

SUPREME COURT OF THE STATE OF NEW YORK
COUNTY OF NEW YORK

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In the Matter of the Application of

SIERRA CLUB and HUDSON RIVER
FISHERMEN'S ASSOCIATION,

Petitioners,

For a Judgment Pursuant to Article 78 of the
Civil Practice Law and Rules,

- against -

JOSEPH MARTENS, AS COMMISSIONER OF THE
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION, and
CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.

Respondents.
-----X

Index No. 100524/2015

Hon. Alice Schlesinger

ADMINISTRATIVE RECORD

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State of New York
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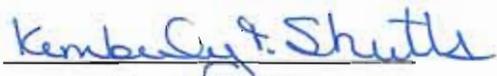
CERTIFICATION PURSUANT TO CPLR § 7804(e)

I, Kent Sanders, the Deputy Chief Permit Administrator of the Division of Environmental Permits of the New York State Department of Environmental Conservation, do hereby certify, pursuant to CPLR § 7804(e), that, to the best of my knowledge, information and belief, the foregoing documents constitute the record of the proceedings under consideration.

Dated: Albany, NY
June 4, 2015

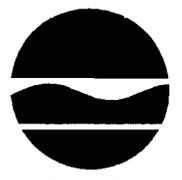

Kent Sanders

Sworn to before me this
4th day of June, 2015


Notary Public

KIMBERLY T SHUTTS
Notary Public, State of New York
Qualified in Livingston County
Commission Expires March 14, 2018
Registration No. 01SH4924364

New York State Department of Environmental Conservation
Division of Environmental Permits, 4th Floor
625 Broadway, Albany, NY 12233-1750
Phone: (518) 402-9167 • Fax: (518) 402-9168
Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

PK
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May 28, 2010

WATER PERMITS
RECEIVED
JUN 03 2010

Mr. Brian Brush
Consolidated Edison of New York
4 Irving Place, Room 306S
New York, New York 10003

Re: East River Generating Station
DEC Application # 2-6206-00012/00004
SPDES Permit Modification (SPDES Number NY0005126)

Dear Mr. Brush:

In conformance with the requirements of the State Uniform Procedures Act (Article 70, ECL) and its implementing regulations (6NYCRR, Part 621) enclosed is the permit for the above referenced facility.

Please be reminded Consolidated Edison of New York is responsible for informing its contractors, employees, agents and assigns of their responsibility to comply with terms and conditions of this permit while acting as its agent with respect to permitted activities, and such persons are subject to the same sanctions for permit violations as prescribed for Consolidated Edison.

Please read all terms and conditions of the permit carefully. If you have any questions, please contact me at (518) 402-9150.

Sincerely,

Rudyard G. Edick
Project Manager

atch: SPDES Permit
SPDES Biological Fact Sheet
DEC Response to Super Law Group Comments on Draft Permit

cc:

New York City Mayor
RPA - Region 2
RWE - Region 2
CO BWP - Permit Coordinator
EPA Region II - Michelle Josilo



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)

DISCHARGE PERMIT (Draft 2/20/07)

Special Conditions (Part 1)

Industrial Code: 4931
 Discharge Class (CL): 03
 Toxic Class (TX): T
 Major Drainage Basin: 17
 Sub Drainage Basin: 02
 Water Index Number: ER
 Compact Area: IEC

SPDES Number: NY-0005126
 DEC Number: 2-6206-00012/00004-0
 Effective Date (EDP): 1 September 2007
 Expiration Date (ExPD): 31 August 2012
 Modification Dates: June 1, 2010

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et.seq.)(hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: Consolidated Edison of New York Attention: Brian Brush
 Street: 4 Irving Place, Room 306S
 City: New York State: NY Zip Code: 10003

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: East River Generating Station
 Location (C,T,V): New York County: New York
 Facility Address: 14th Street and East River
 City: New York State: NY Zip Code: 10009
 NYTM -E: 592.5 NYTM - N: 4515.7
 From Outfall No.: 001 at Latitude: 40 ° 47 ' 20 " & Longitude: 73 ° 54 ' 50 "
 into receiving waters known as: East River Class: I

and; (list other Outfalls, Receiving Waters & Water Classifications)

- 01A, 01H - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01B - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01C - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01D - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01E - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01F - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 01G - East River via Outfall 001 Class I LAT 40 47 20 LON 73 54 50
- 002 East River Class I LAT 40 47 20 LON 73 54 50
- 003 - East River Class I LAT 40 47 20 LON 73 54 50
- 004 - East River Class I LAT 40 47 20 LON 73 54 50

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: East River Generating Station
 Street: 14th Street and east River
 City: New York State: NY Zip Code: 10009
 Responsible Official or Agent: Mike Kessler KESSLERM@CONED.COM Phone: 212-614-3665

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

Permit Coordinator, BWP
 John Cryan, Region 2
 Region 2, RWE
 John Cryan, Region 2
 EPA Region 2 - Jeff Gratz
 IEC

Permit Administrator: William R. Adriance	
Address: 625 Broadway Albany, NY 12233	
Signature: <i>William R. Adriance</i>	Date: 5/28/10

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING		
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)		
PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE	
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.			
PARAMETER	EFFLUENT LIMIT	PRACTICAL QUANTITATION LIMIT (PQL)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based standards, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the analytical method specified in the permit shall be used to monitor the amount of the pollutant in the outfall to this level, provided that the laboratory analyst has complied with the specified quality assurance/quality control procedures in the relevant method. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This PQL can be neither lowered nor raised without a modification of this permit.	Type I or Type II Action Levels are monitoring requirements, as defined below in Note 2, that trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, Temperature, concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Note 1: DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.

DAILY MAX.: The highest allowable daily discharge. **DAILY MIN.:** The lowest allowable daily discharge.

DAILY AVG or 30 DAY ARITHMETIC MEAN (30 day average): The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.

30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.

RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

Note 2: ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. **TYPE I:** The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level. **TYPE II:** The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results that show the stated action level exceeded for four of six consecutive samples, or for two of six consecutive samples by 20 % or more, or for any one sample by 50 % or more.

FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE			RECEIVING WATER	EFFECTIVE	EXPIRING		
001	Combined discharge from suboutfalls 01A-01G (Condenser Cooling Water, low volume waste, reverse osmosis reject water/filter backwash)			East River	EDP	ExpD		
PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)		
pH	6.0	9.0	SU	2/Week	Grab			
PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	Monitor	Monitor			MGD	Continuous	Pump Log	
Total Residual Chlorine	NA	0.1			mg/l	3/Week	Grab	2,3, 4
Net Discharge of Heat	NA	2.46×10^9			BTU/Hr	Monthly	Calculated	
Intake-Discharge Temperature Difference	Monitor	18			°F	Hourly	Recorder	
Discharge Temperature	Monitor	98			°F	Continuous	Recorder	

OUTFALL No.	WASTEWATER TYPE			RECEIVING WATER	EFFECTIVE	EXPIRING		
01A, 01H	Boiler Blowdown			East River via Outfall 001	EDP	ExpD		
PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			GPD	Weekly	Instantaneous	
Oil & Grease	NA	15			mg/l	Quarterly	Combined	
Total Suspended Solids	30	100			mg/l	2/Month	Combined	

FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01B	Neutralization Tank Effluent	East River via Outfall 001	EDP	ExPD
01D	Carbon Filter Backwash			
01F	Reverse Osmosis Reject Water/Filter Backwash			
01G	Multimedia Filter Backwash			
004	Substation Oil/Water Separator	East River		

PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			GPD	Monthly	Instantaneous	
Oil & Grease	NA	15			mg/l	Quarterly	Grab	
Total Suspended Solids	30	100			mg/l	2/Month	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING				
01C	Floor Drains	East River via Outfall 001	EDP	ExPD				
Flow	NA	Monitor			GPD	Monthly	Instantaneous	
Oil & Grease	NA	15			mg/l	Weekly	Grab	
Total Suspended Solids	30	100			mg/l	Weekly	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING				
01E	Tank Farm Oil/Water Separator	East River via Outfall 001	EDP	ExPD				
PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			GPD	Monthly	Instantaneous	
Oil & Grease	NA	15			mg/l	Weekly	Grab	
Benzene			0.1		mg/l	Quarterly	Grab	
Toluene			0.1		mg/l	Quarterly	Grab	
Xylenes			0.1		mg/l	Quarterly	Grab	
Ethylbenzene			0.1		mg/l	Quarterly	Grab	

FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING				
002	Conveyor Tunnel Sump	East River via Outfall 001	EDP	ExPD				
PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			GPD	Monthly	Instantaneous	
Oil & Grease	NA	15			mg/l	Quarterly	Grab	
Total Suspended Solids	NA	Monitor			mg/l	2/Month	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING				
003	Hydrostatic Test water	East River	EDP	ExPD				
PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			GPD	Monthly	Calculated	5
Oil & Grease	NA	15			mg/l	Monthly	Grab	5
Benzene	NA	0.020			mg/l	Each Discharge	Grab(s)	5
Toluene	NA	0.020			mg/l	Each Discharge	Grab(s)	5
Xylenes (Total)	NA	0.020			mg/l	Each Discharge	Grab(s)	5
Ethylbenzene	NA	0.020			mg/l	Each Discharge	Grab(s)	5
Chlorine, Total Residual	NA	0.1			mg/l	Each Discharge	Grab(s)	5,6

Footnotes:

1. This limitation may be exceeded during periods when one or more condensing units are operating with only one circulating water pump (per unit) due to pump breakdown or routine maintenance. In the event of pump breakdown, the permittee shall take corrective action as soon as possible. Where possible, routine pump maintenance resulting in these limitations being exceeded should be avoided during June through September. The permittee shall indicate on the Discharge Reporting Form (1) which circulating water pumps, if any, were not in operation, (2) the dates and times such pumps were not operating, (3) the reason(s) for pumps not operating, and (4) the period(s) dates and time(s) during which the limitation was exceeded. In no case shall the limitation be exceeded more than 1% of the time during the operating year.
2. Neither free available nor total residual chlorine may be discharged for more than two hours per unit in any one day when units are individually chlorinated. Chlorine may be discharged no more than two hours per day when units are simultaneously chlorinated.
3. Compliance with the chlorine limit may be determined by combining the flow weighted concentration of the discharge from both discharge tunnels.
4. Three (3) Samples per week w/4 equally spaced grab samples per event. Sampling shall occur during chlorination of the unit with the maximum feed rate.
5. Each discharge of hydrostatic test water may be directed via Outfall 003. Tanks being tested must be cleaned and free of product.. Any discharge of hydrostatic test water must be under the direct supervision of plant personnel. A visual check for the presence of oil and floating substances must be made of the discharge. Sampling must be performed from various levels within the tank.
- 6 Required when chlorinated supply is used for hydrostatic testing of tanks.

SPECIAL CONDITIONS:

A. Additional Requirements:

1. There shall be no discharge of the following wastes to surface waters or groundwater of the State; fly ash and bottom ash sluice wastes. Boiler and metal cleaning wastewater shall be transported off-site for treatment to a certified waste facility by a licensed vendor.
2. An annual report showing for each day of the month, the minimum, average, and maximum (i) gross station load (MWe), (ii) intake water temperature (°F), (iii) discharge water temperature (°F), and (iv) intake water volume (million gallons per day) shall be submitted to the Department's Division of Water offices in Albany and Region 2 (data shall be made available in electronic format -Quattro Pro or Excel format). Such report is due by March 15th of each year.
3. There shall be no visible sheen of oil and grease from outfalls 001, 002, 003 or 004.
4. There shall be no discharge of PCB's from this facility.
5. No biocides, dyes, corrosion control chemicals or other water treatment chemical additives are authorized for use by the permittee except for those identified in the application for this permit, listed in this permit, or in the approved engineering reports, specifications and final designs submitted under this permit. If additional chemical substances are contemplated, application for their approval must be made to the Department. All changes in chemical use shall be made in accordance with DEC's "Water Treatment Chemical (WTC) Usage Notification Requirements for SPDES Permittees."
6. When treating with Spectrus CT 1300 the following conditions apply:
 - a. Sampling must be conducted as Multiple Grab samples (For purpose of this authorization multiple grab is defined as individual grab samples collected on intervals not to exceed three hours), during application. A maximum concentration of up to 50µg/l is allowed during treatments (end of pipe, after detoxification).
 - b. Detoxification with bentonite clay or other Department approved adsorption medium is required. At least a 1:1 ratio with the initial concentration of molluscicide to detoxicant must be maintained.
 - c. Each individual mussel control treatment is limited up to a maximum of 24 hours addition of Molluscicide once-through treatment and limited to a maximum of 24 hours discharge of detoxified Molluscicide during a recirculation treatment.
 - d. Records of product use, effluent flow and concentration of product during application and discharge must be maintained.
 - e. The Regional Water Engineer shall be notified not less than 48 hours before initiation of zebra mussel control program.
 - f. Upon elimination of initial infestations, treatments are limited to not more than 1 time annually.
 - g. The reports describing the results of the effectiveness of the zebra mussel control program and effluent analyses for Molluscicide shall be submitted annually to Regional Water Engineer, NYSDEC.
 - h. This permit condition is based on the best environmental and aquatic toxicity information available at this time. This authorization is subject to modification or withdrawal any time new information becomes available which justifies such modification or withdrawal.
- NOTE: For those situations where an effluent sample result is greater than the discharge limits due to suspected inadequate mixing of detoxicant, an additional sample shall be obtained as soon as possible to verify the initial result.
7. In all instances, chlorine use shall be: 1) kept to the minimum amount which will maintain plant operating efficiency, and 2) done concurrently with thermal recirculation.
8. Samples for monitoring pH shall be collected within the discharge tunnel.
9. The permittee shall comply with the provisions agreed to under Consent order #R2-2985-90-04, which are designed to study and if necessary, mitigate biological impacts associated with the East River Generating Station condenser cooling water use.

B. BIOLOGICAL REQUIREMENTS

All submissions under this section should provide :

Two (2) copies to the Steam Electric Unit Leader;

One (1) copy of the cover letter to the Division of Water
State Pollution Discharge Elimination System (SPDES)
Compliance Information Section; and

One (1) copy of the cover letter to the Regional Water Engineer;
unless otherwise noted.

1. **Impingement Mortality and Entrainment Characterization Study** (condition has been met)
2. **Design and Construction Technology Plan** (condition has been met)
3. **Technology Installation and Operation Plan**

Within 3 months of the effective date of the permit modification requiring technologies and/or operational measures to meet requirements of 6 NYCRR Part 704.5 and §316(b) of the CWA the permittee must submit an approvable Technology Installation and Operation Plan. This plan must include

- a. A schedule to replace all standard traveling intake screens at Units 6 and 7 with Ristroph modified traveling intake screens, and install a dedicated fish return system to safely transport impinged fish back to the East River waterway;
- b. A study plan (including drawings and descriptions of all work to be done) and schedule for the installation and testing of the use of fine mesh panels (0.75 mm or approximate) on traveling intake screens to minimize entrainment of fish eggs and larvae.

4. **Verification Monitoring Study**

Within 3 months of the effective date of the permit modification requiring technologies and/or operational measures to meet requirements of 6 NYCRR Part 704.5 and §316(b) of the CWA, the permittee must submit an approvable Verification Monitoring Plan. This plan must include details of procedures to confirm that the necessary reductions in impingement and entrainment required by this permit are being achieved, and must include the following:

- a. A five year averaging period which shall include at a minimum, two years of biological monitoring to verify the full-scale performance of BTA measures to reduce impingement mortality and entrainment;
- b. A description and justification of the frequency and duration of sample collection and the parameters to be monitored;
- c. A schedule of implementation; and
- d. A draft proposed Standard Operation Procedure (SOP) that describes the sampling protocols for these monitoring studies.

The plan and SOP must be updated as required by the Department. Upon receipt of Department approval the permittee must complete the Verification Monitoring Study in accordance with the approved schedule. The Verification Monitoring Plan and approved schedule will become an enforceable condition of this SPDES permit.

Within 6 months of the completion of the Verification Monitoring Study the permittee must submit an approvable report to the Steam Electric Unit Leader that demonstrates compliance with 6 NYCRR Part 704.5 and §316(b) of the CWA.

5. Complete installation of BTA

By the expiration date of the permit (August 31, 2012) , intake screen installation and establishment of a dedicated fish return system shall be completed. The reductions in entrainment and impingement mortality resulting from these technologies and/or operational measures can be no less stringent, and if possible, should be substantially greater than the following performance standards:

- a. Entrainment must be reduced by at least 75 % from the calculation baseline; and
- b. Impingement mortality must be reduced by at least 90 % from the calculation baseline.

