Department of Design and Construction

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LEED AP BD+C,
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Assistant Commissioner
Safety and Site Support

March 27, 2017

Mr. Stephen Watts
Deputy Regional Permit Administrator
New York State Department of Environmental Conservation
47-40 21st Street, 2nd Floor
Long Island City, New York, 11101-5407

Re: Application for Jurisdictional Determination to Discharge into Existing Storm Sewers on Collier Avenue and Beach 27th Street
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc., Rockaway, Queens, New York 11691
NYCDDC Project ID: SEQ200524
Notice of Determination of SPDES Jurisdiction DEC application ID 2-6308-00999

Dear Mr. Watts:

Applemon Corporation has been contracted by CAC Industries, Inc., the project contractor, for designing a dewatering system and obtaining necessary permits to facilitate the construction of the above project.

In response to your determination of jurisdiction, we are requesting an individual State Pollutant Discharge Elimination System (SPDES) permit to temporarily discharge up to 3.22 MGD (2,240 gpm) of groundwater to existing storm sewer on Collier Avenue and Beach 27th Street during Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc., in Rockaway, Queens. The said sewer discharges to Norton Basin through existing NYCDEP MS4 Outfall ROC-651. Based on the groundwater analytical results, cis-1,2-dichloroethylene, and trichloroethylene at a concentration of 29 ug/L and 33 ug/L, respectively, were detected in one of the groundwater samples collected from a monitoring well at the site. Since chemical or activated carbon treatment of the large dewatering flow is not practical, and may not be necessary, the discharge will be remediated using a settling tank. Effluent will be regularly sampled for any evidence of contamination. If Exceedances are detected in the discharge, groundwater will be locally treated using proper treatment methods. Header pipes will convey groundwater from individual wells to the settling tank. Up to seven (7) pumps discharging at 320 gpm each will be used at one time for a period of maximum two years to facilitate this operation.

Herein, we are submitting three copies of the followings:

1) Complete SPDES Industrial Application Form NY-2C
2) Complete Discharge Monitoring Report (DMR) Signature Authorization Form
3) Dewatering Plan showing the location of the project on the street right-of-way, groundwater discharge system, outfall location for discharge into receiving storm sewer, locations of the dewatering wells, and groundwater monitoring wells.
4) Laboratory Analytical Report and Field Measurement Report of the samples collected from monitoring wells within the project site.

NYC DDC Department of Design and Construction

As always, the City of New York appreciates the continued cooperation of the NYSDEC in facilitating important infrastructure projects through your applicable permit programs. Please do not hesitate to contact me at (718)391-3134 if you have any questions, or Cavy Chu at (718)391-1005.

Sincerely,

03/27/17

Jean M. Jean-Louis, LEED AP BD+C, ENV SP, CIAQM
Assistant Commissioner

Cc: E. MacFarlane, M. Canu, D. Granger, P. Larkin, G. Williams, C. Chu

Cc: Fuad Adib, P.E., PhD (Applemon Corp.)

State Pollutant Discharge Elimination System (SPDES)
INDUSTRIAL APPLICATION FORM NY-2C
For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water
Section I - Permittee and Facility Information
Please type or print the requested information.

1. Current Permit Information (leave blank if for new discharge)

SPDES Number:	DEC Number:

2. Permit Action Requested: (Check applicable box)

[X] A **NEW** proposed discharge
[ ] An **EBPS INFORMATION REQUEST** response
[ ] A **RENEWAL** of an existing SPDES permit
[ ] A **MODIFICATION** of the existing permit
[ ] An **EXISTING** discharge currently without permit

Does this request include an increase in the quantity of water discharged from your facility to the waters of the State?

[ ] **YES** - Describe the increase:
[ ] **NO** - Go to Item 3. below.

3. Permittee Name and Address

Name: New York City Department of Design and Construction			Attention: Jean Jean-Louis
Street Address: 30-30 Thomson Avenue			
City or Village: Long Island City		State: NY	ZIP Code: 11101

4. Facility Name, Address and Location

Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.			
Street Address: Collier Ave, Beach 22nd & 25th Streets, Deerfield Rd			P.O. Box
City or Village: Rockaway		State: NY	ZIP Code: 11691
Town: Rockaway		County: Queens	
Telephone	FAX	NYTM - E: 605051	NYTM - N: 4494886
Tax Map Info (New York City, Nassau County and Suffolk County only)			
Section	Block	Subblock	Lot

5. Facility Contact Person

Name: Donna J. Cettina		Title: Sr Project Manager	
Street Address: CAC Industries Inc. 54-08 Vernon Blvd			P.O. Box
City or Village: Long Island City		State: NY	ZIP Code: 11101
Telephone: (347) 619-5866	FAX	E-Mail or Internet: dcettina@cacindinc.com	

6. Discharge Monitoring Report (DMR) Mailing Address

Mailing Name: CAC Industries Inc.			
Street Address: 54-08 Vernon Blvd			P.O. Box
City or Village: Long Island City		State: NY	ZIP Code: 11101
Telephone: (347) 619-5866	FAX	E-Mail or Internet: dcettina@cacindinc.com	
Name and Title of person responsible for signing DMRs Donna J. Cettina, Sr Project Manager		Signature	

INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information

Facility Name:	Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

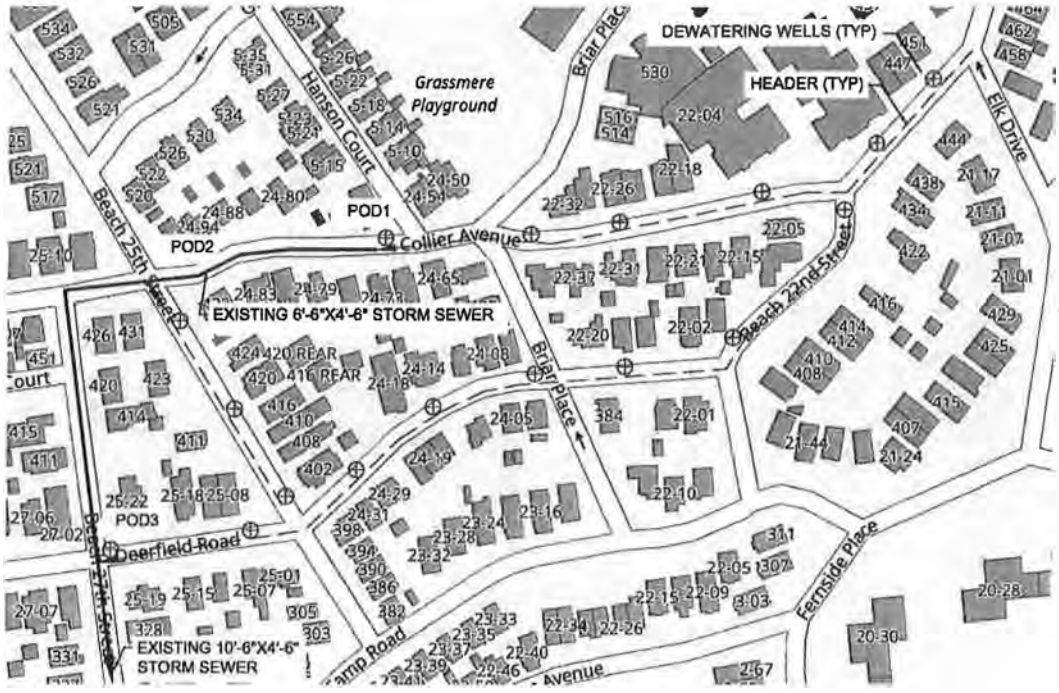
7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
001	Norton Basin MS4 Outfall ROC-651	Groundwater - construction dewatering
002	Norton Basin MS4 Outfall ROC-651	Groundwater - construction dewatering
003	Norton Basin MS4 Outfall ROC-651	Groundwater - construction dewatering

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way.

9. Water Flow Diagram:



POD (Point of Discharge) = Outfall

INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

10. Nature of business: (Describe the activities at the facility and the date(s) that operation(s) at the facility commenced)

Temporary dewatering to be conducted during excavation for Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.scheduled to start in March 2017.

11. List the 4-digit SIC codes which describe your facility in order of priority:

Priority 1	Description:	Priority 3	Description:
1 | 7 | 9 | 4	Excavation Work	| | |	
Priority 2	**Description:**	**Priority 4**	**Description:**
1 | 6 | 2 | 3	Water and sewer work	| | |	

12. Is your facility a primary industry as listed in Table 1 of the Instructions?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 13. below.

Industrial Category	40 CFR		Industrial Category	40 CFR	
	Part	Subpart		Part	Subpart

13. Does this facility manufacture, handle, or discharge recombinant-DNA, pathogens, or other potentially infectious or dangerous organisms?

[ ] **YES** - Attach a detailed explanation to this application.

[ ] **NO** - Go to Item 14 below.

14. Is storm runoff or leachate from a material storage area discharged by your facility?

[ ] **YES** - Complete the following table, and show the location of the stockpile(s) and discharge point(s) on the diagram in Item 9.

[X] **NO** - Go to Item 15 on the following page.

Size of area	Type(s) of material stored	Quantity of material stored	Runoff control devices

INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

15. Facility Ownership: (Place an "X" in the appropriate box)

Corporate [ ] Sole Proprietorship [ ] Partnership [ ] Municipal [X] State [ ] Federal [ ] Other [ ]

Are any of the discharges applied for in this application on Indian lands? Yes [ ] No [X]

16. List information on any other environmental permits for this facility:

Issuing Agency	Permit Type	Permit Number	Permit Status		
			Active	Applied for	Inactive
NYSDEC	LI Well	2-6308-00999/0002		X	
NYCDEP	Discharge				

17. Laboratory Certification:

Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

[X] **YES** - Complete the following table.

[ ] **NO** - Go to Item 18 below.

Name of laboratory or consulting firm	Address	Telephone (area code and number)	Pollutants analyzed
Applemon Corporation	New City, NY	(845) 634-0858	NYSDEC-Region 2 List for dewatering projects

18. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title (type or print) Jean M. Jean-Louis, Assistant Commissioner		Date signed 03/27/17
Signature	Telephone number (718) 391-3134	FAX number

INDUSTRIAL APPLICATION FORM NY-2C
Section I - Permittee and Facility Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

19. Industrial Chemical Survey (ICS)

Complete all information for those substances your facility has used, produced, stored, distributed, or otherwise disposed of in the past five (5) years at or above the threshold values listed in the instructions. Include substances manufactured at your facility, as well as any substances that you have reason to know or believe present in materials used or manufactured at your facility. Do not include chemicals used only in analytical laboratory work, or small quantities of routine household cleaning chemicals. Enter the name and CAS number for each of the chemicals listed in Tables 6-10 of the instructions, and the table number which lists the chemical. You may use ranges (e.g. 10-100 lbs., 100-1000 lbs., 1000-10000 lbs., etc.) to describe the quantities used on an annual basis as well as for the amount presently on hand. For those chemicals listed in Tables 6, 7, or 8 which are indicated as being potentially present in the discharge from one or more outfalls et the facility, indicate which outfalls may be affected in the appropriate column below, and include sampling results in Section III of this application for each of the potentially affected outfalls. Make additional copies of this sheet if necessary.

Name of Substance	Table	CAS Number	Average Annual Usage	Amount Now On Hand	Units (gallons, lbs, etc)	Purpose of Use (see codes in Table 2 of Instructions)	Present In Discharge? (Outfall(s)?)
None							

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

State Pollutant Discharge Elimination System (SPDES)

INDUSTRIAL APPLICATION FORM NY-2C

For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water

Section II - Outfall Information

Please type or print the requested information.

