sample ID: **LCS-060215**	SampType: **lcs**	TestCode: **no2-a_w**	Units: **mg/L**	Prep Date:	RunNo: **76120**
Client ID: **LCSW**	Batch ID: **R76120**	TestNo: **E353.2**		Analysis Date: **6/3/2015**	SeqNo: **1657412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite as N	1.01	0.10	1.00	0	101	90	110				

Sample ID: **MB-060215**	SampType: **mblk**	TestCode: **no2-a_w**	Units: **mg/L**	Prep Date:	RunNo: **76120**
Client ID: **PBW**	Batch ID: **R76120**	TestNo: **E353.2**		Analysis Date: **6/3/2015**	SeqNo: **1657413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite as N	< 0.10	0.10									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76164**

Sample ID: **MB060415** SampType: **mblk** TestCode: **RSK-175_W** Units: **µg/L** Prep Date: RunNo: **76164**
Client ID: **PBW** Batch ID: **R76164** TestNo: **RSK-175** Analysis Date: **6/4/2015** SeqNo: **1659223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	< 1.0	1.0									
Surr: Propene	10		10.00		100	21	187				

Sample ID: **LFB060415** SampType: **lfb** TestCode: **RSK-175_W** Units: **µg/L** Prep Date: RunNo: **76164**
Client ID: **ZZZZZZ** Batch ID: **R76164** TestNo: **RSK-175** Analysis Date: **6/4/2015** SeqNo: **1659224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	1.4	1.0	5.500	0	25.5	22	166				
Surr: Propene	1.9		10.00		19.0	21	187				S

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76522**

Sample ID: **LCS-060915**	SampType: **LCS**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **LCSW**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.70	5.00	10.00	0	97.0	90	110				

Sample ID: **lfb-060915**	SampType: **lfb**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **ZZZZZZ**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	9.75	5.00	10.00	0	97.5	90	110				

Sample ID: **MB-060915**	SampType: **MBLK**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76522**
Client ID: **PBW**	Batch ID: **R76522**	TestNo: **E300.0**		Analysis Date: **6/9/2015**	SeqNo: **1667154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	< 5.00	5.00									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1506184**

08-Jul-15

Client: Geologic NY
Project: Geologic **BatchID:** **R76739**

Sample ID: **LCS-061115**	SampType: **LCS**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **LCSW**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.43	2.00	10.00	0	94.3	90	110				

Sample ID: **lfb-061015**	SampType: **lfb**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **ZZZZZZ**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.85	2.00	10.00	0	98.5	90	110				

Sample ID: **MB-061015**	SampType: **MBLK**	TestCode: **ANION300_W**	Units: **mg/L**	Prep Date:	RunNo: **76739**
Client ID: **PBW**	Batch ID: **R76739**	TestNo: **E300.0**		Analysis Date: **6/11/2015**	SeqNo: **1672077**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	< 2.00	2.00									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **GEO** Date and Time Received: **6/2/2015 9:45:00 AM**

Work Order Number: **1506184** RcptNo: **1** Received by: **Linda Siciliano**

Completed by: Reviewed by:

Completed Date: 6/24/2015 9:58:10 AM Reviewed Date: 6/24/2015 9:56:49 AM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	2.1 º
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	773728468265					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☑ Yes ☐ No ☐ NA Person Contacted: S. CUMMINS

Contact Mode: ☑ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions: Only Level 4 (Cat B) on Volatile data, MS/MSD/DUP only for the volatiles for sam

Date Contacted: 6/4/2015 Contacted By: Nicole Johnson

Regarding: Cat B and QC listed on COC

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1506184

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Pace Analytical e-Report

***Issuance of this report is prior to full data package.**

Report prepared for:
GEOLOGIC NY INC.
PO BOX 350
HOMER
, NY
CONTACT: S CUMMINS

Project ID: ASH ROAD PROPERTIES
Sampling Date(s): July 06, 2015
Lab Report ID: 15070234
Client Service Contact: Nicole Johnson (518) 346-4592

Analysis Included:
8260 - Sub Pace PA

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

This page intentionally left blank.

Table of Contents

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

150702341

Page: 1 of 1

1701029

Section A Required Client Information:

Company: GeologicNY Inc
Address: PO Box 350
Homer NY 13077
Email To: geologicny@geologic.net
Phone: 607-749-5000 Fax:
Requested Due Date/TAT: 7-20-15

Section B Required Project Information:

Report To: Same
Copy To: Susan Cummins
Purchase Order No.: 209183
Project Name: Ash Road Properties
Project Number: 209183

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: EPA 8260 TCL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			7-6-15	1150		3				X						X		CAT B Del AS17040
2	MW-02 S	WT	G			7-6-15	1300		3				X						X		AS17041
3	MW-09S	WT	G			7-6-15	1430		3				X						X		AS17042
4	MW-10S	WT	G			7-6-15	1345		3				X						X		AS17043
5	MW 01 Duplicate	WT	G			7-6-15	1150		3				X						X		AS17040
6	MW-02S MS/MSD	WT	G			7-6-15	1300		3				X						X		~~AS17040~~ AS17041
7	Trip Blank	WT	G			7-6-15			2				X						X		AS17044
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Susan Cummins	7-6-15	1650	Phil Flm / PACE	7/6/15	1650	
	Phil Flm / PACE	7/6/15	1700	Gretchen Fodze	7/7/15	1000	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins
SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 7-6-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15070234

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: GEOLOGIC NY INC.
PROJECT: ASH ROAD PROPERTIES
LRF: 15070234
REPORT: DATA PACKAGE
EDD: YES
LRF TAT: 1 WEEK

RECEIVED DATE: 07/07/2015 10:00
SHIPPED VIA: FEDEX
SHIPPING ID:
NUMBER OF COOLERS: 0
CUSTODY SEAL INTACT: NA
COOLER STATUS: NA
TEMPERATURE(S): [5] NA °C

SAMPLE SEALS INTACT: NA
[1,2] SAMPLES PRESERVED PER METHOD GUIDANCE: NA
[3] SAMPLES REC'D IN HOLDTIME: NA
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NA

COMMENTS:
SAMPLES SHIPPED DIRECT TO PACE-PITTSBURGH.

3

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
MW-01 (AS17040)	1 WEEK 07-20-15	07/06/2015 11:50	Water	EPA 8260	8260 - Sub Pace PA	DUP
MW-02S (AS17041)	1 WEEK 07-20-15	07/06/2015 13:00	Water	EPA 8260	8260 - Sub Pace PA	MS, MSD
MW-09S (AS17042)	1 WEEK 07-20-15	07/06/2015 14:30	Water	EPA 8260	8260 - Sub Pace PA	
MW-10S (AS17043)	1 WEEK 07-20-15	07/06/2015 13:45	Water	EPA 8260	8260 - Sub Pace PA	
TRIP BLANK (AS17044)	1 WEEK 07-20-15	07/06/2015	Water	EPA 8260	8260 - Sub Pace PA	

[1]The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6]Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

Subcontract Analysis

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 16, 2015

Nicole Johnson
Pace Analytical New York
2190 Technology Drive
Schenectady, NY 12308

4

RE: Project: 15070234
Pace Project No.: 30152660

Dear Nicole Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was reissued to correct the analyte list for sample 003.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
Project Manager

Enclosures

cc: Jill Grygas, Pace Analytical New York

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 15070234
Pace Project No.: 30152660

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 15070234
Pace Project No.: 30152660

Method: **EPA 8260C**
Description: 8260C MSV
Client: Pace Analytical Services, Inc.
Date: July 16, 2015

General Information:
7 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-01 **Lab ID: 30152660001** Collected: 07/06/15 11:50 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		07/14/15 14:23	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 14:23	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 14:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 14:23	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 14:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 14:23	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 14:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 14:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 14:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 14:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 14:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 14:23	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 14:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:23	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 14:23	107-06-2	
1,2-Dichloroethene (Total)	**136**	ug/L	2.0	1		07/14/15 14:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 14:23	75-35-4	
cis-1,2-Dichloroethene	**135**	ug/L	1.0	1		07/14/15 14:23	156-59-2	
trans-1,2-Dichloroethene	**1.6**	ug/L	1.0	1		07/14/15 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 14:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 14:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 14:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/14/15 14:23	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 14:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 14:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 14:23	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 14:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 14:23	79-34-5	
Tetrachloroethene	**18.7**	ug/L	1.0	1		07/14/15 14:23	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 14:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/15 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 14:23	79-00-5	
Trichloroethene	**6.8**	ug/L	1.0	1		07/14/15 14:23	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/14/15 14:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 14:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 14:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 14:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	84-113	1		07/14/15 14:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	84-124	1		07/14/15 14:23	17060-07-0	
Toluene-d8 (S)	97	%	79-118	1		07/14/15 14:23	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-02S **Lab ID: 30152660002** Collected: 07/06/15 13:00 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		07/14/15 13:32	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 13:32	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 13:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 13:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 13:32	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 13:32	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 13:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 13:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 13:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 13:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 13:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 13:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 13:32	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/14/15 13:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 13:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 13:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/14/15 13:32	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 13:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 13:32	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 13:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 13:32	79-34-5	
Tetrachloroethene	**6.4**	ug/L	1.0	1		07/14/15 13:32	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 13:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/15 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 13:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/14/15 13:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/14/15 13:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 13:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 13:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 13:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		07/14/15 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		07/14/15 13:32	17060-07-0	
Toluene-d8 (S)	97	%	79-118	1		07/14/15 13:32	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-09S **Lab ID: 30152660003** Collected: 07/06/15 14:30 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	**72.4**	ug/L	10.0	1		07/14/15 15:15	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 15:15	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 15:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 15:15	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 15:15	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 15:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 15:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 15:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 15:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 15:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 15:15	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 15:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 15:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 15:15	107-06-2	
1,2-Dichloroethene (Total)	**699**	ug/L	2.0	1		07/14/15 15:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 15:15	75-35-4	
cis-1,2-Dichloroethene	**692**	ug/L	20.0	20		07/14/15 16:33	156-59-2	
trans-1,2-Dichloroethene	**7.2**	ug/L	1.0	1		07/14/15 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 15:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 15:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 15:15	100-41-4	
2-Hexanone	**46.0**	ug/L	10.0	1		07/14/15 15:15	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 15:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 15:15	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 15:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 15:15	79-34-5	
Tetrachloroethene	**95.0**	ug/L	1.0	1		07/14/15 15:15	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 15:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/15 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 15:15	79-00-5	
Trichloroethene	**34.3**	ug/L	1.0	1		07/14/15 15:15	79-01-6	
Vinyl chloride	**19.1**	ug/L	1.0	1		07/14/15 15:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 15:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 15:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 15:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	84-113	1		07/14/15 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	84-124	1		07/14/15 15:15	17060-07-0	
Toluene-d8 (S)	98	%	79-118	1		07/14/15 15:15	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-10S **Lab ID: 30152660004** Collected: 07/06/15 13:45 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		07/14/15 13:57	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 13:57	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 13:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 13:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 13:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 13:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 13:57	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 13:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 13:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 13:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 13:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 13:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 13:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 13:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:57	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/14/15 13:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 13:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 13:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/14/15 13:57	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 13:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 13:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 13:57	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 13:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 13:57	79-34-5	
Tetrachloroethene	**1.8**	ug/L	1.0	1		07/14/15 13:57	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 13:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:57	120-82-1	
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	1		07/14/15 13:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 13:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/14/15 13:57	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/14/15 13:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 13:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 13:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 13:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		07/14/15 13:57	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	84-124	1		07/14/15 13:57	17060-07-0	
Toluene-d8 (S)	101	%	79-118	1		07/14/15 13:57	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-01 Duplicate **Lab ID: 30152660005** Collected: 07/06/15 11:50 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		07/14/15 14:49	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 14:49	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 14:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 14:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 14:49	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 14:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 14:49	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 14:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 14:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 14:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 14:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 14:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 14:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 14:49	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 14:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 14:49	107-06-2	
1,2-Dichloroethene (Total)	**143**	ug/L	2.0	1		07/14/15 14:49	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 14:49	75-35-4	
cis-1,2-Dichloroethene	**142**	ug/L	1.0	1		07/14/15 14:49	156-59-2	
trans-1,2-Dichloroethene	**1.6**	ug/L	1.0	1		07/14/15 14:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 14:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 14:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 14:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 14:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/14/15 14:49	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 14:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 14:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 14:49	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 14:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 14:49	79-34-5	
Tetrachloroethene	**19.8**	ug/L	1.0	1		07/14/15 14:49	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 14:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 14:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/15 14:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 14:49	79-00-5	
Trichloroethene	**7.3**	ug/L	1.0	1		07/14/15 14:49	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/14/15 14:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 14:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 14:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 14:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		07/14/15 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	84-124	1		07/14/15 14:49	17060-07-0	
Toluene-d8 (S)	100	%	79-118	1		07/14/15 14:49	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: MW-02S MS/MSD **Lab ID: 30152660006** Collected: 07/06/15 13:00 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	**11.6**	ug/L	10.0	1		07/14/15 15:41	67-64-1	
Benzene	**16.8**	ug/L	1.0	1		07/14/15 15:41	71-43-2	
Bromochloromethane	**15.2**	ug/L	1.0	1		07/14/15 15:41	74-97-5	
Bromodichloromethane	**16.1**	ug/L	1.0	1		07/14/15 15:41	75-27-4	
Bromoform	**13.6**	ug/L	1.0	1		07/14/15 15:41	75-25-2	
Bromomethane	**16.2**	ug/L	1.0	1		07/14/15 15:41	74-83-9	
2-Butanone (MEK)	**14.1**	ug/L	10.0	1		07/14/15 15:41	78-93-3	
Carbon disulfide	**23.1**	ug/L	1.0	1		07/14/15 15:41	75-15-0	
Carbon tetrachloride	**17.1**	ug/L	1.0	1		07/14/15 15:41	56-23-5	
Chlorobenzene	**16.0**	ug/L	1.0	1		07/14/15 15:41	108-90-7	
Chloroethane	**18.0**	ug/L	1.0	1		07/14/15 15:41	75-00-3	
Chloroform	**14.9**	ug/L	1.0	1		07/14/15 15:41	67-66-3	
Chloromethane	**15.4**	ug/L	1.0	1		07/14/15 15:41	74-87-3	
Dibromochloromethane	**14.3**	ug/L	1.0	1		07/14/15 15:41	124-48-1	
1,2-Dichlorobenzene	**15.7**	ug/L	1.0	1		07/14/15 15:41	95-50-1	
1,3-Dichlorobenzene	**15.6**	ug/L	1.0	1		07/14/15 15:41	541-73-1	
1,4-Dichlorobenzene	**15.4**	ug/L	1.0	1		07/14/15 15:41	106-46-7	
1,1-Dichloroethane	**15.4**	ug/L	1.0	1		07/14/15 15:41	75-34-3	
1,2-Dichloroethane	**15.3**	ug/L	1.0	1		07/14/15 15:41	107-06-2	
1,2-Dichloroethene (Total)	**30.9**	ug/L	2.0	1		07/14/15 15:41	540-59-0	
1,1-Dichloroethene	**14.7**	ug/L	1.0	1		07/14/15 15:41	75-35-4	
cis-1,2-Dichloroethene	**15.2**	ug/L	1.0	1		07/14/15 15:41	156-59-2	
trans-1,2-Dichloroethene	**15.7**	ug/L	1.0	1		07/14/15 15:41	156-60-5	
1,2-Dichloropropane	**16.1**	ug/L	1.0	1		07/14/15 15:41	78-87-5	
cis-1,3-Dichloropropene	**15.0**	ug/L	1.0	1		07/14/15 15:41	10061-01-5	
trans-1,3-Dichloropropene	**15.2**	ug/L	1.0	1		07/14/15 15:41	10061-02-6	
Ethylbenzene	**16.4**	ug/L	1.0	1		07/14/15 15:41	100-41-4	
2-Hexanone	**15.0**	ug/L	10.0	1		07/14/15 15:41	591-78-6	
Methylene Chloride	**13.8**	ug/L	1.0	1		07/14/15 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**16.2**	ug/L	10.0	1		07/14/15 15:41	108-10-1	
Methyl-tert-butyl ether	**21.0**	ug/L	1.0	1		07/14/15 15:41	1634-04-4	
Styrene	**16.9**	ug/L	1.0	1		07/14/15 15:41	100-42-5	
1,1,2,2-Tetrachloroethane	**15.8**	ug/L	1.0	1		07/14/15 15:41	79-34-5	
Tetrachloroethene	**22.6**	ug/L	1.0	1		07/14/15 15:41	127-18-4	
Toluene	**16.7**	ug/L	1.0	1		07/14/15 15:41	108-88-3	
1,2,4-Trichlorobenzene	**15.0**	ug/L	1.0	1		07/14/15 15:41	120-82-1	
1,1,1-Trichloroethane	**15.5**	ug/L	1.0	1		07/14/15 15:41	71-55-6	
1,1,2-Trichloroethane	**15.8**	ug/L	1.0	1		07/14/15 15:41	79-00-5	
Trichloroethene	**16.2**	ug/L	1.0	1		07/14/15 15:41	79-01-6	
Vinyl chloride	**16.2**	ug/L	1.0	1		07/14/15 15:41	75-01-4	
Xylene (Total)	**49.8**	ug/L	3.0	1		07/14/15 15:41	1330-20-7	
m&p-Xylene	**33.7**	ug/L	2.0	1		07/14/15 15:41	179601-23-1	
o-Xylene	**16.0**	ug/L	1.0	1		07/14/15 15:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	84-113	1		07/14/15 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	84-124	1		07/14/15 15:41	17060-07-0	
Toluene-d8 (S)	100	%	79-118	1		07/14/15 15:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 15070234
Pace Project No.: 30152660