6. Contingency Plan to meet Department Performance Standards

If fine mesh panels are determined to be infeasible, or upon completion of Verification Monitoring Studies the Department determines that the performance standards contained in biological condition numbers 5(a) and 5(b) above have not been met, then within 3 months of such notification the applicant shall submit an approvable plan to further reduce impingement mortality and/or entrainment losses at the East River Generating Station. Upon Department approval, the plan and schedule shall become enforceable conditions of this permit.

7. Additional Reporting Requirements

- a. The permittee must maintain records of all data, reports and analysis pertaining to compliance with 6NYCRR Part 704 and Section 316(b) CWA for a period no less than 10 years from EIDP.
- b. The permittee must submit status reports by March 1, 2012 and every two years thereafter. At a minimum, these status reports must include a description of the operational status of the facility during the preceding two years and compliance with Biological Requirements 1 through 6 of this permit.
- c. Six (6) months prior to the expiration date of this permit (ExDP of 31 August 2012), and every five years thereafter, the permittee must submit a report that includes:
 - i. A description and detailed analysis of the cumulative reductions in impingement and entrainment achieved, and
 - ii. A detailed analysis of technologies and/or operational measures available at that time, which have been demonstrated to, or have the potential to, further reduce fish mortality. The list of technologies and/or operational measures included in this analysis must be selected with the concurrence of the Department.

- d. By March 1 of each year, the applicant shall submit a report showing, in tabular fashion, the average monthly volume of cooling water used by each unit for the preceding year.

8. General Requirement

- a. Modification of the facility cooling water intake must not occur without prior Department approval. The permittee must submit written notification, including detailed descriptions and plans, to the NYS DEC Steam Electric Unit; the Director of the Bureau of Water Compliance Program; and both the Regional Permit Administrator and the Regional Water Engineer, Region 2, at least 60 days prior to any proposed change which would result in the alteration of the permitted operation, location, design, construction or capacity of the cooling water intake structure. The permittee must submit with the written notification a demonstration that the change reflects the best technology available for minimizing adverse environmental impacts pursuant to 6 NYCRR §704.5 and Section 316(b) of the Clean Water Act. As determined by NYS DEC, a permit modification application in accordance with 6 NYCRR Part 621 may be required.
- b. Thermal Discharge

The Department has approved the permittee's Thermal Study Plan and the Thermal Criteria Study (ThCS). The permittee has demonstrated to the satisfaction of the Department that the thermal discharge meets the narrative standard (6NYCRR 704.1). The results of the ThCS demonstrated that all of the applicable thermal criteria will be met; then the thermal standard is also met. If it is determined that any of the applicable criteria were not met, the permittee would have conducted a Thermal Standard Study (ThSS) to determine if one or more of the criteria in Part 704.2 were unnecessarily restrictive.

C. SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Action/Outfall Code/Number(s)	Compliance Action	Due Date
NA	3. Submit an approvable "Technology Installation and Operation Plan" (TIOP)	EDPM + 3 months
	4. Submit an approvable "Verification Monitoring Plan. (VMP)	EDPM + 3 months
	5. Complete the installation of the Department Approved BTA	31 August 2012
	6. Submit BTA Contingency Plan	VMP studies completion + 3 months if Department Determines it is Necessary
	7. b. Submit status report	1 March 2012 and every 2 years thereafter
	7.c. Submit report on cumulative reductions in impingement and entrainment and analysis of technologies.	1 March 2012 years and every 5 years thereafter
	7. d. Submit cooling water use report	March 1 each year

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the submission. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

- b) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:
1. A short description of the non-compliance;
 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
 3. A description of any factors which tend to explain or mitigate the non-compliance; and
 4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.
- c) The permittee shall submit copies of any document required by the above schedule of compliance to NYSDEC Regional Water Engineer at the location listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, unless otherwise specified in this permit or in writing by the Department.

SPECIAL CONDITIONS - INDUSTRY BEST MANAGEMENT PRACTICES

1. **General** - The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage.

The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. **Compliance Deadlines** - The initial completed BMP plan shall be submitted **WITHIN 6 MONTHS OF EDPM** to the Regional Water Engineer. The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The BMP plan shall be reviewed annually and shall be modified whenever: (a) changes at the facility materially increase the potential for releases of pollutants, (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All BMP plan revisions (with the exception of SWPPPs - see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the BMP plan (or of any SWPPPs) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. **Facility Review** - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at <http://www.dec.state.ny.us/website/dcs/permits/olpermits/form2c.pdf>) or that are required to be monitored for by the SPDES permit. [

4. **A. 13 Minimum BMPs** - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in the September 1992 manual *Storm Water Management for Industrial Activities*, EPA 832-R-92-006 (available from NTIS, 703-487-4650, order # PB 92235969). As a minimum, the plan shall include the following BMPs:

- | | | |
|-------------------------------------|---|---------------------------------|
| 1. BMP Pollution Prevention Team | 6. Security | 10. Spill Prevention & Response |
| 2. Reporting of BMP Incidents | 7. Preventive Maintenance | 11. Erosion & Sediment Control |
| 3. Risk Identification & Assessment | 8. Good Housekeeping | 12. Management of Runoff |
| 4. Employee Training | 9. Materials/Waste Handling, Storage, & Compatibility | 13. Street Sweeping |
| 5. Inspections and Records | | |

Note that for some facilities, especially those with few employees, some of the above BMPs may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the BMP Plan that do not apply to your facility, along with an explanation.

B. Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to Surface Waters - As part of BMP #11, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual*, unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent (NOI)* form shall be submitted (available at www.dec.state.ny.us/website/dow/toolbox/swforms.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP is properly implemented.

5. **Required Sampling For "Hot Spot" Identification** - Development of the BMP plan shall include sampling of waste stream segments for the purpose of pollutant "hot spot" identification. The economic achievability of effluent limits will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology. For the purposes of this permit condition a "hot spot" is a segment of an industrial facility (including but not limited to soil, equipment, material storage areas, sewer lines etc.) which contributes elevated levels of problem pollutants to the wastewater and/or stormwater collection system of that facility. For the purposes of this definition, problem pollutants are substances for which treatment to meet a water quality or technology requirement may, considering the results of waste stream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the concentration of that same pollutant at the compliance monitoring location so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.
6. **Facilities with Petroleum and/or Chemical Bulk Storage (PBS and CBS) Areas** - Compliance must be maintained with all applicable regulations including those involving releases, registration, handling and storage (6NYCRR 595-599 and 612-614). Stormwater discharges from handling and storage areas should be eliminated where practical.

A. **Spill Cleanup** - All spilled or leaked substances must be removed from secondary containment systems as soon as practical and for CBS storage areas within 24 hours, unless written authorization is received from the Department. The containment system must be thoroughly cleaned to remove any residual contamination which could cause contamination of stormwater and the resulting discharge of pollutants to waters of the State. Following spill cleanup the affected area must be completely flushed with clean water three times and the water removed after each flushing for proper disposal in an on-site or off-site wastewater treatment plant designed to treat such water and permitted to discharge such wastewater. Alternately, the permittee may test the first batch of stormwater following the spill cleanup to determine discharge acceptability. If the water contains no pollutants it may be discharged. Otherwise it must be disposed of as noted above. See *Discharge Monitoring* below for the list of parameters to be sampled for.

B. **Discharge Operation** - Stormwater must be removed before it compromises the required containment system capacity. Each discharge may only proceed with the prior approval of the permittee staff person responsible for ensuring SPDES permit compliance. Bulk storage secondary containment drainage systems must be locked in a closed position except when the operator is in the process of draining accumulated stormwater. Transfer area secondary containment drainage systems must be locked in a closed position during all transfers and must not be reopened unless the transfer area is clean of contaminants. Stormwater discharges from secondary containment systems should be avoided during periods of precipitation. A logbook shall be maintained on site noting the date, time and personnel supervising each discharge.

C. Discharge Screening - Prior to each discharge from a secondary containment system the stormwater must be screened for contamination*. All stormwater must be inspected for visible evidence of contamination. Additional screening methods shall be developed by the permittee as part of the overall BMP Plan, e.g. the use of volatile gas meters to detect the presence of gross levels of gasoline or volatile organic compounds. If the screening indicates contamination, the permittee must collect and analyze a representative sample** of the stormwater. If the water contains no pollutants it may be discharged. Otherwise it must either be disposed of in an on site or off site wastewater treatment plant designed to treat and permitted to discharge such wastewater or the Regional Water Engineer can be contacted to determine if it may be discharged without treatment.

D. Discharge Monitoring - Unless the discharge from any bulk storage containment system outlet is identified in the SPDES permit as an outfall with explicit effluent and monitoring requirements, the permittee shall monitor the outlet as follows:

(i) *Bulk Storage Secondary Containment Systems:*

(a) The volume of each discharge from each outlet must be monitored. Discharge volume may be calculated by measuring the depth of water within the containment area times the wetted area converted to gallons or by other suitable methods. A representative sample shall be collected of the first discharge* following any cleaned up spill or leak. The sample must be analyzed for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(b) Every fourth discharge* from each outlet must be sampled for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(ii) *Transfer Area Secondary Containment Systems:*

The first discharge* following any spill or leak must be sampled for flow, pH, the substance(s) transferred in that area and any other pollutants the permittee knows or has reason to believe are present**.

E. Discharge Reporting - Any results of monitoring required above, excluding screening data, must be submitted to the Department by appending them to the corresponding DMR. Failure to perform the required discharge monitoring and reporting shall constitute a violation of the terms of the SPDES permit.

F. Prohibited Discharges - In all cases, any discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited. The following discharges are prohibited unless specifically authorized elsewhere in this SPDES permit: spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained fire fighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

* Discharge includes stormwater discharges and snow and ice removal. If applicable, a representative sample of snow and/or ice should be collected and allowed to melt prior to assessment.

** If the stored substance is gasoline or aviation fuel then sample for oil & grease, benzene, ethylbenzene, naphthalene, toluene and total xylenes (EPA method 602). If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (EPA method 610). If the substance(s) are listed in Tables 6-8 of SPDES application form NY-2C then sampling is required. If the substance(s) are listed in NY-2C Tables 9-10 sampling for appropriate indicator parameters may be required, e.g. BOD5 or toxicity testing. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

DISCHARGE NOTIFICATION REQUIREMENTS

- (a) Except as provided in (c) and (f) of these Discharge Notification Act requirements, the permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit. Such signs shall be installed within 90 days of the Effective Date of this Modification.
- (b) Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (a) above, unless a new deadline is set explicitly by such permit modification or renewal.
- (c) The Discharge Notification Requirements described herein do not apply to outfalls from which the discharge is composed exclusively of storm water, or discharges to ground water.
- (d) The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT	
SPDES PERMIT No.: NY _____	
OUTFALL No. : _____	
For information about this permitted discharge contact:	
Permittee Name:	_____
Permittee Contact:	_____
Permittee Phone:	() - ### - #####
OR:	

- (e) For each discharge required to have a sign in accordance with a), the permittee shall, concurrent with the installation of the sign, provide a repository of copies of the Discharge Monitoring Reports (DMRs), as required by the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of this permit. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of your permit, each DMR shall be maintained on record for a period of three years.
- (f) If, upon November 1, 1997, the permittee has installed signs that include the information required by 17-0815-a(2)(a) of the ECL, but do not meet the specifications listed above, the permittee may continue to use the existing signs for a period of up to five years, after which the signs shall comply with the specifications listed above.
- (g) The permittee shall periodically inspect the outfall identification signs in order to ensure that they are maintained, are still visible and contain information that is current and factually correct.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to 6 NYCRR Part 750-1.2(a) and 750-2 for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

(if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

(if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 and must summarize information for January to December of the previous year in a format acceptable to the Department.

(if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
 Regional Water Engineer and/or County Health Department or Environmental Control Agency specified below

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Water Compliance Programs
625 Broadway
Albany, New York 12233-3506

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer, Region 2
One Hunters Point Plaza
Long Island City, New York 11101-5407
Phone: (718) 482-4933

Send an **additional copy** of each DMR page to:

- c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2.
- d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.
- f) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- g) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- h) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.

Reasons Supporting This Determination:

(See 617.7(a)-(c) for requirements of this determination ; see 617.7(d) for Conditioned Negative Declaration)

See attached.

If Conditioned Negative Declaration, provide on attachment the specific mitigation measures imposed, and identify comment period (not less than 30 days from date of publication in the ENB)

For Further Information:

Contact Person: Rudyard G. Edick

Address: 625 Broadway, Albany, NY 12233

Telephone Number: 518-402-9150

For Type 1 Actions and Conditioned Negative Declarations, a Copy of this Notice is sent to:

Chief Executive Officer, Town / City / Village of

Other involved agencies (If any)

Applicant (If any)

Environmental Notice Bulletin, 625 Broadway Albany NY 12233-1750 (Type One Actions only)

East River SPDES Permit Modification: Reasons Supporting This Determination

1. Description of Facility

The East River Generating Station, located along the East River, first began operations in 1927. The station currently has two oil and gas fired units, built in 1951 and 1955 with rated capacities of 137 and 180 megawatts. The facility has a combined condenser cooling and service water flow of 369 million gallons per day. The shoreline intake structure consists of a common intake screenwell for the two operating units, leading to four dual flow traveling screens to keep the station's condensers clear. Screens are washed continuously to remove impinged material (marine organisms and debris), which enters a common sluiceway for discharge into the East River.

2. Ecological Resource

The East River is part of the Hudson-Raritan Estuary System which extends approximately 170 miles from the dam at Troy, NY to Sandy Hook, NJ. This estuary system connects to the coastal marine waters of the New York Bight, between Sandy Hook, New Jersey and Rockaway Point, New York, and to the western end of the Long Island Sound through the East River.

The East River is a tidal strait extending about 16 miles from the Battery in New York City to Throgs Neck at Long Island Sound. At Hell's Gate, a natural sill divides the East River into two distinct hydrological sections. The upper East River, which connects to Long Island Sound, is broader, more shallow and characterized by more natural shoreline habitat. The Lower East River, where the East River Generating Station is located, is a narrower 10 mile section, bulkheaded along most of its length. The channel here is steep sided with depths of approximately 35 to 80 feet. Current velocities in the vicinity of the Station are high, with average peak flood and ebb currents at about 4.6-4.7 feet per second, and maximum tidal velocities exceeding 5.5 feet per second (ASA 2001).

For many decades, the Hudson-Raritan estuary was severely polluted due to discharges of untreated sewage, industrial effluents and urban runoff. Since the late 1970s, when the most significant abatement of untreated sewage occurred, water quality in the estuary, in terms of dissolved oxygen and coliform bacteria levels, has greatly improved (Brosnan and OShea 1996). More than 140 species of fish have recently been

reported from the Hudson-Raritan Estuary System, representing marine, estuarine, freshwater and diadromous fish, as well as species adapted to northern and southern climates.

Under a 1992 Order-On-Consent with the Department, Con Edison conducted a series of impingement and entrainment studies (IM&E) in 1993 to assess the Station's impact on aquatic resources in the East River and determine best technology available for the cooling water intake system. Impingement and entrainment (IM&E) studies were conducted in 1993. Sixty-eight species of fish, mostly marine in origin, were collected at the Station. Approximately 455,000 fish were estimated to be impinged that year, mainly bay anchovy (50%), Atlantic herring (8.8%), Atlantic tomcod (7.7%) and winter flounder (6.9%). Results of the entrainment studies estimated that 48.9 million eggs, larvae and juvenile fish were entrained annually. The principal species entrained were four beard rockling, bay anchovy, grubby, winter flounder, gobidae and silver hake (Normandeau 1994).

The Department required an additional IM&E study to be conducted in 2005-2006. Consistent with other New York Harbor and East River power plants, results of this study indicated a large increase in IM&E from the 1990s abundances. An estimated 1.5 million fish were impinged, with Atlantic croaker, Atlantic tomcod, scup, bay anchovy and Atlantic menhaden making up 84 percent of the total. It was estimated that 1.34 billion fish eggs and larvae were entrained with 92.6 percent being eggs. Cunner, bay anchovy, Atlantic menhaden, weakfish, and tautog were the principle species entrained.

Under the 1992 Order-On-Consent, the Department also required: 1) An assessment of the thermal tolerance of impinged fish; 2) A study to investigate the potential to re-impinge fish that are washed off the intake screens and sluiced back to the East River and; 3) A review of cooling water intake structure (CWIS) technologies to determine the best technology available to minimize impingement mortality and entrainment. Although adequate thermal tolerance data for most of the species impinged was lacking, it was concluded that, except for winter flounder, the potential for thermal stress was likely low. This was mainly due to the fact that the impinged fish are returned to the East River about 100 feet from the discharge outfall, and that mixing of the discharge with ambient water prior to exposure probably lowers temperatures below thermal tolerance limits.