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

1. Outfall Number and Location

Outfall No.: 001		
Latitude 40 ° 35 ' 55 "	Longitude -73 ° 45 ' 32 "	Receiving Water Norton Basin Through MS4 Outfall ROC-651

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units MGD	Units GPM	Units Other (specify)		Volume/Flow	Units MGD	Units GPM	Units Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): Construction Excavation Dewatering						2,240		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge N/A			Process SIC code:
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
b. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
d. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge	b. Daily Minimum Flow	c. Daily Average Flow	d. Daily Maximum Flow	e. Maximum Design flow rate
1175 MG	3.22 MGD	3.22 MGD	3.22 MGD	4.0 MGD

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

	Outfall No.: 001
Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

5. Is this a seasonal discharge?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day		Total volume per discharge	Units	Duration (Days)
			LTA	Daily Max			

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	Groundwater	3.22	X MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:	[X]	Discharge to MS4 outfall through a storm sewer
In the stream:	[ ]	
Within a lake or ponded water:	[ ]	
Within an estuary:	[ ]	Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
Discharge is equipped with diffuser:	[ ]	Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% [ ] **25%** [ ] **50%** [ ] **Other:** [ ]

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity
Feet	**Feet**	**Feet/Sec**

Are the results of a mixing/diffusion study attached? [ ] **YES** [ ] **NO**

Section II - Outfall Information

Outfall No.: 001
SPDES Number:

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 9. below.

[ ] **Information on the intake and discharge configuration of this outfall is attached.**

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To	MGD	

9. Are any water treament chemicals or additives that are used by your facility subsequently discharged through this outfall?

[ ] **YES** - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

[X] **NO** - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	**Outfall No.:** 001
	SPDES Number:

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

[X] **YES** - Complete the following table. Treatment codes are listed in Table 4.

[ ] **NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (Include units)
Sedimentation	1-U	Suspended Solids	3.22 MGD

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

[ ] **YES** - Complete the following table.

[ ] **NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected
Construction of Storm Sewers, Sanitary	SPDES Permit	None		2018
Sewers and Water Mains in New Haven Avenue, etc.	for MS4 Outfall ROC-651			
	on Norton Basin			

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 001

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data							Units		Intake data (optional)		
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Suspended Solids (TSS)	32.4							mg/L				
d. Total Dissolved Solids (TDS)												
e. Oil & Grease	<0.541							mg/L				
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value 3.22		Value		Value			MGD		Value		
j. Temperature, winter	Value		Value		Value			°F		Value		
k. Temperature, summer	Value 55.4		Value		Value			°F		Value		
l. pH	Minimum	Maximum 7.2	Minimum	Maximum						Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

I. Does the discharge from this outfall contain process wastewater?
- [ ] **Yes** - Go to Item II. below.
- [X] **No** - Go to Item b. below.

II. Indicate which GC/MS fractions have been tested for: Volatiles: [ ] Acid: [ ] Base/Neutral: [ ] Pesticide: [ ]

b. All applicants:

I. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?
- [ ] **Yes** - Concentration and mass data attached.
- [X] **No** - Go to Item II. below.

II. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?
- [ ] **Yes** - Source or reason for presence in discharge attached
- [ ] **Yes** - Quantitative or qualitative data attached
- [X] **No**

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name:	SPDES No.:	Outfall No.:
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.		001

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.

Page 1 of 1

Pollutant and CAS Number	Effluent data							Units		Intake data (optional)			Believed present, no sampling results available
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		d. Number of analyses	
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
Arsenic CAS Number: 7440-38-2	0.007							mg/L					
Chromium CAS Number: 7440-47-3	0.010							mg/L					
Copper CAS Number: 7440-50-8	0.005							mg/L					
Nickel CAS Number: 7440-02-0	0.008							mg/L					
Lead CAS Number: 7439-92-1	<0.003							mg/L					
Zinc CAS Number: 7440-66-6	0.0308							mg/L					
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 001

4. Existing Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results for the last three (3) years for each pollutant that you know or have reason to believe present in this discharge from this outfall, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a for this discharge.

Make as many copies of this table as necessary for each outfall. You can list the results from 24 sampling dates on each copy of this page.		Parameter name: cis-1,2-dichloroethylene	Parameter name: Trichloroethylene	Parameter name:	Parameter name:	Parameter name:	Parameter name:	Parameter name:
Page 1 Of 1		CAS Number: 156-59-2	CAS Number: 79-01-6	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:
Date	Flow rate	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
	Units:	Units: ug/L	Units: ug/L	Units:	Units:	Units:	Units:	Units:
5/3/2016	MW-1	29	33					

State Pollutant Discharge Elimination System (SPDES)

INDUSTRIAL APPLICATION FORM NY-2C

For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water

Section II - Outfall Information

Please type or print the requested information.

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

1. Outfall Number and Location

Outfall No.: 002		
Latitude 40 ° 35 ' 54 "	Longitude -73 ° 45 ' 37 "	Receiving Water Norton Basin Through MS4 Outfall ROC-651

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units MGD	Units GPM	Units Other (specify)		Volume/Flow	Units MGD	Units GPM	Units Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): Construction Excavation Dewatering						2,240		X	
l. Other discharge (specify):									

3. List process Information for the Process Wastewater streams Identified in 2.a-d above:

a. Name of the process contributing to the discharge N/A			Process SIC code: | | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
b. Name of the process contributing to the discharge			Process SIC code: | | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
c. Name of the process contributing to the discharge			Process SIC code: | | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
d. Name of the process contributing to the discharge			Process SIC code: | | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge	b. Daily Minimum Flow	c. Daily Average Flow	d. Daily Maximum Flow	e. Maximum Design flow rate
1175 MG	3.22 MGD	3.22 MGD	3.22 MGD	4.0 MGD

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	**Outfall No.:** 002
	SPDES Number:

5. Is this a seasonal discharge?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day LTA	Flow rate per day Daily Max	Total volume per discharge	Units	Duration (Days)

6. Water Supply Source (Indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	Groundwater	3.22	X MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:	[X]	Discharge to MS4 outfall through a storm sewer
In the stream:	[ ]	
Within a lake or ponded water:	[ ]	
Within an estuary:	[ ]	Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
Discharge is equipped with diffuser:	[ ]	Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% [ ] 25% [ ] 50% [ ] **Other:** [ ]

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity
Feet	**Feet**	**Feet/Sec**

Are the results of a mixing/diffusion study attached? [ ] **YES** [ ] **NO**

Section II - Outfall Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	Outfall No.: 002
	SPDES Number:

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 9. below.