Sample: Trip Blank **Lab ID: 30152660007** Collected: 07/06/15 00:00 Received: 07/07/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		07/14/15 13:06	67-64-1	
Benzene	ND	ug/L	1.0	1		07/14/15 13:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		07/14/15 13:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/14/15 13:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/14/15 13:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		07/14/15 13:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/14/15 13:06	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		07/14/15 13:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		07/14/15 13:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/14/15 13:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/14/15 13:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/14/15 13:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/14/15 13:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/14/15 13:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/14/15 13:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		07/14/15 13:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/14/15 13:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/14/15 13:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/14/15 13:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		07/14/15 13:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/14/15 13:06	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		07/14/15 13:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/14/15 13:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/14/15 13:06	1634-04-4	
Styrene	ND	ug/L	1.0	1		07/14/15 13:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/14/15 13:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/14/15 13:06	127-18-4	
Toluene	ND	ug/L	1.0	1		07/14/15 13:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/14/15 13:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/14/15 13:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/14/15 13:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/14/15 13:06	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/14/15 13:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		07/14/15 13:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/14/15 13:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/14/15 13:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	84-113	1		07/14/15 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		07/14/15 13:06	17060-07-0	
Toluene-d8 (S)	99	%	79-118	1		07/14/15 13:06	2037-26-5	

4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070234
Pace Project No.: 30152660

QC Batch: MSV/24178 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30152660001, 30152660002, 30152660003, 30152660004, 30152660005, 30152660006, 30152660007

METHOD BLANK: 921833 Matrix: Water
Associated Lab Samples: 30152660001, 30152660002, 30152660003, 30152660004, 30152660005, 30152660006, 30152660007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/14/15 12:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/14/15 12:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/14/15 12:40	
1,1-Dichloroethane	ug/L	ND	1.0	07/14/15 12:40	
1,1-Dichloroethene	ug/L	ND	1.0	07/14/15 12:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/14/15 12:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/14/15 12:40	
1,2-Dichloroethane	ug/L	ND	1.0	07/14/15 12:40	
1,2-Dichloropropane	ug/L	ND	1.0	07/14/15 12:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/14/15 12:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/14/15 12:40	
2-Butanone (MEK)	ug/L	ND	10.0	07/14/15 12:40	
2-Hexanone	ug/L	ND	10.0	07/14/15 12:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/14/15 12:40	
Acetone	ug/L	ND	10.0	07/14/15 12:40	
Benzene	ug/L	ND	1.0	07/14/15 12:40	
Bromochloromethane	ug/L	ND	1.0	07/14/15 12:40	
Bromodichloromethane	ug/L	ND	1.0	07/14/15 12:40	
Bromoform	ug/L	ND	1.0	07/14/15 12:40	
Bromomethane	ug/L	ND	1.0	07/14/15 12:40	
Carbon disulfide	ug/L	ND	1.0	07/14/15 12:40	
Carbon tetrachloride	ug/L	ND	1.0	07/14/15 12:40	
Chlorobenzene	ug/L	ND	1.0	07/14/15 12:40	
Chloroethane	ug/L	ND	1.0	07/14/15 12:40	
Chloroform	ug/L	ND	1.0	07/14/15 12:40	
Chloromethane	ug/L	ND	1.0	07/14/15 12:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/14/15 12:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/14/15 12:40	
Dibromochloromethane	ug/L	ND	1.0	07/14/15 12:40	
Ethylbenzene	ug/L	ND	1.0	07/14/15 12:40	
m&p-Xylene	ug/L	ND	2.0	07/14/15 12:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/14/15 12:40	
Methylene Chloride	ug/L	ND	1.0	07/14/15 12:40	
o-Xylene	ug/L	ND	1.0	07/14/15 12:40	
Styrene	ug/L	ND	1.0	07/14/15 12:40	
Tetrachloroethene	ug/L	ND	1.0	07/14/15 12:40	
Toluene	ug/L	ND	1.0	07/14/15 12:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/14/15 12:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/14/15 12:40	
Trichloroethene	ug/L	ND	1.0	07/14/15 12:40	
Vinyl chloride	ug/L	ND	1.0	07/14/15 12:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070234
Pace Project No.: 30152660

METHOD BLANK: 921833 Matrix: Water
Associated Lab Samples: 30152660001, 30152660002, 30152660003, 30152660004, 30152660005, 30152660006, 30152660007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	ND	3.0	07/14/15 12:40	
1,2-Dichloroethane-d4 (S)	%	104	84-124	07/14/15 12:40	
4-Bromofluorobenzene (S)	%	100	84-113	07/14/15 12:40	
Toluene-d8 (S)	%	98	79-118	07/14/15 12:40	

LABORATORY CONTROL SAMPLE: 921834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.5	87	62-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	92	74-115	
1,1,2-Trichloroethane	ug/L	20	17.4	87	73-121	
1,1-Dichloroethane	ug/L	20	16.9	84	64-125	
1,1-Dichloroethene	ug/L	20	16.8	84	58-126	
1,2,4-Trichlorobenzene	ug/L	20	18.5	92	72-136	
1,2-Dichlorobenzene	ug/L	20	18.3	91	76-117	
1,2-Dichloroethane	ug/L	20	17.1	86	66-124	
1,2-Dichloropropane	ug/L	20	17.4	87	66-119	
1,3-Dichlorobenzene	ug/L	20	18.1	91	73-116	
1,4-Dichlorobenzene	ug/L	20	17.6	88	75-119	
2-Butanone (MEK)	ug/L	20	17.8	89	69-126	
2-Hexanone	ug/L	20	16.5	83	53-118	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.2	86	68-124	
Acetone	ug/L	20	11.7	58	56-142	
Benzene	ug/L	20	17.7	89	69-123	
Bromochloromethane	ug/L	20	16.1	80	61-133	
Bromodichloromethane	ug/L	20	18.3	92	64-120	
Bromoform	ug/L	20	15.9	80	56-133	
Bromomethane	ug/L	20	17.2	86	19-151	
Carbon disulfide	ug/L	20	21.7	108	53-173	
Carbon tetrachloride	ug/L	20	19.3	97	52-133	
Chlorobenzene	ug/L	20	17.2	86	72-121	
Chloroethane	ug/L	20	16.6	83	53-143	
Chloroform	ug/L	20	17.2	86	63-123	
Chloromethane	ug/L	20	15.8	79	48-139	
cis-1,2-Dichloroethene	ug/L	20	15.8	79	63-123	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	65-121	
Dibromochloromethane	ug/L	20	16.6	83	58-132	
Ethylbenzene	ug/L	20	17.7	88	70-123	
m&p-Xylene	ug/L	40	36.0	90	71-124	
Methyl-tert-butyl ether	ug/L	20	21.0	105	69-133	
Methylene Chloride	ug/L	20	14.8	74	55-134	
o-Xylene	ug/L	20	17.4	87	69-118	
Styrene	ug/L	20	18.4	92	66-126	
Tetrachloroethene	ug/L	20	17.9	89	62-131	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070234
Pace Project No.: 30152660

LABORATORY CONTROL SAMPLE: 921834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	17.9	89	73-123	
trans-1,2-Dichloroethene	ug/L	20	16.1	80	61-124	
trans-1,3-Dichloropropene	ug/L	20	17.1	86	70-111	
Trichloroethene	ug/L	20	16.8	84	66-125	
Vinyl chloride	ug/L	20	14.9	74	58-131	
Xylene (Total)	ug/L	60	53.5	89	70-123	
1,2-Dichloroethane-d4 (S)	%			105	84-124	
4-Bromofluorobenzene (S)	%			97	84-113	
Toluene-d8 (S)	%			96	79-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 921835 921836

Parameter	Units	30152660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	15.5	15.9	77	79	62-130	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.8	16.4	79	82	74-115	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	15.8	15.8	79	79	73-121	0	
1,1-Dichloroethane	ug/L	ND	20	20	15.4	14.8	77	74	64-125	4	
1,1-Dichloroethene	ug/L	ND	20	20	14.7	15.3	74	77	58-126	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.0	15.9	75	79	72-136	6	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.7	16.6	79	83	76-117	6	
1,2-Dichloroethane	ug/L	ND	20	20	15.3	15.6	77	78	66-124	2	
1,2-Dichloropropane	ug/L	ND	20	20	16.1	15.9	81	80	66-119	1	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.6	16.3	78	81	73-116	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.4	16.0	77	80	75-119	4	
2-Butanone (MEK)	ug/L	ND	20	20	14.1	14.9	70	74	69-126	5	
2-Hexanone	ug/L	ND	20	20	15.0	16.3	75	81	53-118	8	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.2	16.9	81	84	68-124	4	
Acetone	ug/L	ND	20	20	11.6	12.6	58	63	56-142	9	
Benzene	ug/L	ND	20	20	16.8	16.5	84	82	69-123	2	
Bromochloromethane	ug/L	ND	20	20	15.2	15.8	76	79	61-133	4	
Bromodichloromethane	ug/L	ND	20	20	16.1	16.4	80	82	64-120	2	
Bromoform	ug/L	ND	20	20	13.6	13.8	68	69	56-133	2	
Bromomethane	ug/L	ND	20	20	16.2	16.8	81	84	19-151	4	
Carbon disulfide	ug/L	ND	20	20	23.1	21.8	115	109	53-173	6	
Carbon tetrachloride	ug/L	ND	20	20	17.1	16.8	86	84	52-133	2	
Chlorobenzene	ug/L	ND	20	20	16.0	16.3	80	81	72-121	2	
Chloroethane	ug/L	ND	20	20	18.0	17.6	90	88	53-143	2	
Chloroform	ug/L	ND	20	20	14.9	15.8	74	79	63-123	6	
Chloromethane	ug/L	ND	20	20	15.4	15.2	77	76	48-139	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	15.2	15.8	74	77	63-123	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.0	15.1	75	76	65-121	1	
Dibromochloromethane	ug/L	ND	20	20	14.3	14.6	72	73	58-132	2	
Ethylbenzene	ug/L	ND	20	20	16.4	16.6	82	83	70-123	1	
m&p-Xylene	ug/L	ND	40	40	33.7	33.9	84	85	71-124	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 15070234
Pace Project No.: 30152660

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 921835 921836

Parameter	Units	30152660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methyl-tert-butyl ether	ug/L	ND	20	20	21.0	20.0	105	100	69-133	5	
Methylene Chloride	ug/L	ND	20	20	13.8	14.5	69	72	55-134	5	
o-Xylene	ug/L	ND	20	20	16.0	16.2	80	81	69-118	1	
Styrene	ug/L	ND	20	20	16.9	16.7	85	83	66-126	2	
Tetrachloroethene	ug/L	6.4	20	20	22.6	23.4	81	85	62-131	4	
Toluene	ug/L	ND	20	20	16.7	16.5	84	82	73-123	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.7	16.1	79	80	61-124	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.2	15.3	76	76	70-111	0	
Trichloroethene	ug/L	ND	20	20	16.2	16.0	78	77	66-125	1	
Vinyl chloride	ug/L	ND	20	20	16.2	15.7	81	79	58-131	3	
Xylene (Total)	ug/L	ND	60	60	49.8	50.0	83	83	70-123	1	
1,2-Dichloroethane-d4 (S)	%						107	101	84-124		
4-Bromofluorobenzene (S)	%						98	98	84-113		
Toluene-d8 (S)	%						100	98	79-118		

