

APPENDIX A
GROUNDWATER MONITORING
REPORTS

REMOVAL ACTION REPORT

ROBERTO CLEMENTE TOWN PARK
400 BROADWAY
BRENTWOOD, NY 11717

SEPTEMBER 21, 2015

ENVIROSCIENCE CONSULTANTS, INC.
ENVIRONMENTAL, ASBESTOS & LEAD CONSULTANTS
2150 SMITHTOWN AVENUE, SUITE 3, RONKONKOMA, NY 11779
PHONE 631.580.3191 FAX 631.580.3195

August 18, 2014

Mr. Syed Rahman, P.E.
NYSDEC
Division of Materials Management
50 Circle Road
Stony Brook, NY 11790-3409

Re: Roberto Clemente Town Park
400 Broadway, Brentwood, NY 11717

Dear Mr. Rahman:

Introduction

On behalf of our client, the Town of Islip ("Town"), Enviroscience Consultants, Inc. is providing this Work Plan for the installation and sampling of three groundwater monitoring wells at the above-referenced site. The installation and sampling of these wells are required by the New York State Department of Environmental Conservation ("NYSDEC") prior to any remedial activities that involve removal of the illegally disposed soils from the former soccer field and within the recharge basin. Since the Town wants to perform the remediation later this year, we are providing this Work Plan to facilitate the installation and sampling of the wells so that it's not a hindrance to implementing the remedial action.

Figure 1 shows the site's location, and Figure 2 shows the general site layout, including the proposed locations of the three groundwater monitoring wells.

Methods

Proposed Well Locations

Prior to the start of remediation activities, a total of three groundwater monitoring wells will be installed at the site to establish baseline groundwater conditions and to evaluate whether there may be significant impacts to the groundwater beneath the site and its immediate vicinity from the illegal dumping. The groundwater monitoring wells will be installed using a subcontracted drilling company with oversight by Enviroscience personnel.

Based on information obtained from the Suffolk County Department of Health Services ("SCDHS") Water Table Contours Map (March 2002), along with topographic elevation information from a U.S. Geological Survey ("USGS") Topographic Map, the approximate depth to the regional groundwater table beneath the site is 15 feet. The estimated regional groundwater flow direction is to the southeast.

Two of the wells will be installed as downgradient wells, and one well will be installed as an upgradient well. Mr. Eric Hofmeister from the Town and I visited the site on August 11, 2014 to review the proposed well placements. Figure 2 shows the proposed well installation locations.

The upgradient well is proposed in a location that is sufficiently north of the impacted areas such that it's unlikely to be adversely affected by the impacted soils. For the downgradient wells, one well is proposed immediately south of the impacted portion of the recharge basin. This well is proposed in the only reasonably accessible general location for a drill rig for the well's installation, which is downgradient of the recharge basin. The second of the downgradient wells is proposed on a grassy parking lot island, immediately southeast of the former soccer fields. This location is proposed since it's highly likely to be downgradient of the former soccer fields and it would identify possible adverse impacts to groundwater earlier than a groundwater monitoring well further downgradient. Furthermore, a well that's installed further away from the potential contamination source area is more likely to be ineffective as a downgradient well based on the actual site-specific groundwater flow direction, which will be calculated as part of the well installations.

Proposed Well Construction

Prior to the installation of the groundwater monitoring wells, the one-call utility markout service will be contacted to request identification of subsurface utilities in the proposed drilling locations. Information regarding the presence and locations of subsurface utilities will also be requested from the Town. At each groundwater monitoring well installation location, manual techniques, including the use of a post-hole digger and a hand auger, will be used to hand-clear the locations to a depth of five feet.

For the well installation, a drill rig will utilize 4.25-inch diameter augers to a total boring depth of approximately 31 feet. The anticipated depth of the wells will be 30 feet below grade, however, the total depth of the borings and the wells will be based on the actual depth-to-water at each location in order to have the wells installed to a depth of 15 feet into the regional groundwater.

During the well installations, the soil cuttings will be continuously characterized for composition and texture, along with field screening for indications of impacted soil by using visual methods and a photo-ionization detector ("PID"). No soil samples for laboratory analysis are anticipated during well installations, although soil sampling supplies will be available to obtain samples, if necessary.

The borings will be completed as two-inch diameter Schedule 40 PVC groundwater monitoring wells that will be screened with 20 feet of 2-inch diameter Schedule 40 PVC flush joint #10 slot screen. The wells will be gravel-packed from one foot below the maximum depth of the screen to two feet above the maximum height of the screen with a Morie #1 gravel pack. A fine sand-seal of Morie #00 sand and a 2-foot flexible bentonite-seal will be installed over the gravel. The wells will be backfilled from the

bentonite-seal to grade with drill cuttings that contain no indications of impacted soil, and the groundwater monitoring wells will be finished at grade with locking caps, locks that will be keyed alike, and 8-inch diameter manholes. Well construction logs, including soil characterization results, will be submitted with the initial groundwater monitoring report.

Proposed Well Development & Surveying

Subsequent to installation, the total depth of the wells and their depth-to water levels will be measured using a Solinst water level indicator to the nearest one-hundredth of a foot. The wells will then be developed by pumping groundwater from the wells. The groundwater will be discharged to the ground surface.

Based on an estimated 15 linear feet of groundwater in the wells, the well casing volume will be approximately 2.5 gallons. The development of the three wells will be performed by Enviroscience personnel using a Grundfos variable-speed RediFlow 2 submersible pump, and the following parameters will be measured using real-time instruments after each casing volume: temperature; pH; conductivity; and turbidity.

The development of the wells will be considered complete when there is a 10% or less difference in two consecutive parameter measurements, along with turbidity readings of less than 50 nephelometric turbidity units (“NTUs”). After their development, the groundwater monitoring wells will be surveyed for location and relative elevation in order to calculate the site-specific groundwater flow direction based on water level measurements that will be obtained during groundwater sampling events.

Proposed Groundwater Sampling

At least 48-hours after the development of the wells, the three groundwater monitoring wells will be purged and sampled. Prior to purging, the depths to groundwater in the wells will be measured to the nearest one-hundredth of a foot using a water level indicator.

During well purging, standard parameters (temperature, pH, conductivity, and turbidity) will be measured after each casing volume using real-time field-measuring equipment. The purge water will be discharged to the ground surface. The groundwater from each well will be sampled after at least three well casing volumes of water are purged from each well and there is a 10% or less difference in two consecutive parameter measurements, along with turbidity readings of less than 50 NTUs. A maximum five casing volumes will be purged from each well. If five casing volumes are reached prior to achieving stability, the wells will be sampled.

All of the groundwater samples for laboratory analysis will be obtained using dedicated polyethylene bailers, collected in laboratory-supplied containers, preserved properly, placed in an ice-filled cooler, and transported to York Analytical Laboratories, Inc., which is a National Environmental Laboratory Approval Program (NEVLAP)-accredited laboratory, New York Certification No. 10854. The samples will be analyzed for NYSDEC Part 375 parameters, which include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs),

pesticides, and an herbicide. The groundwater sampling event that will be performed immediately following the remedial activities will include NYSDEC Part 375 parameters, as well. After sample collection, the locking j-plugs and well covers were replaced to protect the wells. Also, a chain-of-custody form will be completed to document the sequence of sample possession.

Reporting

Subsequent to receiving the laboratory report, a report will be prepared to summarize the methods, results and conclusions of the groundwater sampling event. Also, the report will include well construction figures and soil characterization descriptions.

If this proposed Work Plan is acceptable to the NYSDEC, please notify us and the installation of the wells will be scheduled. The NYSDEC will be notified in advance of the well installations so that a representative from your office will have an opportunity to be present.

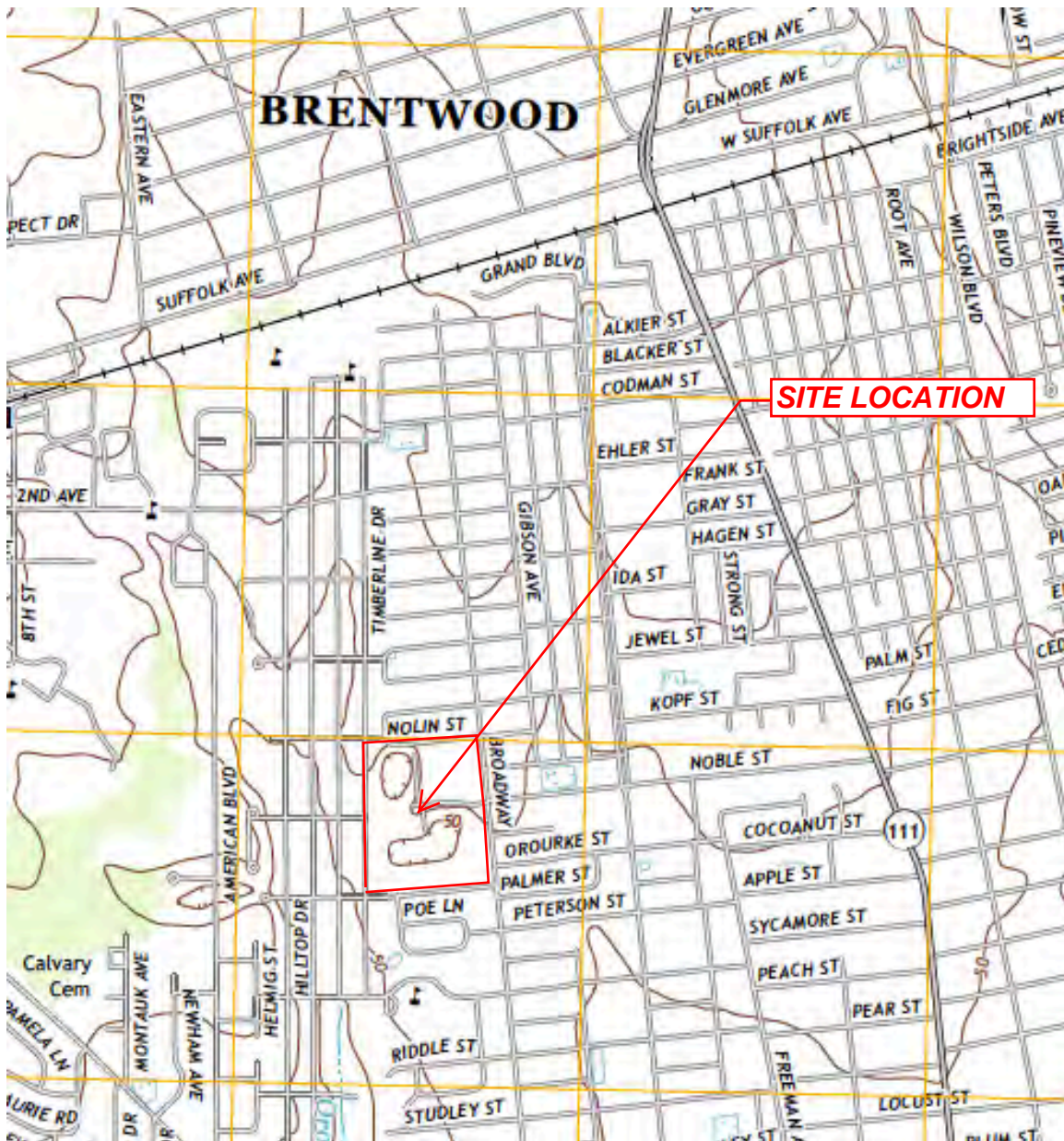
If there are any questions, please contact me.