[ ] **Information on the intake and discharge configuration of this outfall is attached.**

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To	MGD	

9. Are any water treament chemicals or additives that are used by your facility subsequently discharged through this outfall?

[ ] **YES** - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

[X] **NO** - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	**Outfall No.:** 002 SPDES Number:

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

[X] **YES** - Complete the following table. Treatment codes are listed in Table 4.

[ ] **NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)
Sedimentation	1-U	Suspended Solids	3.22 MGD

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

[X] **YES** - Complete the following table.

[ ] **NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Permit for MS4 Outfall ROC-651 on Norton Basin	None		2018

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 002

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data							Units		Intake data (optional)		
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	e. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Suspended Solids (TSS)	32.4							mg/L				
d. Total Dissolved Solids (TDS)												
e. Oil & Grease	<0.541							mg/L				
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value 3.22		Value		Value			MGD		Value		
j. Temperature, winter	Value		Value		Value			°F		Value		
k. Temperature, summer	Value 55.4		Value		Value			°F		Value		
l. pH	Minimum	Maximum 7.2	Minimum	Maximum						Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

I. Does the discharge from this outfall contain process wastewater?
- [ ] **Yes** - Go to Item II. below.
- [X] **No** - Go to Item b. below.

II. Indicate which GC/MS fractions have been tested for: Volatiles: [ ] Acid: [ ] Base/Neutral: [ ] Pesticide: [ ]

b. All applicants:

I. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?
- [ ] **Yes** - Concentration and mass data attached.
- [X] **No** - Go to Item II. below.

II. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?
- [ ] **Yes** - Source or reason for presence in discharge attached
- [ ] **Yes** - Quantitative or qualitative data attached
- [X] **No**

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name:	SPDES No.:	Outfall No.:
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.		002

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.

Page 1 of 1

Pollutant and CAS Number	Effluent data							Units		Intake data (optional)			Believed present, no sampling results available
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		d. Number of analyses	
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
Arsenic CAS Number: 7440-38-2	0.007							mg/L					
Chromium CAS Number: 7440-47-3	0.010							mg/L					
Copper CAS Number: 7440-50-8	0.005							mg/L					
Nickel CAS Number: 7440-02-0	0.008							mg/L					
Lead CAS Number: 7439-92-1	<0.003							mg/L					
Zinc CAS Number: 7440-66-6	0.0308							mg/L					
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 002

4. Existing Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results for the last three (3) years for each pollutant that you know or have reason to believe present in this discharge from this outfall, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a for this discharge.

Make as many copies of this table as necessary for each outfall. You can list the results from 24 sampling dates on each copy of this page.		Parameter name: cis-1,2-dichloroethylene	Parameter name: Trichloroethylene	Parameter name:	Parameter name:	Parameter name:	Parameter name:	Parameter name:
Page 1 Of 1		CAS Number: 156-59-2	CAS Number: 79-01-6	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:
Date	Flow rate	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
	Units:	Units: ug/L	Units: ug/L	Units:	Units:	Units:	Units:	Units:
5/3/2016	MW-1	29	33					

State Pollutant Discharge Elimination System (SPDES)

INDUSTRIAL APPLICATION FORM NY-2C

For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water

Section II - Outfall Information

Please type or print the requested information.

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

1. Outfall Number and Location

Outfall No.: 003		
Latitude 40 ° 35 ' 51 "	Longitude -73 ° 45 ' 38 "	Receiving Water Norton Basin Through MS4 Outfall ROC-651

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units MGD	Units GPM	Units Other (specify)		Volume/Flow	Units MGD	Units GPM	Units Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify): Construction Excavation Dewatering						2,240		X	
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge N/A			Process SIC code: | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
b. Name of the process contributing to the discharge			Process SIC code: | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
c. Name of the process contributing to the discharge			Process SIC code: | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure
d. Name of the process contributing to the discharge			Process SIC code: | | |
Describe the contributing process	Category / Subcategory	Quantity per day	Units of measure

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Discharge	b. Daily Minimum Flow	c. Daily Average Flow	d. Daily Maximum Flow	e. Maximum Design flow rate
1175 MG	3.22 MGD	3.22 MGD	3.22 MGD	4.0 MGD

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	**Outfall No.:** 003
	SPDES Number:

5. Is this a seasonal discharge?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 6 below.

Operations contributing flow (list)	Discharge frequency		Flow				
	Batches per year	Duration per batch	Flow rate per day LTA	Flow rate per day Daily Max	Total volume per discharge	Units	Duration (Days)

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Units (check one)		
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)	Groundwater	3.22	X MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:	X	Discharge to MS4 outfall through a storm sewer
In the stream:		
Within a lake or ponded water:		
Within an estuary:		Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
Discharge is equipped with diffuser:		Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

10% [ ] **25%** [ ] **50%** [ ] **Other:** [ ]

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream depth	Stream velocity
Feet	**Feet**	**Feet/Sec**

Are the results of a mixing/diffusion study attached? [ ] **YES** [ ] **NO**

Section II - Outfall Information

Outfall No.: 003
SPDES Number:

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 9. below.