4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 15070234
Pace Project No.: 30152660

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15070234
Pace Project No.: 30152660

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30152660001	**MW-01**	EPA 8260C	MSV/24178		
30152660002	**MW-02S**	EPA 8260C	MSV/24178		
30152660003	**MW-09S**	EPA 8260C	MSV/24178		
30152660004	**MW-10S**	EPA 8260C	MSV/24178		
30152660005	**MW-01 Duplicate**	EPA 8260C	MSV/24178		
30152660006	**MW-02S MS/MSD**	EPA 8260C	MSV/24178		
30152660007	**Trip Blank**	EPA 8260C	MSV/24178		

4

WO#:30152660

30152660

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1701029

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	GeoLogic NY Inc.	Report To:	Same	Attention:	Same
Address:	PO Box 350	Copy To:	Susan Cummins	Company Name:	
	Homer NY 13077			Address:	
Email To:	geologicny@geologic.net	Purchase Order No.:	209183	Pace Quote Reference:	
Phone:	607 749 5000 Fax:	Project Name:	Ash Road Properties	Pace Project Manager:	
Requested Due Date/TAT:	7-20-15	Project Number:	209183	Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [x] GROUND WATER
- [ ] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N: EPA 8260 TCL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			7-6-15	1100		3				X					X		001
2	MW-02.5	WT	G			7-6-15	1300		3				X					X		002
3	MW-09S	WT	G			7-6-15	1430		3				X					X		003
4	MW-10S	WT	G			7-6-15	1348		3				X					X		004
5	MW-01 Duplicate	WT	G			7-6-15	1130		3				X					X		005
6	MW-02S MS/MSD	WT	G			7-6-15	1300		3				X					X		006
7	Trip Blank	WT	G			7-6-15			2				X					X	-	007
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Susan Cummins	7-6-15	1650	Phil Flin / PACE	7/6/15	1650				
	Phil Flin / PACE	7/6/15	1700	[illegible signature]	7/7/15	1000	2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins

SIGNATURE of SAMPLER: Susan Cummins

DATE Signed (MM/DD/YY): 7-6-15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Page 17 of 19

JJL

30152660

Sample Condition Upon Receipt

Pace Analytical

Client Name: GeoLogic NY Inc Project #

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 773989709320

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap ___ Bubble Bags X None ___ Other

Thermometer Used #6 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.6 °C Correction Factor: -0.2 °C Final Temp: 2.4 °C

Date and Initials of person examining contents: 7/15 JL

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes	☐No	☐N/A	12.
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes ☑Yes	☐No ☐No	☑N/A	Initial when completed JL Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ___ Date/Time: ___

Comments/ Resolution: ___

Project Manager Review: Samantha D Bary **Date:** 7/8/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

J:\QAQC\Master\Document Management\Sample Mgt\SCURF\FALLC003-09 SCUR Front 3/March2015

30152660

page 2

Project Number:

Client Name: Geo Logic NY

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil Kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear /filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal / 1 gal.L)	Sublainer (500 ml / 4L)	Ziploc	Other	Other	Other
001	WT													3											
006	WT													3											
007	WT													2											

SCURF Rack (2016-4 15Mar2012).xls

4

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 31, 2015

Ms. Susan Cummins
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Dear Ms. Cummins:
Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Pace Analytical Services, Inc., 575 Broad Hollow Road, Melville NY 11747 for Methane analysis. Results of the analysis are reported on the Pace Analytical, New York data tables.

The samples were subcontracted to Brooks Rond,3958 Sixth Ave. North West, Seattle WA 98107 for Ferrous Iron analysis. Results of the analysis are reported on the Brooks Rond data tables.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

Enclosures

cc: Chris Gabriel, Geologic NY
Geologic NY Inc., Geologic NY

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30152657001	**MW-01**	SM 5210B	KAS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		ASTM D516-90,02	BMS	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30152657002	**MW-02S**	EPA 6010C	CTS	1	PASI-PA
		SM 5210B	KAS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		ASTM D516-90,02	BMS	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30152657003	**MW-09S**	EPA 6010C	CTS	1	PASI-PA
		SM 5210B	KAS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		ASTM D516-90,02	BMS	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30152657004	**MW-10S**	SM 5210B	KAS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		ASTM D516-90,02	BMS	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Geologic NY
Date: July 31, 2015

General Information:
2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Method: **SM 5210B**
Description: 5210B BOD, 5 day
Client: Geologic NY
Date: July 31, 2015

General Information:
4 samples were analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM 5210B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Method: **SM 4500-Cl-E**
Description: 4500 Chloride
Client: Geologic NY
Date: July 31, 2015

General Information:
4 samples were analyzed for SM 4500-Cl-E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Method: **ASTM D516-90,02**
Description: ASTM D516-90, 02 Sulfate Water
Client: Geologic NY
Date: July 31, 2015

General Information:
4 samples were analyzed for ASTM D516-90,02. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/20563

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30152631001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 920405)
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Method: **SM 4500-NO2 B**
Description: SM4500NO2-B, Nitrite, unpres
Client: Geologic NY
Date: July 31, 2015

General Information:
4 samples were analyzed for SM 4500-NO2 B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Sample: MW-01 **Lab ID: 30152657001** Collected: 07/06/15 11:50 Received: 07/07/15 10:00 Matrix: Water
Comments: • Preseved 250mL chem w/ H2SO4 for nutrient testing, 7/715 @ 12:00

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	ND	mg/L	6.0	1	07/08/15 08:35	07/13/15 21:40		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**555**	mg/L	60.0	20		07/09/15 11:03	16887-00-6	
ASTM D516-90, 02 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**45.2**	mg/L	10.0	1		07/09/15 21:56	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		07/07/15 19:23	14797-65-0	

Sample: MW-02S **Lab ID: 30152657002** Collected: 07/06/15 13:00 Received: 07/07/15 10:00 Matrix: Water
Comments: • Preseved 250mL chem w/ H2SO4 for nutrient testing, 7/715 @ 12:00

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Manganese	**6.7**	ug/L	5.0	1	07/08/15 16:30	07/09/15 08:09	7439-96-5	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	ND	mg/L	6.0	1	07/08/15 08:38	07/13/15 21:40		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**581**	mg/L	60.0	20		07/09/15 11:03	16887-00-6	
ASTM D516-90, 02 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**24.2**	mg/L	10.0	1		07/09/15 21:57	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		07/07/15 19:25	14797-65-0	

Sample: MW-09S **Lab ID: 30152657003** Collected: 07/06/15 14:30 Received: 07/07/15 10:00 Matrix: Water
Comments: • Preseved 250mL chem w/ H2SO4 for nutrient testing, 7/715 @ 12:00

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Manganese	**21200**	ug/L	5.0	1	07/08/15 16:30	07/09/15 08:12	7439-96-5	
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**77.3**	mg/L	60.0	1	07/08/15 08:40	07/13/15 21:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Sample: MW-09S **Lab ID: 30152657003** Collected: 07/06/15 14:30 Received: 07/07/15 10:00 Matrix: Water
Comments: • Preseved 250mL chem w/ H2SO4 for nutrient testing, 7/715 @ 12:00

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**992**	mg/L	60.0	20		07/09/15 11:04	16887-00-6	
ASTM D516-90, 02 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**82.7**	mg/L	10.0	1		07/09/15 21:58	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		07/07/15 19:26	14797-65-0	

Sample: MW-10S **Lab ID: 30152657004** Collected: 07/06/15 13:45 Received: 07/07/15 10:00 Matrix: Water
Comments: • Preseved 250mL chem w/ H2SO4 for nutrient testing, 7/715 @ 12:00

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	ND	mg/L	6.0	1	07/08/15 08:42	07/13/15 21:40		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**741**	mg/L	60.0	20		07/09/15 11:05	16887-00-6	
ASTM D516-90, 02 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**35.4**	mg/L	10.0	1		07/09/15 21:59	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		07/07/15 19:26	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

QC Batch: MPRP/15943 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET
Associated Lab Samples: 30152657002, 30152657003

METHOD BLANK: 919393 Matrix: Water
Associated Lab Samples: 30152657002, 30152657003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	ug/L	ND	5.0	07/09/15 07:53	

LABORATORY CONTROL SAMPLE: 919394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 919396 919397

Parameter	Units	30152603001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese	ug/L	16.6	500	500	517	512	100	99	75-125	1	

SAMPLE DUPLICATE: 919395

Parameter	Units	30152603001 Result	Dup Result	RPD	Qualifiers
Manganese	ug/L	16.6	15.4	7	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

QC Batch: WET/29088 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

METHOD BLANK: 919492 Matrix: Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/13/15 21:40	

LABORATORY CONTROL SAMPLE: 919493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	201	102	84.6-115.4	

SAMPLE DUPLICATE: 919494

Parameter	Units	30152761006 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

QC Batch: WETA/20546 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

METHOD BLANK: 919612 Matrix: Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	3.0	07/09/15 10:58	

METHOD BLANK: 919616 Matrix: Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	3.0	07/09/15 10:59	

LABORATORY CONTROL SAMPLE: 919613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	40	40.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 919614 919615

Parameter	Units	30152631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	9.6	20	20	30.4	30.2	104	103	85-115	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

QC Batch: WETA/20563 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-90, 02 Sulfate Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

METHOD BLANK: 920403 Matrix: Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	10.0	07/09/15 21:52	

LABORATORY CONTROL SAMPLE: 920404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	30	28.0	93	85-115	

MATRIX SPIKE SAMPLE: 920405

Parameter	Units	30152631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16.7	20	30.1	67	85-115	M1

SAMPLE DUPLICATE: 920411

Parameter	Units	30152631001 Result	Dup Result	RPD	Qualifiers
Sulfate	mg/L	16.7	17.6	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

QC Batch: WETA/20529 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

METHOD BLANK: 918709 Matrix: Water
Associated Lab Samples: 30152657001, 30152657002, 30152657003, 30152657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	07/07/15 19:18	

LABORATORY CONTROL SAMPLE: 918710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.1	0.096	96	90-110	

MATRIX SPIKE SAMPLE: 918712

Parameter	Units	30152657004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	ND	.1	0.10	103	85-115	

SAMPLE DUPLICATE: 918711

Parameter	Units	30152657004 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ASH ROAD PROPERTIES
Pace Project No.: 30152657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30152657002	**MW-02S**	EPA 3005A	MPRP/15943	EPA 6010C	ICP/15122
30152657003	**MW-09S**	EPA 3005A	MPRP/15943	EPA 6010C	ICP/15122
30152657001	**MW-01**	SM 5210B	WET/29088	SM 5210B	WET/29153
30152657002	**MW-02S**	SM 5210B	WET/29088	SM 5210B	WET/29153
30152657003	**MW-09S**	SM 5210B	WET/29088	SM 5210B	WET/29153
30152657004	**MW-10S**	SM 5210B	WET/29088	SM 5210B	WET/29153
30152657001	**MW-01**	SM 4500-Cl-E	WETA/20546		
30152657002	**MW-02S**	SM 4500-Cl-E	WETA/20546		
30152657003	**MW-09S**	SM 4500-Cl-E	WETA/20546		
30152657004	**MW-10S**	SM 4500-Cl-E	WETA/20546		
30152657001	**MW-01**	ASTM D516-90,02	WETA/20563		
30152657002	**MW-02S**	ASTM D516-90,02	WETA/20563		
30152657003	**MW-09S**	ASTM D516-90,02	WETA/20563		
30152657004	**MW-10S**	ASTM D516-90,02	WETA/20563		
30152657001	**MW-01**	SM 4500-NO2 B	WETA/20529		
30152657002	**MW-02S**	SM 4500-NO2 B	WETA/20529		
30152657003	**MW-09S**	SM 4500-NO2 B	WETA/20529		
30152657004	**MW-10S**	SM 4500-NO2 B	WETA/20529		

WO#:30152657

30152657

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1700640

Section C
Invoice Information:

Company: GeoLogic NY Inc	Report To: Same	Attention: Same	
Address: PO Box 350 Homer NY 13077	Copy To: Susan Cummins	Company Name:	REGULATORY AGENCY
Email To: Geologicny@geologic.net	Purchase Order No.: 209183	Address:	NPDES / GROUND WATER / DRINKING WATER
Phone: 607-749-5000 Fax:	Project Name: Ash Road Properties	Pace Quote Reference:	UST / RCRA / OTHER
Requested Due Date/TAT: 7-20-15	Project Number: 209183	Pace Project Manager:	Site Location STATE: NY
		Pace Profile #:	

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BOD	Methane	Sulfate	Chloride	Nitrite	Manganese	Iron	Dissolved Ferrous Iron	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			7-6-15	1150		6	✓		✓	✓						X	X	X	X	X		X		001
2	MW-02S	WT	G			7-6-15	1300		7	✓		✓	✓						X	X	X	X	X	X	X		002
3	MW-09S	WT	G			7-6-15	1430		7	✓		✓	✓						X	X	X	X	X	X	X		003
4	MW-10S	WT	G			7-6-15	1345		5	✓		✓	✓						X	X	X	X	X		X		004
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Susan Cummins	7-6-15	1650	Phil Flynn / PACE	7/6/15	1650				
	Phil Flynn / PACE	7/6/15	1700	[signature] PACE	7/7/15	1000	2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins

SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 7-6-15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

30152657

Sample Condition Upon Receipt

Pace Analytical

Client Name: Geologic-NY Project # _____

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 773989709320

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap ___ Bubble Bags ✓ None ___ Other _____

Thermometer Used 6 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.6 °C Correction Factor: 0.2 °C Final Temp: 2.4 °C