To determine if returned fish were re-impinged by the CWIS, more than 4,000 marked fish were released into the East River. No marked fish were recaptured, indicating that each of the fish return locations studied would minimize the potential to re-impinge fish. The cooling water intake structure alternative technology review estimated the expected reductions in impingement mortality and entrainment for several viable mitigation alternatives, such as closed cycle cooling, Ristroph modified and wedge wire screens and variable speed pumps.

3. Summary of Permit Modification

Department Initiated Modification (DIM) to the SPDES permit for the Consolidated Edison East River Generating Station includes a Best Technology Available (BTA) determination, pursuant to 6NYCRR Section 704.5, Intake Structures, and Section 316(b) of the federal Clean Water Act (CWA). The modified Permit incorporates a requirement to install traveling intake screens modified with fish protective features (aka Ristroph screens), use of fine mesh intake screen panels and a low stress fish return system.

In accordance with 6NYCRR Section 704.5, Intake Structures, and Section 316(b) of the federal Clean Water Act (CWA), the location, design, construction, and capacity of cooling water intake structures must reflect the best technology available (BTA) for minimizing adverse environmental impact. The Department believes that implementing the technologies described in the opening paragraph above, coupled with the decrease in flow due to the use of cogeneration during winter, will achieve an estimated 90 percent reduction in impingement mortality and a 75 percent reduction in entrainment from baseline conditions. This is a substantially higher reduction than other non closed-cycle cooling alternatives considered in the RTA review (DEC 2009).

Following approval of the schedule for implementing the technologies selected as BTA, as well as approval of the methodology for assessing their efficacy, the permittee is required to submit a *Verification Monitoring Plan* for Department review and approval. This plan will detail the procedures necessary to confirm that the reductions in impingement mortality and entrainment required by this permit are being achieved. The specific requirements of the monitoring plan are set forth in Biological Requirement B.4 of the modified SPDES permit, and include a five year averaging period for cooling water flow with a minimum of two years of biological sampling to verify performance.

4. Rationale for Negative Declaration on Environmental Impact.

As noted in the above section, "Summary of Permit Modification", the technology selected will cause a substantially higher reduction in impingement and entrainment than other non closed-cycle cooling alternatives. Staff also evaluated closed-cycle cooling given the potential for even greater reductions in fish impact and concluded that cooling towers would have significant noise, visual and land use impacts and would have significant energy impacts and prohibitively high costs (ASA 2003). It was further concluded that the use of flow reduction alternatives that include variable speed pumps could approach the lower end of the performance range contained in the EPA Phase II rule (ASA 2004).

Energy Consumption and Emission of Air Pollutants

As it is stated in the ASA study from October 2003 (page ii) referenced below, “the reduced flow and the increased temperature of the circulating water for a hybrid tower system would result in a loss of approximately six percent and three percent of net maximum generating output at design summer temperatures for Units 6 and 7, respectively, due to reduced energy efficiency and increased auxiliary power requirements.” Consequently, SO_x, NO_x, and CO₂ emissions would increase. In addition, the salt deposition in the area surrounding the cooling towers would increase and not only cause dangerous corrosion to electrical equipment and increase the risk of fire, but the local community may be impacted by the salt depositions.

Noise and Visual Impacts

According to the same study, the noise emissions from hybrid cooling towers would not comply with nighttime sound limits under the New York City Administrative Code for nearby residents in the Stuyvesant Town. This is true even if the towers were sound protected. Moreover, the tower fans and the noise of splashing water would have a non-stop sound impact on the community and would only marginally comply with the day-time limit at the Ball Fields and property boundary of Stuyvesant Town.

Moreover, plumes up to 1600 feet high would be visible for nearly 2,750 hours per year. In addition to the plume, and ever present, would be the large cooling towers themselves which would block scenic views of the East River for many in Stuyvesant Town.

Public Benefit

In conjunction with its 2000 application for Article X of the Public Service Law, Con Edison incorporated into its certification for the repowering project to “continue to provide for community use of two recreational fields that it maintains on property between East 15th and East 16th Streets, directly north of the Station.” The only possible location for towers would be between 15th and 178th street – the area of the recreational fields. While the towers could be placed so as not overlap with the ball fields, their size and noise would reduce enjoyment as they would need to be so close.

Furthermore, the towers would eliminate parking and the vehicle staging area northeast of the Station. This area is essential to the function of the Manhattan service center and it is not feasible to relocate it.

5. Benefits of Selected Best Available Technology

After evaluating all of the available alternatives, the New York State Department of Environmental Conservation (NYSDEC) has determined that modified Ristroph

screens with a dedicated low stress fish return system and the seasonal use of fine mesh panels represent the best technology available for minimizing adverse environmental impacts from the cooling water intake structure. The Department believes that these technologies, coupled with the decrease in flow due to the use of cogeneration during winter, can achieve an estimated 90 percent reduction in impingement mortality and a 75 percent reduction in entrainment from baseline conditions. This is a substantially higher reduction than other non closed-cycle cooling alternatives. Con Edison may be required to investigate additional means to reduce entrainment if verification monitoring shows that performance requirements have not been met or the use of the 0.75 mm mesh is not feasible at the East River Generating Station.

Although closed-cycle cooling may be a technically feasible alternative, it was rejected due to a combination key siting issues as well as high cost. Key siting issues and environmental concerns include the loss of recreational open space, proximity to high density residential areas and the FDR Highway. With respect to our cost estimates (not discussed early), please refer to Appendix A of the draft BTA Policy. While the Department did not conduct an independent verification of costs submitted by the applicant, the applicant's cost figures are consistent with CCC cost submitted to the Department for other electric generating facilities.

The use of variable speed pumps or an additional pump will provide small increases in both impingement and entrainment reduction. Requiring one of these technologies is not considered to be necessary at this time but may be re-evaluated as part of a contingency plan to meet performance requirements in the future if the selected BTA does not prove to be sufficient.

Cogeneration, as an operational measure, can effectively improve facility thermal efficiency and reduce environmental impact. The Department has directed past efforts in promoting the use of cogeneration as a means of reducing cooling water use (i.e., capacity) and impingement and entrainment impacts, including requiring an assessment of its feasibility in the 1993 DEIS for the Hudson River Settlement Agreement plants. Therefore, the Department considers the reductions in cooling water use resulting from cogeneration as a viable fish protection alternative.

6. References:

ASA 2003. Evaluation of Cooling Water Intake System Alternatives for Fish Protection at the East River Generating Station Units No. 6 & 7. Phase 1 Report. Prepared for Consolidated Edison Company of New York, Inc. By ASA Analysis & Communication, Inc. October 2003.

ASA 2004. Evaluation of Cooling Water Intake System Alternatives for Fish Protection at the East River Generating Station Units No. 6 & 7. Phase 2 Report. Prepared for

Consolidated Edison Company of New York, Inc. By ASA Analysis & Communication, Inc. December 2004.

Brosnan, T.M. and M. OShea. 1996. Long Term Improvements in Water Quality Due to Sewage Abatement in the Lower Hudson River. *Estuaries* 19(4): 890-900.

DEC (Calaban, Mike). December 2009. Biological Fact Sheet – Cooling Water Intake Structure. DEC Document.

Normandeau Associates. 1994. East River Generating Station, Impingement and Entrainment Report: January Through December 1993. Prepared for Consolidated Edison Company of New York, Inc., by Normandeau Associates, Inc. April 1994.

Normandeau Associates. 2008. Intake Flow and Entrainment Through an Experimental Fine Mesh Intake Screen at East River Generating Station. Prepared for Consolidated Edison Company of New York, Inc., by Normandeau Associates, Inc. R-21359.000. December 2008



Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York NY 10003
www.conEd.com

March 1, 2012

Mr. John Ferguson
Chief Permit Administrator
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3505

**Re: SPDES Permit Renewal Application Submission
East River Generating Station (SPDES# NY 0005126)
Consolidated Edison Company of New York, Inc.
801 East 14th Street
New York, NY 10009**

Dear Mr. Ferguson:

The purpose of this letter is to submit the SPDES Permit renewal application for Consolidated Edison Company of New York, Inc.'s (Con Edison) East River Generating Station in accordance with the NYSDEC permit renewal notice dated October 14, 2011.

We wish to explain some aspects of the application to facilitate processing.

- 1) For Outfall 003 (Hydrostatic Test Water) from the tank farm. No analyticals are provided as we have not performed a hydrostatic test of the tanks. We do not foresee a change in the characteristics of the effluent from the discharge or a need to alter the current sampling requirements for this outfall.
- 2) Our complex consists of two different Con Edison entities. Each will have their own DMR signatory. The larger of the two facilities, the electric/steam generating station, will have DMRs signed off by Mr. Michael Kessler. His name appears on the application. The other facility is our substation, outfall 004 (only), and that DMR will be signed by Mr. Art Hudman per the DMR signature delegation form submitted in 2011.
- 3) We are submitting a modified permit diagram which better reflects our operations. This diagram includes the following changes recommended as part of the vendor assessment of our Plants per the consent order:
 - a. Updated the diagram to clarify the connection between the South Steam Station building drains and the station oil water separator (OWS).
 - b. Flood control pump No. 3 has been added to the diagram.

- 4) The following recommended changes to the text of the permit and the outfall descriptions were made by our vendor during the assessment of our Plants per the consent order:
 - a. For consistency with the outfall permit limits, at Outfall 01C, include the heading that lists “parameter, enforceable limit, monitoring action level, units, sample frequency, sample type and footnote.”
 - b. At Outfall 002, change the receiving water from “East River via Outfall 001” to “East River via Outfall 002.”
 - c. Footnote 1 is not referenced to any specific outfall.
- 5) We are submitting analytical results for the main outfalls (conventionals, SVOCs, metals, etc...). Suboutfall data is a compilation of required SPDES sampling results previously submitted on the required Discharge Monitoring Reports (DMRs).
- 6) You will notice that the last three years of data will include two occasions where our results exceeded allowable limits. These were previously reported to the NYSDEC, Region 2. There was an oil and grease exceedance at Outfall 004. There was also a TSS exceedance at sub-outfall 01B.
- 7) During our sampling for this renewal application the total residual chlorine (TRC) results are higher than the permit limit. However we were not chlorinating at the time and this represents background chlorine levels in the East River.
- 8) We have previously submitted a request to modify this SPDES Permit to NYSDEC Region 2 on November 14, 2011. This modification discussed increasing the TRC limit 0.2 mg/l and making it a differential of 0.2 mg/l from what is present in the influent from the river. This modification also contained a report by our vendor (Normandeau) which supports increasing the mixing zone to eleven (11) acres.
- 9) We would like to have the text concerning our tank drains that NYSDEC Region 2 (Division of Water) is familiar with and is being included in our other permits included in this one as well.
- 10) This SPDES permit was previously modified in 2010 due to the completion of some of the requirements in the schedule of compliance for the fish impingement work being completed per the SPDES Permit issued in 2007.
- 11) On Page 9 of 17 of the current permit, Biological Condition B.5 states ...

By the expiration date of this permit (August 31, 2012), intake screen installation and establishment of a dedicated fish return system shall be completed. The reductions in entrainment and impingement mortality resulting from these technologies and/or operational measures can be no less stringent, and if possible, should be substantially greater than the following performance standards:

Entrainment must be reduced by at least 75% from the calculation baseline; and Impingement mortality must be reduced by at least 90% from the calculation baseline.

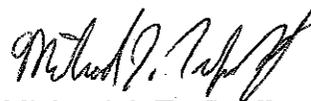
In the present renewal, we propose modifying this to state:

Intake screen installation and the establishment of a dedicated fish return system shall be completed in accordance with the DEC approved Technical Installation and Operation Plan ("TIOP"). The reductions in entrainment and impingement mortality resulting from these technologies and/or operational measures can be no less stringent, and if possible, should be substantially greater than the following performance standards:

Entrainment must be reduced by at least 75% from the calculation baseline; and Impingement mortality must be reduced by at least 90% from the calculation baseline.

If you should have any questions please contact me at (212) 460-2262, or trofinoffm@coned.com. Thank you.

Respectfully,



Michael J. Trofinoff
Senior Scientist
Corporate EHS

**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: NY - 0005126	DEC Number: 2-6202-00012/00004-0
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2. Permit Action Requested: (Check applicable box)

<input type="checkbox"/> A NEW proposed discharge	<input type="checkbox"/> An EBPS INFORMATION REQUEST response	<input checked="" type="checkbox"/> A RENEWAL of an existing SPDES permit
<input type="checkbox"/> A MODIFICATION of the existing permit	<input type="checkbox"/> 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 Consolidated Edison of New York	Attention Maureen Gaffney
Street Address 4 Irving Place, 15th Floor NE	
City or Village New York	State NY ZIP Code 10003

4. Facility Name, Address and Location

Name East River Generating Station			
Street Address 801 E 14th St.		P.O. Box	
City or Village New York	State NY	ZIP Code 10009	
Town	County New York		
Telephone (212) 614-3549	FAX (212) 260-3611	NYTM - E	NYTM - N
Tax Map Info (New York City, Nassau County and Suffolk County only)			
Section 3	Block 988	Subblock	Lot 1

5. Facility Contact Person

Name Mike Kessler	Title Environmental, Health & Safety Manager
Street Address East River Generating Station, 14th Street and East River	
P.O. Box	
City or Village New York	State NY ZIP Code 10009
Telephone (212) 614-3547	FAX (212) 614-3665
E-Mail or Internet KESSLERM@CONED.COM	

6. Discharge Monitoring Report (DMR) Mailing Address

Mailing Name East River Generating Station	
Street Address 14th Street and East River	
P.O. Box	
City or Village New York	State NY ZIP Code 10009
Telephone (212) 614-3547	FAX (212) 614-3665
E-Mail or Internet KESSLERM@CONED.COM	
Name and Title of person responsible for signing DMRs Mike Kessler, Environmental, Health & Safety Manager	Signature 

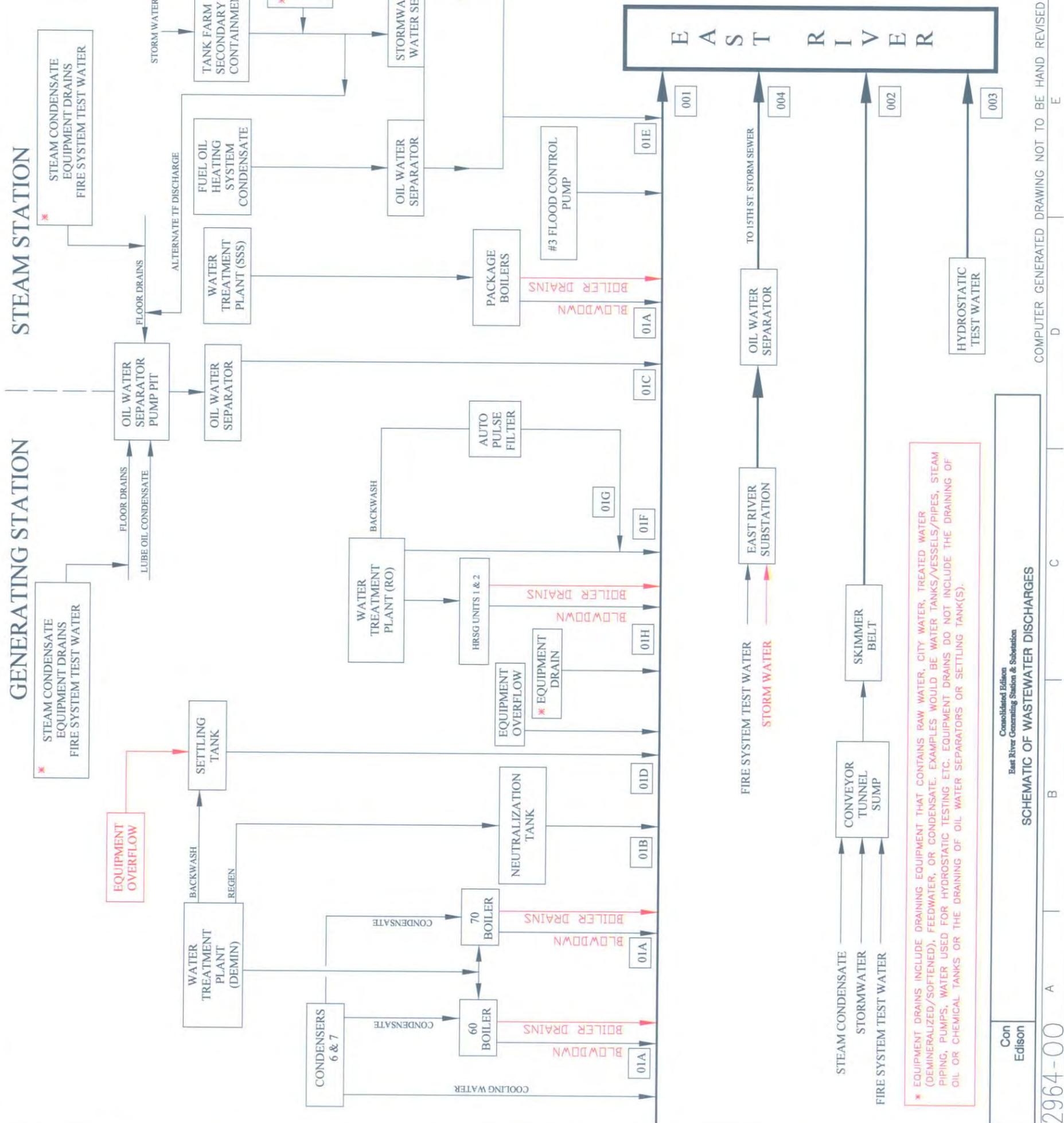
REVISION		USE .1 SIZE TEXT ONLY
00	J. HELFRICH	
ISSUED FOR SPDES PERMIT (NY-0005126) RENEWAL MAR 2012		
P/N 69987-SU B.S.		
MAR/2012		

