



TOWN OF ISLIP

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

March 9, 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 3/9/15
For the Town of Islip Roberto Clemente Park**

Dear Mr. Rahman:

Transmitted herewith, please find a copy of the *Groundwater Sampling Report* dated 3/9/15, for the most recent re-sampling event at the Town's Roberto Clemente Park.

This report summarizes the groundwater results of the February 18, 2015 sampling event which was performed to retest for metals in all five permanent groundwater wells.

Based on the results of the groundwater monitoring, we concur with our consultants, Enviroscience Consultants, and recommend that the next groundwater monitoring event should be performed after the removal of the contaminated fill from the site, which is consistent with the NYSDEC-approved Material Removal Work Plan (dated January 7, 2015).

Therefore, the next groundwater monitoring event is anticipated for late summer.

Your review of this report is greatly appreciated.

Very truly yours:

Eric M. Hofmeister
Deputy Supervisor

Inez Birbiglia
Deputy Commissioner

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

March 9, 2015

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. This report summarizes the groundwater sampling event that was performed on January 13, 2015, along with the groundwater sampling event that was performed on February 18, 2015 to obtain an additional round of samples for metals.

Figure 1 shows the site's location, and Figures 2A and 2B show 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 on January 13, 2015. Additional measurements were obtained on February 18, 2015. 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 on January 13, 2015 and February 18, 2015 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 was a 10% or less difference in two consecutive parameter measurements, along with turbidity readings of less than 50 nephelometric turbidity units (NTUs). However, low turbidity measurements were not obtained by the fifth casing volumes in wells MW-4S and MW-5S during the January 13, 2015 event, which resulted in the need for the additional groundwater sampling event that was performed on February 18, 2015.

After their development, the additional groundwater monitoring wells were surveyed on January 13, 2015 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 1A shows the relative groundwater elevation measurements for January 13, 2015, and Table 1B shows the relative groundwater elevation measurements for February 18, 2015. The site-specific groundwater flow direction was calculated to be towards the southeast, which is shown in Figure 2A for January 13, 2015 and Figure 2B for February 18, 2015. This calculated site-specific groundwater flow direction from both events 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 2A summarizes these results for January 13, 2015, and Table 2B summarizes these results for February 18, 2015. 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 during the January 13, 2015 event, and after acceptable turbidity readings were obtained during the February 18, 2015 event, which were more than five casing volumes for some of the wells.

Groundwater samples for laboratory analysis were obtained from newly-installed wells (MW-4S, MW-4D, MW-5S, and MW-5D) on the January 13, 2015 event, and they 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.

The samples from the February 18, 2015 event, which were analyzed for metals only, were obtained directly from the dedicated tubing with the submersible pump operating at a low flow rate.

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 the January 13, 2015 groundwater monitoring event, along with the results from the original sampling event on September 30, 2014 for MW-1, MW-2, and MW-3. However, all of the metals results for all of the wells that are summarized in Table 3 were obtained from the February 18, 2015 sampling event. The laboratory report for the January 13, 2015 event is provided in Attachment B, while the laboratory report for the February 18, 2015 event is provided in Attachment C.

For the January 13, 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. However, these metals were attributed to higher turbidity readings, which was the rationale for obtaining additional groundwater samples for metals analysis from all of the wells during the February 18, 2015 sampling event.

The most recent groundwater results were compared to the NYSDEC Class GA Ambient Water Quality Standards (Groundwater Standards), which are 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 the metal manganese in the samples obtained from wells MW-4D and MW-5D.

Conclusions

Based on the groundwater monitoring results, no significant impacts to the groundwater from the illegal disposal of contaminated fill were identified at this time. As discussed, there appears to be an upgradient source of dieldrin, which was identified in well MW-1 (the upgradient well) that most likely contributes to the levels of dieldrin identified in wells MW-4S, MW-5S, and MW-5D. Also, the elevated levels of manganese in the samples from MW-4D and MW-5D do not appear to be from the contaminated fill since none of the shallow wells showed exceedances for manganese, which would likely have been impacted prior to the deep wells.