Date and Initials of person examining contents: VEW 7/7/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WA		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. Preserved 250 Chems for nutrient testing. 7/7/15 1200 2ml 1:250 each
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	Initial when completed VEW Lot # of added preservative 040615-2AGK
exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Samantha Bergen **Date:** 7/8/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

30152657

Pace Analytical

page 2

Project Number: ____________________

Client Name: Geologic-NY

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / (1L))	Organics (1L)	Nutrient ((250) / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT			1		1																		
002	↓			↓		↓				1														
003										1														
004																								

SCURF Back (C016-4 15May2012).xls

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 7/6/2015 11:50:00 AM
Received : 7/7/2015 10:45:00 AM
Collected By : SC99

Lab No. : 1507341-001
Client Sample ID: MW-01

Ash Road Properties

Sample Information:
Type : Groundwater

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	2.8		1	µg/L		07/17/2015 12:07 PM	Container-01 of 02
Surr: Propene	126		1	%REC	Limit 21-187	07/17/2015 12:07 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/20/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 7/6/2015 1:00:00 PM
Received : 7/7/2015 10:45:00 AM
Collected By : SC99

Lab No. : 1507341-002
Client Sample ID: MW-02S

Ash Road Properties

Sample Information:
Type : Groundwater

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	15		1	µg/L		07/17/2015 12:30 PM	Container-01 of 02
Surr: Propene	124		1	%REC	Limit 21-187	07/17/2015 12:30 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/20/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 7/6/2015 2:30:00 PM
Received : 7/7/2015 10:45:00 AM
Collected By : SC99

Lab No. : 1507341-003
Client Sample ID: MW-09S

Ash Road Properties

Sample Information:
Type : Groundwater

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	6.0		1	µg/L		07/17/2015 12:59 PM	Container-01 of 02
Surr: Propene	126		1	%REC	Limit 21-187	07/17/2015 12:59 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/20/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Geologic NY
37 Copeland Avenue
Homer, NY 13077
Attn To : Project Manager
Collected : 7/6/2015 1:45:00 PM
Received : 7/7/2015 10:45:00 AM
Collected By : SC99

Lab No. : 1507341-004
Client Sample ID: MW-10S

Ash Road Properties

Sample Information:
Type : Groundwater

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	< 1.0		1	µg/L		07/17/2015 1:12 PM	Container-01 of 01
Surr: Propene	124		1	%REC	Limit 21-187	07/17/2015 1:12 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole Johnson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/20/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: DISSOLVED GASES **WorkOrder:** 1507341

Method: RSK-175_W **Lab Batch ID:** R79010

Method Blank

RunID: 79010 SeqNo 1724127 Units: µg/L

Analysis Date: 7/17/2015 11:16:26 AM Analyst: MaiN

Analyte	Result	Rep Limit	Rep Qual
Methane	< 1.0	1.0	
Surr: Propene	10	1.0	

Laboratory Control Sample (LCS/LFB)

RunID: 79010 SeqNo 1724128 Units: µg/L

Analysis Date: 7/17/2015 11:32:12 AM Analyst: MaiN

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Methane	5.320	5.2	97.2						22	166	
Surr: Propene	10.00	6.1	61.0						21	187	

NOTES:
Sample received not preserved to a pH < 2.

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
	S	Spike Recovery outside accepted recovery limits		

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **GEO** Date and Time Received: **7/7/2015 10:45:00 AM**

Work Order Number: **1507341** RcptNo: **1** Received by: **Linda Siciliano**

Completed by: Reviewed by: Nicole Johnson

Completed Date: 7/7/2015 12:39:15 PM Reviewed Date: 7/16/2015 3:37:02 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	3.7 º
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	808100374635					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1507341

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1700640

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GeoLogicNY Inc	Report To: Same	Attention: Same
Address: PO Box 350 Homer NY 13077	Copy To: Susan Cummins	Company Name:
		Address:
Email To: Geologicny@geologic.net	Purchase Order No.: 209183	Pace Quote Reference:
Phone: 607-749-5035 Fax:	Project Name: Ash Road Properties	Pace Project Manager:
Requested Due Date/TAT: 7-20-15	Project Number: 209183	Pace Profile #:

REGULATORY AGENCY

NPDES [X] GROUND WATER [ ] DRINKING WATER
UST [ ] RCRA [ ] OTHER ____

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: BOD	Hetmeric	Sulfate	Chloride	Nitrite	Manganese	Iron	Dissolved Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			7-6-15	1150		6	✓		✓	✓						X	X	X	X	X			X		1507341
2	MW-02S	WT	G			7-6-15	1320		7	✓		✓	✓						X	X	X	X	X	X		X		2x40ml-HCl
3	MW-09S	WT	G			7-6-15	1430		7	✓		✓	✓						X	X	X	X	X	X		X		↓
4	MW-10S	WT	G			7-6-15	1345		5	✓		✓	✓						X	X	X	X	X			X		1x40ml-HCl
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Susan Cummins	7-6-15	1650	Phil Flm / PACE	7/6/15	1650	
	Phil Flm / PACE	7/6/15	1700		7/7/15	0745	3.7

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins

SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 7-6-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Page 29 of 29

2081 0037 4635

July 7, 2015

Pace Analytical Services, Inc.
ATTN: Nicole Johnson
2190 Technology Drive
Schenectady, NY 12308
Nicole.johnson@pacelabs.com

RE: Project PAC-SN1501 Client Project: Geologic #209183

Dear Ms. Johnson,

On June 2, 2015, Brooks Rand Labs (BRL) received four (4) water samples. The samples were logged-in for the contracted analyses of dissolved ferrous iron [Fe(II)] and were field-filtered by the client. All samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

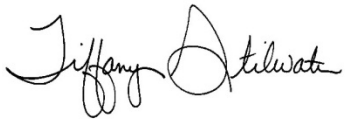
All Fe speciation results were not method blank-corrected in accordance to BRL SOPs. Sample results may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

No laboratory fortified blanks (BS) were available for the Fe(II) analysis. A conversion test BS was performed, though not reportable, and internal confirmed the analysis was not converting Fe(II) to Fe(III).

All data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,



Tiffany Stilwater
Client Services Manager
tiffany@brooksrand.com

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MW-01	1523004-01	Water	Sample	06/01/2015	06/02/2015
MW-02S	1523004-02	Water	Sample	06/01/2015	06/02/2015
MW-09S	1523004-03	Water	Sample	06/01/2015	06/02/2015
MW-10S	1523004-04	Water	Sample	06/01/2015	06/02/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Fe(II)	Water	SM 3500-Fe B mod.	06/02/2015	06/02/2015	B150821	1500428

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MW-01										
1523004-01	Fe(II)	Water	D	88.9		13.4	40.0	µg/L	B150821	1500428
MW-02S										
1523004-02	Fe(II)	Water	D	568.1		13.4	40.0	µg/L	B150821	1500428
MW-09S										
1523004-03	Fe(II)	Water	D	1106.5		13.4	40.0	µg/L	B150821	1500428
MW-10S										
1523004-04	Fe(II)	Water	D	79.0		13.4	40.0	µg/L	B150821	1500428

Project ID: PAC-SN1401
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Accuracy & Precision Summary

Batch: B150821
Lab Matrix: Water
Method: SM 3500-Fe B mod.

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150821-DUP1	**Duplicate (1523004-01)**						
	Fe(II)	88.9		108.7	µg/L		13% 25
B150821-MS1	**Matrix Spike (1523004-01)**						
	Fe(II)	88.9	200	301.3	µg/L	106% 75-125	
B150821-MSD1	**Matrix Spike Duplicate (1523004-01)**						
	Fe(II)	88.9	200	306.3	µg/L	108% 75-125	2% 25

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Method Blanks & Reporting Limits

Batch: B150821
Matrix: Water
Method: SM 3500-Fe B mod.
Analyte: Fe(II)

Sample	Result	Units
B150821-BLK1	0.0	µg/L
B150821-BLK2	0.0	µg/L
B150821-BLK3	0.0	µg/L
B150821-BLK4	0.0	µg/L
	Average: 0.0	
	Limit: 20.0	

Limit: 20.0

MDL: 6.7
MRL: 20.0

Project ID: PAC-SY1502
PM: Tiffany Stilwater

Client PM: Nicole Johnson

Sample Containers

Lab ID: 1523004-01
Sample: MW-01
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-02
Sample: MW-02S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-03
Sample: MW-09S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Lab ID: 1523004-04
Sample: MW-10S
Report Matrix: Water
Sample Type:
Collected: 06/01/2015
Received: 06/02/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vial Glass-SP	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler
B	EXTRA_VOL	50ml vial	14-0182	1.6ml 6N HCL(PP)	1503005	<2	cooler

Shipping Containers

cooler

Received: June 2, 2015 9:30
Tracking No: 806663905935 via FedEx
Coolant Type: Ice
Temperature: -1.2 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

BRL Report 1523004

Pace Analytical™
www.pacelabs.com

Page: of

Section A Required Client Information:

Company: PACE Analytical
Address: 575 Broad Hollow Rd
Melville, NY 11747
Email To: NICOLE.JOHNSON@PACELABS.COM
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To:
Copy To:
Purchase Order No.:
Project Name: GEOLOGIC #209183
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER________

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER NY

Filtered (Y/N)

Requested Analysis: ~~TOTAL COLIFORM~~, ~~FECAL COLIFORM~~, ~~SALMONELLA~~, Dissolved Ferrous Fe, Residual Chlorine (Y/N)

Section D Required Client Information

Valid Matrix Codes — MATRIX / CODE: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Na2SO4	Dissolved Ferrous Fe	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	MW-01					6/1	11:10		2				2	X		
2	MW-02S					↓	10:03		2				2	X		
3	MW-09S					↓	8:00		2				2	X		
4	MW-10S					↓	9:10		2				2	X		
5																
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] PACE	6/1/15	17:00	[signature] BRL	6/1/15	0930		Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

e-File(ALLQ020rev.4,29Mar06)22Jun2005

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 14, 2015

Ms. Susan Cummins
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Dear Ms. Cummins:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Chris Gabriel, Geologic NY
Geologic NY Inc., Geologic NY

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30155530001	**MW-01**	EPA 8260C	RES	46	PASI-PA
30155530002	**MW-02S**	EPA 8260C	RES	46	PASI-PA
30155530003	**MW-02S MS**	EPA 8260C	RES	46	PASI-PA
30155530004	**MW-02S MSD**	EPA 8260C	RES	46	PASI-PA
30155530005	**MW-10S**	EPA 8260C	RES	46	PASI-PA
30155530006	**MW-10S Duplicate**	EPA 8260C	RES	46	PASI-PA
30155530007	**MW-09**	EPA 8260C	RES	46	PASI-PA
30155530008	**Trip Blank**	EPA 8260C	RES	46	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Method: **EPA 8260C**
Description: 8260C MSV
Client: Geologic NY
Date: August 14, 2015

General Information:
8 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/24524