Very truly yours,

A handwritten signature in cursive script that reads "Greg Menegio".

Greg Menegio
Department Manager/Sr. Scientist

Figure 1
Site Location
Roberto Clemente Park
400 Broadway, Brentwood, NY



Source: U.S. Geological Survey, 7.5-Minute Topographic Map, Central Islip, 2013



Google earth

feet
meters

1000

400



FIGURE 2: PROPOSED GROUNDWATER MONITORING WELL LOCATIONS
ROBERTO CLEMENTE TOWN PARK, 400 BROADWAY, BRENTWOOD, NY

ENVIROSCIENCE CONSULTANTS, INC.
ENVIRONMENTAL, ASBESTOS & LEAD CONSULTANTS
2150 SMITHTOWN AVENUE, SUITE 3, RONKONKOMA, NY 11779
PHONE 631.580.3191 FAX 631.580.3195

October 16, 2014

Mr. Syed Rahman, P.E.
NYSDEC
Division of Materials Management
50 Circle Road
Stony Brook, NY 11790-3409

Re: Roberto Clemente Town Park
400 Broadway, Brentwood, NY 11717

Dear Mr. Rahman:

Introduction

On behalf of our client, the Town of Islip ("Town"), Enviroscience Consultants, Inc. is providing this Groundwater Monitoring Well Installation and Monitoring Report for the above-referenced site. The installation and sampling of these wells was required by the New York State Department of Environmental Conservation ("NYSDEC") prior to any remedial activities of contaminated fill that was illegally disposed on the former soccer field and in the recharge basin.

Figure 1 shows the site's location, and Figure 2 shows the general site layout, including the locations of the groundwater monitoring wells.

Methods

Well Locations

The groundwater monitoring wells were installed at the site to establish baseline groundwater conditions and to evaluate whether there may be significant impacts to the groundwater beneath the site and its immediate vicinity from the illegal dumping of contaminated fill. The groundwater monitoring wells were installed using a subcontracted drilling company with oversight by Enviroscience personnel. NYSDEC personnel were present during the installation and sampling of the wells.

Two of the wells (MW-2 and MW-3) were installed as downgradient wells, and one well (MW-1) was installed as an upgradient well. The wells were installed in their proposed locations based on an estimated regional groundwater flow direction of southeast, which was obtained from our interpretation of the Suffolk County Department of Health Services ("SCDHS") Water Table Contours Map (March 2002). The subsequent surveying of the wells' relative elevations, determination of relative groundwater elevations, and calculation of the site-specific groundwater flow direction were consistent with the estimated regional groundwater flow direction. Table 1 shows the relative

groundwater elevation measurements. The site-specific groundwater flow direction was determined to be towards the southeast, which is shown in Figure 2.

The upgradient well (MW-1) was installed in a location that is sufficiently north of the impacted areas such that it's unlikely to be adversely affected by the contaminated fill.

For the downgradient wells, one well was installed on a grassy parking lot island, immediately southeast of the former soccer fields (MW-2). This location was selected since its downgradient of the former soccer fields and it would identify possible adverse impacts to groundwater earlier than a groundwater monitoring well further downgradient.

The second of the downgradient wells was installed immediately south of the impacted portion of the recharge basin (MW-3). This well was installed in the only reasonably accessible general location for a drill rig, which is downgradient of the recharge basin.

Well Construction

Prior to the installation of the groundwater monitoring wells, the one-call utility markout service was contacted to request identification of subsurface utilities in the drilling locations. Information regarding the presence and locations of subsurface utilities was also requested from the Town. At each groundwater monitoring well installation location, manual techniques, including the use of a post-hole digger and a hand auger, were used to hand-clear the locations to a depth of five feet.

For the well installation, a hollow-stem auger drill rig utilized 4.25-inch diameter augers to a total boring depth of approximately 31 feet for wells MW-1 and MW-2 and approximately 23 feet for well MW-3. Prior to well drilling, the equipment was decontaminated using a non-phosphate soap/potable wash with a potable water rinse. A copy of the well installation logs is provided in Attachment A.

During the well installations, the soil cuttings were continuously characterized for composition and texture, along with field screening for indications of impacted soil by using visual methods and a photo-ionization detector (PID). Based on this screening, there were no indications of impacted soil. Therefore, no soil samples for laboratory analysis were performed during well installations.

The borings were completed as two-inch diameter Schedule 40 PVC groundwater monitoring wells that were screened with 10 feet of 2-inch diameter Schedule 40 PVC flush joint #20 slot screen. The wells were gravel-packed from one foot below the maximum depth of the screen to three feet above the maximum height of the screen with a number 2 graded gravel set. A two-foot thick bentonite seal was installed, which consisted of two pounds of bentonite per gallon of water. The wells were backfilled from the bentonite-seal to grade with drill cuttings that contain no indications of impacted soil, and the groundwater monitoring wells were finished at grade with a 6-inch thick concrete pad, locking caps, locks that are keyed alike, and 8-inch diameter manholes. Upon completion of the wells, five 55-gallon drums of drill cuttings were generated, which will be properly disposed.

Well Development & Surveying

Subsequent to installation, the total depth of the wells and their depth-to-water levels were measured using a Solinst water level indicator. All equipment that was placed down the wells was decontaminated before their use. Pumping groundwater from the wells developed the wells, and the groundwater was discharged to the ground surface.

The development of the three wells was performed by Enviroscience personnel using a Grundfos variable-speed RediFlow 2 submersible pump, and the following parameters were measured using real-time instruments: temperature; pH; conductivity; and turbidity.

The development of the wells was considered complete when there is a 10% or less difference in two consecutive parameter measurements, along with turbidity readings of less than 50 nephelometric turbidity units (NTUs). After their development, the groundwater monitoring wells were surveyed for location and relative elevation in order to calculate the site-specific groundwater flow direction based on water level measurements that were obtained during the groundwater sampling event.

Groundwater Sampling

After the development of the wells, the three groundwater monitoring wells were purged and sampled. All equipment that was placed down the wells was decontaminated before their use. Prior to purging, the depths to groundwater in the wells were measured using a water level indicator.

During well purging, standard parameters (temperature, pH, conductivity, and turbidity) were measured after each casing volume using real-time field-measuring equipment. The purge water was discharged to the ground surface. The groundwater from each well was sampled after five casing volumes was purged from each well.

All of the groundwater samples for laboratory analysis were obtained using dedicated polyethylene bailers, collected in laboratory-supplied containers, preserved properly, placed in an ice-filled cooler, and transported to York Analytical Laboratories, Inc., which is a National Environmental Laboratory Approval Program (NEVLAP)-accredited laboratory, New York Certification No. 10854. The samples were analyzed for NYSDEC Part 375 parameters, which include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), pesticides, and an herbicide. Also, chain-of-custody forms were completed to document the sequence of sample possession.

Results & Discussion

Table 2 summarizes the detected compounds and metals from the groundwater monitoring event. A copy of the laboratory reports is provided in Attachment B.

The results show that there were no detected levels of compounds or metals except for the following: in the upgradient well MW-1 groundwater sample, the pesticides dieldrin and alpha-chlordane, along with the metals barium, manganese, and zinc; in the MW-2

groundwater sample, the SVOC naphthalene, along with the metals barium, copper, lead, manganese and zinc; and in the MW-3 groundwater sample, the VOC chloroform, and the SVOCs naphthalene and phenanthrene, along with the metals barium, copper, lead, manganese, and zinc.

The groundwater results were compared to the NYSDEC Class GA Ambient Water Quality Standards (Groundwater Standards), which is also shown in Table 2. The comparison shows that there are no exceedances of the NYSDEC Groundwater Standards except for dieldrin in the groundwater sample from the upgradient well (MW-1), which indicates its presence is not from the contaminated fill at the site, and manganese in downgradient well MW-3, which slightly exceeds its NYSDEC Groundwater Standard.

Conclusions & Recommendations

Based on the groundwater monitoring results, no significant impacts to the groundwater from the illegal disposal of contaminated fill at the site were identified at this time. Consequently, it's recommended that an additional round of groundwater monitoring should be performed immediately following the completion of remedial activities.

If there are any questions, please contact me.

Very truly yours,



Greg Menegio
Department Manager/Sr. Scientist

Figure 1
Site Location
Roberto Town Clemente Park
400 Broadway, Brentwood, NY



Source: U.S. Geological Survey, 7.5-Minute Topographic Map, Central Islip, 2013

FIGURE 2
GENERAL SITE LAYOUT
ROBERTO CLEMENTE TOWN PARK
400 BROADWAY, BRENTWOOD, NY



NOTES

- MEASUREMENTS ARE IN ACCORDANCE WITH U.S. STANDARDS.
- THE HORIZONTAL DATUM SHOWN ON THIS PLAN IS REFERENCED TO NYSPCS NAD 83 (2011) LI ZONE AND THE VERTICAL DATUM IS NAVD88 (GEOID12A), RTK GPS.
- UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
- ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S "EMBOSSSED" OR "INKED" SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

SUFFOLK COUNTY REAL PROPERTY TAX MAP NO.:
DISTRICT 0500
SECTION 185.00
BLOCK 01.00
LOTS 073.000, 074.000, 097.000,
094.002 & 101.002

I hereby certify that this map was made from an actual survey
completed by me on 09/29/2014.

DANIEL P. JEDLICKA, P.L.S.
NYSPLS No. 50098

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
Town of Islip Suffolk County, New York			
400 Broadway BRENTWOOD, NEW YORK			
Monitoring Well Plan ROBERTO CLEMENTE PARK			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS & LAND SURVEYORS 437 SO. COUNTRY ROAD, BROOKHAVEN, NEW YORK			
Surveyed By:	K.G./B.W.	Scale: 1"= 200'	Sheet No.
Drawn By:	T.L.S	Date: OCTOBER 9 2014	1
Approved By:	D.P.J.	File No. 14073.000	1

Table 1
Relative Groundwater Elevation Measurements
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
First Monitoring Event: September 30, 2014

Monitoring Well Number	MW-1	MW-2	MW-3
Location	Upgradient	Soccer Fields	Recharge Basin
Top of Casing	64.34	63.11	47.18
Depth to Water	23.40	23.10	8.00
Water Table Elevation	40.94	40.01	39.18
Note:			
All measurements are provided as relative measurements recorded in feet.			