REV	DES	ENG
00		

DWG. NO.	382964-00
DWG. SIZE	C
DWG. TYPE	COMPANY
STATION	EDISON
EDISON	EAST RIVER
BORO:	MANHATTAN
TITLE:	SCHEMATIC OF WASTEWATER DISCHARGE
APPROVALS	
ENGINEER	G. THORN
DISCIPLINE ENGINEER:	J. HELFRICH
DESIGN MANAGER:	K. CARR
DESIGN SUPERVISOR:	K. ALAZAR
DRAWN BY:	B. STOJANOVIC
DESIGN CHECKER:	B.S./K.A.
SCALE:	N/A
DISCIPLINE CODE:	MC

GENERATING STATION

STEAM STATION



Con Edison
 East River Generating Station & Substation
 SCHEMATIC OF WASTEWATER DISCHARGES

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

East River SPDES Permit Outfall Descriptors

Outfall #	Original Description
001	Combined discharge from suboutfalls 01A-01G (Condensing Cooling Water, low volume waste, reverse osmosis reject water/filter backwash)
01A/01H	Boiler Blowdown
01B	Neutralization Tank Effluent
01D	Carbon Filter Backwash
01F	Reverse Osmosis Reject Water/Filter Backwash
01G	Multimedia Filter Backwash
004	Substation Oil/Water Separator
01C	Floor Drains
01E	Tank Farm Oil/Water Separator
002	Conveyor Tunnel Sump
003	Hydrostatic Test Water

Outfall #	Proposed Description
001	Combined discharge (Condensing Cooling Water, Boiler Drains, #3 flood control pump, equipment drains*, equipment overflows, and designated suboutfalls)
01A/01H	Unchanged
01B	Unchanged
01D	Demineralized Water Treatment Plant Settling Tank Discharge
01F	Reverse Osmosis Water Treatment Plant Discharge
01G	APF Discharge
004	Substation Oil/Water Separator including fire system test water
01C	South Steam Station & Generating Station Oil/Water Separators (steam condensate, equipment drains*, fire system test water, floor trenches/sumps, and alternate tank farm discharge)
01E	Tank Farm Oil/Water Separators (equipment drains*, steam condensate, storm water)
002	Conveyor Tunnel Sump (fire system test water, steam condensate, storm water)
003	Unchanged

* Equipment drains include draining equipment that contains raw water, city water, treated water (demineralized/softened), feedwater, or condensate. Examples would be water tanks/vessels/pipes, steam piping, pumps, water used for Hydrostatic testing, etc. Equipment drains do not include the draining of oil or chemical tanks or the draining of oil water separators or settling tank(s).

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

Facility Name: East River Generating Station	SPDES Number: NY - 0005126
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10. Nature of business: (Describe the activities at the facility and the date(s) that operation(s) at the facility commenced)

The facility produces steam for send out. The steam is produced by either boilers fired by gas and/or oil. The facility also has combustion turbines to produce electricity with the exhaust heat recovered to produce steam for send out. some of the boilers have steam turbines for electric generation. Spent steam from turbines is condensed in non-contact condensers and the water is recycled to the boilers. The condensers use water drawn from the East River as a cooling medium.

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

Priority 1 4 9 3 1	Description: Generating Station	Priority 3 4 9 1	Description: Electric services
Priority 2 4 9 6 1	Description: Steam Statoin	Priority 4 	Description:

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

- YES - Complete the following table.
 NO - Go to Item 13. below.

Industrial Category	40 CFR		Industrial Category	40 CFR	
	Part	Subpart		Part	Subpart
Steam Electric Power Plant	423				

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.
 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: East River Generating Station	SPDES Number: NY - 0005126
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15. Facility Ownership: (Place an "X" in the appropriate box)

Corporate Sole Proprietorship Partnership Municipal State Federal Other

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

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

Issuing Agency	Permit Type	Permit Number	Permit Status		
			Active	Applied for	Inactive
NYCDEP/NYSDEC	Air - Engine	PA049695P - NYCDEP 620000CE04DE001 - NYSDEC	X		
NYSDEC	Air - Boiler	620000CE0400001 - NYSDEC	X		
NYSDEC	Air - Boiler	620000CE0400003 - NYSDEC	X		
NYCDEP/NYSDEC	Air - Boiler	620000CE0400004 - NYSDEC	X		

17. Laboratory Certification:

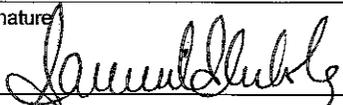
Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

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
Holzmacher, Mclendon and Murrell (H2M)	175 Pinelawn Rd, Melville, NY 11747	(631) 756-8000	Pesticides, Metals, VOCs, Base Neutrals, Acid Extractables, PCBs, TRC, BOD, COD, Cyanide, TKN, Ammonia, Total Organic N, Total N, O&G, TDS, TSS, Phenols.

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) Saumil P. Shukla, Vice President, Steam Operations		Date signed 3/1/12
Signature 	Telephone number (212) 460-4344	FAX number (212) 387-2123

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

Facility Name: East River Generating Station	SPDES Number: NY - 0005126
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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 at 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)?)
DREW BIOSPERSE 261T						nlu	
SODIUM HYPOCHLORITE(15%)	10	7681-52-9	300	0	gal	pes	001
AMMONIUM CARBONATE	10	506-87-6	0	0	lbs	nlu	
CITRIC ACID		77-92-9	500	300	gal	cln	
EDTA	10	64-02-8	1000	0	gal	cln	
HALLIBURTON RODINE 213						nlu	
HYDROCHLORIC ACID	10	7647-01-0	1000	300	gal	cln	
SODIUM BROMATE		7789-38-0	0	0	lbs	nlu	
SODIUM NITRITE	10	7632-00-0	1000	0	lbs	cot	
BETZ CLAM-TROL CT-1			0	0	gal	pes	001
SODIUM SULFITE						nlu	
THIOUREA						nlu	
ALUMINUM SULFATE	10	10043-01-3	90000	10000	lbs	wtc	001
DISODIUM PHOSPHATE	10	7558-79-4	1250	1000	lbs	wtc	001
HYDRAZINE						nlu	
MONOSODIUM PHOSPHATE	10	7558-80-7	500	0	lbs	cot	
SODIUM CARBONATE		497-19-8	200	500	lbs	cln	
SODIUM CHLORIDE		7647-14-5	2000	500	lbs	cln	
SODIUM HYDROXIDE(50%)	10	1310-73-2	1000000	80000	lbs	wtc	001
SULFURIC ACID(93-98%)	10	7664-93-9	800000	60000	lbs	wtc	001
DREW 6134	10	7681-57-4	110000	1200	lbs	wtc	001
Drewspere 2440T	9	10222-01-2	0	500	gal	pes	001
Amersite 61W		NJTS 25450400	0	0	gal	wtc	

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.

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

Facility Name: East River Generating Station (Substation)	SPDES Number: NY - 0005126
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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 at 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)?)
Air-Tec CE			<10	<10	gal	OTH	No
Ethylene Glycol		107-21-1					
Battery Electrolyte				2,364	lbs	COT	No
Sulfuric Acid		7664-93-9					
CF 810 Crack and Joint Foam			<100	<100	lbs	OTH	No
1,1,1,2 Tetrafluoroethane		811-97-2					
Isobutane		75-28-5					
Methyl Ether		115-10-6					
Propane		74-98-6					
Tris (1-cholor-2-Propyl)		13674-84-5					
Phosphate							
5-25 Polymeric Diphenyl-methane Diisocyanate		9016-87-9					
CFR-1 Cleaner			<10	<10	gal	CLN	No
Acetone		67-64-1					
Butane		106-97-8					
Isopropyl Alcohol		67-63-0					
Propane		74-98-6					

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.

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

Facility Name: East River Generating Station (Substation)	SPDES Number: NY - 0005126
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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 at 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)?)
Denatured Alcohol			<10	<10	gal	CLN	No
1-4% Methyl Isobutyl Ketone		108-10-1					
45-50% Ethyl Alcohol		64-17-5					
50-55% Methanol		67-56-1					
DF-100			1000	1000	gal	COT	No
Mineral Oil							
Gasoline-Unleaded		8006-61-9	<10	<10	gal	OTH	No
Industrial Enamel HS			<10	<10	gal	OTH	No
0.8% Ethylbenzene		100-41-4					
1% 1,2,4-trimethylbenzene		95-63-6					
1% 2Propoxyethanol		2807-30-9					
11% Titanium Dioxide		13463-67-7					
16% Calcium Carbonate		471-34-1					
16% Mineral Spirits		64742-88-7					
5% Xylene		1330-20-7					
Kinseal Vacuum Sealant			<10	<10	gal	OTH	No
Propylene Glycol Mono-		108-65-6					
methyl Ether Acetate							
Toluene		108-88-3					

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.

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

Facility Name: East River Generating Station (Substation)	SPDES Number: NY - 0005126
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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 at 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)?)
Kinseal Vacuum Sealant (cont.)							
Bis(2-Ethylhexyl)Phthalate		117-81-7					
Nitrogen - Liquid		7727-37-9	10,000	<10,000	lbs	COT	No
Precision Cleaner NF			10	<10	gal	CLN	No
5% Isopropyl Alcohol		67-63-0					
95% Present Dichloro-fluoroethane		1717-00-6					
Propane		74-98-6	<10	<10	lbs	OTH	No
Sulfur Hexafluoride (SF6)		2551-62-4	10,000	10,000	lbs	COT	No
Transformer Oil				200,000	gal	COT	No
40-60% Distillates, Hydrotreated		64742-53-6					
Light Naphthenic							
40-60% Distillates, Hydrotreated		64742-46-6					
Middle							

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: East River Station	SPDES Number: NY - 0005126
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1. Outfall Number and Location

Outfall No.: 001	Latitude 40 ° 43 ' 40 "	Longitude 73 ° 58 ' 20 "	Receiving Water East River
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2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

	Volume/Flow	Units			Volume/Flow	Units		
		MGD	GPM	Other (specify)		MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water	230	X	
b. Process Wastewater					g. Remediation System Discharge	162		x
c. Process Wastewater					h. Boiler Blowdown	56		x
d. Process Wastewater					i. Storm Water			
e. Contact Cooling Water					j. Sanitary Wastewater			
k. Other discharge (specify): RO Reject						2030		x
l. Other discharge (specify): Contaminated service water & chemical/feed sampling water (floor drains to the OWS)						25		x

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

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

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

a. Total Annual Discharge 87440 MG	b. Daily Minimum Flow - MGD	c. Daily Average Flow 232 MGD	d. Daily Maximum Flow 372 MGD	e. Maximum Design flow rate Peak flow rate 376 MGD
--	---------------------------------------	---	---	--

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

Facility Name: East River Station	Outfall No.: 001
	SPDES Number: NY - 0005126

5. Is this a seasonal discharge?

YES - Complete the following table.
 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	New York City Water Supply	8298	MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Well			MGD	GPD	GPM
Other (specify)			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:
 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

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

Facility Name: <p align="center">East River Station</p>	Outfall No.: <p align="center">001</p>
	SPDES Number: <p align="center">NY - 0005126</p>

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. Information on the intake and discharge configuration of this outfall is attached.
 NO - Go to Item 9. below.

Discharge Temperature, deg. F			Duration of maximum discharge temperature		Dates of maximum discharge temperature		Maximum flow rate MGD	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		
6	18	98	24	91	6/1	8/31	369	Vertical discharge pipe approx. 72 inches in diameter

9. Are any water treatment 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.
 NO - Go to Item 10. below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name
Ashland	Drew 6134	Ashland	Drewguard 315
Ashland	Amersite 61W	Ashland	Drew 6115
Dupont	Sulfuric Acid (93-98%)	General Electric	HPT78513
Surpass Chemical	Sodium Hydroxide (50%)	General Electric	HPT78519
Innophos	Disodium Phosphate	Kuehne Chemical Co	Sodium Hypochlorite
Ashland	Chargepac 1 (Aluminum Sulfate)	Ashland	Chargepac 55
Ashland	Amertrol CE 1500	Ashland	Biosperse 244OT

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.
 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: East River Station	Outfall No.: 001
	SPDES Number: NY - 0005126

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

- 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)
Oil/Water separation for contaminated service water or storm water	1U	Oil/Grease	200 GPM
	4F		
Non-contact heat exchange with incoming city water for HRSG blowdown	6A	Thermal load	300 GPM
	4F		
Settling and/or filtration or other measures to reduce solids in the filter backwash	1U/6A	Suspended solids	2000 GPM
	4F		

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

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.

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: East River Station	SPDES Number: NY - 0005126
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1. Outfall Number and Location

Outfall No.: 002		
Latitude 40 ° 43 ' 40 "	Longitude 73 ° 58 ' 20 "	Receiving Water East River

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

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	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): Steam condensate and stormwater						0.03	X		
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: *Not Applicable*

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

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

a. Total Annual Discharge varies MG	b. Daily Minimum Flow 0.0 MGD	c. Daily Average Flow 0.015 MGD	d. Daily Maximum Flow 0.03 MGD	e. Maximum Design flow rate 0.03 MGD
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INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: East River Station	Outfall No.: 002
SPDES Number: NY - 0005126	

5. Is this a seasonal discharge?

YES - Complete the following table.
 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)		
			MGD	GPD	GPM
Municipal Supply					
Private Surface Water Source					
Private Supply Well					
Other (specify)					

7. Outfall configuration: (Surface water discharges only)

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

In the streambank:
 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

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

Facility Name: <div style="text-align: center; font-weight: bold;">East River Station</div>	Outfall No.: <div style="text-align: center; font-weight: bold;">002</div>
SPDES Number: <div style="text-align: center; font-weight: bold;">NY - 0005126</div>	

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

NO - Go to Item 9. below.

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		

9. Are any water treatment 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.

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.

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: East River Station	Outfall No.: 002
SPDES Number: NY - 0005126	

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

- 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)
Skimmer belt	5C	Oil/Grease	100 GPD

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

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.

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: East River Station	SPDES Number: NY - 0005126
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1. Outfall Number and Location

Outfall No.: 003		
Latitude 40 ° 43 ' 40 "	Longitude 73 ° 58 ' 20 "	Receiving Water East River

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

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	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): Hydrostatic Test Water						varies			
l. Other discharge (specify):									

3. List process information for the Process Wastewater streams identified in 2.a-d above: *Not Applicable*

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

4. Expected or Proposed Discharge Flow Rates for this outfall: *Not Applicable*

a. Total Annual Discharge MG	b. Daily Minimum Flow MGD	c. Daily Average Flow MGD	d. Daily Maximum Flow MGD	e. Maximum Design flow rate MGD
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INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information

Facility Name: East River Station	Outfall No.: 003
SPDES Number: NY - 0005126	

5. Is this a seasonal discharge?

YES - Complete the following table.
 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)			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:
 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

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

Facility Name: East River Station	Outfall No.: 003
SPDES Number: NY - 0005126	

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.
 Information on the intake and discharge configuration of this outfall is attached.
 NO - Go to Item 9. below.

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		

9. Are any water treatment 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.
 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.
 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: East River Station	Outfall No.: 003
	SPDES Number: NY - 0005126

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

- 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)

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

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.