[ ] **Information on the intake and discharge configuration of this outfall is attached.**

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
Average change in temperature (delta T)	Maximum change in temperature (delta T)	Maximum temperature	hours per day	days per year	From	To	MGD	

9. Are any water treament chemicals or additives that are used by your facility subsequently discharged through this outfall?

[ ] **YES** - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

[X] **NO** - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

10. Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving water in relation to this outfall in the past three (3) years?

[ ] **YES** - Complete the following table.

[X] **NO** - Go to Item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic or Acute?	Subject species	Testing date(s)		Submitted? (Date)
					Start	Finish	

INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

	Outfall No.: 003
Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Number:

11. Is the discharge from this outfall treated to remove process wastes, water treatment additives, or other pollutants?

[X] **YES** - Complete the following table. Treatment codes are listed in Table 4.

[ ] **NO** - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)
Sedimentation	1-U	Suspended Solids	3.22 MGD

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

[X] **YES** - Complete the following table.

[ ] **NO** - Go to Section III on the following page.

Description of project	Subject to Condition or Agreement in existing permit or consent order? (List)	Change due to production increase?	Completion Date(s)	
			Required	Projected
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES Permit for MS4 Outfall ROC-651 on Norton Basin	None		2018

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 003

1. Sampling Information - Conventional Parameters

Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (using the same format) instead of completing this page.

Pollutant	Effluent data							Units		Intake data (optional)		
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Suspended Solids (TSS)	32.4							mg/L				
d. Total Dissolved Solids (TDS)												
e. Oil & Grease	<0.541							mg/L				
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value 3.22		Value		Value			MGD		Value		
j. Temperature, winter	Value		Value		Value			°F		Value		
k. Temperature, summer	Value 55.4		Value		Value			°F		Value		
l. pH	Minimum	Maximum 7.2	Minimum	Maximum						Minimum	Maximum	

2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:

I. Does the discharge from this outfall contain process wastewater?

[ ] **Yes** - Go to Item II. below.
[X] **No** - Go to Item b. below.

II. Indicate which GC/MS fractions have been tested for: Volatiles: [ ] Acid: [ ] Base/Neutral: [ ] Pesticide: [ ]

b. All applicants:

I. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?

[ ] **Yes** - Concentration and mass data attached.
[X] **No** - Go to Item II. below.

II. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the Instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?

[ ] **Yes** - Source or reason for presence in discharge attached
[ ] **Yes** - Quantitative or qualitative data attached
[X] **No**

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 003

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

List the name and CAS number for each pollutant that you know or have reason to believe is present in the discharge from this outfall. For each pollutant listed from Tables 6, 7, or 8, provide the results of at least one analysis for that pollutant, and determine the mass discharge based on the flow rate reported in Item 1.i. For each pollutant listed from Table 9, or any other toxic pollutant not listed in Tables 6-10, you must provide concentration and mass data (if available) and/or an explanation for their presence in the discharge. Make as many copies of this table as necessary for each outfall.

Page 1 of 1

Pollutant and CAS Number	Effluent data							Units		Intake data (optional)			Believed present, no sampling results available
	a. Maximum daily value		b. Maximum 30 day value (if available)		c. Long term average value (if available)		d. Number of analyses	a. Concentration	b. Mass	a. Long term average value		d. Number of analyses	
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
CAS Number:								mg/L					
CAS Number: Chromium 7440-47-3	0.010							mg/L					
CAS Number: Copper 7440-50-8	0.005							mg/L					
CAS Number: Nickel 7440-02-0	0.008							mg/L					
CAS Number: Lead 7439-92-1	<0.003							mg/L					
CAS Number: Zinc 7440-66-6	0.0308							mg/L					
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													
CAS Number:													

INDUSTRIAL APPLICATION FORM NY-2C
Section III - Sampling Information

Facility Name: Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.	SPDES No.:	Outfall No.: 003

4. Existing Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results for the last three (3) years for each pollutant that you know or have reason to believe present in this discharge from this outfall, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a for this discharge.

Make as many copies of this table as necessary for each outfall. You can list the results from 24 sampling dates on each copy of this page.		Parameter name: Tetrachloroethylene	Parameter name:	Parameter name:	Parameter name:	Parameter name:	Parameter name:	Parameter name:
Page 1 Of 1		CAS Number: 127-18-4	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:
Date	Flow rate	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
	Units:	Units: ug/L	Units:	Units:	Units:	Units:	Units:	Units:
5/3/2016	MW-2	4.7						

Discharge Monitoring Report (DMR) Signature Authorization Form

Permittee Name New York City Department of Design and Construction SPDES NO. _____

Facility Name Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc. Date _____

Name of person described in paragraph (1), (2) or (3):	Title:
Jean M. Jean-Louis	Assistant Commissioner
Signature of person described in paragraph (1), (2), or (3):	Date: 03/27/17