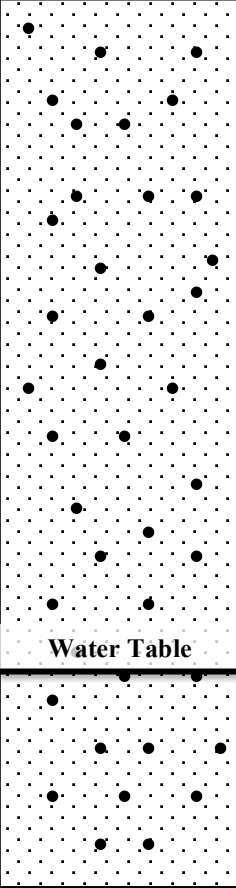
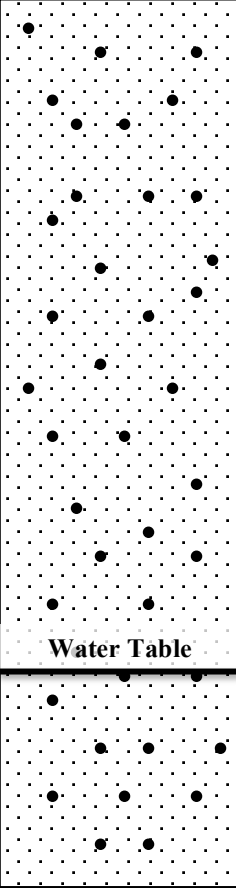
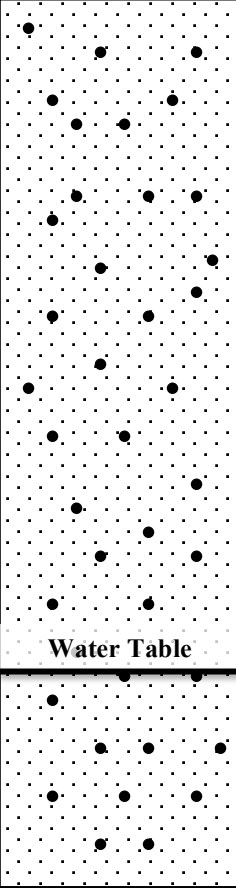
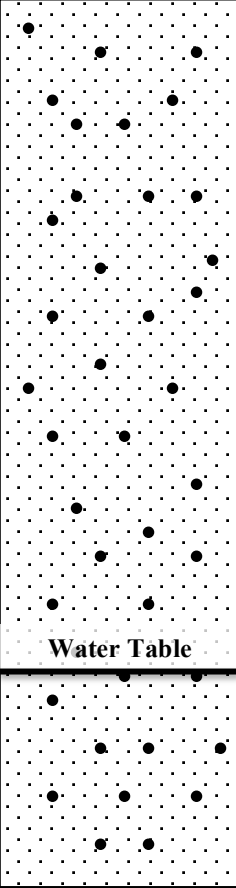
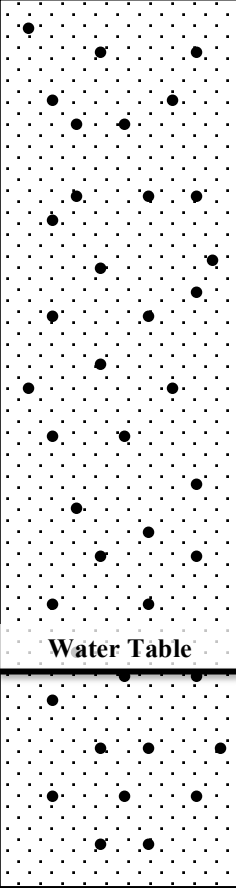
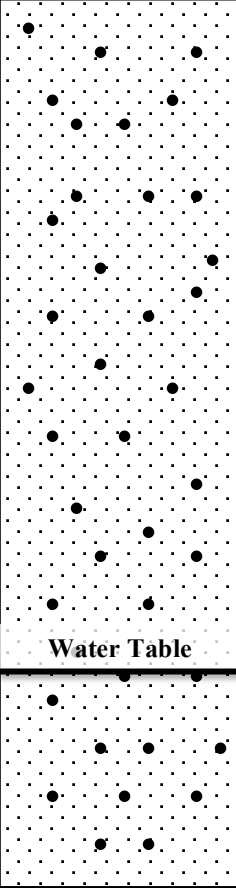
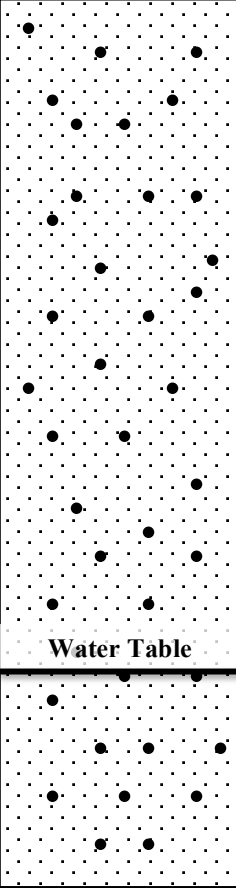
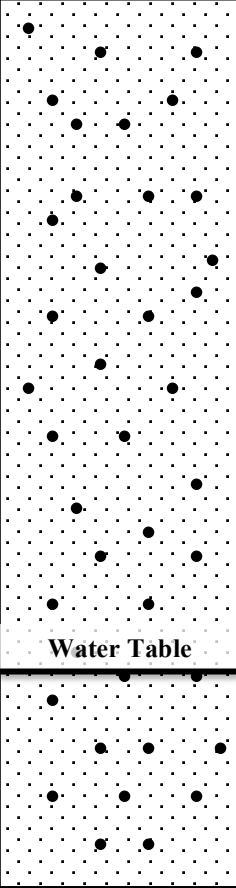
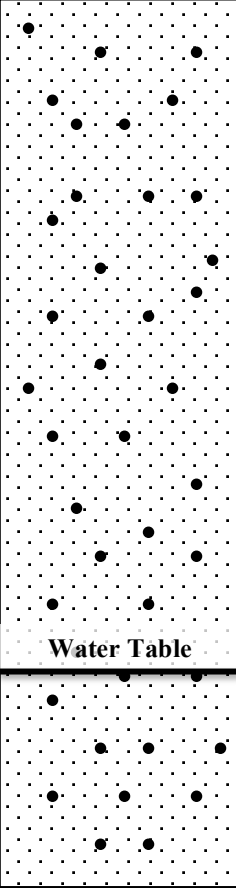
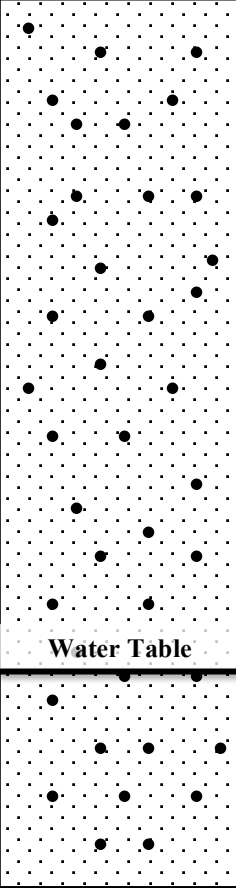
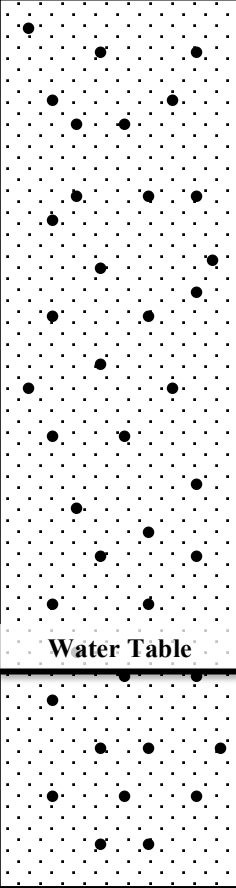
Table 2
Summary of Groundwater Chemical Analytical Results
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
First Monitoring Event: September 30, 2014

Monitoring Well Number	MW-1	MW-2	MW-3	NYSDEC Class GA Ambient Water Quality Standards
Location	Upgradient	Soccer Fields	Recharge Basin	
<i>Volatile Organic Compounds (VOCs) in micrograms per liter (ug/L)</i>				
Chloroform	ND	ND	0.22J	7
<i>Semi-Volatile Organic Compounds (SVOCs) in micrograms per liter (ug/L)</i>				
Naphthalene	ND	0.0923	0.215	50
Phenanthrene	ND	ND	0.0615	50
<i>Pesticides in micrograms per liter (ug/L)</i>				
Dieldrin	0.0205	ND	ND	0.004
alpha-Chlordane	0.00699	ND	ND	0.05
<i>Metals in milligrams per liter (mg/L)</i>				
Barium	0.030	0.070	0.064	1
Copper	ND	0.005	0.006	0.2
Lead	ND	0.005	0.016	0.025
Manganese	0.285	0.285	0.506	0.3
Zinc	0.015	0.016	0.020	2
Notes:				
Only detected compounds and metals are summarized in this table				
ND: Not Detected				
J: Estimated Concentration				
Bold value indicates an exceedence of the NYSDEC Class GA Ambient Water Quality Standards				

ATTACHMENT A
Well Installation Logs

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-1</i>	Total Depth:	<i>32 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 23.5 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>9/24/14</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
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-0-	0	Backfill		0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				5-14': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-4-		Bentonite Seal		14-16': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-6-	0			16-18': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-8-	0	# 2 well gravel		18-21': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-10-	0			21-24': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-12-	0	Water Table		24-26': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-14-	0			26-32': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-16-	0	Well Structure		
-18-	0			
-20-	0	Well Structure		
-22-	0			
-24-	0	Well Structure		
-26-	0			
-28-	0	Well Structure		
-30-	0			
-32-	0	Well Structure		
-34-	0			
-36-	0	Well Structure		
-38-	0			
-40-	0	Well Structure		

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-2</i>	Total Depth:	<i>31 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 23.5 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>9/24/14</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
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-0-	0			0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				
-4-				
-6-				
-8-	0			5-24': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-10-				
-12-				
-14-	0			24-26': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-16-	0			
-18-				
-20-	0			26-32': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-22-				
-24-	0			
-26-				
-28-				
-30-	0			
-32-				
-34-				
-36-				
-38-				
-40-				

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-3</i>	Total Depth:	<i>16 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 8.00 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>9/26/14</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
-0-	0			0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				5-9': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-4-				9-11': Spilt Spoon SW-light brown very fine to coarse sand with some gravel
-6-				11-17': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-8-	0			
-10-				
-12-				
-14-	0			
-16-	0			
-18-				
-20-	0			
-22-				
-24-	0			
-26-				
-28-				
-30-	0			
-32-				
-34-				
-36-				
-38-				
-40-				

Well Structure
0-6' Riser
16-6' Screen
0-2' Backfill
4-2' Bentonite
16-4' Well Gravel

ATTACHMENT B
Laboratory Reports



Technical Report

prepared for:

Enviroscience Consultants, Inc.