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: East River Station	SPDES Number: NY - 0005126
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1. Outfall Number and Location

Outfall No.: 004		
Latitude 40 ° 43 ' 40 "	Longitude 73 ° 58 ' 20 "	Receiving Water East River

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

	Volume/Flow	Units				Volume/Flow	Units		
		MGD	GPM	Other (specify)			MGD	GPM	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): <i>Stormwater from transformer areas and other substation areas, deluge and fire fighting water.</i>						400		X	
l. Other discharge (specify):								X	

3. List process information for the Process Wastewater streams identified in 2.a-d above: **Not Applicable**

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

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

a. Total Annual Discharge 75 MG	b. Daily Minimum Flow 0.0 MGD	c. Daily Average Flow 0.288 MGD	d. Daily Maximum Flow 0.58 MGD	e. Maximum Design flow rate Peak flow rate 0.58 MGD
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**INDUSTRIAL APPLICATION FORM NY-2C
Section II - Outfall Information**

Facility Name: East River Station	Outfall No.: 004
SPDES Number: NY - 0005126	

5. Is this a seasonal discharge?

YES - Complete the following table.
 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)		
			MGD	GPD	GPM
Municipal Supply	New York City Water Supply		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private Surface Water Source			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private Supply Well			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water? Into NYCDEP Storm Sewer that then flows into East River

In the streambank:
 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

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

Facility Name: East River Station	Outfall No.: 004
	SPDES Number: NY - 0005126

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

NO - Go to Item 9. below.

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		

9. Are any water treatment 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.

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.

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: East River Station	Outfall No.: 004
SPDES Number: NY - 0005126	

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

- 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)
Oil/Water separation for contaminated service water or storm water	1U	Oil/Grease	400 GPM
	4F		

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

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: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001
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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.

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. Long term average value	b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass				
a. Biochemical Oxygen Demand, 5 day (BOD) (COD)	<2.0				1	ppm		
b. Chemical Oxygen Demand (COD)	145				1	ppm		
c. Total Suspended Solids (TSS)	28				1	ppm		
d. Total Dissolved Solids (TDS)	21700				1	ppm		
e. Oil & Grease	<5.0				1	ppm		
f. Chlorine, Total Residual (TRC)								0.64
g. Total Organic Nitrogen (TON)	0.91				1	ppm		
h. Ammonia (as N)	0.32				1	ppm		
i. Flow	Value 373	Value 373					MGD	Value
j. Temperature, winter	Value 62	Value 51			18			Value
k. Temperature, summer	Value 83	Value 76			18			Value
l. pH	Minimum 6.47	Maximum 8.14	Minimum 6.00	Maximum 9.00	989			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.	No - Go to item b. below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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.	No - Go to item ii. below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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
<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 002
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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	e. Concentration	b. Mass		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)	<2.0						1	ppm			
b. Chemical Oxygen Demand (COD)	20.4						1	ppm			
c. Total Suspended Solids (TSS)	18.5	<30					72	ppm			
d. Total Dissolved Solids (TDS)	1860						1	ppm			
e. Oil & Grease	<15						12	ppm			
f. Chlorine, Total Residual (TRC)	<0.1						1	ppm			
g. Total Organic Nitrogen (TON)	2.59						1	ppm			
h. Ammonia (as N)	0.18						1	ppm			
i. Flow	Value			Value			Est	GPD	Value		
j. Temperature, winter	Value			Value					Value		
k. Temperature, summer	Value			Value					Value		
l. pH	Minimum 6.0	Maximum 9.0	Minimum 6.0	Maximum 9.0					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.	No - Go to Item b. below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:	Acid:	Base/Neutral:	Pesticide:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.	No - Go to Item II. below.
<input type="checkbox"/>	<input checked="" type="checkbox"/>

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	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126
Outfall No.: 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. **No change in system, projected and existing will be the same. See item # 4.**

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		e. Long term average value			d. Number of analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
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: East River Station	SPDES No.: NY - 0005126	Outfall No.: 004
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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.

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	1. Concentration		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass					1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	<2					1	mg/l				
b. Chemical Oxygen Demand (COD)	13.7					1	mg/l				
c. Total Suspended Solids (TSS)	25.6	<30				74	mg/l				
d. Total Dissolved Solids (TDS)	60					1	mg/l				
e. Oil & Grease	33.2	19	<15			15	mg/l				
f. Chlorine, Total Residual (TRC)	<0.1					1	mg/l				
g. Total Organic Nitrogen (TON)	1.27					1	mg/l				
h. Ammonia (as N)	0.15					1	mg/l				
i. Flow	Value 0.58	Value 0.58	Value 0.58	Value 0.58		Est.	MGD			Value	
j. Temperature, winter	Value ambient	Value ambient	Value ambient	Value ambient		Est.				Value	
k. Temperature, summer	Value ambient	Value ambient	Value ambient	Value ambient		Est.				Value	
l. pH	Minimum 6.0	Maximum 9.0	Minimum 6.0	Maximum 9.0		Est.				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.	<input type="checkbox"/>
No - Go to Item b. below.	<input checked="" type="checkbox"/>

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:	<input type="checkbox"/>
Acid:	<input type="checkbox"/>
Base/Neutral:	<input type="checkbox"/>
Pesticide:	<input type="checkbox"/>

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.	<input type="checkbox"/>
No - Go to Item II. below.	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Yes - Quantitative or qualitative data attached	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

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

Facility Name: East River Station	SPDES No.: NY - 0005126
	Outfall No.: 004

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances See attachment 1 for analysis for discharge from outfall 001. 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. No change in system, projected and existing will be the same. See item # 4.

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		e. Mass			d. Number of analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass		
CAS Number:												1
CAS Number:												1
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
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: East River Station (substation)	SPDES No.: NY - 0005126
Outfall No.: 004	

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.

Date	Parameter name: TSS		Parameter name: Oil and Grease		Parameter name: Concentration		Parameter name: Concentration		Parameter name: Concentration	
	Units:	CAS Number:	Units:	CAS Number:	Units:	CAS Number:	Units:	CAS Number:	Units:	CAS Number:
Page 1 Of 4	Flow rate		Concentration		Concentration		Concentration		Concentration	
	Units: mg/l		Units: mg/l		Units:		Units:		Units:	
1/9/09	1.2									
1/23/09	10.0									
2/5/09	16									
2/19/09	11.8									
3/5/09	<5		<5.0							
3/17/09	5.8									
3/31/09	2.4									
4/13/09	3.5									
4/28/09	22.0									
5/12/09	8.8									
5/26/09	5.2		<5.0							
6/9/09	8.4									
6/23/09			33.2							
6/30/09	1.6		<5.0							
8/27/09	<4.58		2.5							
8/31/09	8.0									
9/10/09	7.6									
9/29/09	5.0									
10/14/09	3.4									
10/28/09	5.6									
11/13/09	4.8									
11/24/09	<5.0		<5.0							
12/10/09	5.4									
12/28/09	4.2									

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

Facility Name: East River Station (substation)	SPDES No.: NY - 0005126	Outfall No.: 004
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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.

Date	Flow rate Units:	Parameter name: TSS		Parameter name: Oil and Grease		Parameter name:		Parameter name:		Parameter name:	
		Concentration Units: mg/l	CAS Number:	Concentration Units: mg/l	CAS Number:	Concentration Units:	CAS Number:	Concentration Units:	CAS Number:	Concentration Units:	CAS Number:
1/21/10		2.6									
1/28/10		1.6									
2/16/10		1.3									
2/23/10		<1.0		<5.0							
3/13/10		3.3									
3/26/10		4.6									
4/9/10		2.6									
4/29/10		3.5		<5.0							
5/12/10		9.3									
5/28/10		1.0									
6/18/10		1.9									
6/25/10		4.6									
7/14/10		2.9									
7/28/10		7.4		<5.0							
8/25/10		7.7									
8/31/10		2.9									
9/17/10		2.0									
9/27/10		12.1									
10/18/10		2.9									
10/27/10		4.7		<5.0							
11/8/10		6.3									
11/23/10		2.0									
12/6/10		4.6									
12/29/10		2.3									

Page 2 of 4

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.

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

Facility Name: East River Station (substation)	SPDES No.: NY - 0005126	Outfall No.: 004
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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.

Date	Flow rate Units:	Parameter name: TSS		Parameter name: Oil and Grease		Parameter name:		Parameter name:		Parameter name:		Parameter name:	
		Concentration Units: mg/l	CAS Number:	Concentration Units: mg/l	CAS Number:	Concentration Units:	CAS Number:						
1/21/11	4	4.4											
1/26/11		14.8											
2/7/11		11.4											
2/25/11		1.5		<1.5									
3/16/11		1.7											
3/21/11		2.5											
4/13/11		10.0											
4/25/11		4.6											
5/19/11		5.3											
5/27/11		13.2		<5.0									
6/13/11		12.2											
6/24/11		5.3											
7/22/11		11.4											
7/28/11		25.6											
8/11/11		1.6		<5.0									
8/29/11		2.6											
9/15/11		1.5											
9/30/11		4.3											
10/21/11		3.6											
10/27/11		<1.0											
11/17/11		6.0		<5.0									
11/23/11		3.9											
12/7/11		1.1											
12/29/11		<1.0											

Suboutfalls
01A-01H

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001A
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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, 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				Intake data (optional)						
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses		e. Long term average value		
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	23.4		<30		1.95		74		Mg/L		
d. Total Dissolved Solids (TDS)							Est.		Mg/L		
e. Oil & Grease	<15		<15				14		Mg/L		
f. Chlorine, Total Residual (TRC)											
g. Total Organic Nitrogen (TON)											
h. Ammonia (as N)											
i. Flow	Value	Value	Value	Value	Value	Value	Est.	Value	GPD	Value	Value
j. Temperature, winter	Value	Value	Value	Value	Value	Value	Est.	Value		Value	Value
k. Temperature, summer	Value	Value	Value	Value	Value	Value	Est.	Value		Value	Value
l. pH	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Est.	Minimum		Maximum	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.	<input type="checkbox"/>
No - Go to item b, below.	<input checked="" type="checkbox"/>

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:	<input type="checkbox"/>	Acid:	<input type="checkbox"/>	Base/Neutral:	<input type="checkbox"/>	Pesticide:	<input type="checkbox"/>
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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.	<input type="checkbox"/>
No - Go to item ii, below.	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Yes - Quantitative or qualitative data attached	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001B
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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	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses	e. Concentration	f. Mass	g. Intake data (optional)	
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass				1. Concentration	2. Mass
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	103		<30		5.38		68	Mg/L			
d. Total Dissolved Solids (TDS)											
e. Oil & Grease	<15		<15				14	Mg/L			
f. Chlorine, Total Residual (TRC)											
g. Total Organic Nitrogen (TON)											
h. Ammonia (as N)											
i. Flow	Value		Value		Value		Est.	GPD		Value	
j. Temperature, winter	Value		Value		Value		Est.			Value	
k. Temperature, summer	Value		Value		Value		Est.			Value	
l. pH	Minimum 6.0	Maximum 9.0	Minimum 6.0	Maximum 9.0			Est.			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.	<input type="checkbox"/>
No - Go to item b, below.	<input checked="" type="checkbox"/>

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.	<input type="checkbox"/>
No - Go to item ii, below.	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Yes - Quantitative or qualitative data attached	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126
Outfall No.: 001C	

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				Intake data (optional)					
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses		e. Units	
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass		
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	<100		<30				161	Mg/L		
d. Total Dissolved Solids (TDS)										
e. Oil & Grease	10		<15				160	Mg/L		
f. Chlorine, Total Residual (TRC)										
g. Total Organic Nitrogen (TON)										
h. Ammonia (as N)										
i. Flow	Value	200 (OWS design)	Value	200	Value	25	Est.		Value	
j. Temperature, winter	Value	40 degrees F	Value	40 degrees F	Value	40 degrees F	Est.		Value	
k. Temperature, summer	Value	98degrees F	Value	98degrees F	Value	98degrees F	Est.		Value	
l. pH	Minimum	6.0	Maximum	9.0	Minimum	6.0	Maximum	9.0	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.	<input type="checkbox"/>
No - Go to item b. below.	<input checked="" type="checkbox"/>

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.	<input type="checkbox"/>
No - Go to item ii. below.	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Yes - Quantitative or qualitative data attached	<input checked="" type="checkbox"/>
No	<input type="checkbox"/>

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001D
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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	e. 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)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	52	<30			12		70.	Mg/L				
d. Total Dissolved Solids (TDS)							14	Mg/L				
e. Oil & Grease	<15				<15							
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value	Value	Value	Value	Value	115,000	Est.					Value
j. Temperature, winter	Value	Value	Value	Value	Value	40 degrees F	Est.					Value
k. Temperature, summer	Value	Value	Value	Value	Value	98 degrees F	Est.					Value
l. pH	Minimum	Maximum	Minimum	Maximum	Minimum	6.0	9.0					Minimum
	6.0	9.0	6.0	9.0								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.	<input type="checkbox"/>
No - Go to item b. below.	<input checked="" type="checkbox"/>

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.	<input type="checkbox"/>
No - Go to item II. below.	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
Yes - Quantitative or qualitative data attached	<input type="checkbox"/>
No	<input checked="" type="checkbox"/>

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

Facility Name: East River Generating Station	Outfall No.: 001D
SPDES No.: NY - 0005126	

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.

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		e. Concentration	f. Mass		g. Long term average value	h. Number of analyses	
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass						
CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														
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CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														
CAS Number:														

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001E
---	--------------------------------	--------------------------

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				Intake data (optional)									
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses		e. Concentration		f. Mass		g. Number of analyses	
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)														
d. Total Dissolved Solids (TDS)														
e. Oil & Grease	7.8		<15											
f. Chlorine, Total Residual (TRC)														
g. Total Organic Nitrogen (TON)														
h. Ammonia (as N)														
i. Flow	Value	4000	Value	4000	Value	4000	Value	4000	Est.			Value		
j. Temperature, winter	Value	40 degrees F	Value	40 degrees F	Value	40 degrees F	Value	40 degrees F	Est.			Value		
k. Temperature, summer	Value	98 degrees F	Value	98 degrees F	Value	98 degrees F	Value	98 degrees F	Est.			Value		
l. pH	Minimum	6.0	Maximum	9.0	Minimum	6.0	Maximum	9.0	Est.			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. No - Go to item b. below.

ii. Indicate which GC/MS fractions have been tested for:

Volatiles: Acids: 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?

No - Go to item ii. below. Yes - Source or reason for presence in discharge attached

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?

No Yes - Quantitative or qualitative data attached

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126
Outfall No.: 001F	

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	1. Concentration		b. Number of analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass						
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	2	<30		1.2		70	Mg/L					
d. Total Dissolved Solids (TDS)												
e. Oil & Grease	<15			<15		12	Mg/L					
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)												
h. Ammonia (as N)												
i. Flow	Value	Value	Value	Value	Value	Est.		MGD				
j. Temperature, winter	Value	Value	Value	Value	Value	Est.						
k. Temperature, summer	Value	Value	Value	Value	Value	Est.						
l. pH	Minimum	Maximum	Minimum	Maximum	Minimum	Est.						Maximum
	6.0	9.0	6.0	9.0								

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

a. Primary Industries: i. Does the discharge from this outfall contain process wastewater?

<input checked="" type="checkbox"/> Yes - Go to item ii. below.	<input type="checkbox"/> 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?

<input checked="" type="checkbox"/> Yes - Concentration and mass data attached.	<input type="checkbox"/> 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?

<input type="checkbox"/> Yes - Source or reason for presence in discharge attached	<input checked="" type="checkbox"/> No
--	--

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126
Outfall No.: 001G	

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				Intake data (optional)				
	a. Maximum daily value		b. Maximum 30 day value		c. Long term average		d. Number of analyses		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)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	17.8	<30	<30	2.0	Mg/L				
d. Total Dissolved Solids (TDS)									
e. Oil & Grease	<15	<15	<15		Mg/L				
f. Chlorine, Total Residual (TRC)									
g. Total Organic Nitrogen (TON)									
h. Ammonia (as N)									
i. Flow	Value	Value	Value	180000					GPD
j. Temperature, winter	Value	Value	Value	40 degrees F					
k. Temperature, summer	Value	Value	Value	98 degrees F					
l. pH	Minimum	6.0	9.0	Minimum	6.0	9.0	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. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acid: <input type="checkbox"/> Base/Neutral: <input type="checkbox"/> Pesticide: <input type="checkbox"/>
--	---

ii. Indicate which GC/MS fractions have been tested for: Volatiles: Vapors: Semivolatiles:

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. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	No
--	----

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

Facility Name: East River Generating Station	SPDES No.: NY - 0005126	Outfall No.: 001F
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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.