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30155530002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 935843)
  - cis-1,2-Dichloroethene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-01 **Lab ID: 30155530001** Collected: 08/05/15 11:40 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 15:12	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 15:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 15:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 15:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 15:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 15:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 15:12	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 15:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 15:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 15:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 15:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 15:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 15:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 15:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 15:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 15:12	107-06-2	
1,2-Dichloroethene (Total)	**92.7**	ug/L	2.0	1		08/11/15 15:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/15 15:12	75-35-4	
cis-1,2-Dichloroethene	**92.3**	ug/L	1.0	1		08/11/15 15:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 15:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 15:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 15:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 15:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 15:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/11/15 15:12	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 15:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 15:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 15:12	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 15:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 15:12	79-34-5	
Tetrachloroethene	**12.7**	ug/L	1.0	1		08/11/15 15:12	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 15:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 15:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 15:12	79-00-5	
Trichloroethene	**5.7**	ug/L	1.0	1		08/11/15 15:12	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/11/15 15:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 15:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 15:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 15:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		08/11/15 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		08/11/15 15:12	17060-07-0	
Toluene-d8 (S)	98	%	79-118	1		08/11/15 15:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-02S **Lab ID: 30155530002** Collected: 08/05/15 12:30 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 15:38	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 15:38	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 15:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 15:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 15:38	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 15:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 15:38	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 15:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 15:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 15:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 15:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 15:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 15:38	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 15:38	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:38	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 15:38	107-06-2	
1,2-Dichloroethene (Total)	**130**	ug/L	2.0	1		08/11/15 15:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/15 15:38	75-35-4	
cis-1,2-Dichloroethene	**130**	ug/L	1.0	1		08/11/15 15:38	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 15:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 15:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 15:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/11/15 15:38	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 15:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 15:38	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 15:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 15:38	79-34-5	
Tetrachloroethene	**372**	ug/L	10.0	10		08/11/15 19:03	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 15:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 15:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 15:38	79-00-5	
Trichloroethene	**87.0**	ug/L	1.0	1		08/11/15 15:38	79-01-6	
Vinyl chloride	**14.5**	ug/L	1.0	1		08/11/15 15:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 15:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 15:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 15:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	84-113	1		08/11/15 15:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		08/11/15 15:38	17060-07-0	
Toluene-d8 (S)	98	%	79-118	1		08/11/15 15:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-02S MS **Lab ID: 30155530003** Collected: 08/05/15 12:30 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	**12.4**	ug/L	10.0	1		08/11/15 17:21	67-64-1	
Benzene	**16.9**	ug/L	1.0	1		08/11/15 17:21	71-43-2	
Bromochloromethane	**17.1**	ug/L	1.0	1		08/11/15 17:21	74-97-5	
Bromodichloromethane	**17.2**	ug/L	1.0	1		08/11/15 17:21	75-27-4	
Bromoform	**14.4**	ug/L	1.0	1		08/11/15 17:21	75-25-2	
Bromomethane	**11.0**	ug/L	1.0	1		08/11/15 17:21	74-83-9	
2-Butanone (MEK)	**16.3**	ug/L	10.0	1		08/11/15 17:21	78-93-3	
Carbon disulfide	**22.4**	ug/L	1.0	1		08/11/15 17:21	75-15-0	
Carbon tetrachloride	**17.1**	ug/L	1.0	1		08/11/15 17:21	56-23-5	
Chlorobenzene	**17.5**	ug/L	1.0	1		08/11/15 17:21	108-90-7	
Chloroethane	**19.3**	ug/L	1.0	1		08/11/15 17:21	75-00-3	
Chloroform	**16.7**	ug/L	1.0	1		08/11/15 17:21	67-66-3	
Chloromethane	**19.8**	ug/L	1.0	1		08/11/15 17:21	74-87-3	
Dibromochloromethane	**16.5**	ug/L	1.0	1		08/11/15 17:21	124-48-1	
1,2-Dichlorobenzene	**16.2**	ug/L	1.0	1		08/11/15 17:21	95-50-1	
1,3-Dichlorobenzene	**16.5**	ug/L	1.0	1		08/11/15 17:21	541-73-1	
1,4-Dichlorobenzene	**16.8**	ug/L	1.0	1		08/11/15 17:21	106-46-7	
1,1-Dichloroethane	**17.1**	ug/L	1.0	1		08/11/15 17:21	75-34-3	
1,2-Dichloroethane	**16.1**	ug/L	1.0	1		08/11/15 17:21	107-06-2	
1,2-Dichloroethene (Total)	**165**	ug/L	2.0	1		08/11/15 17:21	540-59-0	
1,1-Dichloroethene	**18.1**	ug/L	1.0	1		08/11/15 17:21	75-35-4	
cis-1,2-Dichloroethene	**148**	ug/L	1.0	1		08/11/15 17:21	156-59-2	
trans-1,2-Dichloroethene	**17.6**	ug/L	1.0	1		08/11/15 17:21	156-60-5	
1,2-Dichloropropane	**16.7**	ug/L	1.0	1		08/11/15 17:21	78-87-5	
cis-1,3-Dichloropropene	**16.1**	ug/L	1.0	1		08/11/15 17:21	10061-01-5	
trans-1,3-Dichloropropene	**16.8**	ug/L	1.0	1		08/11/15 17:21	10061-02-6	
Ethylbenzene	**17.1**	ug/L	1.0	1		08/11/15 17:21	100-41-4	
2-Hexanone	**18.2**	ug/L	10.0	1		08/11/15 17:21	591-78-6	
Methylene Chloride	**13.9**	ug/L	1.0	1		08/11/15 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**16.2**	ug/L	10.0	1		08/11/15 17:21	108-10-1	
Methyl-tert-butyl ether	**20.3**	ug/L	1.0	1		08/11/15 17:21	1634-04-4	
Styrene	**17.9**	ug/L	1.0	1		08/11/15 17:21	100-42-5	
1,1,2,2-Tetrachloroethane	**16.5**	ug/L	1.0	1		08/11/15 17:21	79-34-5	
Tetrachloroethene	**605**	ug/L	10.0	10		08/11/15 17:46	127-18-4	
Toluene	**17.0**	ug/L	1.0	1		08/11/15 17:21	108-88-3	
1,2,4-Trichlorobenzene	**16.2**	ug/L	1.0	1		08/11/15 17:21	120-82-1	
1,1,1-Trichloroethane	**17.6**	ug/L	1.0	1		08/11/15 17:21	71-55-6	
1,1,2-Trichloroethane	**16.8**	ug/L	1.0	1		08/11/15 17:21	79-00-5	
Trichloroethene	**102**	ug/L	1.0	1		08/11/15 17:21	79-01-6	
Vinyl chloride	**36.5**	ug/L	1.0	1		08/11/15 17:21	75-01-4	
Xylene (Total)	**52.4**	ug/L	3.0	1		08/11/15 17:21	1330-20-7	
m&p-Xylene	**34.8**	ug/L	2.0	1		08/11/15 17:21	179601-23-1	
o-Xylene	**17.5**	ug/L	1.0	1		08/11/15 17:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	84-113	1		08/11/15 17:21	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		08/11/15 17:21	17060-07-0	
Toluene-d8 (S)	99	%	79-118	1		08/11/15 17:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-02S MSD **Lab ID: 30155530004** Collected: 08/05/15 12:30 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	**13.7**	ug/L	10.0	1		08/11/15 18:12	67-64-1	
Benzene	**16.2**	ug/L	1.0	1		08/11/15 18:12	71-43-2	
Bromochloromethane	**17.2**	ug/L	1.0	1		08/11/15 18:12	74-97-5	
Bromodichloromethane	**16.9**	ug/L	1.0	1		08/11/15 18:12	75-27-4	
Bromoform	**14.9**	ug/L	1.0	1		08/11/15 18:12	75-25-2	
Bromomethane	**13.8**	ug/L	1.0	1		08/11/15 18:12	74-83-9	
2-Butanone (MEK)	**15.6**	ug/L	10.0	1		08/11/15 18:12	78-93-3	
Carbon disulfide	**21.8**	ug/L	1.0	1		08/11/15 18:12	75-15-0	
Carbon tetrachloride	**17.3**	ug/L	1.0	1		08/11/15 18:12	56-23-5	
Chlorobenzene	**17.1**	ug/L	1.0	1		08/11/15 18:12	108-90-7	
Chloroethane	**19.9**	ug/L	1.0	1		08/11/15 18:12	75-00-3	
Chloroform	**17.1**	ug/L	1.0	1		08/11/15 18:12	67-66-3	
Chloromethane	**19.6**	ug/L	1.0	1		08/11/15 18:12	74-87-3	
Dibromochloromethane	**16.5**	ug/L	1.0	1		08/11/15 18:12	124-48-1	
1,2-Dichlorobenzene	**17.5**	ug/L	1.0	1		08/11/15 18:12	95-50-1	
1,3-Dichlorobenzene	**17.1**	ug/L	1.0	1		08/11/15 18:12	541-73-1	
1,4-Dichlorobenzene	**17.7**	ug/L	1.0	1		08/11/15 18:12	106-46-7	
1,1-Dichloroethane	**17.4**	ug/L	1.0	1		08/11/15 18:12	75-34-3	
1,2-Dichloroethane	**16.8**	ug/L	1.0	1		08/11/15 18:12	107-06-2	
1,2-Dichloroethene (Total)	**176**	ug/L	2.0	1		08/11/15 18:12	540-59-0	
1,1-Dichloroethene	**18.5**	ug/L	1.0	1		08/11/15 18:12	75-35-4	
cis-1,2-Dichloroethene	**158**	ug/L	1.0	1		08/11/15 18:12	156-59-2	
trans-1,2-Dichloroethene	**17.9**	ug/L	1.0	1		08/11/15 18:12	156-60-5	
1,2-Dichloropropane	**15.7**	ug/L	1.0	1		08/11/15 18:12	78-87-5	
cis-1,3-Dichloropropene	**16.3**	ug/L	1.0	1		08/11/15 18:12	10061-01-5	
trans-1,3-Dichloropropene	**16.3**	ug/L	1.0	1		08/11/15 18:12	10061-02-6	
Ethylbenzene	**16.7**	ug/L	1.0	1		08/11/15 18:12	100-41-4	
2-Hexanone	**16.9**	ug/L	10.0	1		08/11/15 18:12	591-78-6	
Methylene Chloride	**14.7**	ug/L	1.0	1		08/11/15 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**15.5**	ug/L	10.0	1		08/11/15 18:12	108-10-1	
Methyl-tert-butyl ether	**19.7**	ug/L	1.0	1		08/11/15 18:12	1634-04-4	
Styrene	**17.3**	ug/L	1.0	1		08/11/15 18:12	100-42-5	
1,1,2,2-Tetrachloroethane	**17.6**	ug/L	1.0	1		08/11/15 18:12	79-34-5	
Tetrachloroethene	**552**	ug/L	10.0	10		08/11/15 18:38	127-18-4	
Toluene	**16.8**	ug/L	1.0	1		08/11/15 18:12	108-88-3	
1,2,4-Trichlorobenzene	**17.0**	ug/L	1.0	1		08/11/15 18:12	120-82-1	
1,1,1-Trichloroethane	**17.8**	ug/L	1.0	1		08/11/15 18:12	71-55-6	
1,1,2-Trichloroethane	**16.5**	ug/L	1.0	1		08/11/15 18:12	79-00-5	
Trichloroethene	**106**	ug/L	1.0	1		08/11/15 18:12	79-01-6	
Vinyl chloride	**37.0**	ug/L	1.0	1		08/11/15 18:12	75-01-4	
Xylene (Total)	**50.6**	ug/L	3.0	1		08/11/15 18:12	1330-20-7	
m&p-Xylene	**33.6**	ug/L	2.0	1		08/11/15 18:12	179601-23-1	
o-Xylene	**17.0**	ug/L	1.0	1		08/11/15 18:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		08/11/15 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	84-124	1		08/11/15 18:12	17060-07-0	
Toluene-d8 (S)	93	%	79-118	1		08/11/15 18:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-10S **Lab ID: 30155530005** Collected: 08/05/15 13:25 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 16:04	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 16:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 16:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 16:04	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 16:04	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 16:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 16:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 16:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 16:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 16:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		08/11/15 16:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/11/15 16:04	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 16:04	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 16:04	79-34-5	
Tetrachloroethene	**3.7**	ug/L	1.0	1		08/11/15 16:04	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 16:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/11/15 16:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/11/15 16:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 16:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 16:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 16:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	84-113	1		08/11/15 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	84-124	1		08/11/15 16:04	17060-07-0	
Toluene-d8 (S)	100	%	79-118	1		08/11/15 16:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-10S Duplicate **Lab ID: 30155530006** Collected: 08/05/15 13:25 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 16:29	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 16:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 16:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 16:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 16:29	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 16:29	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 16:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 16:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 16:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 16:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 16:29	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 16:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		08/11/15 16:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 16:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/11/15 16:29	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 16:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 16:29	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 16:29	79-34-5	
Tetrachloroethene	**3.0**	ug/L	1.0	1		08/11/15 16:29	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 16:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/11/15 16:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/11/15 16:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 16:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 16:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 16:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	84-113	1		08/11/15 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	84-124	1		08/11/15 16:29	17060-07-0	
Toluene-d8 (S)	102	%	79-118	1		08/11/15 16:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: MW-09 **Lab ID: 30155530007** Collected: 08/05/15 13:50 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 16:55	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 16:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 16:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 16:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 16:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 16:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 16:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 16:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 16:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 16:55	107-06-2	
1,2-Dichloroethene (Total)	**9550**	ug/L	100	50		08/12/15 12:49	540-59-0	
1,1-Dichloroethene	**2.4**	ug/L	1.0	1		08/11/15 16:55	75-35-4	
cis-1,2-Dichloroethene	**9500**	ug/L	50.0	50		08/12/15 12:49	156-59-2	
trans-1,2-Dichloroethene	**49.7**	ug/L	1.0	1		08/11/15 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 16:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 16:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 16:55	100-41-4	
2-Hexanone	**27.1**	ug/L	10.0	1		08/11/15 16:55	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 16:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 16:55	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 16:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 16:55	79-34-5	
Tetrachloroethene	**12.4**	ug/L	1.0	1		08/11/15 16:55	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 16:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 16:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 16:55	79-00-5	
Trichloroethene	**5.0**	ug/L	1.0	1		08/11/15 16:55	79-01-6	
Vinyl chloride	**123**	ug/L	1.0	1		08/11/15 16:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 16:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 16:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 16:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	84-113	1		08/11/15 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	84-124	1		08/11/15 16:55	17060-07-0	
Toluene-d8 (S)	98	%	79-118	1		08/11/15 16:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Sample: Trip Blank **Lab ID: 30155530008** Collected: 08/05/15 00:01 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C							
Acetone	ND	ug/L	10.0	1		08/11/15 14:46	67-64-1	
Benzene	ND	ug/L	1.0	1		08/11/15 14:46	71-43-2	
Bromochloromethane	ND	ug/L	1.0	1		08/11/15 14:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/15 14:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		08/11/15 14:46	75-25-2	
Bromomethane	ND	ug/L	1.0	1		08/11/15 14:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/11/15 14:46	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		08/11/15 14:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/15 14:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/15 14:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/15 14:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/11/15 14:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		08/11/15 14:46	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/15 14:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 14:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 14:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/15 14:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/15 14:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/15 14:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		08/11/15 14:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/15 14:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 14:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/15 14:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		08/11/15 14:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 14:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		08/11/15 14:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		08/11/15 14:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/11/15 14:46	591-78-6	
Methylene Chloride	ND	ug/L	1.0	1		08/11/15 14:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/11/15 14:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/15 14:46	1634-04-4	
Styrene	ND	ug/L	1.0	1		08/11/15 14:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/15 14:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/11/15 14:46	127-18-4	
Toluene	ND	ug/L	1.0	1		08/11/15 14:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/15 14:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/15 14:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/15 14:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		08/11/15 14:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		08/11/15 14:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		08/11/15 14:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		08/11/15 14:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		08/11/15 14:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	84-113	1		08/11/15 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124	1		08/11/15 14:46	17060-07-0	
Toluene-d8 (S)	100	%	79-118	1		08/11/15 14:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

QC Batch: MSV/24524 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30155530001, 30155530002, 30155530003, 30155530004, 30155530005, 30155530006, 30155530007, 30155530008

METHOD BLANK: 935840 Matrix: Water
Associated Lab Samples: 30155530001, 30155530002, 30155530003, 30155530004, 30155530005, 30155530006, 30155530007, 30155530008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	08/11/15 14:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/11/15 14:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/11/15 14:21	
1,1-Dichloroethane	ug/L	ND	1.0	08/11/15 14:21	
1,1-Dichloroethene	ug/L	ND	1.0	08/11/15 14:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/11/15 14:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/11/15 14:21	
1,2-Dichloroethane	ug/L	ND	1.0	08/11/15 14:21	
1,2-Dichloropropane	ug/L	ND	1.0	08/11/15 14:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/11/15 14:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/11/15 14:21	
2-Butanone (MEK)	ug/L	ND	10.0	08/11/15 14:21	
2-Hexanone	ug/L	ND	10.0	08/11/15 14:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/11/15 14:21	
Acetone	ug/L	ND	10.0	08/11/15 14:21	
Benzene	ug/L	ND	1.0	08/11/15 14:21	
Bromochloromethane	ug/L	ND	1.0	08/11/15 14:21	
Bromodichloromethane	ug/L	ND	1.0	08/11/15 14:21	
Bromoform	ug/L	ND	1.0	08/11/15 14:21	
Bromomethane	ug/L	ND	1.0	08/11/15 14:21	
Carbon disulfide	ug/L	ND	1.0	08/11/15 14:21	
Carbon tetrachloride	ug/L	ND	1.0	08/11/15 14:21	
Chlorobenzene	ug/L	ND	1.0	08/11/15 14:21	
Chloroethane	ug/L	ND	1.0	08/11/15 14:21	
Chloroform	ug/L	ND	1.0	08/11/15 14:21	
Chloromethane	ug/L	ND	1.0	08/11/15 14:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/11/15 14:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/11/15 14:21	
Dibromochloromethane	ug/L	ND	1.0	08/11/15 14:21	
Ethylbenzene	ug/L	ND	1.0	08/11/15 14:21	
m&p-Xylene	ug/L	ND	2.0	08/11/15 14:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/11/15 14:21	
Methylene Chloride	ug/L	ND	1.0	08/11/15 14:21	
o-Xylene	ug/L	ND	1.0	08/11/15 14:21	
Styrene	ug/L	ND	1.0	08/11/15 14:21	
Tetrachloroethene	ug/L	ND	1.0	08/11/15 14:21	
Toluene	ug/L	ND	1.0	08/11/15 14:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/11/15 14:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/11/15 14:21	
Trichloroethene	ug/L	ND	1.0	08/11/15 14:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