2150 Smithtown Avenue

Ronkonkoma NY, 11779

Attention: Greg Menegio

Report Date: 10/01/2014

Client Project ID: 400 Broadway

York Project (SDG) No.: 14J0006

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/01/2014
Client Project ID: 400 Broadway
York Project (SDG) No.: 14J0006

Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma NY, 11779
Attention: Greg Menegio

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 01, 2014 and listed below. The project was identified as your project: **400 Broadway**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14J0006-01	MW-1	Water	09/30/2014	10/01/2014
14J0006-02	MW-2	Water	09/30/2014	10/01/2014
14J0006-03	MW-3	Water	09/30/2014	10/01/2014

General Notes for York Project (SDG) No.: 14J0006

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/01/2014





Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0006-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0006

400 Broadway

Water

September 30, 2014 11:00 am

10/01/2014

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	10/01/2014 10:46	10/01/2014 10:55	SC

Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0006-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0006

400 Broadway

Water

September 30, 2014 12:15 pm

10/01/2014

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	10/01/2014 10:46	10/01/2014 10:55	SC

Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0006-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

14J0006

400 Broadway

Water

September 30, 2014 2:00 pm

10/01/2014

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	10/01/2014 10:46	10/01/2014 10:55	SC



Analytical Batch Summary

Batch ID: BJ40018

Preparation Method: Analysis Preparation

Prepared By: SC

YORK Sample ID	Client Sample ID	Preparation Date
14J0006-01	MW-1	10/01/14
14J0006-02	MW-2	10/01/14
14J0006-03	MW-3	10/01/14
BJ40018-BLK1	Blank	10/01/14
BJ40018-BS1	LCS	10/01/14
BJ40018-DUP1	Duplicate	10/01/14
BJ40018-MS1	Matrix Spike	10/01/14



Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ40018 - Analysis Preparation											
Blank (BJ40018-BLK1)								Prepared & Analyzed: 10/01/2014			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BJ40018-BS1)								Prepared & Analyzed: 10/01/2014			
Chromium, Hexavalent	0.447	0.0100	mg/L	0.500		89.4	80-120				
Duplicate (BJ40018-DUP1)								Prepared & Analyzed: 10/01/2014			
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BJ40018-MS1)								Prepared & Analyzed: 10/01/2014			
Chromium, Hexavalent	0.485	0.0100	mg/L	0.500	ND	97.0	75-125				



Notes and Definitions

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested _____ signature binds you to York's Std. Terms & Conditions.

York Project No. 140006

[illegible]



Technical Report

prepared for:

Enviroscience Consultants, Inc.

2150 Smithtown Avenue

Ronkonkoma NY, 11779

Attention: Kathryn Loddengaard

Report Date: 10/08/2014

Client Project ID: 400 Broadway

York Project (SDG) No.: 14J0057

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/08/2014
Client Project ID: 400 Broadway
York Project (SDG) No.: 14J0057

Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma NY, 11779
Attention: Kathryn Loddengaard

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 01, 2014 and listed below. The project was identified as your project: **400 Broadway**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14J0057-01	MW-1	Water	09/30/2014	10/01/2014
14J0057-02	MW-2	Water	09/30/2014	10/01/2014
14J0057-03	MW-3	Water	09/30/2014	10/01/2014

General Notes for York Project (SDG) No.: 14J0057

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/08/2014





Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0057-01

York Project (SDG) No.

14J0057

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

September 30, 2014 11:00 am

Date Received

10/01/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:13	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	69-130
460-00-4	Surrogate: p-Bromofluorobenzene	99.6 %	79-122
2037-26-5	Surrogate: Toluene-d8	93.9 %	81-117



Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0057-01

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 11:00 am

Date Received
10/01/2014

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 19:40	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 19:40	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 19:40	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 19:40	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:21	KH

Surrogate Recoveries		Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	20.0 %	10-53
4165-62-2	Surrogate: Phenol-d5	12.4 %	10-39
4165-60-0	Surrogate: Nitrobenzene-d5	76.3 %	10-120
321-60-8	Surrogate: 2-Fluorobiphenyl	54.5 %	10-108
118-79-6	Surrogate: 2,4,6-Tribromophenol	58.3 %	10-150
1718-51-0	Surrogate: Terphenyl-d14	55.0 %	10-143



Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0057-01

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 11:00 am

Date Received
10/01/2014

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
60-57-1	Dieldrin	0.0205		ug/L	0.00205	0.00205	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
5103-71-9	alpha-Chlordane	0.00699		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:26	JW
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	36.9 %	30-120								
877-09-8	Surrogate: Tetrachloro-m-xylene	76.5 %	30-120								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:36	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	74.0 %	30-120								
2051-24-3	Surrogate: Decachlorobiphenyl	56.0 %	30-120								



Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0057-01

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 11:00 am

Date Received
10/01/2014

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	10/06/2014 13:45	10/07/2014 14:56	JW
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	131 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-39-3	Barium	0.030		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7439-96-5	Manganese	0.285		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW
7440-66-6	Zinc	0.015		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:31	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	10/06/2014 13:43	10/06/2014 18:37	ALD

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation	10/08/2014 15:57	10/08/2014 16:00	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	10/07/2014 09:03	10/07/2014 14:52	AD



Sample Information

Client Sample ID: MW-1

York Sample ID: 14J0057-01

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 11:00 am

Date Received
10/01/2014

Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0057-02

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 12:15 pm

Date Received
10/01/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS



Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0057-02

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 12:15 pm

Date Received
10/01/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/06/2014 16:55	10/07/2014 06:45	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.2 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	103 %			79-122						
2037-26-5	Surrogate: Toluene-d8	93.8 %			81-117						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 20:10	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 20:10	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 20:10	KH
91-20-3	Naphthalene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/03/2014 20:10	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/03/2014 16:53	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	19.9 %			10-53						
4165-62-2	Surrogate: Phenol-d5	10.9 %			10-39						
4165-60-0	Surrogate: Nitrobenzene-d5	64.9 %			10-120						
321-60-8	Surrogate: 2-Fluorobiphenyl	50.1 %			10-108						
118-79-6	Surrogate: 2,4,6-Tribromophenol	71.4 %			10-150						



Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0057-02

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 12:15 pm

Date Received
10/01/2014

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: Terphenyl-d14	74.1 %			10-143						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
60-57-1	Dieldrin	ND		ug/L	0.00205	0.00205	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:41	JW
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	25.6 %	GC-Sur		30-120						
877-09-8	Surrogate: Tetrachloro-m-xylene	64.6 %			30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 04:55	AMC
Surrogate Recoveries		Result		Acceptance Range							



Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0057-02

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 12:15 pm

Date Received
10/01/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	61.0 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	39.5 %			30-120						

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	10/06/2014 13:45	10/07/2014 15:11	JW
	Surrogate Recoveries	Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	139 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-39-3	Barium	0.070		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-50-8	Copper	0.005		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7439-92-1	Lead	0.005		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7439-96-5	Manganese	0.285		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW
7440-66-6	Zinc	0.016		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:36	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	10/06/2014 13:43	10/06/2014 18:37	ALD

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW-2

York Sample ID: 14J0057-02

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 12:15 pm

Date Received
10/01/2014

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation	10/08/2014 15:57	10/08/2014 16:00	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	10/07/2014 09:03	10/07/2014 14:52	AD

Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0057-03

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 2:00 pm

Date Received
10/01/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
67-66-3	Chloroform	0.22	J	ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS



Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0057-03

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
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Date Received
10/01/2014

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	10/06/2014 16:55	10/07/2014 07:18	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %		69-130							
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %		79-122							
2037-26-5	Surrogate: Toluene-d8	93.1 %		81-117							

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	SR
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	SR



Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0057-03

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 2:00 pm

Date Received
10/01/2014

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	0.215		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
85-01-8	Phenanthrene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	SR
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	10/03/2014 08:03	10/06/2014 10:10	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	19.1 %				10-53					
4165-62-2	Surrogate: Phenol-d5	11.8 %				10-39					
4165-60-0	Surrogate: Nitrobenzene-d5	43.3 %				10-120					
321-60-8	Surrogate: 2-Fluorobiphenyl	52.3 %				10-108					
118-79-6	Surrogate: 2,4,6-Tribromophenol	52.3 %				10-150					
1718-51-0	Surrogate: Terphenyl-d14	61.7 %				10-143					

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
60-57-1	Dieldrin	ND		ug/L	0.00205	0.00205	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	0.00410	1	EPA 8081B	10/03/2014 08:26	10/06/2014 11:56	JW
Surrogate Recoveries		Result		Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	27.0 %	GC-Sur r			30-120					
877-09-8	Surrogate: Tetrachloro-m-xylene	54.8 %				30-120					



Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0057-03

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 2:00 pm

Date Received
10/01/2014

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A	10/03/2014 08:26	10/07/2014 05:14	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	48.5 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	36.5 %			30-120						

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	10/06/2014 13:45	10/07/2014 15:25	JW
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	133 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-39-3	Barium	0.064		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-50-8	Copper	0.006		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7439-92-1	Lead	0.016		mg/L	0.003	0.003	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7439-96-5	Manganese	0.506		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW
7440-66-6	Zinc	0.020		mg/L	0.010	0.010	1	EPA 6010C	10/03/2014 14:46	10/04/2014 01:41	MW



Sample Information

Client Sample ID: MW-3

York Sample ID: 14J0057-03

York Project (SDG) No.
14J0057

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
September 30, 2014 2:00 pm

Date Received
10/01/2014

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	10/06/2014 13:43	10/06/2014 18:37	ALD

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation	10/08/2014 15:57	10/08/2014 16:00	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	10/08/2014 07:59	10/08/2014 16:17	AD



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14J0057-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0057-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
14J0057-03	MW-3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
GC-Surr	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



Corrective Action: Client submitted samples for Hexavalent Chromium separately via FED EX. Samples received 10/1/14 and logged under York WO 14J0006. Remaining sample parameters received via York courier on 10/1/14 PM.

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested. signature binds you to York's Std. Terms & Conditions.