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		e. 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:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
CAS Number:												
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: East River Generating Station	SPDES No.: NY - 0005126
Outfall No.: 001H	

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 UNSHADOWED 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		1. Concentration		2. Mass	
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass
a. Biochemical Oxygen Demand, 5 day (BOD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b. Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c. Total Suspended Solids (TSS)	2.4		<30				70		Mg/L							
d. Total Dissolved Solids (TDS)																
e. Oil & Grease	<15		<15				12		Mg/L							
f. Chlorine, Total Residual (TRC)																
g. Total Organic Nitrogen (TON)																
h. Ammonia (as N)																
i. Flow	Value		Value		Value	120,000	Est.							Value		
j. Temperature, winter	Value	40 degrees F	Value	40 degrees F	Value	40 degrees F	Est.							Value		
k. Temperature, summer	Value	98 degrees F	Value	98 degrees F	Value	98 degrees F	Est.							Value		
l. pH	Minimum	6.0	Maximum	9.0	Minimum	6.0	Maximum	9.0						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.	No - Go to item b. below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>

ii. Indicate which GC/MS fractions have been tested for:

Volatiles:	Acid:	Base/Neutral:	Pesticide:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.	No - Go to item ii. below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Outfall 001 Data

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Armin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

(Total) Metals

Test Description	Result	Units	Method	Limits
Boron As B	2.74	mg/L	E200.7	
Sodium As Na	6890	mg/L	E200.7	
Aluminum As Al	0.75	mg/L	E200.7	
Magnesium As Mg	810	mg/L	E200.7	
Titanium As Ti	<0.20	mg/L	E200.7	
Cobalt As Co	<0.05	mg/L	E200.7	
Molybdenum As Mo	<0.05	mg/L	E200.7	
Antimony As Sb	<60.0	ug/L	E200.7	
Arsenic as As	<10.0	ug/L	E200.7	
Barium as Ba	<0.20	mg/L	E200.7	
Beryllium as Be	<2.70	ug/L	E200.7	
Cadmium as Cd	<2.70	ug/L	E200.7	
Chromium as Cr	<0.01	mg/L	E200.7	
Copper as Cu	<0.02	mg/L	E200.7	
Iron as Fe	0.84	mg/L	E200.7	
Lead as Pb	8.26	ug/L	E200.7	
Manganese as Mn	0.03	mg/L	E200.7	
Mercury as Hg	<0.2	ug/L	E245.1	
Nickel as Ni	<0.04	mg/L	E200.7	
Selenium as Se	<5.00	ug/L	E200.7	
Silver as Ag	<0.01	mg/L	E200.7	
Tin as Sn	<0.25	mg/L	E200.7	
Thallium As Tl	<10.0	ug/L	E200.7	
Vanadium as V	<0.05	mg/L	E200.7	
Zinc as Zn	0.04	mg/L	E200.7	

PCB Analysis

Test Description	Result	Units	Method	Limits
Aroclor 1016	<0.065	ug/L	E608	
Aroclor 1221	<0.065	ug/L	E608	
Aroclor 1232	<0.065	ug/L	E608	
Aroclor 1242	<0.065	ug/L	E608	
Aroclor 1248	<0.065	ug/L	E608	
Aroclor 1254	<0.065	ug/L	E608	
Aroclor 1260	<0.065	ug/L	E608	
PCB Total	<0.065	ug/L	E608	

Results of Analysis

Test Description	Result	Units	Method	Limits
Nitrate As N	0.43	mg/L	E353.2	
Ethylene Glycol	<10	mg/L	WCCLR	
Nitrite As N	<0.10	mg/L	E353.2	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
Methylene Blue Active Sub	0.08	mg/L	SM5540C	
Nitrogen, Kjeldahl, Total	0.48	mg/L	E351.2	
Chemical Oxygen Demand (c	145	mg/L	E410.4	
Chromium +6 As Cr	<0.02	mg/L	M3500-Cr D	
Ammonia As N	0.32	mg/L	SM4500-NH3 H	
Bromide As Br	46.9	mg/L	E300.0	
Total Dissolved Solids	21700	mg/L	SM2540C	
Nitrogen, Total	0.91	mg/L	M4500-N C	
Settleable Solids	<0.1	mL/L	SM2540F	
Sulfide As S	<2.00	mg/L	SM4500-S E	
Sulfate As So4	1700	mg/L	E300.0	
Chloride As Cl	12200	mg/L	SM4500-CL- E	
Fluoride As F	<0.50	mg/L	E300.0	
Biochemical Oxygen Demand	<2	mg/L	SM5210B	
Color	10	Units	SM2120B	
Total Suspended Solids	28	mg/L	SM2540D	
Sulfite	<0.640	mg/l	M4500-SO3	
Asbestos in Water	<0.20	MF/L	E100.2	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
Dibenzo(a,h)anthracene	<10	ug/L	E625	
4-chloro-3-methylphenol	<10	ug/L	E625	
Phenol	<10	ug/L	E625	
bis(2-Chloroethyl)ether	<10	ug/L	E625	
2-Chlorophenol	<10	ug/L	E625	
N-Nitroso-di-n-propylamine	<10	ug/L	E625	
Hexachloroethane	<10	ug/L	E625	
Nitrobenzene	<10	ug/L	E625	
Isophorone	<10	ug/L	E625	
2-Nitrophenol	<25	ug/L	E625	
2,4-Dimethylphenol	<10	ug/L	E625	
bis(2-Chloroethoxy)methane	<10	ug/L	E625	
2,4-Dichlorophenol	<10	ug/L	E625	
1,2,4-Trichlorobenzene	<10	ug/L	E625	
Naphthalene	<10	ug/L	E625	
Hexachlorobutadiene	<10	ug/L	E625	
Hexachlorocyclopentadiene	<10	ug/L	E625	
2,4,6-Trichlorophenol	<10	ug/L	E625	
2-Chloronaphthalene	<10	ug/L	E625	
Dimethyl Phthalate	<10	ug/L	E625	
Acenaphthylene	<10	ug/L	E625	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
2,6-Dinitrotoluene	<10	ug/L	E625	
Acenaphthene	<10	ug/L	E625	
2,4-Dinitrophenol	<25	ug/L	E625	
4-Nitrophenol	<25	ug/L	E625	
Diethyl Phthalate	<10	ug/L	E625	
4-Chlorophenyl Phenyl Ether	<10	ug/L	E625	
Fluorene	<10	ug/L	E625	
4,6-Dinitro-o-cresol	<25	ug/L	E625	
N-Nitrosodiphenylamine	<10	ug/L	E625	
4-Bromophenyl Phenyl Ether	<10	ug/L	E625	
Hexachlorobenzene	<10	ug/L	E625	
Pentachlorophenol	<25	ug/L	E625	
Phenanthrene	<10	ug/L	E625	
Anthracene	<10	ug/L	E625	
Di-n-butyl Phthalate	<10	ug/L	E625	
Fluoranthene	<10	ug/L	E625	
Pyrene	<10	ug/L	E625	
Butyl Benzyl Phthalate	<10	ug/L	E625	
3,3'-Dichlorobenzidine	<10	ug/L	E625	
Benzo(a)anthracene	<10	ug/L	E625	
Chrysene	<10	ug/L	E625	
bis(2-Ethylhexyl) Phthalate	<10	ug/L	E625	
Di-n-octyl Phthalate	<10	ug/L	E625	
Benzo(b)fluoranthene	<10	ug/L	E625	
Benzo(k)fluoranthene	<10	ug/L	E625	
Benzo(a)pyrene	<10	ug/L	E625	
Indeno(1,2,3-cd)pyrene	<10	ug/L	E625	
Benzo(g,h,i)perylene	<10	ug/L	E625	
N-Nitrosodimethylamine	<10	ug/L	E625	
Benzidine	<80	ug/L	E625	
1,2-Diphenylhydrazine	<10	ug/L	E625	
2,2-oxybis(1-chloropropane)	<10	ug/L	E625	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	12.7	ng/L	E1631E	

ADHOC analysis

Test Description	Result	Units	Method	Limits
Hexachloropropene	<10	ug/L	SW8270C	
Hexachlorophene	<100	ug/L	SW8270C	
4-chloroaniline	<10	ug/L	SW8270C	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

ADHOC analysis

Test Description	Result	Units	Method	Limits
Diphenylamine	<10	ug/L	SW8270C	
Aramite	<10	ug/L	SW8270C	
4-aminobiphenyl	<20	ug/L	SW8270C	
1,3-dinitrobenzene	<10	ug/L	SW8270C	
Aniline	<10	ug/L	SW8270C	
A,a-dimethylphenethylamin	<10	ug/L	SW8270C	
3-nitroaniline	<25	ug/L	SW8270C	
Pyridine	<10	ug/L	SW8270C	
5-nitro-o-toluidine	<10	ug/L	SW8270C	
Pentachlorobenzene	<10	ug/L	SW8270C	
Phorate	<10	ug/L	SW8270C	
O-toluidine	<10	ug/L	SW8270C	
4-nitroaniline	<25	ug/L	SW8270C	
1,3,5-trinitrobenzene	<10	ug/L	SW8270C	
2-nitroaniline	<25	ug/L	SW8270C	
1,2,4,5-tetrachlorobenzen	<10	ug/L	SW8270C	

Results of Analysis

Test Description	Result	Units	Method	Limits
Ammonium Ion as NH4	nd	mg/l	Unionized NH3	

Results of Analysis

Test Description	Result	Units	Method	Limits
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asbestos : analysis performed by EMSL Laboratories....

amonium as (NH4): analysis performed by summit laboratories...

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
sulfite (as SO3): analysis performed by ECO TEST Laboratories...				

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Jose Burgos
 Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: 3,3-dimethyl benzidine,p-phenylenediamine: <20 ug/l by SW8270 c.

Lab Sequence Number:	12-00694-002	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001- duplicate		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	12.6	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Jose Burgos
 Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-003	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - equipment blank		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-004	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - field blank		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-005	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - trip blank		
Location:	East River Station.		
Sampled:	1/18/2012 12:00 PM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Jose Burgos
 Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-006	Date Authorized:	2/17/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	East River Station.		
Sampled:	1/19/2012 06:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
Gross Alpha	2.40	pCi per L	E900.0	
Gross Beta	169	pCi per L	E900.0	
Radium-226	0.000	pCi per L	E903.1	
Radium-228	0.114	pCi per L	E904.0	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by Pace Analytical Labs...

Lab Sequence Number:	12-00693-001	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	OUTFALL 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Methacrylonitrile	<10	ug/L	SW 8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methyl Methacrylate	<10	ug/L	SW 8260B	
Chloroprene	<10	ug/L	SW 8260B	
Xylenes, Total	<10	ug/L	SW 8260B	
2-butanone	<10	ug/L	SW 8260B	
Allyl Chloride	<10	ug/L	SW 8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW 8260B	
Acrylonitrile	<5.0	ug/L	E624	
Acrolein	<5.0	ug/L	E624	
Iodomethane	<10	ug/L	SW 8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW 8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW 8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	1.3	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW 8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW 8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW 8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW 8260B	

Lab Sequence Number:	12-00693-001	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	OUTFALL 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.64	mg/L	M4500-CI G	
pH (Field)	7.77	ph Units	SM4500-H B	
Temperature	10.1	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.21	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-001	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	OUTFALL 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 AM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-002	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 12:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Acrolein	<5.0	ug/L	E624	
Allyl Chloride	<10	ug/L	SW8260B	
Methyl Methacrylate	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Xylenes, Total	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
2-butanone	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-002	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 12:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.64	mg/L	M4500-CI G	
pH (Field)	7.92	ph Units	SM4500-H B	
Temperature	9.2	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.20	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-002	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 12:30 PM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-003	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 03:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Acrolein	<5.0	ug/L	E624	
Allyl Chloride	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Xylenes, Total	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
2-butanone	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Methyl Methacrylate	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-003	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 03:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.55 ~	mg/L	M4500-CI G	
pH (Field)	8.00 ~	ph Units	SM4500-H B	
Temperature	6.1 ~	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phends	<5.0	ug/L	E420.1	
Phosphorus As P	0.19 ~	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-003	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 03:30 PM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-004	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	-GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 06:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Xylenes, Total	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methyl Methacrylate	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
2-butanone	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Acrolein	<5.0	ug/L	E624	
Acrylonitrile	<5.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Allyl Chloride	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	2.3	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-004	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 06:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.51	mg/L	M4500-CI G	
pH (Field)	8.21	ph Units	SM4500-H B	
Temperature	5.6	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.20	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-004	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 06:30 PM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-005	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Xylenes, Total	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Allyl Chloride	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Acrolein	<5.0	ug/L	E624	
2-butanone	<10	ug/L	SW8260B	
Methyl Methacrylate	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-005	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 PM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.48	mg/L	M4500-CI G	
pH (Field)	8.01		SM4500-H B	
Temperature	5.2	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.19	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-005	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/18/2012 09:30 PM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-006	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 12:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Xylenes, Total	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Methyl Methacrylate	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Acrolein	<5.0	ug/L	E624	
Allyl Chloride	<10	ug/L	SW8260B	
2-butanone	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-006	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 12:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.53	mg/L	M4500-CI G	
pH (Field)	8.11	ph Units	SM4500-H B	
Temperature	3.9	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.20	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-006	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 12:30 AM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-007	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 03:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Xylenes, Total	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methacrylonitrile	<10	ug/L	SW8260B	
Iodomethane	<10	ug/i	SW8260B	
Methyl Methacrylate	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Allyl Chloride	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Acrolein	<5.0	ug/L	E624	
2-butanone	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-007	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 03:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	0.51 -	mg/L	M4500-Cl G	
pH (Field)	8.31 -	ph Units	SM4500-H B	
Temperature	3.8 -	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.15 ~	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-007	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 03:30 AM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00693-008	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	.Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 06:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Xylenes, Total	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methyl Methacrylate	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Methacrylonitrile	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Acrolein	<5.0	ug/L	E624	
Allyl Chloride	<10	ug/L	SW8260B	
2-butanone	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<1.0	ug/L	E624	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	12-00693-008	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 06:30 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

Results of Analysis

Test Description	Result	Units	Method	Limits
Coliform, Total	170 ~	MPN	SM9221BE	
Coliform, Fecal	130 ~	MPN	SM9221BE	
Total Residual Chlorine	0.40 ~	mg/L	M4500-CI G	
pH (Field)	8.34 ~	ph Units	SM4500-H B	
Temperature	1.3 ~	deg C	EPA 150.1	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.14 ~	mg/L	SM4500-P E	
Cyanide, Total	<10	ug/L	SM4500-CN E	

Lab Sequence Number:	12-00693-008	Date Authorized:	1/27/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 06:30 AM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

(Total) Metals

Test Description	Result	Units	Method	Limits
Boron As B	2.74	mg/L	E200.7	
Sodium As Na	6890	mg/L	E200.7	
Aluminum As Al	0.75	mg/L	E200.7	
Magnesium As Mg	810	mg/L	E200.7	
Titanium As Ti	<0.20	mg/L	E200.7	
Cobalt As Co	<0.05	mg/L	E200.7	
Molybdenum As Mo	<0.05	mg/L	E200.7	
Antimony As Sb	<60.0	ug/L	E200.7	
Arsenic as As	<10.0	ug/L	E200.7	
Barium as Ba	<0.20	mg/L	E200.7	
Beryllium as Be	<2.70	ug/L	E200.7	
Cadmium as Cd	<2.70	ug/L	E200.7	
Chromium as Cr	<0.01	mg/L	E200.7	
Copper as Cu	<0.02	mg/L	E200.7	
Iron as Fe	0.84	mg/L	E200.7	
Lead as Pb	8.26	ug/L	E200.7	
Manganese as Mn	0.03	mg/L	E200.7	
Mercury as Hg	<0.2	ug/L	E245.1	
Nickel as Ni	<0.04	mg/L	E200.7	
Selenium as Se	<5.00	ug/L	E200.7	
Silver as Ag	<0.01	mg/L	E200.7	
Tin as Sn	<0.25	mg/L	E200.7	
Thallium As Tl	<10.0	ug/L	E200.7	
Vanadium as V	<0.05	mg/L	E200.7	
Zinc as Zn	0.04	mg/L	E200.7	

PCB Analysis

Test Description	Result	Units	Method	Limits
Aroclor 1016	<0.065	ug/L	E608	
Aroclor 1221	<0.065	ug/L	E608	
Aroclor 1232	<0.065	ug/L	E608	
Aroclor 1242	<0.065	ug/L	E608	
Aroclor 1248	<0.065	ug/L	E608	
Aroclor 1254	<0.065	ug/L	E608	
Aroclor 1260	<0.065	ug/L	E608	
PCB Total	<0.065	ug/L	E608	