Based on the results of the groundwater monitoring, Enviroscience recommends that the next groundwater monitoring event should be performed after the removal of the contaminated fill from the site, which is consistent with the NYSDEC-approved Materials Removal Work Plan (dated January 7, 2015). Therefore, the next groundwater monitoring event is anticipated for late summer.

If there are any questions, please contact me.

Very truly yours,

A handwritten signature in black ink that reads "Greg Menegio". The signature is written in a cursive, flowing style.

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



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

NOTES

1. MEASUREMENTS ARE IN ACCORDANCE WITH U.S. STANDARDS.
2. 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.
3. 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.
4. 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

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



DEPTH -TO-WATER MEASUREMENTS OBTAINED BY ENVIROSCIENCE ON FEBRUARY 18, 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.
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Table 1A
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 1B
Relative Groundwater Elevation Measurements
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
February 18, 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	23.41	23.09	7.89	21.25	21.37	18.77	18.98
Water Table Elevation	40.93	40.02	39.29	39.77	39.80	38.83	38.85
Note:							
All measurements are provided as relative measurements recorded in feet.							

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

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 2B
Groundwater Purging Parameters
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
February 18, 2015

MW-1				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.26	357	871	11.0
2	6.26	360	229	12.4
3	6.24	371	122	12.9
4	6.25	367	57	13.1
5	6.24	347	19	13.0

MW-2				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.38	205	1000	11.0
2	6.23	225	463	13.8
3	6.22	219	223	14.7
4	6.25	221	100	14.7
5	6.22	224	85	14.1
6	6.28	221	30	14.7

MW-3				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.67	390	1,000	8.5
2	6.72	375	655	9.0
3	6.74	363	281	9.3
4	6.82	385	190	9.3
5	6.82	357	124	9.5
6	6.72	342	135	9.5
7	6.76	350	48	9.5
8	6.77	345	23	9.5

MW-4S				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.00	164	1000	12.2
2	5.74	174	284	12.7
3	5.67	186	144	12.8
4	5.79	180	34	13.2

Table 2B
Groundwater Purging Parameters
Roberto Clemente Town Park
400 Broadway, Brentwood, NY
February 18, 2015

MW-4D				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	5.68	297	432	10.4
2	5.63	289	49	12.1
3	5.61	295	9	12.3

MW-5S				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.54	240	*	9.7
2	6.51	259	759	11.5
3	6.60	260	242	12.2
4	6.67	254	64	12.6
5	6.64	260	87	12.3
6	6.63	254	21	12.0

MW-5D				
Casing Volume	pH (unitless)	Conductivity (uS)	Turbidity (NTU)	Temp (°C)
1	6.20	428	311	9.8
2	6.15	422	36	11.9
3	6.07	417	13	12.9

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	0.0615	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)								
Barium	0.031	0.025	0.012	0.033	0.066	0.017	0.044	1
Manganese	0.065	0.025	0.031	0.179	3.09	0.032	1.31	0.3
Zinc	0.011	0.010	0.010	0.015	0.013	0.010	0.011	2

Notes:

Only detected compounds and metals are summarized in this table

All parameters except metals obtained from January 13, 2015 sampling event

Metals results obtained from retest, which was performed on February 18, 2015

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

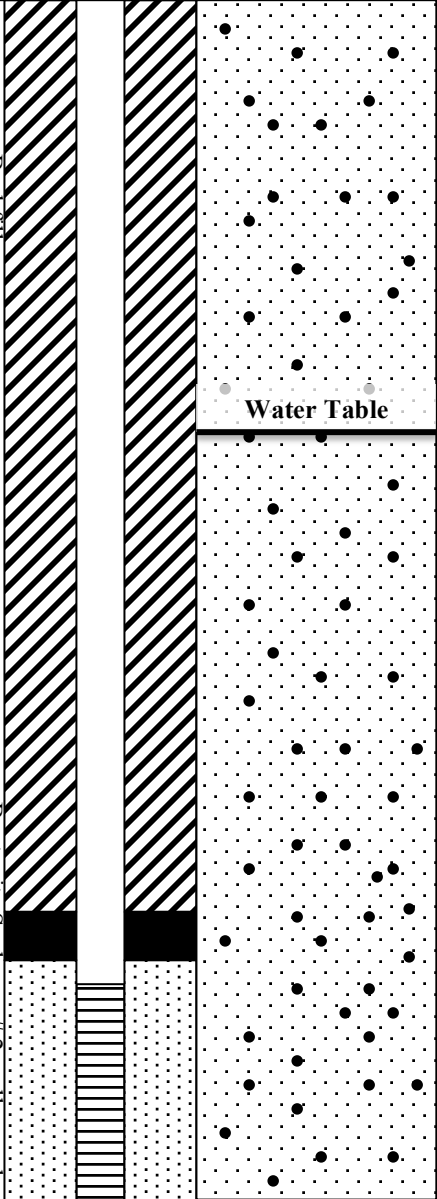
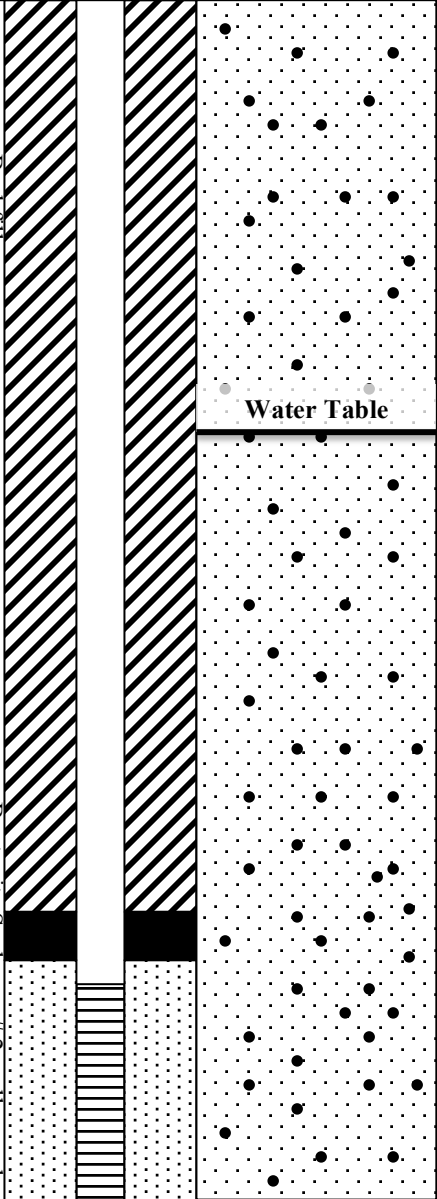
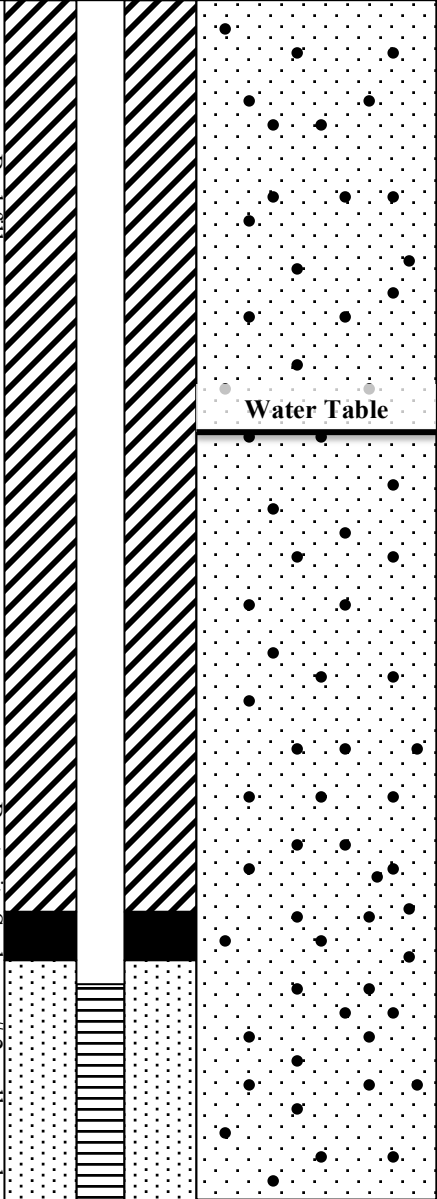
Project:	<i>Robert Clemente Park 400 Broadway, Brentwood, NY</i>			Notes:
Well No:	<i>MW-4S</i>	Total Depth:	<i>28 ft</i>	No soil samples were collected during well installation.
Screen Dia:	<i>2 in</i>	Length:	<i>10 ft</i>	Slot Size: <i>0.20</i>
Drilling Method:	<i>Hollow Stem Auger</i>			No visible 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			0-5': Hand Cleared SW-light brown very fine to coarse sand with some gravel
-2-				
-4-				
-6-				
-8-	0			5-28': Drill Cuttings SW-light brown very fine to coarse sand with some gravel
-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-				
-8-				
-10-				
-12-	0			5-60': 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-				
-30-	0			
-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