York Project No. 14J0057

YOUR Information Company: <u>Enviroscience</u> Address: _____ Phone No. _____ Contact Person: <u>Kathryn Loddengard</u> E-Mail Address: _____		Report To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: <u>Same</u> E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: <u>Greg Menegio</u> E-Mail Address: _____		YOUR Project ID <u>400 Broadway</u> Purchase Order No. Samples from: CT _____ NY <input checked="" type="checkbox"/> NJ _____		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		Report Type Summary Report <input checked="" type="checkbox"/> Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQA/DUE Pkg _____ NY ASP A Package _____ NY ASP B Package _____ NUDEP Red. Deliv. _____ <u>Electronic Data Deliverables (EDD)</u> Simple Excel _____ NYSDEC EQulS _____ EQulS (std) _____ EZ-EDD (EQulS) _____ NUDEP SRP HazSite EDD _____ GIS/KEY (std) _____ Other _____ York Regulatory Comparison _____ Excel Spreadsheet _____ Compare to the following Regs. (please fill in): _____																																																																																					
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Page 1 of 1

FAX (203) 357-0166

Report type

375 w/ OA c

DQA/DUE Pkg

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p B Package

Red. Deliv.

Kathryn Loddengaard
Samples Collected/Authorized By (Signature)
Kathryn Loddengaard
Name (printed)

~~Samples Collected/Authorized By (Signature)~~

Kathryn Good

Container

Description(s)

1

[illegible]

Tempe

on Re

✓

5



TOWN OF ISLIP

655 MAIN STREET • ISLIP, NEW YORK 11751 • (631) 595-5500

February 10, 2015

Syed H. Rahman, P.E.
Regional Solid & Hazardous Materials Engineer
NYS Department of Environmental Conservation
Region 1
50 Circle Road
Stony Brook, NY 11790-3409

**Re: Transmittal of: *Groundwater Sampling Report* dated 2/10/15
For the Town of Islip Roberto Clemente Park**

Dear Mr. Rahman:

Transmitted herewith, please find a copy of the *Groundwater Sampling Report* dated 2/10/15, for the most recent sampling event at the Town's Roberto Clemente Park.

As indicated in the report, there are certain exceedances for some of the sampled constituents. As discussed in today's meeting, and as recommended by our Consultant, the Town hereby recommends that all permanent Groundwater Wells be re-sampled for metals only.

The Town will make arrangements to coordinate a date and time for you to be present for the next round of sampling, which is scheduled for next week.

Your assistance in this matter is greatly appreciated.

Very truly yours:

Eric M. Hofmeister
Deputy Supervisor

Inez Birbiglia
Deputy Commissioner

EMH:clb

cc: File

ENVIROSCIENCE CONSULTANTS, INC.
ENVIRONMENTAL, ASBESTOS & LEAD CONSULTANTS
2150 SMITHTOWN AVENUE, SUITE 3, RONKONKOMA, NY 11779
PHONE 631.580.3191 FAX 631.580.3195

February 10, 2014

Mr. Syed Rahman, P.E.
NYSDEC
Division of Materials Management
50 Circle Road
Stony Brook, NY 11790-3409

Re: Roberto Clemente Town Park
400 Broadway, Brentwood, NY 11717

Dear Mr. Rahman:

Introduction

On behalf of our client, the Town of Islip (Town), Enviroscience Consultants, Inc. is providing this Additional Groundwater Monitoring Well Installation and Monitoring Report for the above-referenced site. The installation and sampling of these additional wells were required by the New York State Department of Environmental Conservation (NYSDEC) prior to any contaminated fill removal activities in connection with the former soccer fields and the recharge basin.

Figure 1 shows the site's location, and Figure 2 shows the general site layout, including the locations of the three original groundwater monitoring wells (MW-1, MW-2 and MW-3), along with the additional wells (MW-4S, MW-4D, MW-5S and MW-5D).

Methods

Well Locations & Construction

The additional groundwater monitoring wells were installed to establish a more complete assessment of baseline groundwater conditions and to evaluate whether there may be significant impacts to the groundwater beneath the site from the illegal dumping of contaminated fill. The groundwater monitoring wells were installed using a subcontracted drilling company with oversight by Enviroscience personnel. NYSDEC personnel were present during the installation and sampling of the wells.

All of the additional wells were installed as downgradient wells, and their locations were selected based on our site visit with NYSDEC personnel. Groundwater monitoring wells MW-4S and MW-4D were installed approximately 300 feet south of the former soccer fields, while groundwater monitoring wells MW-5S and MW-5D were installed in the southeastern-most portion of the property.

Prior to the installation of the groundwater monitoring wells, the one-call utility markout service was contacted to request identification of subsurface utilities in the drilling locations. Information regarding the presence and locations of subsurface utilities was also requested from the Town. At each groundwater monitoring well installation location, manual techniques, including the use of a post-hole digger and a hand auger, were used to hand-clear the locations to a depth of five feet.

For the well installation, a hollow-stem auger drill rig utilized 4.25-inch diameter augers to a total boring depth of approximately 28 feet for well MW-4S, 60 feet for well MW-4D, 26 feet for well MW-5S, and 56 feet for well MW-5D. Prior to well drilling, the equipment was decontaminated using a non-phosphate soap/potable wash with a potable water rinse.

During the well installations, the soil cuttings were continuously characterized for composition and texture, along with field screening for indications of impacted soil by using visual methods and a photo-ionization detector (PID). Based on this screening, there were no indications of impacted soil. Therefore, no soil samples for laboratory analysis were performed during well installations.

The borings were completed as two-inch diameter Schedule 40 PVC groundwater monitoring wells that were screened with 10 feet of 2-inch diameter Schedule 40 PVC flush joint #20 slot screen. The wells were gravel-packed from one foot below the maximum depth of the screen to three feet above the maximum height of the screen with a number 2 graded gravel set. A two-foot thick bentonite seal was installed, which consisted of two pounds of bentonite per gallon of water. The wells were backfilled from the bentonite-seal to grade with drill cuttings that contain no indications of impacted soil, and the groundwater monitoring wells were finished at grade with a 6-inch thick concrete pad, locking caps, locks that are keyed alike, and 8-inch diameter manholes. A copy of the well installation logs is provided in Attachment A. Upon completion of the wells, ten 55-gallon drums of drill cuttings were generated, which will be properly disposed during the contaminated fill removal effort.

Wells MW-4S and MW-5S were installed as water table wells to further evaluate shallow groundwater conditions, while wells MW-4D and MW-5D were installed approximately 30 feet below the water table to evaluate deeper groundwater. The subsequent surveying of the wells' relative casing elevations was performed to determine relative groundwater elevations in order to calculate a site-specific groundwater flow direction.

Well Development & Surveying

Subsequent to installation, the total depth of the wells and their depth-to-water levels were measured using a Solinst water level indicator. All equipment that was placed down the wells was decontaminated before their use. Pumping groundwater from the wells developed the wells, and the groundwater was discharged to the ground surface.

The development of the wells was performed by Enviroscience personnel using a Grundfos variable-speed RediFlow 2 submersible pump, and the following parameters were measured using real-time instruments: temperature; pH; conductivity; and turbidity.

The development of the wells was considered complete when there is a 10% or less difference in two consecutive parameter measurements, along with turbidity readings of less than 50 nephelometric turbidity units (NTUs). After their development, the additional groundwater monitoring wells were surveyed using a licensed surveyor for location and relative elevation in order to calculate the site-specific groundwater flow direction based on water level measurements that were obtained during the groundwater sampling event.

Groundwater Sampling

After the development of the wells, the additional groundwater monitoring wells were purged and sampled. All equipment that was placed down the wells was decontaminated before their use. Prior to purging, the depths to groundwater in the wells were measured using a water level indicator, however, only the water table measurements for the water table wells (shallow wells) were used to calculate the site-specific groundwater flow direction.

Table 1 shows the relative groundwater elevation measurements. The site-specific groundwater flow direction was calculated to be towards the southeast, which is shown in Figure 2. This calculated site-specific groundwater flow direction is consistent with the estimated regional groundwater flow direction, along with the previous site-specific groundwater flow direction that was calculated for our October 16, 2014 report.

During well purging, standard parameters (temperature, pH, conductivity, and turbidity) were measured after each casing volume using real-time field-measuring equipment. Table 2 summarizes these results. The purge water was discharged to the ground surface. The groundwater from each well was sampled after five casing volumes were purged from each well.

All of the groundwater samples for laboratory analysis were obtained using dedicated polyethylene bailers, collected in laboratory-supplied containers, preserved properly, placed in an ice-filled cooler, and transported to York Analytical Laboratories, Inc., which is a National Environmental Laboratory Approval Program (NEVLAP)-accredited laboratory, New York Certification No. 10854. The samples were analyzed for NYSDEC Part 375 parameters, which include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), pesticides, and an herbicide. Also, chain-of-custody forms were completed to document the sequence of sample possession.

Results & Discussion

Table 3 summarizes the detections for all of the wells, which includes the results for MW-4S, MW-4D, MW-5S, and MW-5D from this groundwater monitoring event, along

with the results from the original sampling event for MW-1, MW-2, and MW-3. The laboratory report for the January 2015 event is provided in Attachment B.

For the January 2015 groundwater monitoring event, the results show that there were a select number of VOCs and SVOCs detected in the samples, along with the pesticide dieldrin and several metals. The results of this groundwater monitoring event were generally similar to the previous groundwater monitoring event except that more metals were detected in the samples and these levels were higher.

The most recent groundwater results were compared to the NYSDEC Class GA Ambient Water Quality Standards (Groundwater Standards), which is also shown in Table 3. The comparison shows that there are no exceedances of the Groundwater Standards except for dieldrin in wells MW-4S, MW-5S, and MW-5D, which appears to be from an upgradient source since dieldrin was detected in the upgradient well (MW-1), and several metals. The results from the original groundwater monitoring event showed that only manganese exceeded its Groundwater Standard, however, there are several additional exceedances for metals from this groundwater monitoring event.

Based on the difference in the metals concentrations between the original groundwater monitoring event and the most recent groundwater monitoring event, it's our professional judgment at this time that the groundwater samples for metals analysis from the most recent groundwater monitoring effort may have been affected and artificially elevated by turbidity effects. As you know, turbidity effects occur when wells produce higher amounts of sediment in groundwater samples, which adversely affects the data quality for metals analyses since metals occur naturally in sediments, while turbidity effects do not significantly impact data quality for other analyses.

Conclusions & Recommendations

Based on the groundwater monitoring results, no significant impacts to the groundwater from the illegal disposal of contaminated fill were identified except for metals, however, adverse effects from turbidity in the samples, which could artificially elevate the metals results, cannot be ruled out at this time. Therefore, we strongly advocate for an additional round of groundwater samples for total metals analysis from all of the wells at this time. Similar to the previous groundwater monitoring events, the Department would be notified in advance so that a NYSDEC representative would be present.