Results of Analysis

Test Description	Result	Units	Method	Limits
Nitrate As N	0.43	mg/L	E353.2	
Ethylene Glycol	<10	mg/L	WCCLR	
Nitrite As N	<0.10	mg/L	E353.2	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
Methylene Blue Active Sub	0.08	mg/L	SM5540C	
Nitrogen, Kjeldahl, Total	0.48	mg/L	E351.2	
Chemical Oxygen Demand (c	145	mg/L	E410.4	
Chromium +6 As Cr	<0.02	mg/L	M3500-Cr D	
Ammonia As N	0.32	mg/L	SM4500-NH3 H	
Bromide As Br	46.9	mg/L	E300.0	
Total Dissolved Solids	21700	mg/L	SM2540C	
Nitrogen, Total	0.91	mg/L	M4500-N C	
Settleable Solids	<0.1	mL/L	SM2540F	
Sulfide As S	<2.00	mg/L	SM4500-S E	
Sulfate As So4	1700	mg/L	E300.0	
Chloride As Cl	12200	mg/L	SM4500-CL- E	
Fluoride As F	<0.50	mg/L	E300.0	
Biochemical Oxygen Demand	<2	mg/L	SM5210B	
Color	10	Units	SM2120B	
Total Suspended Solids	28	mg/L	SM2540D	
Sulfite	<0.640	mg/l	M4500-SO3	
Asbestos in Water	<0.20	MF/L	E100.2	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
Dibenzo(a,h)anthracene	<10	ug/L	E625	
4-chloro-3-methylphenol	<10	ug/L	E625	
Phenol	<10	ug/L	E625	
bis(2-Chloroethyl)ether	<10	ug/L	E625	
2-Chlorophenol	<10	ug/L	E625	
N-Nitroso-di-n-propylamine	<10	ug/L	E625	
Hexachloroethane	<10	ug/L	E625	
Nitrobenzene	<10	ug/L	E625	
Isophorone	<10	ug/L	E625	
2-Nitrophenol	<25	ug/L	E625	
2,4-Dimethylphenol	<10	ug/L	E625	
bis(2-Chloroethoxy)methane	<10	ug/L	E625	
2,4-Dichlorophenol	<10	ug/L	E625	
1,2,4-Trichlorobenzene	<10	ug/L	E625	
Naphthalene	<10	ug/L	E625	
Hexachlorobutadiene	<10	ug/L	E625	
Hexachlorocyclopentadiene	<10	ug/L	E625	
2,4,6-Trichlorophenol	<10	ug/L	E625	
2-Chloronaphthalene	<10	ug/L	E625	
Dimethyl Phthalate	<10	ug/L	E625	
Acenaphthylene	<10	ug/L	E625	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
2,6-Dinitrotoluene	<10	ug/L	E625	
Acenaphthene	<10	ug/L	E625	
2,4-Dinitrophenol	<25	ug/L	E625	
4-Nitrophenol	<25	ug/L	E625	
Diethyl Phthalate	<10	ug/L	E625	
4-Chlorophenyl Phenyl Ether	<10	ug/L	E625	
Fluorene	<10	ug/L	E625	
4,6-Dinitro-o-cresol	<25	ug/L	E625	
N-Nitrosodiphenylamine	<10	ug/L	E625	
4-Bromophenyl Phenyl Ether	<10	ug/L	E625	
Hexachlorobenzene	<10	ug/L	E625	
Pentachlorophenol	<25	ug/L	E625	
Phenanthrene	<10	ug/L	E625	
Anthracene	<10	ug/L	E625	
Di-n-butyl Phthalate	<10	ug/L	E625	
Fluoranthene	<10	ug/L	E625	
Pyrene	<10	ug/L	E625	
Butyl Benzyl Phthalate	<10	ug/L	E625	
3,3'-Dichlorobenzidine	<10	ug/L	E625	
Benzo(a)anthracene	<10	ug/L	E625	
Chrysene	<10	ug/L	E625	
bis(2-Ethylhexyl) Phthalate	<10	ug/L	E625	
Di-n-octyl Phthalate	<10	ug/L	E625	
Benzo(b)fluoranthene	<10	ug/L	E625	
Benzo(k)fluoranthene	<10	ug/L	E625	
Benzo(a)pyrene	<10	ug/L	E625	
Indeno(1,2,3-cd)pyrene	<10	ug/L	E625	
Benzo(g,h,i)perylene	<10	ug/L	E625	
N-Nitrosodimethylamine	<10	ug/L	E625	
Benzidine	<80	ug/L	E625	
1,2-Diphenylhydrazine	<10	ug/L	E625	
2,2-oxybis(1-chloropropane)	<10	ug/L	E625	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	12.7	ng/L	E1631E	

ADHOC analysis

Test Description	Result	Units	Method	Limits
Hexachloropropene	<10	ug/L	SW8270C	
Hexachlorophene	<100	ug/L	SW8270C	
4-chloroaniline	<10	ug/L	SW8270C	

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com; MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

ADHOC analysis

Test Description	Result	Units	Method	Limits
Diphenylamine	<10	ug/L	SW8270C	
Aramite	<10	ug/L	SW8270C	
4-aminobiphenyl	<20	ug/L	SW8270C	
1,3-dinitrobenzene	<10	ug/L	SW8270C	
Aniline	<10	ug/L	SW8270C	
A,a-dimethylphenethylamin	<10	ug/L	SW8270C	
3-nitroaniline	<25	ug/L	SW8270C	
Pyridine	<10	ug/L	SW8270C	
5-nitro-o-toluidine	<10	ug/L	SW8270C	
Pentachlorobenzene	<10	ug/L	SW8270C	
Phorate	<10	ug/L	SW8270C	
O-toluidine	<10	ug/L	SW8270C	
4-nitroaniline	<25	ug/L	SW8270C	
1,3,5-trinitrobenzene	<10	ug/L	SW8270C	
2-nitroaniline	<25	ug/L	SW8270C	
1,2,4,5-tetrachlorobenzen	<10	ug/L	SW8270C	

Results of Analysis

Test Description	Result	Units	Method	Limits
Ammonium Ion as NH4	nd	mg/l	Unionized NH3	

Results of Analysis

Test Description	Result	Units	Method	Limits
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asbestos : analysis performed by EMSL Laboratories....

amonium as (NH4): analysis performed by summit laboratories...

Lab Sequence Number:	12-00694-001	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	east river station		
Sampled:	1/19/2012 09:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
sulfite (as SO3): analysis performed by ECO TEST Laboratories...				

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: 3,3-dimethyl benzidine,p-phenylenediamine: <20 ug/l by SW8270 c.

Lab Sequence Number:	12-00694-002	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001- duplicate		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	12.6	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-003	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - equipment blank		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-004	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - field blank		
Location:	East River Station.		
Sampled:	1/18/2012 09:30 AM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-005	Date Authorized:	1/31/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/18/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001 - trip blank		
Location:	East River Station.		
Sampled:	1/18/2012 12:00 PM		

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg

ppb = ug / L = ug / Kg

ppt = ng / L = ng / Kg

Status: Authorized

Authorized By: Jose Burgos

Title: Sr Production Technician

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by brooks rand labs.

Lab Sequence Number:	12-00694-006	Date Authorized:	2/17/2012
Incident Number:		Date Received:	1/19/2012
Chain of Custody ID:	38554-38555	Date Sampled:	1/19/2012
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	chemlab2@coned.com;MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	COMPOSITE	EMIS:
Description:	outfall 001		
Location:	East River Station.		
Sampled:	1/19/2012 06:30 AM		

Results of Analysis

Test Description	Result	Units	Method	Limits
Gross Alpha	2.40	pCi per L	E900.0	
Gross Beta	169	pCi per L	E900.0	
Radium-226	0.000	pCi per L	E903.1	
Radium-228	0.114	pCi per L	E904.0	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Vanessa A Ricard
 Title: Specialist

for qualifiers, please see email with attached pdf file.; Sample Comment: analysis performed by Pace Analytical Labs...

Outfall 002 Data

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site:	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Methacrylonitrile	<10	ug/L	SW8260B	
2-butanone	<10	ug/L	SW8260B	
Methyl Methacrylate	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
Iodomethane	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Xylenes, Total	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Allyl Chloride	<10	ug/L	SW8260B	
Acrolein	<5.0	ug/L	E624	
Dichlorodifluoromethane	<10	ug/L	SW8260B	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	2.3	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	10	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

(Total) Metals

Test Description	Result	Units	Method	Limits
Cobalt As Co	<0.05	mg/L	E200.7	
Molybdenum As Mo	<0.05	mg/L	E200.7	
Titanium As Ti	<0.20	mg/L	E200.7	
Magnesium As Mg	47.4	mg/L	E200.7	
Boron As B	<0.20	mg/L	E200.7	
Sodium As Na	546	mg/L	E200.7	
Aluminum As Al	<0.20	mg/L	E200.7	
Antimony As Sb	<60.0	ug/L	E200.7	
Arsenic as As	<10.0	ug/L	E200.7	
Barium as Ba	<0.20	mg/L	E200.7	
Beryllium as Be	<2.70	ug/L	E200.7	
Cadmium as Cd	<2.70	ug/L	E200.7	
Chromium as Cr	<0.01	mg/L	E200.7	
Copper as Cu	<0.02	mg/L	E200.7	
Iron as Fe	0.94	mg/L	E200.7	
Lead as Pb	35.0	ug/L	E200.7	
Manganese as Mn	0.03	mg/L	E200.7	
Mercury as Hg	<0.2	ug/L	E245.1	
Nickel as Ni	<0.04	mg/L	E200.7	
Selenium as Se	<5.00	ug/L	E200.7	
Silver as Ag	<0.01	mg/L	E200.7	
Thallium As Tl	<10.0	ug/L	E200.7	
Tin as Sn	<0.25	mg/L	E200.7	
Vanadium as V	<0.05	mg/L	E200.7	

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

(Total) Metals

Test Description	Result	Units	Method	Limits
Zinc as Zn	0.10	mg/L	E200.7	

PCB Analysis

Test Description	Result	Units	Method	Limits
Aroclor 1016	<0.065	ug/L	E608	
Aroclor 1221	<0.065	ug/L	E608	
Aroclor 1232	<0.065	ug/L	E608	
Aroclor 1242	<0.065	ug/L	E608	
Aroclor 1248	<0.065	ug/L	E608	
Aroclor 1254	<0.065	ug/L	E608	
Aroclor 1260	<0.065	ug/L	E608	
PCB Total	<0.065	ug/L	E608	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
1,3-dinitrobenzene	<10	ug/L	SW8270C	
4-chloro-3-methylphenol	<10	ug/L	E625	
Aniline	<10	ug/L	SW8270C	
N,N-dimethylphenethylamine	<10	ug/L	SW8270C	
5-nitro-o-toluidine	<10	ug/L	SW8270C	
Hexachloropropene	<10	ug/L	SW8270C	
Diphenylamine	<10	ug/L	SW8270C	
Hexachlorophene	<250	ug/L	SW8270C	
Dibenzo(a,h)anthracene	<10	ug/L	E625	
1,3,5-trinitrobenzene	<10	ug/L	SW8270C	
4-aminobiphenyl	<20	ug/L	SW8270C	
1,2,4,5-tetrachlorobenzen	<10	ug/L	SW8270C	
Pyridine	<10	ug/L	SW8270C	
Phorate	<10	ug/L	SW8270C	
Pentachlorobenzene	<10	ug/L	SW8270C	
O-toluidine	<10	ug/L	SW8270C	
Aramite	<10	ug/L	SW8270C	
Phenol	<10	ug/L	E625	
bis(2-Chloroethyl)ether	<10	ug/L	E625	
2-Chlorophenol	<10	ug/L	E625	
N-Nitroso-di-n-propylamine	<10	ug/L	E625	
Hexachloroethane	<10	ug/L	E625	
Nitrobenzene	<10	ug/L	E625	
Isophorone	<10	ug/L	E625	
2-Nitrophenol	<25	ug/L	E625	

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
2,4-Dimethylphenol	<10	ug/L	E625	
bis(2-Chloroethoxy)methane	<10	ug/L	E625	
2,4-Dichlorophenol	<10	ug/L	E625	
1,2,4-Trichlorobenzene	<10	ug/L	E625	
Naphthalene	<10	ug/L	E625	
4-Chloroaniline	<10	ug/L	SW8270C	
Hexachlorobutadiene	<10	ug/L	E625	
Hexachlorocyclopentadiene	<10	ug/L	E625	
2,4,6-Trichlorophenol	<10	ug/L	E625	
2-Chloronaphthalene	<10	ug/L	E625	
2-Nitroaniline	<25	ug/L	SW8270C	
Dimethyl Phthalate	<10	ug/L	E625	
Acenaphthylene	<10	ug/L	E625	
2,6-Dinitrotoluene	<10	ug/L	E625	
3-Nitroaniline	<25	ug/L	SW8270C	
Acenaphthene	<10	ug/L	E625	
2,4-Dinitrophenol	<25	ug/L	E625	
4-Nitrophenol	<25	ug/L	E625	
Diethyl Phthalate	<10	ug/L	E625	
4-Chlorophenyl Phenyl Ether	<10	ug/L	E625	
Fluorene	<10	ug/L	E625	
4-Nitroaniline	<25	ug/L	SW8270C	
4,6-Dinitro-o-cresol	<25	ug/L	E625	
N-Nitrosodiphenylamine	<10	ug/L	E625	
4-Bromophenyl Phenyl Ether	<10	ug/L	E625	
Hexachlorobenzene	<10	ug/L	E625	
Pentachlorophenol	<25	ug/L	E625	
Phenanthrene	<10	ug/L	E625	
Anthracene	<10	ug/L	E625	
Di-n-butyl Phthalate	<10	ug/L	E625	
Fluoranthene	<10	ug/L	E625	
Pyrene	<10	ug/L	E625	
Butyl Benzyl Phthalate	<10	ug/L	E625	
3,3'-Dichlorobenzidine	<10	ug/L	E625	
Benzo(a)anthracene	<10	ug/L	E625	
Chrysene	<10	ug/L	E625	
bis(2-Ethylhexyl) Phthalate	<10	ug/L	E625	
Di-n-octyl Phthalate	<10	ug/L	E625	
Benzo(b)fluoranthene	<10	ug/L	E625	

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
Benzo(k)fluoranthene	<10	ug/L	E625	
Benzo(a)pyrene	<10	ug/L	E625	
Indeno(1,2,3-cd)pyrene	<10	ug/L	E625	
Benzo(g,h,i)perylene	<10	ug/L	E625	
N-Nitrosodimethylamine	<10	ug/L	E625	
Benzidine	<80	ug/L	E625	
1,2-Diphenylhydrazine	<10	ug/L	E625	
2,2-oxybis(1-chloropropane)	<10	ug/L	E625	

Oil and Grease Analysis

Test Description	Result	Units	Method	Limits
Oil And Grease	<5.0	mg/l	E1664A	

Results of Analysis

Test Description	Result	Units	Method	Limits
Total Residual Chlorine	<0.1	mg/L	M4500-Cl G	
Total Dissolved Solids	1860	mg/L	SM2540C	
Sulfide As S	<2.00	mg/L	SM4500-S E	
Coliform, Total	130	MPN	SM9221BE	
Sulfate As So4	113	mg/L	E300.0	
Settleable Solids	<0.1	ml/L	SM2540F	
Oil And Grease	<5.0	mg/L	E1664A	
Nitrite As N	<0.10	mg/L	E353.2	
Methylene Blue Active Sub	<0.08	mg/L	SM5540C	
Fluoride As F	0.16	mg/L	E300.0	
Ethylene Glycol	<10	mg/L	WCCLR	
Color	30	Units	SM2120B	
Chromium +6 As Cr	<0.02	mg/L	M3500-Cr D	
Chloride As Cl	1180	mg/L	E300.0	
Chemical Oxygen Demand (c	20.4	mg/L	E410.4	
Bromide As Br	3.04	mg/L	E300.0	
Biochemical Oxygen Demand	<2	mg/L	SM5210B	
Ammonia As N	0.18	mg/L	SM4500-NH3 H	
Coliform, Fecal	8	MPN	SM9221BE	
Total Suspended Solids	<10	mg/L	SM2540D	
Cyanide, Total	<10	ug/L	SM4500-CN E	
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	0.15	mg/L	SM4500-P E	
Nitrate As N	0.54	mg/L	E353.2	

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Results of Analysis

Test Description	Result	Units	Method	Limits
Asbestos In Water	<0.11	MFL	E100.2	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	12.1	ng/L	E1631E	

Analysis for pH (Field) and Temperature

Test Description	Result	Units	Method	Limits
pH (Field)	9.5	ph Units	SM4500-H B	
Temperature	18.1	deg C	SM2550 B	

Results of Analysis

Test Description	Result	Units	Method	Limits
Nitrogen, Kjeldahl, Total	2.05	mg/l	E351.2	
Nitrogen as N2	2.59	mg/l	M4500-N C	