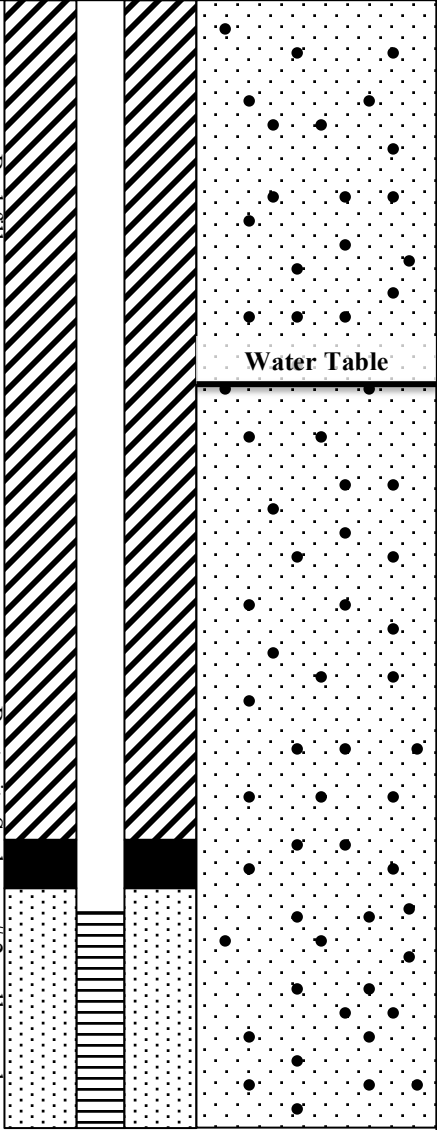
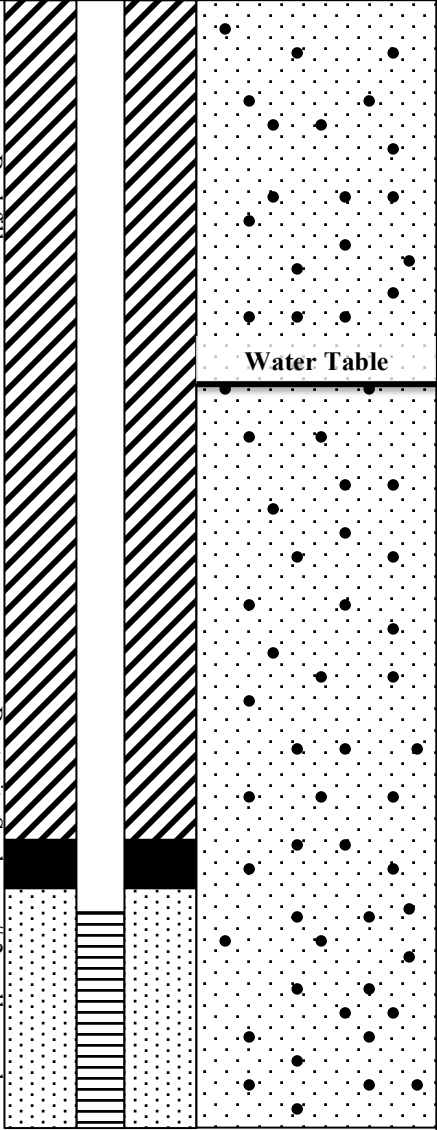
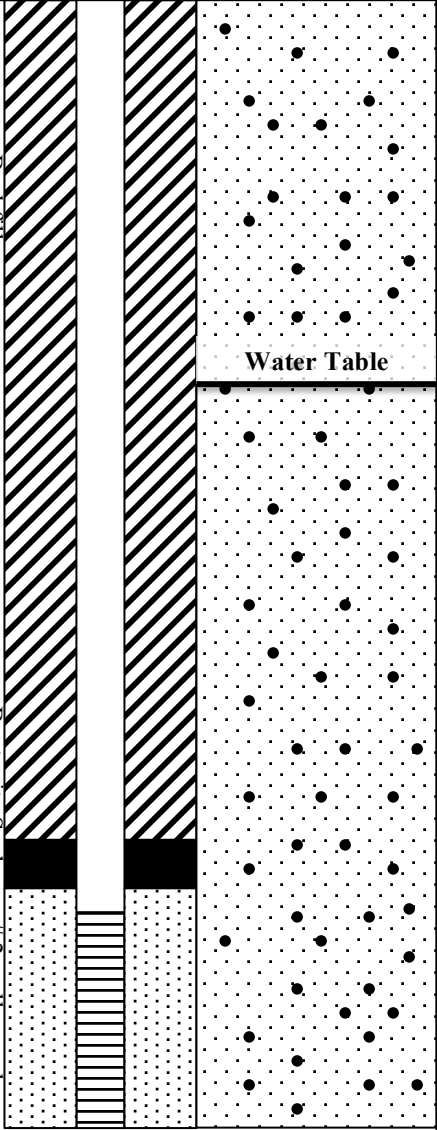
5-60': Drill Cuttings
SW-light brown very fine to coarse sand with some gravel