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ANY CHANGE IN THIS INFORMATION DURING THE LIFE OF THE PERMIT

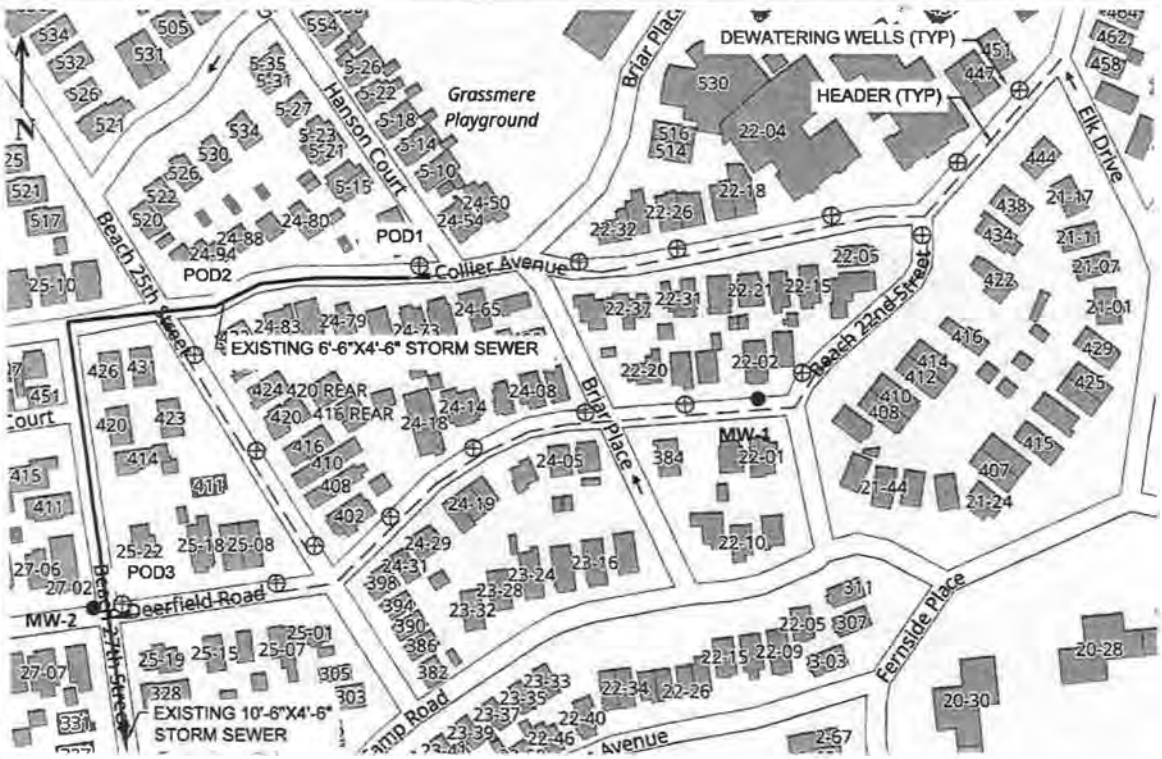
Name and/or Title of person responsible for signing and submitting DMR's:	Phone:		
Donna J. Cettina, Sr Project Manager	(347) 619-5866		
Mailing Name: CAC Industries Inc.			
Mailing Address: 54-08 Vernon Blvd	City: Long Island City	State: NY	Zip Code: 11101

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Name and/or Title of person responsible for signing and submitting DMR's:	Phone: ( )		
Mailing Name:			
Mailing Address:	City:	State:	Zip Code:

Return To: SPDES Compliance Information Section
Bureau of Water Compliance Programs
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3506



CALCULATIONS FOR POD1 & POD2

MAXIMUM FLOW RATE INSIDE THE EXISTING 6'-6"X4'-6" STORM SEWER		
Slope:	S =	0.0013
Area of Sewer in ft2: A =πHW	A =	22.96
Hydraulic Radius in feet = Area of pipe/Perimeter	Hr =	1.33
Manning's coefficient n (NYCDEP approved value is 0.013)	n =	0.013
Flow Velocity in ft/sec: $V = \{(1.486)*(Hr)^{2/3}*(S)^{1/2}\}/n$	V =	4.98
Flow Volume in cfs: Q = A*V	$Q_{in\ cfs}$ =	114.43
Flow Volume in gpm: Q in cfs*448.8	$Q_{in\ gpm}$ =	51,358
Flow Ratio in percentage: pump capacity/sewer capacity	Flow Ratio =	4.4%

CALCULATIONS FOR POD3

MAXIMUM FLOW RATE INSIDE THE EXISTING 10'-6"X4'-6" STORM SEWER		
Slope:	S =	0.0013
Area of Sewer in ft2: A =πHW	A =	37.09
Hydraulic Radius in feet = Area of pipe/Perimeter	Hr =	1.58
Manning's coefficient n (NYCDEP approved value is 0.013)	n =	0.013
Flow Velocity in ft/sec: $V = \{(1.486)*(Hr)^{2/3}*(S)^{1/2}\}/n$	V =	5.58
Flow Volume in cfs: Q = A*V	$Q_{in\ cfs}$ =	206.97
Flow Volume in gpm: Q in cfs*448.8	$Q_{in\ gpm}$ =	92,888
Flow Ratio in percentage: pump capacity/sewer capacity	Flow Ratio =	2.4%

FLOW RATE IN TEMPORARY 12" DISCHARGE PIPE		
Slope	S =	0.10
Area of pipe in ft²: $A = 3.1416*r^2$	A =	0.79
Hydraulic Radius in feet = Area of pipe/Perimeter = r/2	Hr =	0.25
Manning's coefficient n (NYCDEP approved value is 0.013)	n =	0.013
Flow Velocity in ft/sec: $V = \{(1.486)*(Hr)^{2/3}*(S)^{1/2}\}/n$	V =	14.34
Flow Volume in cfs: Q = A*V	$Q_{in\ cfs}$ =	11.26
Flow Volume in gpm: Q in cfs*448.8	$Q_{in\ gpm}$ =	5,054
Flow Ratio in percentage: pump capacity/sewer capacity	Flow Ratio =	44.3%

Notes
Flow from individual wells will be discharged to a settling tank before conveyance to the point of discharge

PROJECT SUMMARY

Project Name & No.	**Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc. , Qneens, New York 11691 (NYCDDC Project ID: SEQ200524)**
Scope of Work	Dewatering will be conducted on Deerfield Rd, etc. in Rockaway, Queens where a temporary dewatering and remediation system will be connected at three locations to existing 6'-6"X4'-6" and 10'-6"X4'-6" storm sewers on Collier Avenue and Beach 27th Street during construction of water main, storm and sanitary sewers
Pump Capacity	560 gpm working at 320 gpm
Number of Pumps	Maximum 7 pumps @ 320 gpm and 1 backup
Estimated Daily Pumpage	3.22 MGD (2240 gpm = 5.00 cfs) at three points of discharge (POD) each. Only one POD will be active at a time
Duration of pumping	2 years
Flow Meter	MW500 Manufactured by McCrometer
Pre-treatment Equipment	One 24000-gallon Settling Tank
Discharge Pipe Location	Header pipes will convey groundwater from individual wells to the settling tank. The discharge from the tank will enter the existing storm sewers by way of a temporary connection. The dewatering pumps, header pipe and settling tank will be relocated with project progress.