If there are any questions, please contact me.

Very truly yours,



Greg Menegio
Department Manager/Sr. Scientist

Figure 1
Site Location
Roberto Town Clemente Park
400 Broadway, Brentwood, NY



Source: U.S. Geological Survey, 7.5-Minute Topographic Map, Central Islip, 2013

FIGURE 2
GENERAL SITE LAYOUT
ROBERTO CLEMENTE TOWN PARK
400 BROADWAY, BRENTWOOD, NY



DEPTH -TO-WATER MEASUREMENTS OBTAINED BY ENVIROSCIENCE ON JANUARY 13, 2015

NOTES

- MEASUREMENTS ARE IN ACCORDANCE WITH U.S. STANDARDS.
- THE HORIZONTAL DATUM SHOWN ON THIS PLAN IS REFERENCED TO NYSPCS NAD 83 (2011) LI ZONE AND THE VERTICAL DATUM IS NAVD88 (GEOID12A), RTK GPS.
- UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
- ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S "EMBOSSSED" OR "INKED" SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

SUFFOLK COUNTY REAL PROPERTY TAX MAP NO.:
DISTRICT 0500
SECTION 185.00
BLOCK 01.00
LOTS 073.000, 074.000, 097.000,
094.002 & 101.002

I hereby certify that this map was made from an actual survey completed by me on 09/29/2014 and updated 1/13/2014.

DANIEL P. JEDLICKA, P.L.S.
NYSPLS No. 50098

DATE	BY	DESCRIPTION	APPROV. BY
REVISIONS			
Town of Islip Suffolk County, New York			
400 Broadway BRENTWOOD, NEW YORK			
Monitoring Well Plan ROBERTO CLEMENTE PARK			
L. K. McLEAN ASSOCIATES, P.C. CONSULTING ENGINEERS & LAND SURVEYORS 437 SO. COUNTRY ROAD, BROOKHAVEN, NEW YORK			
Surveyed By:	K.G./B.W.	Scale: 1"= 200'	Sheet No.
Drawn By:	T.L.S.	Date: OCTOBER 9 2014	1
Approved By:	D.P.J.	File No. 14073.000	1

Table 1
Relative Groundwater Elevation Measurements
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
January 13, 2015

Monitoring Well Number	MW-1	MW-2	MW-3	MW-4S	MW-4D	MW-5S	MW-5D
Screen Interval	21-31 feet below top of casing	21-31 feet below top of casing	6-16 feet below top of casing	18-28 feet below top of casing	50-60 feet below top of casing	16-26 feet below top of casing	46-56 feet below top of casing
Location	Upgradient	Soccer Fields	Recharge Basin	Playground	Playground	Downgradient	Downgradient
Top of Casing	64.34	63.11	47.18	61.02	61.17	57.60	57.83
Depth to Water	23.45	23.11	7.95	21.26	21.37	18.00	18.76
Water Table Elevation	40.89	40.00	39.23	39.76	39.80	38.80	39.07
Note:							
All measurements are provided as relative measurements recorded in feet.							

Table 2
Groundwater Sampling Parameters
January 13, 2015
Roberto Clemente Town Park
400 Broadway, Brentwood, NY

MW-4D				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.51	316	464	12.7
2	5.98	307	47.5	12.5
3	5.92	309	42.8	12.9
4	6.06	310	5.10	12.8
5	6.05	310	5.08	12.8

MW-4S				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.68	163	700	9.0
2	6.37	168	643	11.9
3	6.29	184	479	12.1
4	6.29	177	158	11.5
5	6.17	178	68.4	11.7

MW-5D				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.38	389	227	9.0
2	6.45	387	33.3	9.3
3	6.26	398	10.7	10.9
4	6.20	403	5.10	11.1
5	6.16	404	2.86	11.2

MW-5S				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.94	277	1000	8.0
2	7.02	279	1000	8.1
3	6.86	294	776	7.7
4	6.95	297	382	7.2
5	6.98	292	108	8.5

Table 3
Groundwater Laboratory Results Summary
Roberto Clemente Town Park
400 Broadway, Brentwood, NY

Sample Location	MW-1	MW-2	MW-3	MW-4S	MW-4D	MW-5S	MW-5D	NYSDEC Class GA Ambient Water Quality Standards & Guidance Values
Screen Interval**	21-31 ft	21-31 ft	6-16 ft	18-28 ft	50-60 ft	16-26 ft	46-56 ft	
Volatile Organic Compounds (VOCs) in micrograms per liter (ug/L)								
Acetone	ND	ND	ND	ND	ND	ND	11	50
Chloroform	ND	ND	0.22J	ND	1.3	ND	2.6	7
Toluene	ND	ND	ND	ND	0.29 J	ND	ND	5*
Semi-Volatile Organic Compounds (SVOCs) in micrograms per liter (ug/L)								
Fluorene	ND	ND	ND	0.388	ND	ND	ND	50
Naphthalene	ND	0.0923	0.215	ND	0.0923	ND	ND	10
Phenanthrene	ND	ND	0.0	ND	0.0615	ND	ND	50
Pesticides in micrograms per liter (ug/L)								
Dieldrin	0.0205	ND	ND	0.181	ND	0.00440	0.0133	0.004
alpha-Chlordane	0.00699	ND	ND	0.0113	ND	ND	ND	0.05
Metals in milligrams per liter (mg/L)								
Arsenic	ND	ND	ND	0.014	ND	0.014	ND	0.025
Barium	0.030	0.070	0.064	0.291	0.036	0.274	0.028	1
Chromium	ND	ND	ND	0.114	0.007	0.052	ND	0.05
Copper	ND	0.005	0.006	0.072	0.008	0.062	0.009	0.2
Lead	ND	0.005	0.016	0.067	ND	0.036	ND	0.025
Manganese	0.285	0.285	0.506	4.08	0.896	4.22	0.311	0.3
Nickel	ND	ND	ND	0.066	ND	0.057	ND	0.1
Selenium	ND	ND	ND	0.012	ND	0.016	ND	0.01
Zinc	0.015	0.016	0.020	0.192	0.044	0.189	0.032	2

Notes:

Only detected compounds and metals are summarized in this table

ND = not detected

J = estimated concentration

* = The Principal Organic Contaminant Standard applies to this compound

** = The screen interval is provided in feet below top of casing.

Bold values indicates an exceedence of the New York State Department of Environmental Conservation (NYSDEC) Class GA Ambient Water Quality Standards & Guidance Values

ATTACHMENT A
Well Installation Logs

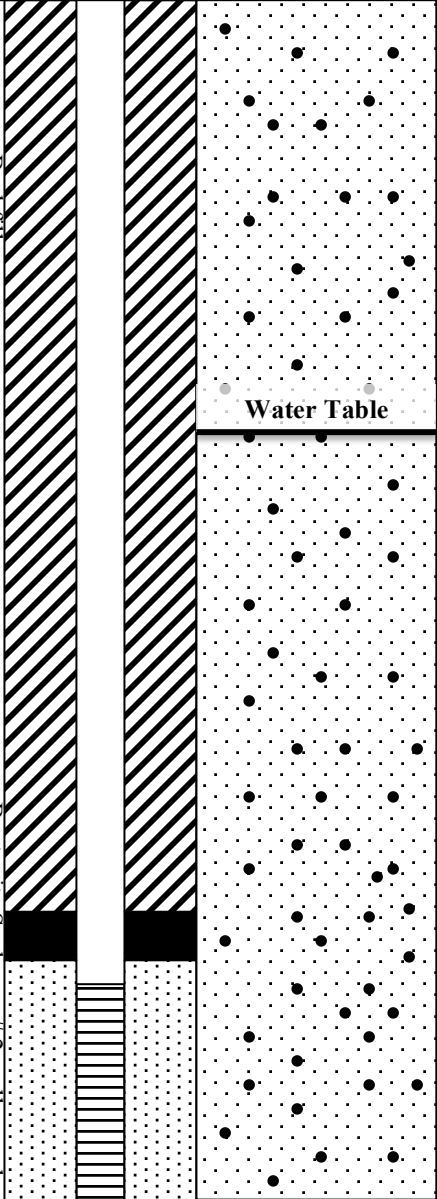
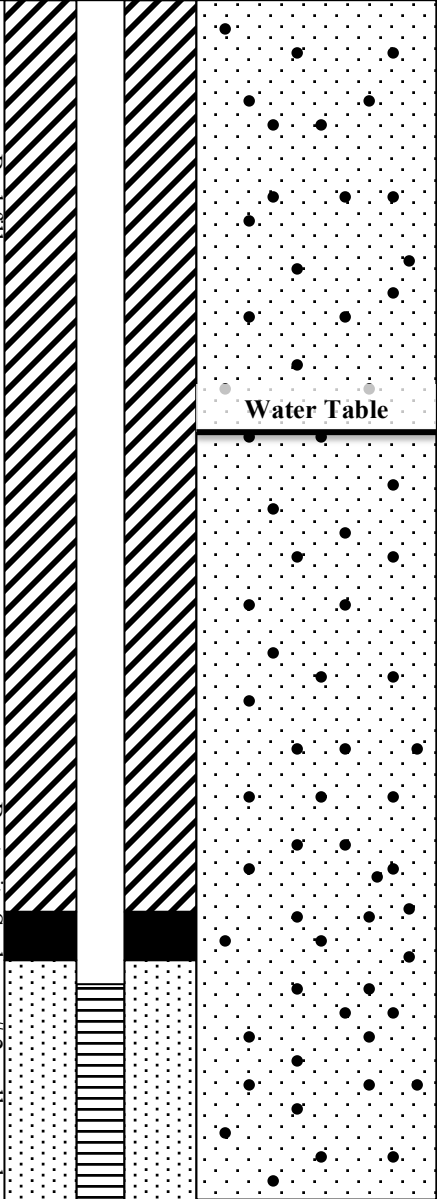
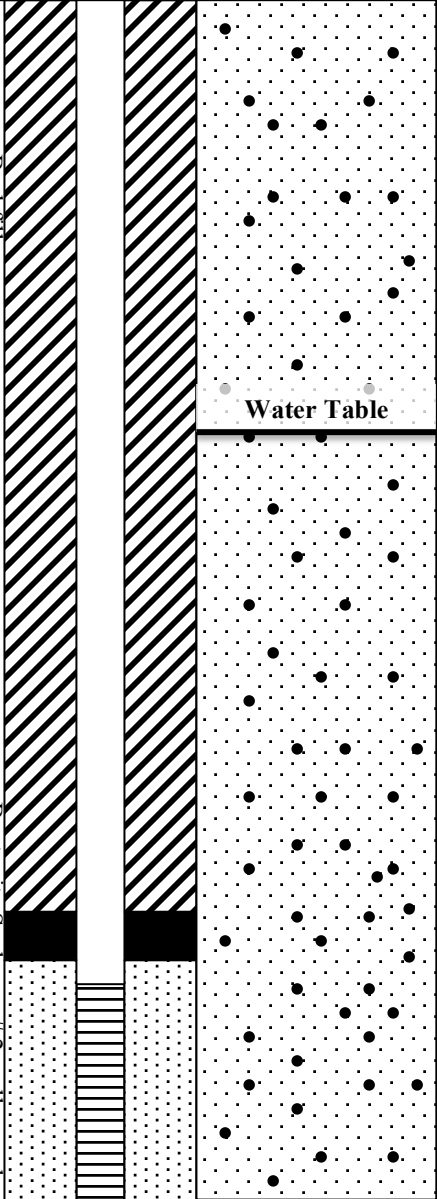
Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-4S</i>	Total Depth:	<i>28 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 21.30 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>1/6/15</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
-----------------	--------------	----------------------	----------------	---