METHOD BLANK: 935840 Matrix: Water

Associated Lab Samples: 30155530001, 30155530002, 30155530003, 30155530004, 30155530005, 30155530006, 30155530007, 30155530008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	ND	1.0	08/11/15 14:21	
Xylene (Total)	ug/L	ND	3.0	08/11/15 14:21	
1,2-Dichloroethane-d4 (S)	%	102	84-124	08/11/15 14:21	
4-Bromofluorobenzene (S)	%	96	84-113	08/11/15 14:21	
Toluene-d8 (S)	%	97	79-118	08/11/15 14:21	

LABORATORY CONTROL SAMPLE: 935841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	62-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	74-115	
1,1,2-Trichloroethane	ug/L	20	19.7	99	73-121	
1,1-Dichloroethane	ug/L	20	20.3	102	64-125	
1,1-Dichloroethene	ug/L	20	19.3	97	58-126	
1,2,4-Trichlorobenzene	ug/L	20	20.4	102	72-136	
1,2-Dichlorobenzene	ug/L	20	19.8	99	76-117	
1,2-Dichloroethane	ug/L	20	18.9	94	66-124	
1,2-Dichloropropane	ug/L	20	19.1	96	66-119	
1,3-Dichlorobenzene	ug/L	20	19.9	99	73-116	
1,4-Dichlorobenzene	ug/L	20	19.6	98	75-119	
2-Butanone (MEK)	ug/L	20	18.9	95	69-126	
2-Hexanone	ug/L	20	20.2	101	53-118	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.1	95	68-124	
Acetone	ug/L	20	16.7	84	56-142	
Benzene	ug/L	20	19.5	98	69-123	
Bromochloromethane	ug/L	20	19.2	96	61-133	
Bromodichloromethane	ug/L	20	20.4	102	64-120	
Bromoform	ug/L	20	17.6	88	56-133	
Bromomethane	ug/L	20	14.3	71	19-151	
Carbon disulfide	ug/L	20	25.2	126	53-173	
Carbon tetrachloride	ug/L	20	19.7	99	52-133	
Chlorobenzene	ug/L	20	20.3	102	72-121	
Chloroethane	ug/L	20	20.1	100	53-143	
Chloroform	ug/L	20	19.7	98	63-123	
Chloromethane	ug/L	20	20.5	103	48-139	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	63-123	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	65-121	
Dibromochloromethane	ug/L	20	20.4	102	58-132	
Ethylbenzene	ug/L	20	20.1	100	70-123	
m&p-Xylene	ug/L	40	41.1	103	71-124	
Methyl-tert-butyl ether	ug/L	20	23.6	118	69-133	
Methylene Chloride	ug/L	20	17.1	86	55-134	
o-Xylene	ug/L	20	20.8	104	69-118	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

LABORATORY CONTROL SAMPLE: 935841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	20	21.4	107	66-126	
Tetrachloroethene	ug/L	20	17.7	89	62-131	
Toluene	ug/L	20	19.6	98	73-123	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	61-124	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	70-111	
Trichloroethene	ug/L	20	19.3	97	66-125	
Vinyl chloride	ug/L	20	20.5	102	58-131	
Xylene (Total)	ug/L	60	61.9	103	70-123	
1,2-Dichloroethane-d4 (S)	%			100	84-124	
4-Bromofluorobenzene (S)	%			96	84-113	
Toluene-d8 (S)	%			99	79-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 935842 935843

Parameter	Units	30155530002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	17.6	17.8	88	89	62-130	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.5	17.6	83	88	74-115	7	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	16.5	84	83	73-121	2	
1,1-Dichloroethane	ug/L	ND	20	20	17.1	17.4	86	87	64-125	1	
1,1-Dichloroethene	ug/L	ND	20	20	18.1	18.5	90	93	58-126	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.2	17.0	81	85	72-136	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.2	17.5	81	88	76-117	8	
1,2-Dichloroethane	ug/L	ND	20	20	16.1	16.8	81	84	66-124	4	
1,2-Dichloropropane	ug/L	ND	20	20	16.7	15.7	84	78	66-119	6	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.5	17.1	83	85	73-116	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.8	17.7	84	89	75-119	5	
2-Butanone (MEK)	ug/L	ND	20	20	16.3	15.6	81	78	69-126	4	
2-Hexanone	ug/L	ND	20	20	18.2	16.9	91	85	53-118	7	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.2	15.5	81	78	68-124	4	
Acetone	ug/L	ND	20	20	12.4	13.7	62	69	56-142	10	
Benzene	ug/L	ND	20	20	16.9	16.2	84	81	69-123	4	
Bromochloromethane	ug/L	ND	20	20	17.1	17.2	85	86	61-133	1	
Bromodichloromethane	ug/L	ND	20	20	17.2	16.9	86	85	64-120	2	
Bromoform	ug/L	ND	20	20	14.4	14.9	72	74	56-133	3	
Bromomethane	ug/L	ND	20	20	11.0	13.8	55	69	19-151	23	
Carbon disulfide	ug/L	ND	20	20	22.4	21.8	112	109	53-173	3	
Carbon tetrachloride	ug/L	ND	20	20	17.1	17.3	86	87	52-133	1	
Chlorobenzene	ug/L	ND	20	20	17.5	17.1	88	86	72-121	2	
Chloroethane	ug/L	ND	20	20	19.3	19.9	97	100	53-143	3	
Chloroform	ug/L	ND	20	20	16.7	17.1	84	86	63-123	2	
Chloromethane	ug/L	ND	20	20	19.8	19.6	99	98	48-139	1	
cis-1,2-Dichloroethene	ug/L	130	20	20	148	158	91	143	63-123	7	M1
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.1	16.3	80	82	65-121	2	
Dibromochloromethane	ug/L	ND	20	20	16.5	16.5	83	83	58-132	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 935842 935843

Parameter	Units	30155530002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethylbenzene	ug/L	ND	20	20	17.1	16.7	86	83	70-123	3	
m&p-Xylene	ug/L	ND	40	40	34.8	33.6	87	84	71-124	4	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	19.7	102	99	69-133	3	
Methylene Chloride	ug/L	ND	20	20	13.9	14.7	69	73	55-134	6	
o-Xylene	ug/L	ND	20	20	17.5	17.0	88	85	69-118	3	
Styrene	ug/L	ND	20	20	17.9	17.3	89	87	66-126	3	
Tetrachloroethene	ug/L	372	200	200	605	552	116	90	62-131	9	
Toluene	ug/L	ND	20	20	17.0	16.8	85	84	73-123	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.6	17.9	86	88	61-124	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.8	16.3	84	81	70-111	3	
Trichloroethene	ug/L	87.0	20	20	102	106	77	96	66-125	4	
Vinyl chloride	ug/L	14.5	20	20	36.5	37.0	110	112	58-131	1	
Xylene (Total)	ug/L	ND	60	60	52.4	50.6	87	84	70-123	3	
1,2-Dichloroethane-d4 (S)	%						102	104	84-124		
4-Bromofluorobenzene (S)	%						95	97	84-113		
Toluene-d8 (S)	%						99	93	79-118		

SAMPLE DUPLICATE: 935844

Parameter	Units	30155530005 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

SAMPLE DUPLICATE: 935844

Parameter	Units	30155530005 Result	Dup Result	RPD	Qualifiers
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	3.7	3.0	20	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	103	101	2	
4-Bromofluorobenzene (S)	%	97	95	2	
Toluene-d8 (S)	%	100	102	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209183 Ash Road Properties
Pace Project No.: 30155530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30155530001	**MW-01**	EPA 8260C	MSV/24524		
30155530002	**MW-02S**	EPA 8260C	MSV/24524		
30155530003	**MW-02S MS**	EPA 8260C	MSV/24524		
30155530004	**MW-02S MSD**	EPA 8260C	MSV/24524		
30155530005	**MW-10S**	EPA 8260C	MSV/24524		
30155530006	**MW-10S Duplicate**	EPA 8260C	MSV/24524		
30155530007	**MW-09**	EPA 8260C	MSV/24524		
30155530008	**Trip Blank**	EPA 8260C	MSV/24524		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1791332

Section A Required Client Information:

Company: Geologic NY Inc.
Address: P.O. Box 350
Homer, NY 13077
Email To: geologicny@geologic.net
Phone: 607-749-5000 Fax:
Requested Due Date/TAT: 10

Section B Required Project Information:

Report To: Same
Copy To: Susan Cummins
Purchase Order No.: A 209183
Project Name: Ash Road
Project Number: 209183

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: EPA 8260 TCL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			8-5-15	1140		3				X						X		001
2	MW-02S	WT	G			8-5-15	1230		3				X						X		002
3	MW-02S MS/MSD	WT	G			8-5-15	1234		3				X						X		003, 004
4	MW-10S	WT	G			8-5-15	1325		3				X						X		005
5	MW-10S Duplicate	WT	G			8-5-15	1325		3				X						X		006
6	MW-09	WT	G			8-5-15	1350		3				X						X		007
7	Trip Blank	WT	G			8-5-15			2				X						X		008
8																					
9																					
10																					
11																					
12																					

CAT B

0155530

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] GNY	8-5-15	17:15	[signature] PACE	8/5/15	1715	
	[signature] PACE	8/5/15	18:00	[signature] Pace	8-6-15	1050	6.4 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins
SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 8-5-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Geologic

Project # 30155530

MB

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 774219808361

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap √ Bubble Bags ___ None ___ Other _____

Thermometer Used 6 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.6 °C Correction Factor: -0.2 °C Final Temp: 0.4 °C

Date and initials of person examining contents: _____

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenols	☐Yes ☐No ☑N/A ☑Yes ☐No	Initial when completed MB Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☑N/A	16. 8-6-15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 8/7/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30155530

Client Name: Geologic

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml) 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT													3										
006	↓													↓										
007														2										

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 18, 2015

Ms. Susan Cummins
Geologic NY
37 Copeland Avenue
Homer, NY 13077

RE: Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Dear Ms. Cummins:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

The samples were subcontracted to Pace Analytical Services, Inc., 575 Broad Hollow Road, Melville, NY 11747 for RSK-175 analysis. Results of the analysis are reported on the Pace Analytical, Melville data tables.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Chris Gabriel, Geologic NY
Geologic NY Inc., Geologic NY

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30155528001	**MW-01**	EPA 6010C	CTS	1	PASI-PA
		SM 3500-Fe D	BMS	1	PASI-PA
		SM 5210B	BMS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		SM 5310C	MM1	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30155528002	**MW-02S**	EPA 6010C	CTS	2	PASI-PA
		SM 3500-Fe D	BMS	1	PASI-PA
		SM 5210B	BMS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		SM 5310C	MM1	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30155528003	**MW-09S**	EPA 6010C	CTS	2	PASI-PA
		SM 3500-Fe D	BMS	1	PASI-PA
		SM 5210B	BMS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		SM 5310C	MM1	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
30155528004	**MW-10S**	EPA 6010C	CTS	1	PASI-PA
		SM 3500-Fe D	BMS	1	PASI-PA
		SM 5210B	BMS	1	PASI-PA
		SM 4500-Cl-E	EHW	1	PASI-PA
		SM 5310C	MM1	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **EPA 6010C**
Description: 6010C MET ICP
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **SM 3500-Fe D**
Description: Iron, Ferrous
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for SM 3500-Fe D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-01 (Lab ID: 30155528001)
- MW-02S (Lab ID: 30155528002)
- MW-09S (Lab ID: 30155528003)
- MW-10S (Lab ID: 30155528004)

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-01 (Lab ID: 30155528001)
- MW-02S (Lab ID: 30155528002)
- MW-09S (Lab ID: 30155528003)
- MW-10S (Lab ID: 30155528004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **SM 5210B**
Description: 5210B BOD, 5 day
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with SM 5210B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/29516

B1: Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.

- MW-09S (Lab ID: 30155528003)
  - BOD, 5 day

B2: Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.