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>	
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 soil samples were collected during well installation.
Driller:	<i>Land, Air, Water Environmental Services</i>			No visible signs of contamination were noted.
Log By:	<i>Loddengaard</i>	Drill Date:	<i>1/7/15</i>	
				Depth to water is 18.70 ft

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
January 13, 2015



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

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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

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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

Matrix
Water

Collection Date/Time
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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.



ATTACHMENT C
Laboratory Report
February 18, 2015



Technical Report

prepared for:

Enviroscience Consultants, Inc.

2150 Smithtown Avenue

Ronkonkoma NY, 11779

Attention: Kathryn Loddengaard

Report Date: 02/23/2015

Client Project ID: 400 Broadway

York Project (SDG) No.: 15B0545

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 02/23/2015
Client Project ID: 400 Broadway
York Project (SDG) No.: 15B0545

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 February 19, 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>
15B0545-01	MW-1	Water	02/18/2015	02/19/2015
15B0545-02	MW-2	Water	02/18/2015	02/19/2015
15B0545-03	MW-3	Water	02/18/2015	02/19/2015
15B0545-04	MW-4S	Water	02/18/2015	02/19/2015
15B0545-05	MW-4D	Water	02/18/2015	02/19/2015
15B0545-06	MW-5S	Water	02/18/2015	02/19/2015
15B0545-07	MW-5D	Water	02/18/2015	02/19/2015

General Notes for York Project (SDG) No.: 15B0545

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: 02/23/2015





Sample Information

Client Sample ID: MW-1

York Sample ID: 15B0545-01

York Project (SDG) No.

15B0545

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

February 18, 2015 10:45 am

Date Received

02/19/2015

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	02/20/2015 08:26	02/20/2015 10:36	MW
7440-39-3	Barium	0.031		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7439-96-5	Manganese	0.065		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:36	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	02/20/2015 07:06	02/22/2015 15:55	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	HT-02	mg/L	0.0100	0.0100	1	EPA 7196A	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-2

York Sample ID: 15B0545-02

York Project (SDG) No.