-0-	0			<p>0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel</p> <p>5-28': Drill Cuttings SW-light brown very fine to coarse sand with some gravel</p> <p>Well Structure 0-18' Riser 18-28' Screen 0-14' Backfill 14-16' Bentonite 16-28' Well Gravel</p>
-2-				
-4-				
-6-				
-8-	0			
-10-				
-12-				
-14-	0			
-16-	0			
-18-				
-20-	0			
-22-				
-24-	0			
-26-				
-28-				
-30-	0			
-32-				
-34-				
-36-				
-38-				
-40-				

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-4D</i>	Total Depth:	<i>60 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 21.37 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>1/6/15</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
-----------------	--------------	----------------------	----------------	---

-0-	0	Backfill		0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				
-4-				
-6-				5-60': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-8-				
-10-				
-12-	0			
-14-				
-16-				
-18-				
-20-	0	Bentonite Seal		
-22-	0			
-24-				
-26-				
-28-	0			
-30-				
-32-				
-34-	0			
-36-				
-38-				
-40-		# 2 well gravel		
-42-	0			
-44-				
-46-				
-48-				
-50-				
-52-				
-54-				
-56-				
-58-				
-60-				
-62-				

0-5': Hand Cleared
SW-light brown very fine to coarse sand with some gravel

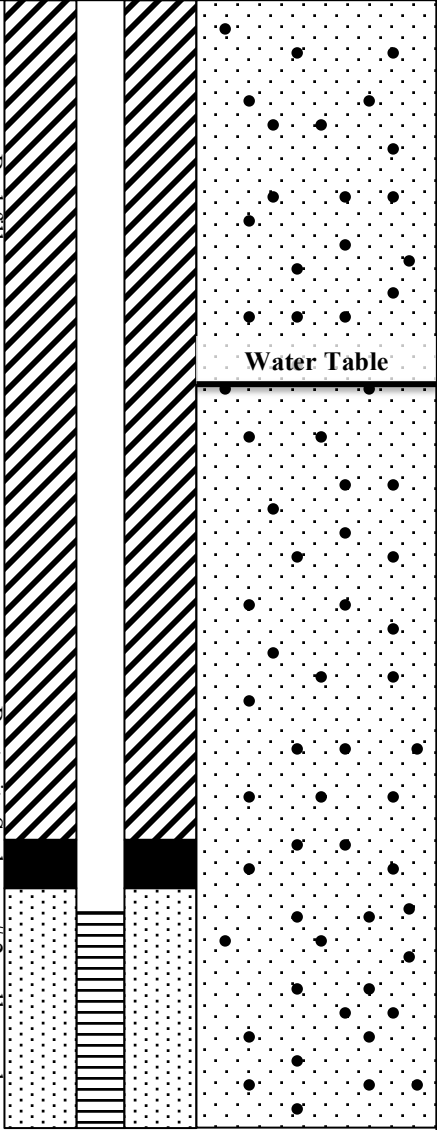
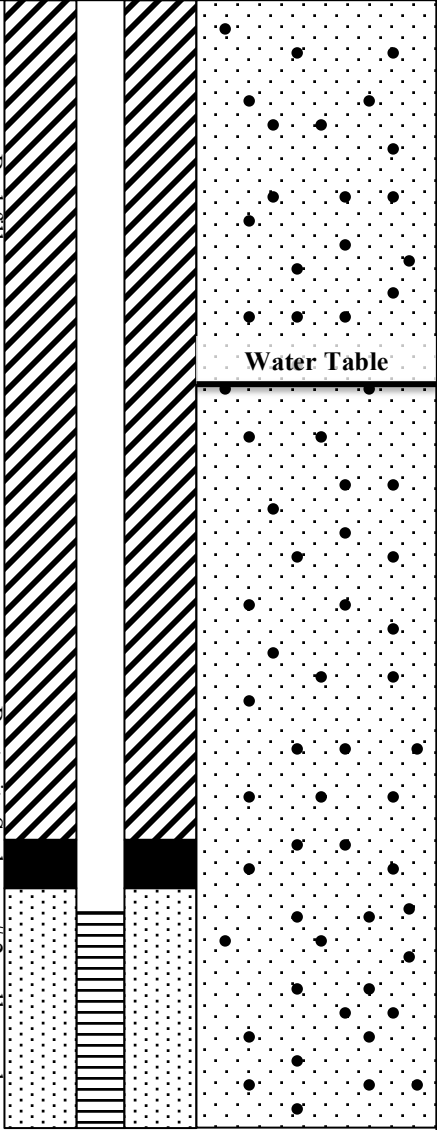
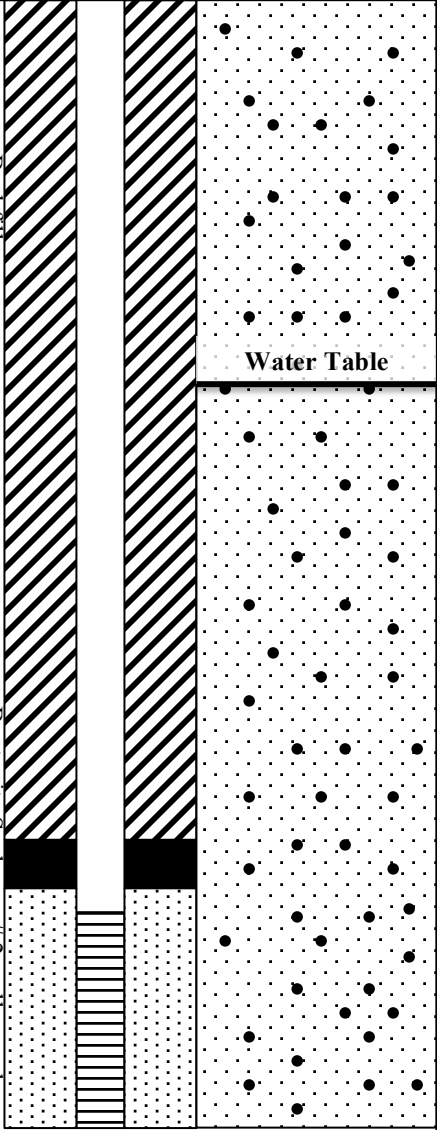
5-60': Drill Cuttings
SW-light brown very fine to coarse sand with some gravel

Well Structure
0-50' Riser
50-60' Screen
0-46' Backfill
46-48' Bentonite
48-60' Well Gravel

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-5S</i>	Total Depth:	<i>26 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 18.70 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>1/7/15</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
-0-	0			0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				5-10': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-4-				10-12': Spilt Spoon SW-light brown very fine to coarse sand
-6-				12-14': Spilt Spoon SW-light brown very fine to coarse sand
-8-	0			14-16': Spilt Spoon SW-light brown very fine to coarse sand
-10-				17-19': Spilt Spoon SW-light brown very fine to coarse sand
-12-				19-26': Drill Cuttings SW-light brown very fine to coarse sand
-14-	0			
-16-	0			
-18-				
-20-	0			
-22-				
-24-	0			
-26-				
-28-				
-30-				
-32-				
-34-				
-36-				
-38-				
-40-				

Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-5D</i>	Total Depth:	<i>56 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible signs of contamination were noted.
Driller:	<i>Land, Air, Water Environmental Services</i>			Depth to water is 18.76 ft
Log By:	<i>Loddengaard</i>	Drill Date:	<i>1/7/15</i>	

Depth (Feet)	PID (ppm)	Well Construction	Graphic Log	Description/Soil Classification (reported in Feet Below Grade)
-0-	0	Backfill		0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				
-4-				
-6-				
-8-				
-10-				
-12-	0			5-56': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-14-				
-16-				
-18-				
-20-	0	Bentonite Seal		
-22-	0			
-24-				
-26-				
-28-	0			
-30-				
-32-				
-34-	0			
-36-				
-38-				
-40-		# 2 well gravel		
-42-	0			
-44-				
-46-				
-48-				
-50-				
-52-				
-54-				
-56-				
-58-				
-60-				
-62-				

0-5': Hand Cleared
SW-light brown very fine to coarse sand with some gravel

5-56': Drill Cuttings
SW-light brown very fine to coarse sand with some gravel

Well Structure
0-46' Riser
46-56' Screen
0-42' Backfill
42-44' Bentonite
44-56' Well Gravel

ATTACHMENT B
Laboratory Report



Technical Report

prepared for:

Enviroscience Consultants, Inc.