DEWATERING PLAN
FOR NEW HAVEN AVENUE, ETC. PROJECT, QUEENS
December 7, 2016

C.A.C. Industries, Inc.
54-08 Vernon Blvd
Long Island City, NY 11101

Fuad F. Adib, P.E.
PE License No. 078921
Applemon Corporation
151 S. Mountain Road
New City, NY 10956
Tel. (845) 634-0858

December 7, 2016

Mr. Stephen Watts
Deputy Regional Permit Administrator
New York State Department of Environmental Conservation
47-40 21st Street, 2nd Floor
Long Island City, New York, 11101

Re: Groundwater pH Measurement
Construction of Storm Sewers, Sanitary Sewers and Water Mains in New Haven Avenue, etc.
Queens, New York 11691
NYCDDC Project ID: SEQ200524

Dear Mr. Watts:

pH of groundwater was measured at the above location on May 3, 2016 according to the followings:

pH of groundwater at the time of sampling was 7.8 and 7.2 for MW-1 and MW-2, respectively.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Fuad F Adib

Fuad F. Adib, Ph.D., P.E.
Project Engineer

Applemon Corporation 151 S. Mountain Rd., New City, NY 10956 Phone: (845) 634-0858 Fax: (845) 634-7398
Visit us at: www.applemon.com

Technical Report

prepared for:

Applemon Corporation
151 S. Mountain Road
New City NY, 10956
Attention: Fuad Adib

Report Date: 05/11/2016
Client Project ID: New Haven Ave Queens
York Project (SDG) No.: 16E0100

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 05/11/2016
Client Project ID: New Haven Ave Queens
York Project (SDG) No.: 16E0100

Applemon Corporation
151 S. Mountain Road
New City NY, 10956
Attention: Fuad Adib

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 May 04, 2016 and listed below. The project was identified as your project: **New Haven Ave Queens**.

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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16E0100-01	MW-1	Water	05/03/2016	05/04/2016
16E0100-02	MW-2	Water	05/03/2016	05/04/2016

General Notes for York Project (SDG) No.: 16E0100

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: **Date:** 05/11/2016

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 16E0100-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Volatile Organics, 601/602/MTBE 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	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.6	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.5	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
110-75-8	2-Chloroethylvinyl ether	ND	VOA-REAC	ug/L	2.1	20	1	EPA 624 Certifications:	05/06/2016 08:42 NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
71-43-2	Benzene	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
75-25-2	Bromoform	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
74-83-9	Bromomethane	ND		ug/L	4.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.4	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
108-90-7	Chlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
75-00-3	Chloroethane	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
67-66-3	Chloroform	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
74-87-3	Chloromethane	ND		ug/L	0.96	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 13:53	SS
156-59-2	**cis-1,2-Dichloroethylene**	**29**		ug/L	0.89	5.0	1	EPA 624 Certifications:	05/06/2016 08:42 CTDOH,NELAC-NY10854,NJDEP	05/06/2016 13:53	SS

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 16E0100-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Volatile Organics, 601/602/MTBE 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
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.2	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	1.1	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	3.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	NELAC-NY10854,NJDEP		
100-41-4	**Ethyl Benzene**	**1.4**	J	ug/L	1.2	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**1.5**	J	ug/L	0.53	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	2.1	10	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-47-6	o-Xylene	ND		ug/L	1.1	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	2.3	10	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
127-18-4	Tetrachloroethylene	ND		ug/L	3.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-88-3	**Toluene**	**1.3**	J	ug/L	0.81	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications	CTDOH,NELAC-NY10854,NJDEP,PADEP		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	3.5	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
79-01-6	**Trichloroethylene**	**33**		ug/L	1.2	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
75-69-4	Trichlorofluoromethane	ND		ug/L	1.4	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
75-01-4	Vinyl Chloride	ND		ug/L	1.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
1330-20-7	Xylenes, Total	ND		ug/L	3.4	15	1	EPA 624	05/06/2016 08:42	05/06/2016 13:53	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*	*65-135*
2037-26-5	*Surrogate: Toluene-d8*	*98.0 %*	*86-118*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*81-114*

Metals, Priority Pollutant in Wastewater

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.003	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 16E0100-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Metals, Priority Pollutant in Wastewater

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

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**	**0.007**		mg/L	0.003	0.004	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.015**		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.006**		mg/L	0.001	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.001	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.008**		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	Selenium	ND		mg/L	0.004	0.011	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	Thallium	ND		mg/L	0.002	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.021**		mg/L	0.003	0.011	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:47	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

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	0.00009500	0.000200	1	EPA 245.1	05/04/2016 21:30	05/04/2016 21:30	AA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Total Settleable Solids (low-level)

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
	Total Settleable Solids	ND		mL/L	0.100	0.100	1	SM 2540F	05/04/2016 23:56	05/05/2016 01:03	AA
								Certifications: NELAC-NY10854,NJDEP,PADEP			

Total Suspended Solids (EPA)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	^ Total Suspended Solids	**3.40**		mg/L	2.00	2.00	1	EPA 160.2	05/05/2016 16:20	05/06/2016 00:52	AA
								Certifications:			

Sample Information

Client Sample ID: MW-1 **York Sample ID:** 16E0100-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Nitrate + Nitrite as Nitrogen **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Method Specific

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Nitrate + Nitrite Calculated Analyte	**5.20**		mg/L	0.0210	0.100	1	Nitrite Nitrate Cacl Certifications:	05/04/2016 18:20	05/04/2016 18:20	AD