15B0545

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

February 18, 2015 2:00 pm

Date Received

02/19/2015



Sample Information

Client Sample ID: MW-2

York Sample ID: 15B0545-02

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 2:00 pm

Date Received
02/19/2015

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	02/20/2015 08:26	02/20/2015 10:55	MW
7440-39-3	Barium	0.025		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7439-96-5	Manganese	0.025		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 10:55	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-3

York Sample ID: 15B0545-03

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 12:55 pm

Date Received
02/19/2015



Sample Information

Client Sample ID: MW-3

York Sample ID: 15B0545-03

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 12:55 pm

Date Received
02/19/2015

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	02/20/2015 08:26	02/20/2015 11:00	MW
7440-39-3	Barium	0.012		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7439-96-5	Manganese	0.031		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:00	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-4S

York Sample ID: 15B0545-04

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 2:30 pm

Date Received
02/19/2015



Sample Information

Client Sample ID: MW-4S

York Sample ID: 15B0545-04

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 2:30 pm

Date Received
02/19/2015

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	02/20/2015 08:26	02/20/2015 11:05	MW
7440-39-3	Barium	0.033		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7439-96-5	Manganese	0.179		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	MW
7440-66-6	Zinc	0.015		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:05	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-4D

York Sample ID: 15B0545-05

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 3:05 pm

Date Received
02/19/2015



Sample Information

Client Sample ID: MW-4D

York Sample ID: 15B0545-05

York Project (SDG) No.

15B0545

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

February 18, 2015 3:05 pm

Date Received

02/19/2015

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	02/20/2015 08:26	02/20/2015 11:23	MW
7440-39-3	Barium	0.066		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7439-96-5	Manganese	3.09		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	MW
7440-66-6	Zinc	0.013		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:23	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-5S

York Sample ID: 15B0545-06

York Project (SDG) No.

15B0545

Client Project ID

400 Broadway

Matrix

Water

Collection Date/Time

February 18, 2015 11:45 am

Date Received

02/19/2015



Sample Information

Client Sample ID: MW-5S

York Sample ID: 15B0545-06

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 11:45 am

Date Received
02/19/2015

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	02/20/2015 08:26	02/20/2015 11:28	MW
7440-39-3	Barium	0.017		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7439-96-5	Manganese	0.032		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	MW
7440-66-6	Zinc	0.010		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:28	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA

Sample Information

Client Sample ID: MW-5D

York Sample ID: 15B0545-07

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 12:10 pm

Date Received
02/19/2015



Sample Information

Client Sample ID: MW-5D

York Sample ID: 15B0545-07

York Project (SDG) No.
15B0545

Client Project ID
400 Broadway

Matrix
Water

Collection Date/Time
February 18, 2015 12:10 pm

Date Received
02/19/2015

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	02/20/2015 08:26	02/20/2015 11:33	MW
7440-39-3	Barium	0.044		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7439-96-5	Manganese	1.31		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	MW
7440-66-6	Zinc	0.011		mg/L	0.010	0.010	1	EPA 6010C	02/20/2015 08:26	02/20/2015 11:33	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	02/20/2015 07:06	02/22/2015 15:55	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	02/19/2015 11:45	02/19/2015 11:45	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	02/20/2015 17:34	02/20/2015 17:35	SCA



Analytical Batch Summary

Batch ID: BB50872

Preparation Method: Analysis Preparation

Prepared By: SCA

YORK Sample ID	Client Sample ID	Preparation Date
15B0545-01	MW-1	02/19/15
15B0545-02	MW-2	02/19/15
15B0545-03	MW-3	02/19/15
15B0545-04	MW-4S	02/19/15
15B0545-05	MW-4D	02/19/15
15B0545-06	MW-5S	02/19/15
15B0545-07	MW-5D	02/19/15
BB50872-BLK1	Blank	02/19/15
BB50872-BS1	LCS	02/19/15
BB50872-DUP1	Duplicate	02/19/15
BB50872-MS1	Matrix Spike	02/19/15