2150 Smithtown Avenue

Ronkonkoma NY, 11779

Attention: Kathryn Loddengaard

Report Date: 01/20/2015

Client Project ID: 400 Broadway

York Project (SDG) No.: 15A0339

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 01/20/2015
Client Project ID: 400 Broadway
York Project (SDG) No.: 15A0339

Enviroscience Consultants, Inc.
2150 Smithtown Avenue
Ronkonkoma NY, 11779
Attention: Kathryn Loddengaard

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 13, 2015 and listed below. The project was identified as your project: **400 Broadway**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15A0339-01	MW4D	Water	01/13/2015	01/13/2015
15A0339-02	MW4S	Water	01/13/2015	01/13/2015
15A0339-03	MW5D	Water	01/13/2015	01/13/2015
15A0339-04	MW5S	Water	01/13/2015	01/13/2015

General Notes for York Project (SDG) No.: 15A0339

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 01/20/2015





Sample Information

Client Sample ID: MW4D

York Sample ID: 15A0339-01

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 10:55 am

Date Received

01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
67-66-3	Chloroform	1.3		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
108-88-3	Toluene	0.29	J	ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/19/2015 12:54	01/19/2015 20:59	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	79-122								
2037-26-5	Surrogate: Toluene-d8	96.7 %	81-117								



Sample Information

Client Sample ID: MW4D

York Sample ID: 15A0339-01

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 10:55 am

Date Received
01/13/2015

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:06	SR
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:06	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:06	SR
91-20-3	Naphthalene	0.0923		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
85-01-8	Phenanthrene	0.0615		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:06	SR
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D	01/16/2015 07:57	01/16/2015 15:49	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	22.7 %	10-47								
4165-62-2	Surrogate: Phenol-d5	17.7 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	42.6 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	35.7 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	44.8 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	45.8 %	10-137								



Sample Information

Client Sample ID: MW4D

York Sample ID: 15A0339-01

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 10:55 am

Date Received
01/13/2015

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
309-00-2	Aldrin	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
319-84-6	alpha-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
319-85-7	beta-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
319-86-8	delta-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
60-57-1	Dieldrin	ND		ug/L	0.00222	0.00222	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
959-98-8	Endosulfan I	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
72-20-8	Endrin	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
76-44-8	Heptachlor	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00444	0.00444	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:00	JW
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	34.2 %	30-120								
877-09-8	Surrogate: Tetrachloro-m-xylene	35.4 %	30-120								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0556	0.0556	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:03	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	50.2 %	30-120								
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %	30-120								



Sample Information

Client Sample ID: MW4D

York Sample ID: 15A0339-01

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 10:55 am

Date Received
01/13/2015

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	01/16/2015 05:53	01/17/2015 04:43	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	85.2 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-39-3	Barium	0.036		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-47-3	Chromium	0.007		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-50-8	Copper	0.008		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7439-96-5	Manganese	0.896		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW
7440-66-6	Zinc	0.044		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:44	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/14/2015 08:50	01/14/2015 12:37	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	01/13/2015 19:22	01/13/2015 19:48	SCA

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation	01/20/2015 16:20	01/20/2015 16:23	PAM



Sample Information

Client Sample ID: MW4D

York Sample ID: 15A0339-01

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 10:55 am

Date Received

01/13/2015

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	01/16/2015 08:28	01/16/2015 15:59	AD

Sample Information

Client Sample ID: MW4S

York Sample ID: 15A0339-02

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 11:35 am

Date Received

01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS



Sample Information

Client Sample ID: MW4S

York Sample ID: 15A0339-02

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 11:35 am

Date Received

01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:29	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	108 %			79-122						
2037-26-5	Surrogate: Toluene-d8	97.0 %			81-117						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:38	SR
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
86-73-7	Fluorene	0.388		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:38	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:38	SR
91-20-3	Naphthalene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D	01/16/2015 07:57	01/18/2015 19:38	SR
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:18	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	33.6 %			10-47						



Sample Information

Client Sample ID: MW4S

York Sample ID: 15A0339-02

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 11:35 am

Date Received
01/13/2015

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: Phenol-d5	25.8 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	55.1 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	46.3 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	48.8 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	52.3 %			10-137						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
309-00-2	Aldrin	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
319-84-6	alpha-BHC	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
319-85-7	beta-BHC	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
319-86-8	delta-BHC	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
60-57-1	Dieldrin	0.181		ug/L	0.00457	0.00457	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
959-98-8	Endosulfan I	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
72-20-8	Endrin	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
76-44-8	Heptachlor	ND		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
5103-71-9	alpha-Chlordane	0.0113		ug/L	0.00914	0.00914	2	EPA 8081B	01/15/2015 11:18	01/19/2015 11:13	JW
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	30.6 %	30-120								
877-09-8	Surrogate: Tetrachloro-m-xylene	49.2 %	30-120								



Sample Information

Client Sample ID: MW4S

York Sample ID: 15A0339-02

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

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Water

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Date Received
01/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0571	0.0571	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:22	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	45.3 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	38.3 %			30-120						

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	01/16/2015 05:53	01/17/2015 05:02	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	69.0 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.014		mg/L	0.004	0.004	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-39-3	Barium	0.291		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-47-3	Chromium	0.114		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-50-8	Copper	0.072		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7439-92-1	Lead	0.067		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7439-96-5	Manganese	4.08		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-02-0	Nickel	0.066		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7782-49-2	Selenium	0.012		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW
7440-66-6	Zinc	0.192		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:49	MW



Sample Information

Client Sample ID: MW4S

York Sample ID: 15A0339-02

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 11:35 am

Date Received
01/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/14/2015 08:50	01/14/2015 12:37	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	01/13/2015 19:22	01/13/2015 19:48	SCA

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.114		mg/L	0.00800	0.0100	1	Calculation	01/20/2015 16:20	01/20/2015 16:23	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	01/16/2015 08:28	01/16/2015 15:59	AD

Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:15 pm

Date Received
01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS



Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:15 pm

Date Received
01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
67-64-1	Acetone	11		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
67-66-3	Chloroform	2.6		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/19/2015 12:54	01/19/2015 21:58	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	106 %	79-122								
2037-26-5	Surrogate: Toluene-d8	97.9 %	81-117								



Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:15 pm

Date Received
01/13/2015

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
120-12-7	Anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
218-01-9	Chrysene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:10	SR
206-44-0	Fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
86-73-7	Fluorene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	0.0200	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:10	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:10	SR
91-20-3	Naphthalene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.250	0.250	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
85-01-8	Phenanthrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:10	SR
129-00-0	Pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/16/2015 07:57	01/16/2015 16:49	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	24.9 %	10-47								
4165-62-2	Surrogate: Phenol-d5	18.9 %	10-37								
4165-60-0	Surrogate: Nitrobenzene-d5	49.6 %	10-109								
321-60-8	Surrogate: 2-Fluorobiphenyl	39.4 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	44.4 %	10-112								
1718-51-0	Surrogate: Terphenyl-d14	44.3 %	10-137								



Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:15 pm

Date Received
01/13/2015

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
309-00-2	Aldrin	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
319-84-6	alpha-BHC	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
319-85-7	beta-BHC	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
319-86-8	delta-BHC	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
60-57-1	Dieldrin	0.0133		ug/L	0.00200	0.00200	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
959-98-8	Endosulfan I	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
72-20-8	Endrin	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
76-44-8	Heptachlor	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	0.00400	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:30	JW
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	30.8 %	30-120								
877-09-8	Surrogate: Tetrachloro-m-xylene	32.2 %	30-120								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/15/2015 11:18	01/20/2015 02:41	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	45.8 %	30-120								
2051-24-3	Surrogate: Decachlorobiphenyl	54.7 %	30-120								



Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 12:15 pm

Date Received

01/13/2015

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	01/16/2015 05:53	01/17/2015 05:21	AMC
	Surrogate Recoveries	Result				Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	85.6 %				30-150					

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-39-3	Barium	0.028		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-50-8	Copper	0.009		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7439-96-5	Manganese	0.311		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW
7440-66-6	Zinc	0.032		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:54	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/14/2015 08:50	01/14/2015 12:37	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	01/13/2015 19:22	01/13/2015 19:48	SCA

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation	01/20/2015 16:20	01/20/2015 16:23	PAM



Sample Information

Client Sample ID: MW5D

York Sample ID: 15A0339-03

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 12:15 pm

Date Received

01/13/2015

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	01/16/2015 08:28	01/16/2015 15:59	AD

Sample Information

Client Sample ID: MW5S

York Sample ID: 15A0339-04

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 12:45 pm

Date Received

01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS



Sample Information

Client Sample ID: MW5S

York Sample ID: 15A0339-04

York Project (SDG) No.

15A0339

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

January 13, 2015 12:45 pm

Date Received

01/13/2015

Volatile Organics, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/19/2015 12:54	01/19/2015 22:28	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			69-130						
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			79-122						
2037-26-5	Surrogate: Toluene-d8	96.3 %			81-117						

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
120-12-7	Anthracene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
218-01-9	Chrysene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:42	SR
206-44-0	Fluoranthene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
86-73-7	Fluorene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	0.0229	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:42	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:42	SR
91-20-3	Naphthalene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.286	0.286	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
85-01-8	Phenanthrene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
108-95-2	Phenol	ND		ug/L	2.86	5.71	1	EPA 8270D	01/16/2015 07:57	01/18/2015 20:42	SR
129-00-0	Pyrene	ND		ug/L	0.0571	0.0571	1	EPA 8270D	01/16/2015 07:57	01/16/2015 17:19	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	32.8 %			10-47						



Sample Information

Client Sample ID: MW5S

York Sample ID: 15A0339-04

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:45 pm

Date Received
01/13/2015

Semi-Volatiles, NYSDEC Part 375 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: Phenol-d5	25.2 %			10-37						
4165-60-0	Surrogate: Nitrobenzene-d5	57.2 %			10-109						
321-60-8	Surrogate: 2-Fluorobiphenyl	49.6 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	54.8 %			10-112						
1718-51-0	Surrogate: Terphenyl-d14	58.4 %			10-137						

Pesticides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
60-57-1	Dieldrin	0.00440		ug/L	0.00205	0.00205	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
5103-71-9	alpha-Chlordane	ND		ug/L	0.00410	0.00410	1	EPA 8081B	01/15/2015 11:18	01/16/2015 20:46	JW
Surrogate Recoveries		Result	Acceptance Range								
2051-24-3	Surrogate: Decachlorobiphenyl	16.7 %	GC-Sur		30-120						
877-09-8	Surrogate: Tetrachloro-m-xylene	35.2 %	r		30-120						



Sample Information

Client Sample ID: MW5S

York Sample ID: 15A0339-04

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:45 pm

Date Received
01/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/15/2015 11:18	01/20/2015 03:01	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	46.3 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	33.3 %			30-120						

Herbicides, NYSDEC Part 375 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m	01/16/2015 05:53	01/17/2015 05:41	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	79.6 %			30-150						

Metals, NYSDEC Part 375

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.014		mg/L	0.004	0.004	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-39-3	Barium	0.274		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-47-3	Chromium	0.052		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-50-8	Copper	0.062		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7439-92-1	Lead	0.036		mg/L	0.003	0.003	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7439-96-5	Manganese	4.22		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-02-0	Nickel	0.057		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7782-49-2	Selenium	0.016		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW
7440-66-6	Zinc	0.189		mg/L	0.010	0.010	1	EPA 6010C	01/14/2015 14:01	01/14/2015 18:59	MW



Sample Information

Client Sample ID: MW5S

York Sample ID: 15A0339-04

York Project (SDG) No.
15A0339

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
January 13, 2015 12:45 pm

Date Received
01/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/14/2015 08:50	01/14/2015 12:37	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A	01/13/2015 19:22	01/13/2015 19:48	SCA

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0520		mg/L	0.00800	0.0100	1	Calculation	01/20/2015 16:20	01/20/2015 16:23	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E	01/16/2015 08:28	01/16/2015 15:59	AD



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15A0339-01	MW4D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0339-02	MW4S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0339-03	MW5D	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0339-04	MW5S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
GC-Surr	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