- MW-01 (Lab ID: 30155528001)
  - BOD, 5 day
- MW-02S (Lab ID: 30155528002)
  - BOD, 5 day
- MW-10S (Lab ID: 30155528004)
  - BOD, 5 day

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **SM 4500-Cl-E**
Description: 4500 Chloride
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for SM 4500-Cl-E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **SM 5310C**
Description: 5310C TOC
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Method: **SM 4500-NO2 B**
Description: SM4500NO2-B, Nitrite, unpres
Client: Geologic NY
Date: August 18, 2015

General Information:
4 samples were analyzed for SM 4500-NO2 B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Sample: MW-01 **Lab ID: 30155528001** Collected: 08/05/15 11:40 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Sulfur	**18300**	ug/L	50.0	1	08/10/15 17:50	08/11/15 08:39		
Iron, Ferrous	Analytical Method: SM 3500-Fe D							
Iron, Ferrous	ND	mg/L	0.10	1		08/07/15 02:13		H1,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**6.0**	mg/L	6.0	1	08/07/15 10:35	08/12/15 16:00		B2
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**548**	mg/L	300	100		08/10/15 12:06	16887-00-6	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.8**	mg/L	1.0	1		08/11/15 18:18	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		08/06/15 20:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Sample: MW-02S **Lab ID: 30155528002** Collected: 08/05/15 12:30 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Manganese	**503**	ug/L	5.0	1	08/10/15 17:50	08/11/15 08:55	7439-96-5	
Sulfur	**8380**	ug/L	50.0	1	08/10/15 17:50	08/11/15 08:55		
Iron, Ferrous	Analytical Method: SM 3500-Fe D							
Iron, Ferrous	**0.40**	mg/L	0.10	1		08/07/15 02:13		H1,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**6.0**	mg/L	6.0	1	08/07/15 10:37	08/12/15 16:00		B2
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**558**	mg/L	300	100		08/10/15 12:07	16887-00-6	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	1.0	1		08/11/15 18:36	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		08/06/15 20:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Sample: MW-09S **Lab ID: 30155528003** Collected: 08/05/15 13:50 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Manganese	**29300**	ug/L	5.0	1	08/10/15 17:50	08/11/15 08:57	7439-96-5	
Sulfur	**2680**	ug/L	50.0	1	08/10/15 17:50	08/11/15 08:57		
Iron, Ferrous	Analytical Method: SM 3500-Fe D							
Iron, Ferrous	**21.6**	mg/L	1.0	10		08/07/15 02:13		H1,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**58.6**	mg/L	20.0	1	08/07/15 10:40	08/12/15 16:00		B1
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**893**	mg/L	300	100		08/10/15 12:08	16887-00-6	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**214**	mg/L	10.0	10		08/12/15 10:31	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	ND	mg/L	0.010	1		08/06/15 20:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Sample: MW-10S **Lab ID: 30155528004** Collected: 08/05/15 13:25 Received: 08/06/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Sulfur	**13000**	ug/L	50.0	1	08/10/15 17:50	08/11/15 08:59		
Iron, Ferrous	Analytical Method: SM 3500-Fe D							
Iron, Ferrous	ND	mg/L	0.10	1		08/07/15 02:13		H1,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**6.0**	mg/L	6.0	1	08/07/15 10:43	08/12/15 16:00		B2
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**609**	mg/L	300	100		08/10/15 12:08	16887-00-6	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.0**	mg/L	1.0	1		08/11/15 19:10	7440-44-0	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**0.015**	mg/L	0.010	1		08/06/15 20:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: MPRP/16184 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 935572 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese	ug/L	ND	5.0	08/11/15 08:17	
Sulfur	ug/L	ND	50.0	08/11/15 08:17	

LABORATORY CONTROL SAMPLE: 935573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	500	513	103	80-120	
Sulfur	ug/L	5000	5200	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 935575 935576

Parameter	Units	30155528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Manganese	ug/L	403	500	500	910	907	101	101	75-125	0	
Sulfur	ug/L	18300	5000	5000	23400	23800	103	111	75-125	2	

MATRIX SPIKE SAMPLE: 935578

Parameter	Units	30154937004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	19.6	500	530	102	75-125	
Sulfur	ug/L	14100	5000	19500	108	75-125	

SAMPLE DUPLICATE: 935574

Parameter	Units	30155528001 Result	Dup Result	RPD	Qualifiers
Manganese	ug/L	403	392	3	
Sulfur	ug/L	18300	18000	2	

SAMPLE DUPLICATE: 935577

Parameter	Units	30154937004 Result	Dup Result	RPD	Qualifiers
Manganese	ug/L	19.6	19.4	1	
Sulfur	ug/L	14100	14200	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: WET/29508 Analysis Method: SM 3500-Fe D
QC Batch Method: SM 3500-Fe D Analysis Description: Iron, Ferrous
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 934234 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.10	08/07/15 02:13	H6

LABORATORY CONTROL SAMPLE: 934235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1	1.0	103	85-115	H6

MATRIX SPIKE SAMPLE: 934237

Parameter	Units	30155528001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	ND	1	1.0	102	85-115	H1,H6

SAMPLE DUPLICATE: 934236

Parameter	Units	30155528001 Result	Dup Result	RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		H1,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: WET/29516 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 934672 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	08/12/15 16:00	

LABORATORY CONTROL SAMPLE: 934673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	214	108	84.6-115.4	

SAMPLE DUPLICATE: 934674

Parameter	Units	30155558001 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	6.0	6.0	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: WETA/20862 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 935179 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	3.0	08/10/15 12:00	

METHOD BLANK: 935181 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	3.0	08/10/15 12:01	

LABORATORY CONTROL SAMPLE: 935180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	40	40.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 935182 935183

Parameter	Units	30155018002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	2.9J	20	20	22.5	22.5	98	98	85-115	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: WETA/20881 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 935919 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	08/11/15 17:58	

LABORATORY CONTROL SAMPLE: 935920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.6	106	85-115	

MATRIX SPIKE SAMPLE: 935923

Parameter	Units	30155290001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.2	10	10.7	95	85-115	

SAMPLE DUPLICATE: 935924

Parameter	Units	30155290002 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.3	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

QC Batch: WETA/20846 Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

METHOD BLANK: 934198 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	08/06/15 20:07	

METHOD BLANK: 934199 Matrix: Water
Associated Lab Samples: 30155528001, 30155528002, 30155528003, 30155528004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	08/06/15 20:07	

LABORATORY CONTROL SAMPLE: 934200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.1	0.096	96	90-110	

MATRIX SPIKE SAMPLE: 934202

Parameter	Units	30155316002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	ND	.1	0.095	95	85-115	

SAMPLE DUPLICATE: 934201

Parameter	Units	30155316002 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B1	Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.
B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209183 Ash Road Properties
Pace Project No.: 30155528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30155528001	**MW-01**	EPA 3005A	MPRP/16184	EPA 6010C	ICP/15363
30155528002	**MW-02S**	EPA 3005A	MPRP/16184	EPA 6010C	ICP/15363
30155528003	**MW-09S**	EPA 3005A	MPRP/16184	EPA 6010C	ICP/15363
30155528004	**MW-10S**	EPA 3005A	MPRP/16184	EPA 6010C	ICP/15363
30155528001	**MW-01**	SM 3500-Fe D	WET/29508		
30155528002	**MW-02S**	SM 3500-Fe D	WET/29508		
30155528003	**MW-09S**	SM 3500-Fe D	WET/29508		
30155528004	**MW-10S**	SM 3500-Fe D	WET/29508		
30155528001	**MW-01**	SM 5210B	WET/29516	SM 5210B	WET/29572
30155528002	**MW-02S**	SM 5210B	WET/29516	SM 5210B	WET/29572
30155528003	**MW-09S**	SM 5210B	WET/29516	SM 5210B	WET/29572
30155528004	**MW-10S**	SM 5210B	WET/29516	SM 5210B	WET/29572
30155528001	**MW-01**	SM 4500-Cl-E	WETA/20862		
30155528002	**MW-02S**	SM 4500-Cl-E	WETA/20862		
30155528003	**MW-09S**	SM 4500-Cl-E	WETA/20862		
30155528004	**MW-10S**	SM 4500-Cl-E	WETA/20862		
30155528001	**MW-01**	SM 5310C	WETA/20881		
30155528002	**MW-02S**	SM 5310C	WETA/20881		
30155528003	**MW-09S**	SM 5310C	WETA/20881		
30155528004	**MW-10S**	SM 5310C	WETA/20881		
30155528001	**MW-01**	SM 4500-NO2 B	WETA/20846		
30155528002	**MW-02S**	SM 4500-NO2 B	WETA/20846		
30155528003	**MW-09S**	SM 4500-NO2 B	WETA/20846		
30155528004	**MW-10S**	SM 4500-NO2 B	WETA/20846		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1791333

Section A Required Client Information:

Company: Geologic NY Inc
Address: PO Box 350
Homer NY 13077
Email To: geologicny@geologic.net
Phone: 607-749-5000 Fax:
Requested Due Date/TAT: (10)

Section B Required Project Information:

Report To: Same
Copy To: Susan Cummins
Purchase Order No.: 209183
Project Name: Ash Road
Project Number: 209183

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	BOD	Methane	Sulfur	Chloride	Nitrite	Manganese	TOC	Dissolve Ferrous Iron	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			8-5-15	1140	8		x		x	x						x	x	x	x	x		x	x		30155528-001
2	MW-02S	WT	G			8-5-15	1230	8		x		x	x						x	x	x	x	x	x	x	x		002
3	MW-09S	WT	G			8-5-15	1350	8		x		x	x						x	x	x	x	x	x	x	x		003
4	MW-10S	WT	G			8-5-15	1325	8		x		x	x						x	x	x	x	x		x	x		004
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / GNY	8/5/15	17:15	[signature] PACE	8/5/15	17:15	
	[signature] PACE	8/5/15	18:00	[signature] PACE	8-6-15	1050	0.4 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins
SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 8-5-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 1791333

Section A Required Client Information:

Company: Geologic NY Inc
Address: PO Box 32
Homer NY 13077
Email To: geologicny@geologic.net
Phone: 607-749-4000 Fax:
Requested Due Date/TAT: (10)

Section B Required Project Information:

Report To: Same
Copy To: Susan Cummins
Purchase Order No.: 209183
Project Name: Ash Road
Project Number: 209183

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BOD	Methane	Sulfur	Chloride	Nitrate	Manganese	TOC	Dissolve Ferrous	Iron		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			8-5-15	1140	8		X		X	X						X	X	X	X	X	X		001	30155528
2	MW-02S	WT	G			8-5-15	1230	8		X		X	X						X	X	X	X	X	X	X	002	1508510-001A
3	MW-09S	WT	G			8-5-15	1350	8		X		X	X						X	X	X	X	X	X	X	003	
4	MW-10S	WT	G			8-5-15	1325	8		X		X	X						X	X	X	X		X	X	004	004A
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / CMS	8/5/15	17:15	[signature] PACE	8/5/15	17:15				
	[signature] PACE	8/5/15	1500	[signature]	8/6/15	1020	1.4	Y	Y	Y
	[signature]	8/6/15	1800	[signature]	8/6/15	1130				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins

SIGNATURE of SAMPLER: Susan Cummins DATE Signed (MM/DD/YY): 8-5-15

7742 1971 5956 ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5%

Sample Condition Upon Receipt

30155528

Pace Analytical

Client Name: Geologic

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7742 1480 8361

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap V Bubble Bags ____ None ____ Other ____

Thermometer Used 8 Type of Ice: (Wet) Blue None ☑ Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.8 °C Correction Factor: -0.4 °C Final Temp: 0.4 °C

Date and Initials of person examining contents: MJ 8-6-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume: VGW 8/6/15	☐Yes ☑No ☐N/A	8. No volume for TOCs - All samples
Correct Containers Used:	☑Yes ☐No ☐N/A	9. ~~AAW-02S has no metals bottle~~ VGW 8/6/15 ~~No volume received for methanol~~
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	☑Yes ☐No	Initial when completed MJ / Lot # of added preservative
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Susan Cummins Date/Time: 8/7/15 10:45

Comments/ Resolution:

Notified client that TOC vials were not received.

-TOC vials mistakenly sent to Pace-Long Island. Vials were received on 8/8 by Pace-Greensboro. GC 8/10

Project Manager Review: Rachel Cummings **Date:** 8/7/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30155528

Client Name: Geology

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y (N)	O & G (1L)	TPH (1L)	VOA (40 ml / 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT			2						1	1			2										
002			2 1-L							1	1			2										
003				2						1	1			2										
004				2						1	1			2										

Sample Condition Upon Receipt

Pace Analytical

Client Name: Geologic Project # 30155528

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 774237573356

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap ✓ Bubble Bags ✓ None ___ Other _____

Thermometer Used 8 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 5.3 °C Correction Factor: 0.4 °C Final Temp: 4.9 °C

Date and initials of person examining contents: MW 8/10/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, Phenols	☑Yes ☐No	Initial when completed MW Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 8/10/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

page 2

Project Number: 30155525X

Client Name: Geologic

Item No.	081	082										
Matrix Code	WA	↓										
Glass Jar (120 / 250 / 500 / 1L)												
Soil Kit (2 SB, 1M, soil jar)												
Chemistry (250 / 500 / 1L)												
Organics (1L)												
Nutrient (250 / 500)												
Phenolics (250 ml)												
TOC (40 ml / 250 ml)	1	1										
TOX (250 ml)												
Total Metals												
Dissolved Metals preserved Y N												
O & G (1L)												
TPH (1L)												
VOA (40 ml 30 ml)												
Cyanide (250 ml)												
Sulfide (500 ml)												
Bacteria (120 ml)												
Wipes / swipe/ smear/ filter												
Radchem Nalgene (125 / 250 / 500 / 1L)												
Radchem Nalgene (1/2 gal. / 1 gal.L)												
Cubitainer (500 ml / 4L)												
Ziploc												
Other												
Other												

SCURF Back (C016-4 15May2012).xls

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc
1638 Roseytown Road
Greensburgh, PA 15601

Attn To : Penny Westwick
Collected : 8/5/2015 11:40:00 AM
Received : 8/6/2015 10:20:00 AM
Collected By : SC99

Lab No. : 1508510-001
Client Sample ID: MW-01

209183, ASH ROAD

Sample Information:
Type : Aqueous

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	< 1.0		1	µg/L		08/10/2015 1:22 PM	Container-01 of 02
Surr: Propene	170		1	%REC	Limit 21-187	08/10/2015 1:22 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 8/17/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc
1638 Roseytown Road
Greensburgh, PA 15601
Attn To : Penny Westwick
Collected : 8/5/2015 12:30:00 PM
Received : 8/6/2015 10:20:00 AM
Collected By : SC99

Lab No. : 1508510-002
Client Sample ID: MW-02S

209183, ASH ROAD

Sample Information:
Type : Aqueous

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	290	D	43	µg/L		08/10/2015 2:50 PM	Container-01 of 02
Surr: Propene	173		1	%REC	Limit 21-187	08/10/2015 1:33 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 8/17/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc
1638 Roseytown Road
Greensburgh, PA 15601
Attn To : Penny Westwick
Collected : 8/5/2015 1:50:00 PM
Received : 8/6/2015 10:20:00 AM
Collected By : SC99