Batch ID: BB50912

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15B0545-01	MW-1	02/20/15
15B0545-02	MW-2	02/20/15
15B0545-03	MW-3	02/20/15
15B0545-04	MW-4S	02/20/15
15B0545-05	MW-4D	02/20/15
15B0545-06	MW-5S	02/20/15
15B0545-07	MW-5D	02/20/15
BB50912-BLK1	Blank	02/20/15
BB50912-DUP1	Duplicate	02/20/15
BB50912-MS1	Matrix Spike	02/20/15
BB50912-SRM1	Reference	02/20/15

Batch ID: BB50919

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
15B0545-01	MW-1	02/20/15
15B0545-02	MW-2	02/20/15
15B0545-03	MW-3	02/20/15
15B0545-04	MW-4S	02/20/15
15B0545-05	MW-4D	02/20/15
15B0545-06	MW-5S	02/20/15
15B0545-07	MW-5D	02/20/15
BB50919-BLK1	Blank	02/20/15
BB50919-DUP1	Duplicate	02/20/15
BB50919-MS1	Matrix Spike	02/20/15
BB50919-SRM1	Reference	02/20/15

Batch ID: BB50957

Preparation Method: Analysis Preparation

Prepared By: SCA



YORK Sample ID	Client Sample ID	Preparation Date
15B0545-01	MW-1	02/20/15
15B0545-02	MW-2	02/20/15
15B0545-03	MW-3	02/20/15
15B0545-04	MW-4S	02/20/15
15B0545-05	MW-4D	02/20/15
15B0545-06	MW-5S	02/20/15
15B0545-07	MW-5D	02/20/15



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB50919 - EPA 3010A

Blank (BB50919-BLK1)

Prepared & Analyzed: 02/20/2015

Arsenic	ND	0.004	mg/L
Barium	ND	0.010	"
Beryllium	ND	0.001	"
Cadmium	ND	0.003	"
Chromium	ND	0.005	"
Copper	ND	0.003	"
Lead	ND	0.003	"
Manganese	ND	0.005	"
Nickel	ND	0.005	"
Selenium	ND	0.010	"
Silver	ND	0.005	"
Zinc	ND	0.010	"

Duplicate (BB50919-DUP1)

*Source sample: 15B0545-01 (MW-1)

Prepared & Analyzed: 02/20/2015

Arsenic	ND	0.004	mg/L	ND				20
Barium	0.031	0.010	"	0.031			0.317	20
Beryllium	ND	0.001	"	ND				20
Cadmium	ND	0.003	"	ND				20
Chromium	ND	0.005	"	ND				20
Copper	ND	0.003	"	ND				20
Lead	ND	0.003	"	ND				20
Manganese	0.065	0.005	"	0.065			0.356	20
Nickel	ND	0.005	"	ND				20
Selenium	ND	0.010	"	ND				20
Silver	ND	0.005	"	ND				20
Zinc	0.011	0.010	"	0.011			1.73	20

Matrix Spike (BB50919-MS1)

*Source sample: 15B0545-01 (MW-1)

Prepared & Analyzed: 02/20/2015

Arsenic	1.99	0.004	mg/L	2.00	ND	99.3	75-125
Barium	2.16	0.010	"	2.00	0.031	106	75-125
Beryllium	0.052	0.001	"	0.0500	ND	104	75-125
Cadmium	0.052	0.003	"	0.0500	ND	103	75-125
Chromium	0.204	0.005	"	0.200	ND	102	75-125
Copper	0.260	0.003	"	0.250	ND	104	75-125
Lead	0.507	0.003	"	0.500	ND	101	75-125
Manganese	0.596	0.005	"	0.500	0.065	106	75-125
Nickel	0.530	0.005	"	0.500	ND	106	75-125
Selenium	2.07	0.010	"	2.00	ND	103	75-125
Silver	0.046	0.005	"	0.0500	ND	91.8	75-125
Zinc	0.556	0.010	"	0.500	0.011	109	75-125



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BB50919 - EPA 3010A

Reference (BB50919-SRM1)