Nitrate + Nitrite Nitrogen as N **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**5.20**		mg/L	0.0120	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/04/2016 18:20	05/04/2016 18:20	AD
14797-65-0	Nitrite as N	ND		mg/L	0.00900	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/04/2016 18:20	05/04/2016 18:20	AD

Oil & Grease **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
OILGREASE	Oil & Grease	ND		mg/L	0.541	0.541	1	EPA 1664A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	05/09/2016 16:16	05/10/2016 00:47	AA

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 16E0100-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Volatile Organics, 601/602/MTBE 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	1.2	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 08:42	05/06/2016 14:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/201608:42	05/06/2016 14:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 08:42	05/06/2016 14:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 08:42	05/06/2016 14:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.6	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/201608:42	05/06/2016 14:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/06/2016 08:42	05/06/2016 14:19	SS

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 16E0100-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Volatile Organics, 601/602/MTBE 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
107-06-2	1,2-Dichloroethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	1.5	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
110-75-8	2-Chloroethylvinyl ether	ND	VOA-REAC	ug/L	2.1	20	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 NELAC-NY10854,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	4.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	1.4	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	1.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.96	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.89	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	3.3	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 NELAC-NY10854,NJDEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	1.2	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	2.1	10	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	1.1	5.0	1	EPA 624 Certifications:	05/06/2016 08:42	05/06/2016 14:19 CTDOH,NELAC-NY10854,NJDEP	SS

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 16E0100-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Volatile Organics, 601/602/MTBE 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
179601-23-1	p- & m- Xylenes	ND		ug/L	2.3	10	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
127-18-4	**Tetrachloroethylene**	**4.7**	J	ug/L	3.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.81	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	3.5	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
79-01-6	Trichloroethylene	ND		ug/L	1.2	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	1.4	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	1.3	5.0	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	3.4	15	1	EPA 624	05/06/2016 08:42	05/06/2016 14:19	SS
								Certifications: CTDOH,NELAC-NY10854,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*105 %*	*65-135*
2037-26-5	*Surrogate: Toluene-d8*	*97.1 %*	*86-118*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*81-114*

Metals, Priority Pollutant in Wastewater

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.003	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-38-2	Arsenic	ND		mg/L	0.003	0.004	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	**Chromium**	**0.010**		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-50-8	**Copper**	**0.005**		mg/L	0.001	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.001	0.003	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-02-0	**Nickel**	**0.018**		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 16E0100-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Metals, Priority Pollutant in Wastewater

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/L	0.004	0.011	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.001	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-28-0	**Thallium**	**0.012**		mg/L	0.002	0.006	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-66-6	**Zinc**	**0.023**		mg/L	0.003	0.011	1	EPA 200.7	05/05/2016 10:19	05/05/2016 18:53	KV
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by EPA 245.1

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 245.1 Mercury

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	0.00009500	0.000200	1	EPA 245.1	05/04/2016 21:30	05/04/2016 21:30	AA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Total Settleable Solids (low-level)

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
	Total Settleable Solids	ND		mL/L	0.100	0.100	1	SM 2540F	05/04/2016 23:56	05/05/2016 01:03	AA
								Certifications: NELAC-NY10854,NJDEP,PADEP			

Total Suspended Solids (EPA)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Total Suspended Solids**	**32.4**		mg/L	4.00	4.00	1	EPA 160.2	05/05/2016 16:20	05/06/2016 00:52	AA
								Certifications:			

Nitrate + Nitrite as Nitrogen

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Method Specific

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Nitrate + Nitrite Calculated Analyte	ND		mg/L	0.0210	0.100	1	Nitrite Nitrate Cacl	05/04/2016 18:38	05/04/2016 18:38	AD
								Certifications:			

Nitrate + Nitrite Nitrogen as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0120	0.0500	1	EPA 300.0	05/04/2016 18:38	05/04/2016 18:38	AD
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Sample Information

Client Sample ID: MW-2 **York Sample ID:** 16E0100-02

York Project (SDG) No	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0100	New Haven Ave Queens	Water	May 3, 2016 5:00 pm	05/04/2016

Nitrate + Nitrite Nitrogen as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.00900	0.0500	1	EPA 300.0	05/04/2016 18:38	05/04/2016 18:38	AD
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Oil & Grease

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
OILGREASE	Oil & Grease	ND		mg/L	0.526	0.526	1	EPA 1664A	05/09/2016 16:16	05/10/2016 00:47	AA
								Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
16E0100-01	MW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
16E0100-02	MW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

VOA-REAC	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.
M-ACCB	Analyte in CCB. Run is bracketed by acceptable CCBs.
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.

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*	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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.


YORK

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

Field Chain-of-Custody Record

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

York Project No. 16E0100

YOUR Information	**Report To:**	**Invoice To:**
Company: Applemon Corporation	Company: Same	Company: Same
Address:	Address:	Address:
Phone No.	Phone No.	Phone No.
Contact Person: Fuad Adib	Attention: Same	Attention: Same
E-Mail Address:	E-Mail Address:	E-Mail Address:

YOUR Project ID
New Haven Ave
Queens

Purchase Order No.
—

Samples from: CT ___ NY / NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type
- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
- Simple Excel ___
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

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.

Fuad F. Adib
Samples Collected/Authorized By (Signature)

Fuad Adib
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

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/Cn	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-1	5/3/2016	GW	NYSDEC Parameters except PH	3-40mL HCl
MW-2	5:00 PM			1-250 ml H2NO3
				1-0.5 L pl
				1-1L pl
				2-1L H2SO4

Page 14 of 14

Comments

Preservation
Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C / Frozen ___ HCl / MeOH ___ HNO3 / H2SO4 / NaOH ___
ZnAc Ascorbic Acid Other

Fuad Adib	5/4/2016		5-4-16 9:00
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	5/4/16 15:15 Date/Time

Temperature on Receipt 4.1 °C