Lab No. : 1508510-003
Client Sample ID: MW-09S

209183, ASH ROAD

Sample Information:
Type : Aqueous

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	7.2		1	µg/L		08/10/2015 2:27 PM	Container-01 of 02
Surr: Propene	180		1	%REC	Limit 21-187	08/10/2015 2:27 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 8/17/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services, Inc
1638 Roseytown Road
Greensburgh, PA 15601
Attn To : Penny Westwick
Collected : 8/5/2015 1:25:00 PM
Received : 8/6/2015 10:20:00 AM
Collected By : SC99

Lab No. : 1508510-004
Client Sample ID: MW-10S

209183, ASH ROAD

Sample Information:
Type : Aqueous

Origin:

Analytical Method: RSK-175 : Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Methane	< 1.0		1	µg/L		08/10/2015 2:39 PM	Container-01 of 02
Surr: Propene	178		1	%REC	Limit 21-187	08/10/2015 2:39 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 8/17/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: DISSOLVED GASES **WorkOrder:** 1508510

Method: RSK-175_W **Lab Batch ID:** R81044

Method Blank

RunID: 81044 SeqNo 1754227 Units: µg/L

Analysis Date: 8/7/2015 1:06:13 PM Analyst: MaiN

Analyte	Result	Rep Limit	Rep Qual
Methane	< 1.0	1.0	
Surr: Propene	10	1.0	

Laboratory Control Sample (LCS/LFB)

RunID: 81044 SeqNo 1754226 Units: µg/L

Analysis Date: 8/7/2015 12:43:36 PM Analyst: MaiN

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Methane	5.450	3.8	69.0						22	166	
Surr: Propene	10.00	8.5	85.0						21	187	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1508368-008C

RunID: 81044 SeqNo 1754241 Units: µg/L

Analysis Date: 8/7/2015 3:51:12 PM Analyst: MaiN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Methane	0.6600	5.160	6.4	112	10	184	6.800	6.5	85.7	0.929	40	10	184	
Surr: Propene		10.00	16	155	21	187	10.00	12	117	0	40	21	187	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **PACE-PA** Date and Time Received: **8/6/2015 10:20:00 AM**

Work Order Number: **1508510** RcptNo: **1** Received by: **Jaclyn Kuri**

Completed by: Jaclyn Kuri Reviewed by:

Completed Date: 8/6/2015 5:13:16 PM Reviewed Date: 8/14/2015 5:00:04 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	1.3 º
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	7742 1971 5956					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1508510

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 30155528 **Workorder Name:** 209183 Ash Road Properties **Owner Received Date:** 8/6/2015 **Results Requested By:** 8/13/2015

Report To	Subcontract To
Rachel Christner Pace Analytical Services, Inc. 1638 Roseytown Road Greensburg, PA 15601 Phone (724)850-5600 Fax (999)999-9999	Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: RSK-175 Methane	LAB USE ONLY
1	MW-01	PS	8/5/2015 11:40	30155528001	Water	1	X	1508510-004A
2	MW-02S	PS	8/5/2015 12:30	30155528002	Water	1	X	
3	MW-09S	PS	8/5/2015 13:50	30155528003	Water	1	X	
4	MW-10S	PS	8/5/2015 13:25	30155528004	Water	1	X	
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1		8/7/15 1500		8/8/15 1000
2				
3				

Comments

Cooler Temperature on Receipt 1.3 °C | Custody Seal Y or (N) | Received on Ice (Y) or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

6114 7088 1029

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1791333

Section A Required Client Information:

Company:	Geologic NY Inc
Address:	PO Box 350
	Homer NY 13077
Email To:	geologicny@geologic.net
Phone:	607-749-5000	Fax:
Requested Due Date/TAT:	(10)

Section B Required Project Information:

Report To:	Same
Copy To:	Susan Cummins
Purchase Order No.:	209183
Project Name:	Ash Road
Project Number:	209183

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BOD	Methane	Sulfur	Chloride	Nitrite	Manganese	TOC	Dissolved Fe/Mn (?)	Iron	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-01	WT	G			8-5-15	1140	8		X		X	X						X	X	X	X	X		X	X			1508510-001A
2	MW-02S	WT	G			8-5-15	1230	8		X		X	X						X	X	X	X	X	X	X	X			↓
3	MW-09S	WT	G			8-5-15	1350	8		X		X	X						X	X	X	X	X	X	X	X			↓
4	MW-00S (?)	WT	G			8-5-15	1325	8		X		X	X						X	X	X	X	X		X	X			004A
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / GNY	8/5/15	17:15	[signature] PACE	8/5/15	17:15				
	[signature] PACE	8/5/15	18:00	[signature]	8/6/15	11:20	1.4	Y	Y	Y
	[signature]	8/5/15	1800							

* TOCs sent to Pace MPA 8/7/15 (initials)
7742 1971 5956
ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Susan Cummins

SIGNATURE of SAMPLER: Susan Cummins

DATE Signed (MM/DD/YY): 8-5-15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

17 lbs Sat delivery 7742 3757 3356

APPENDIX E

Data Usability Summary Reports

GeoLogic NY, Inc.
P.O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607.749.5000 • Fax: 607.749.5063

DATA USABILITY SUMMARY REPORT
ASH ROAD PROPERTIES
221 SYCAMORE ROAD
TOWN OF VESTAL, NEW YORK

VOLATILE ANALYSES
Order No. 1506421

Analyses performed by:

Pace Analytical Services, Inc.
Melville, New York

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Ash Road Properties site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA GC/MS 8260
MW-01	1506421-001A	Water	6-01-2015	X
MW-02S	1506421-002A	Water	6-01-2015	X
MW-02S MS	1506421-002MS	Water	6-01-2015	X
MW-02S MSD	1506421-002MSD	Water	6-01-2015	X
MW-09S	1506421-003A	Water	6-01-2015	X
MW-10S	1506421-004A	Water	6-01-2015	X
Trip Blank	1506421-005A	Water	6-01-2015	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is a presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for four water sample locations obtained on June 1, 2015 for the Ash Road Properties (GeoLogic Project No. 209183). The samples were received by the laboratory on June 2, 2015.

The Sample Data Package is complete as defined under the NYSDEC ASP as Level 2 Deliverables; there is a narrative and end results.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260B	
	Water
Holding Time	14 days from sample collection
Preservation	pH less than 2; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 2.1°C. The water samples were preserved with HCL and analyzed using EPA Method 8260C holding time for the preserved water samples. All samples had a pH 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL, except for methylene chloride. Methylene chloride was detected in the Storage Blank at a concentration of 1.2 ug/L. Methylene chloride was not detected in any sample above the MDL; no action taken.

Field Duplicate Analysis

A field duplicate was collected, but was inadvertently not analyzed by the laboratory.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions. All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05). Each target analyte produced the required levels of instrument response and acceptable degree of linearity except for dichlorodifluoromethane. It may be assumed that dichlorodifluoromethane would be detected, if present in the sample. Because dichlorodifluoromethane was not detected in samples, data qualifications are not required.

The continuing calibration verifies that the instrument's daily performance is satisfactory for all compounds except for bromomethane (%D 75.2), trichlorofluoromethane (%D 36.8), acetone (%D 23.2), dibromochloromethane (%D 26.5), bromoform (%D -23.2), and 1,2,4-trichlorobenzene (%D -22.1). The associated samples have been qualified with a "J" for these compounds.

Internal Standards

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC

exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

A review of the LCS analysis report indicates RPDs within the established criteria except for those compounds noted in the calibration section. None of these compounds were detected in the samples, only in the spikes samples.

Surrogates / System Monitoring Compounds

Soil samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

The review of the Quantitation Reports indicates that all surrogate recovery ranges were met.

System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method. The Data Package is complete as defined under the NYSDEC ASP Category B Deliverables. There is a narrative and end result. The package includes laboratory quality control/quality assurance calibration curves, chromatograms, and sample preparation forms.

GeoLogic NY, Inc.
P.O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607.749.5000 • Fax: 607.749.5063

DATA USABILITY SUMMARY REPORT
ASH ROAD PROPERTIES
221 SYCAMORE ROAD
TOWN OF VESTAL, NEW YORK

VOLATILE ANALYSES
Order No. 30152660

Analyses performed by:

Pace Analytical Services, Inc.
Greensburg, Pennsylvania

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Ash Road Properties site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA GC/MS 8260
MW-01	30152660001	Water	7-06-2015	X
MW-02S	30152660002	Water	7-06-2015	X
MW-02S MS	921835	Water	7-06-2015	X
MW-02S MSD	921836	Water	7-06-2015	X
MW-10S	30152660004	Water	7-06-2015	X
MW-01 Duplicate	30152660005	Water	7-06-2015	X
MW-09S	30152660003	Water	7-06-2015	X
Trip Blank	30152660007	Water	7-06-2015	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is a presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for four water sample locations obtained on August 5, 2015 for the Ash Road Properties (GeoLogic Project No. 209183). The samples were received by the laboratory on June 6, 2015.

The Sample Data Package is complete as defined under the NYSDEC ASP as Level 2 Deliverables; there is a narrative and end results.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260B	
	Water
Holding Time	14 days from sample collection
Preservation	pH less than 2; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 2.4°C. The water samples were preserved with HCL and analyzed using EPA Method 8260C holding time for the preserved water samples. All samples had a pH of 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. A control limit of 50% for water samples is applied to the RPD between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions. All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05). Each target analyte produced the required levels of instrument response and acceptable degree of linearity except for dichlorodifluoromethane. It may be assumed that dichlorodifluoromethane would be detected, if present in the sample. Because dichlorodifluoromethane was not detected in samples, data qualifications are not required.

The continuing calibration verifies that the instrument's daily performance was satisfactory for all compounds except for bromomethane (%D 26.8) and bromoform (24.2%). The associated samples have been qualified with a "J" for these compounds.

Internal Standards

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

A review of the LCS analysis report indicates RPDs within the established criteria.

Surrogates / System Monitoring Compounds

Soil samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

The review of the Quantitation Reports indicates that all surrogate recovery ranges were met.

System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method. The Data Package is complete as defined under the NYSDEC ASP Category B Deliverables. There is a narrative and end result. The package includes laboratory quality control/quality assurance calibration curves, chromatograms, and sample preparation forms.

GeoLogic NY, Inc.
P.O. Box 350 • 37 Copeland Ave. • Homer, NY 13077 • 607.749.5000 • Fax: 607.749.5063

DATA USABILITY SUMMARY REPORT
ASH ROAD PROPERTIES
221 SYCAMORE ROAD
TOWN OF VESTAL, NEW YORK

VOLATILE ANALYSES
Order No. 30155530

Analyses performed by:

Pace Analytical Services, Inc.
Greensburg, Pennsylvania

Review performed by:

GeoLogic NY, Inc.

DATA SUMMARY

The following review of the data package is for the sample deliver group noted below from the Ash Road Properties site. Analyses were performed on the following samples.

Sample ID	Laboratory ID	Matrix	Sample Date	Analysis
				VOA GC/MS 8260
MW-01	3015530001	Water	8-05-2015	X
MW-02S	3015530002	Water	8-05-2015	X
MW-02S MS	3015530003	Water	8-05-2015	X
MW-02S MSD	3015530004	Water	8-05-2015	X
MW-10S	3015530005	Water	8-05-2015	X
MW-10SDuplicate	3015530006	Water	8-05-2015	X
MW-09S	3015530007	Water	8-05-2015	X
Trip Blank	3015530008	Water	8-05-2015	X

INTRODUCTION

Analyses were performed according to USEPA SW-846 Method 8260C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical methodology. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines, Region II.

U The compound was analyzed for but not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

N The analysis indicates the presence of an analyte for which there is a presumptive evidence to make a tentative identification.

NJ The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

R The sample results are unstable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

It should be noted that a compound concentration, even if quality control parameters have been met, is not a guarantee of accuracy, but adherence to quality control does increase confidence in data.

DATA REVIEW FOR VOLATILE ANALYSIS

Pace Analytical Services, Inc. (Pace) prepared a Sample Data Package for four water sample locations obtained on August 5, 2015 for the Ash Road Properties (GeoLogic Project No. 209183). The samples were received by the laboratory on June 6, 2015.

The Sample Data Package is complete as defined under the NYSDEC ASP as Level 2 Deliverables; there is a narrative and end results.

Holding Times

The specified holding times for the laboratory method and matrix are presented in the following table.

Analytical Method SW-8260B	
	Water
Holding Time	14 days from sample collection
Preservation	pH less than 2; cooled at 4° C ± 2°

All samples were analyzed within the specified holding times and samples were received in iced coolers, temperature of 0.4°C. The water samples were preserved with HCL and analyzed using EPA Method 8260C holding time for the preserved water samples. All samples had a pH 2 or less.

Quality Control Blanks

The quality assurance (QA) preparation blanks are prepared to identify contamination that may be attributed to laboratory contaminants. All compounds associated with the QA method blank exhibited a concentration less than the MDL.

Field Duplicate Analysis

A field duplicate is collected for analysis to assess the precision and accuracy of the field sampling procedures as well as the analytical method. A control limit of 50% for water samples is applied to the RPD between the parent sample and the duplicate sample.

The RPDs between the parent sample and the duplicate sample were acceptable.

Calibrations

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions. All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

The continuing calibration verifies that the instrument's daily performance was satisfactory for all compounds except for bromomethane (%D 34.6). The associated samples have been qualified with a "J" for this compound.

Internal Standards

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD samples are collected to assess the precision and accuracy of the analytical methodology for a sample set. The compounds introduced into the MS/MSD samples must be recovered within the established acceptance limits. The relative percentage difference (RPD) between the MS/MSD recoveries must be within the laboratory established acceptance limits RPDs.

A review of the LCS analysis report indicates RPDs within the established criteria with the following exception.

The % Recovery of *cis*-1,2-dichloroethene exceeded the QC limits. The MS/MSD recovery control limits for *cis*-1,2-dichloroethene do not apply for the MS/MSD performed on sample location since the compound concentration detected in the parent sample exceed the MS/MSD concentration by a factor of four or greater.

Surrogates / System Monitoring Compounds

Soil samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

The review of the Quantitation Reports indicates that all surrogate recovery ranges were met.

System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method. The Data Package is complete as defined under the NYSDEC ASP Category B Deliverables. There is a narrative and end result. The package includes laboratory quality control/quality assurance calibration curves, chromatograms, and sample preparation forms.

APPENDIX F

Digital Copy of FER

CD TO BE INSERTED