Prepared & Analyzed: 02/20/2015

Arsenic	0.622	0.004	mg/L	0.681		91.3	84.4-114				
Barium	0.508	0.010	"	0.487		104	85-115				
Beryllium	0.273	0.001	"	0.277		98.6	84.8-115				
Cadmium	0.289	0.003	"	0.293		98.7	85-115				
Chromium	0.121	0.005	"	0.123		98.5	85.4-115				
Copper	0.375	0.003	"	0.378		99.2	84.9-115				
Lead	0.369	0.003	"	0.362		102	85.1-115				
Manganese	0.328	0.005	"	0.308		106	85.1-115				
Nickel	0.511	0.005	"	0.526		97.1	87.3-114				
Selenium	0.335	0.010	"	0.364		92.1	84.9-115				
Silver	0.209	0.005	"	0.215		97.0	85.1-115				
Zinc	0.706	0.010	"	0.715		98.8	85-115				



Mercury by EPA 7000/200 Series Methods - 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 BB50912 - EPA 7473 water											
Blank (BB50912-BLK1)								Prepared: 02/20/2015 Analyzed: 02/22/2015			
Mercury	ND	0.00020	mg/L								
Duplicate (BB50912-DUP1)								Prepared: 02/20/2015 Analyzed: 02/22/2015			
*Source sample: 15B0545-01 (MW-1)											
Mercury	ND	0.00020	mg/L		ND					20	
Matrix Spike (BB50912-MS1)								Prepared: 02/20/2015 Analyzed: 02/22/2015			
*Source sample: 15B0545-01 (MW-1)											
Mercury	0.00173		mg/kg	0.00200	ND	86.7	75-125				
Reference (BB50912-SRM1)								Prepared: 02/20/2015 Analyzed: 02/22/2015			
Mercury	0.00156		mg/kg	0.00230		67.6	61.3-135				



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
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Batch BB50872 - Analysis Preparation

Blank (BB50872-BLK1)

Prepared & Analyzed: 02/19/2015

Chromium, Hexavalent ND 0.0100 mg/L

LCS (BB50872-BS1)

Prepared & Analyzed: 02/19/2015

Chromium, Hexavalent 0.489 0.0100 mg/L 0.500 97.8 80-120

Duplicate (BB50872-DUP1)

*Source sample: 15B0545-07 (MW-5D)

Prepared & Analyzed: 02/19/2015

Chromium, Hexavalent ND 0.0100 mg/L ND 20

Matrix Spike (BB50872-MS1)

*Source sample: 15B0545-07 (MW-5D)

Prepared & Analyzed: 02/19/2015

Chromium, Hexavalent 0.499 0.0100 mg/L 0.500 ND 99.8 75-125



Notes and Definitions

HT-02 NON-COMPLIANT-This sample was received outside the EPA recommended holding time.

*	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: Lab Recvd. 15B0545-01 Out-of-Hold Time



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

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 and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15B0345

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>Greyneegia</u> E-Mail Address: _____		YOUR PROJECT ID <u>400 Broadway</u> Purchase Order No. Samples from: CT <input checked="" type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		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 <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <input type="checkbox"/> <u>Electronic Data Deliverables (EDD)</u> Simple Excel <input type="checkbox"/> NYSEDEC EQuIS <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other _____ York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet <input type="checkbox"/> Compare to the following Regs. (please fill in): _____	
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Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

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

Matrix Codes
 S - soil
 Other - specify (oil, etc.)
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1	2/18/15 1045	GW	Part 375 Metals List + Hexavalent Chromium	2-250 ml
MW-2	1400			
MW-3	1255			
MW-4S	1430			
MW-4D	1505			
MW-5S	1145			
MW-5D	1210			

Comments Preservation Check those Applicable Special Instructions Field Filled <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	4°C <input checked="" type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/>	Temperature on Receipt <u>30.0</u> °C
	Samples Relinquished By <u>Kathryn Loddengard</u> Date/Time <u>2/18/15</u> Samples Received By <u>P. Grace</u> Date/Time <u>2-19-15 1130</u> Samples Relinquished By _____ Date/Time _____ Samples Received in LAB by _____ Date/Time _____	