Results of Analysis

Test Description	Result	Units	Method	Limits
Gross Alpha	0.631	pCi per L	E900.0	
Gross Beta	18.7	pCi per L	E900.0	
Radium-226	0.460	pCi per L	E903.1	
Radium-228	0.750	pCi per L	E904.0	

Results of Analysis

Test Description	Result	Units	Method	Limits
Sulfite	<0.500	mg/l	M4500-SO3	

Narrative Test

Test Description	Result	Units	Method	Limits
REVISED REPORT				
Asbestos analysis performed by EMSL				
mercury analysis performed by Brooks Rand Labs				
sulfite analysis performed by Ecotest				
Ammonium ion as (NH4): analysis performed by Summit Laboratories by method unionized NH3				
Ammonium ion as (NH4) : Not detected.....				
gross alpha , gross beta , radium-226 , radium-228: analysis performed by Pace Analytical Labs				

Lab Sequence Number:	11-11548-001	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Narrative Test

Test Description	Result	Units	Method	Limits
	chloride, fluoride : results for dilution			

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Reynolds J Burns
Title: Department Manager

revised report: COC # modified to reflect H2M COC #;

Outfall 004 Data

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Allyl Chloride	<10	ug/L	SW8260B	
Methacrylonitrile	<10	ug/L	SW8260B	
Acrolein	<5.0	ug/L	E624	
Xylenes, Total	<10	ug/L	SW8260B	
Trans-1,4-dichloro-2-bute	<10	ug/L	SW8260B	
Pentachloroethane	<1.0	ug/L	E624	
Methyl Methacrylate	<10	ug/L	SW8260B	
Iodomethane	<10	ug/L	SW8260B	
Acrylonitrile	<5.0	ug/L	E624	
2-butanone	<10	ug/L	SW8260B	
Chloroprene	<10	ug/L	SW8260B	
Dichlorodifluoromethane	<10	ug/L	SW8260B	
Methyl Chloride	<1.0	ug/L	E624	
Vinyl Chloride	<1.0	ug/L	E624	
Methyl Bromide	<1.0	ug/L	E624	
Chloroethane	<1.0	ug/L	E624	
Trichlorofluoromethane	<10	ug/L	SW8260B	
1,1-Dichloroethene	<1.0	ug/L	E624	
Acetone	<10	ug/L	SW8260B	
Methylene Chloride	<1.0	ug/L	E624	
trans-1,2-Dichloroethene	<1.0	ug/L	E624	
1,1-Dichloroethane	<1.0	ug/L	E624	
cis-1,2-Dichloroethene	<1.0	ug/L	E624	
Chloroform	<1.0	ug/L	E624	
1,1,1-Trichloroethane	<1.0	ug/L	E624	
Carbon Tetrachloride	<1.0	ug/L	E624	
Benzene	<1.0	ug/L	E624	
1,2-Dichloroethane	<1.0	ug/L	E624	
Trichloroethene	<1.0	ug/L	E624	
1,2-Dichloropropane	<1.0	ug/L	E624	
Dibromomethane	<10	ug/L	SW8260B	
Bromodichloromethane	<1.0	ug/L	E624	
2-Chloroethyl Vinyl Ether	<1.0	ug/L	E624	
cis-1,3-Dichloropropene	<10	ug/L	SW8260B	
Toluene	<1.0	ug/L	E624	
trans-1,3-Dichloropropene	<10	ug/L	SW8260B	
1,1,2-Trichloroethane	<1.0	ug/L	E624	
Tetrachloroethene	<1.0	ug/L	E624	
2-Hexanone	<10	ug/L	SW8260B	

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

(Total) Full VOC Analysis

Test Description	Result	Units	Method	Limits
Dibromochloromethane	<1.0	ug/L	E624	
1,2-Dibromoethane	<10	ug/L	SW8260B	
Chlorobenzene	<1.0	ug/L	E624	
1,1,1,2-Tetrachloroethane	<10	ug/L	SW8260B	
Ethyl Benzene	<1.0	ug/L	E624	
Styrene	<10	ug/L	SW8260B	
Bromoform	<1.0	ug/L	E624	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	E624	
1,2,3-Trichloropropane	<10	ug/L	SW8260B	
1,3-Dichlorobenzene	<1.0	ug/L	E624	
1,4-Dichlorobenzene	<1.0	ug/L	E624	
1,2-Dichlorobenzene	<1.0	ug/L	E624	

(Total) Metals

Test Description	Result	Units	Method	Limits
Titanium As Ti	<0.20	mg/L	E200.7	
Sodium As Na	2.84	mg/L	E200.7	
Molybdenum As Mo	<0.05	mg/L	E200.7	
Magnesium As Mg	0.61	mg/L	E200.7	
Cobalt As Co	<0.05	mg/L	E200.7	
Boron As B	<0.20	mg/L	E200.7	
Aluminum As Al	<0.20	mg/L	E200.7	
Antimony As Sb	<60.0	ug/L	E200.7	
Arsenic as As	<10.0	ug/L	E200.7	
Barium as Ba	<0.20	mg/L	E200.7	
Beryllium as Be	<2.70	ug/L	E200.7	
Cadmium as Cd	3.10	ug/L	E200.7	
Chromium as Cr	<0.01	mg/L	E200.7	
Copper as Cu	<0.02	mg/L	E200.7	
Iron as Fe	0.37	mg/L	E200.7	
Lead as Pb	5.05	ug/L	E200.7	
Manganese as Mn	0.05	mg/L	E200.7	
Mercury as Hg	<0.2	ug/L	E245.1	
Nickel as Ni	<0.04	mg/L	E200.7	
Selenium as Se	<5.00	ug/L	E200.7	
Silver as Ag	<0.01	mg/L	E200.7	
Thallium As Tl	<10.0	ug/L	E200.7	
Tin as Sn	<0.25	mg/L	E200.7	
Vanadium as V	<0.05	mg/L	E200.7	

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

(Total) Metals

Test Description	Result	Units	Method	Limits
Zinc as Zn	4.27	mg/L	E200.7	

PCB Analysis

Test Description	Result	Units	Method	Limits
Aroclor 1016	<0.065	ug/L	E608	
Aroclor 1221	<0.065	ug/L	E608	
Aroclor 1232	<0.065	ug/L	E608	
Aroclor 1242	<0.065	ug/L	E608	
Aroclor 1248	<0.065	ug/L	E608	
Aroclor 1254	<0.065	ug/L	E608	
Aroclor 1260	<0.065	ug/L	E608	
PCB Total	<0.065	ug/L		

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
Pyridine	<10	ug/L	SW8270C	
Phorate	<10	ug/L	SW8270C	
Pentachlorobenzene	<10	ug/L	SW8270C	
O-toluidine	<10	ug/L	SW8270C	
Hexachloropropene	<10	ug/L	SW8270C	
Hexachlorophene	<250	ug/L	SW8270C	
Diphenylamine	<10	ug/L	SW8270C	
Dibenzo(a,h)anthracene	<10	ug/L	E625	
Aramite	<10	ug/L	SW8270C	
Aniline	<10	ug/L	SW8270C	
A, a-dimethylphenethylamin	<10	ug/L	SW8270C	
5-nitro-o-toluidine	<10	ug/L	SW8270C	
4-chloro-3-methylphenol	<10	ug/L	E625	
4-aminobiphenyl	<20	ug/L	SW8270C	
1,3-dinitrobenzene	<10	ug/L	SW8270C	
1,3,5-trinitrobenzene	<10	ug/L	SW8270C	
1,2,4,5-tetrachlorobenzen	<10	ug/L	SW8270C	
Phenol	<10	ug/L	E625	
bis(2-Chloroethyl)ether	<10	ug/L	E625	
2-Chlorophenol	<10	ug/L	E625	
N-Nitroso-di-n-propylamine	<10	ug/L	E625	
Hexachloroethane	<10	ug/L	E625	
Nitrobenzene	<10	ug/L	E625	
Isophorone	<10	ug/L	E625	
2-Nitrophenol	<25	ug/L	E625	

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
2,4-Dimethylphenol	<10	ug/L	E625	
bis(2-Chloroethoxy)methane	<10	ug/L	E625	
2,4-Dichlorophenol	<10	ug/L	E625	
1,2,4-Trichlorobenzene	<10	ug/L	E625	
Naphthalene	<10	ug/L	E625	
4-Chloroaniline	<10	ug/L	SW8270C	
Hexachlorobutadiene	<10	ug/L	E625	
Hexachlorocyclopentadiene	<10	ug/L	E625	
2,4,6-Trichlorophenol	<10	ug/L	E625	
2-Chloronaphthalene	<10	ug/L	E625	
2-Nitroaniline	<25	ug/L	SW8270C	
Dimethyl Phthalate	<10	ug/L	E625	
Acenaphthylene	<10	ug/L	E625	
2,6-Dinitrotoluene	<10	ug/L	E625	
3-Nitroaniline	<25	ug/L	SW8270C	
Acenaphthene	<10	ug/L	E625	
2,4-Dinitrophenol	<25	ug/L	E625	
4-Nitrophenol	<25	ug/L	E625	
Diethyl Phthalate	<10	ug/L	E625	
4-Chlorophenyl Phenyl Ether	<10	ug/L	E625	
Fluorene	<10	ug/L	E625	
4-Nitroaniline	<25	ug/L	SW8270C	
4,6-Dinitro-o-cresol	<25	ug/L	E625	
N-Nitrosodiphenylamine	<10	ug/L	E625	
4-Bromophenyl Phenyl Ether	<10	ug/L	E625	
Hexachlorobenzene	<10	ug/L	E625	
Pentachlorophenol	<25	ug/L	E625	
Phenanthrene	<10	ug/L	E625	
Anthracene	<10	ug/L	E625	
Di-n-butyl Phthalate	<10	ug/L	E625	
Fluoranthene	<10	ug/L	E625	
Pyrene	<10	ug/L	E625	
Butyl Benzyl Phthalate	<10	ug/L	E625	
3,3'-Dichlorobenzidine	<10	ug/L	E625	
Benzo(a)anthracene	<10	ug/L	E625	
Chrysene	<10	ug/L	E625	
bis(2-Ethylhexyl) Phthalate	<10	ug/L	E625	
Di-n-octyl Phthalate	<10	ug/L	E625	
Benzo(b)fluoranthene	<10	ug/L	E625	

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

(Total) Full SVOC Analysis

Test Description	Result	Units	Method	Limits
Benzo(k)fluoranthene	<10	ug/L	E625	
Benzo(a)pyrene	<10	ug/L	E625	
Indeno(1,2,3-cd)pyrene	<10	ug/L	E625	
Benzo(g,h,i)perylene	<10	ug/L	E625	
N-Nitrosodimethylamine	<10	ug/L	E625	
Benzidine	<80	ug/L	E625	
1,2-Diphenylhydrazine	<10	ug/L	E625	
2,2-oxybis(1-chloropropane)	<10	ug/L	E625	

Results of Analysis

Test Description	Result	Units	Method	Limits
Nitrite As N	<0.10	mg/L	E353.2	
Methylene Blue Active Sub	<0.08	mg/L	SM5540C	
Fluoride As F	<0.10	mg/L	E300.0	
Ethylene Glycol	<10	mg/L	WCCLR	
Color	25	Units	SM2120B	
Coliform, Total	30	MPN	SM9221BE	
Coliform, Fecal	4	MPN	SM9221BE	
Chromium +6 As Cr	<0.02	mg/L	M3500-Cr D	
Chloride As Cl	4.39	mg/L	E300.0	
Chemical Oxygen Demand (c	13.7	mg/L	E410.4	
Bromide As Br	<0.50	mg/L	E300.0	
Biochemical Oxygen Demand	<2	mg/L	SM5210B	
Ammonia As N	0.15	mg/L	SM4500-NH3 H	
Total Suspended Solids	<10	mg/L	SM2540D	
Total Residual Chlorine	<0.1	mg/L	M4500-Cl G	
Total Dissolved Solids	60	mg/L	SM2540C	
Sulfide As S	<2.00	mg/L	SM4500-S E	
Sulfate As So4	10.2	mg/L	E300.0	
Settleable Solids	<0.1	mL/L	SM2540F	
Oil And Grease	<5.0	mg/L	E1664A	
Phenols	<5.0	ug/L	E420.1	
Phosphorus As P	<0.05	mg/L	SM4500-P E	
Nitrate As N	0.87	mg/L	E353.2	
Asbestos In Water	<0.11	MFL	E100.2	
Cyanide, Total	<10	ug/L	SM4500-CN E	
Cyanide, Amenable	<1.0	ug/L	SM4500-CN G	

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

Masano

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	1.91	ng/L	E1631E	

Analysis for pH (Field) and Temperature

Test Description	Result	Units	Method	Limits
pH (Field)	6.9	ph Units	SM4500-H B	
Temperature	10.1	deg C	SM2550 B	

Results of Analysis

Test Description	Result	Units	Method	Limits
Nitrogen, Kjeldahl, Total	0.40	mg/l	E351.2	
Nitrogen as N2	1.27	mg/l	M4500-N C	

Results of Analysis

Test Description	Result	Units	Method	Limits
Gross Alpha	0.310	pCi per L	E900.0	
Gross Beta	0.993	pCi per L	E900.0	
Radium-226	0.585	pCi per L	E903.1	
Radium-228	0.852	pCi per L	E904.0	

Results of Analysis

Test Description	Result	Units	Method	Limits
Sulfite	<0.500	mg/l	M4500-SO3	

Narrative Test

Test Description	Result	Units	Method	Limits
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REVISED REPORT

Asbestos analysis performed by EMSL
Mercury analysis performed by Brooks Rand Labs
Sulfite analysis performed by EcoTest
Ammonium ion as (NH4): analysis performed by Summit Laboratories by method unionized NH3
Ammonium ion as (NH4) : Not detected

Lab Sequence Number:	11-11548-002	Date Authorized:	1/20/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

Narrative Test

Test Description	Result	Units	Method	Limits
gross apha, gross beta, radium-226, radium-228: analysis performed by Pace Analytical Labs				

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Reynolds J Burns
Title: Department Manager

revised report: COC # modified to reflect H2M COC #;

Lab Sequence Number:	11-11548-003	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002 - DUP.		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	14.0	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status:	Authorized
Authorized By:	Vanessa A Ricard
Title:	Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Lab Sequence Number:	11-11548-004	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004 - DUP.		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	1.89	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Vanessa A Ricard
 Title: Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Lab Sequence Number:	11-11548-005	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 004 - DUP. Field Blank		
Location:	East River Station.		
Sampled:	12/16/2011 07:35 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Vanessa A Ricard
 Title: Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Lab Sequence Number:	11-11548-006	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Outfall 002 - DUP. Field Blank		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
 ppb = ug / L = ug / Kg
 ppt = ng / L = ng / Kg

Status: Authorized
 Authorized By: Vanessa A Ricard
 Title: Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Lab Sequence Number:	11-11548-007	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

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Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Trip Blank 1		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status:	Authorized
Authorized By:	Vanessa A Ricard
Title:	Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Lab Sequence Number:	11-11548-008	Date Authorized:	1/9/2012
Incident Number:		Date Received:	12/16/2011
Chain of Custody ID:	33504	Date Sampled:	12/16/2011
Submitter:	Shabazz, Amin Y		
Job Site :	East River Generating Station		
Email to:	MN-LabAnalysis@coned.com; SHABAZZA@coned.com		

NOTE: This report shall not be reproduced, except in full, without the written consent of EHS.
Test results are representative only of submitted samples.

Results of Analysis

Matrix:	WATER	GRAB	EMIS:
Description:	Trip Blank 2		
Location:	East River Station.		
Sampled:	12/16/2011 08:55 AM	By:	

Total Mercury

Test Description	Result	Units	Method	Limits
Mercury as Hg	<0.15	ng/L	E1631E	

Analyzed By: H2M LABS, INC. (ELAP #10478)

ppm = mg / L = mg / Kg
ppb = ug / L = ug / Kg
ppt = ng / L = ng / Kg

Status: Authorized
Authorized By: Vanessa A Ricard
Title: Specialist

revised report: COC # modified to reflect H2M COC #; Sample Comment: Analyzed by Summit Environmental Technologies, Inc. Analytical Laboratories.

Industrial SPDES Permit Fact Sheet

I. SUMMARY OF PROPOSED PERMIT CHANGES

A SPDES permit renewal is proposed. Following is a summary of the proposed changes in the draft permit as compared to the currently effective permit, the details of these changes are specified below and in the draft permit: Mercury minimization study and addition of monitoring for PCBs. A review of the Chlorine limit and biological requirements have been updated. Additional changes were requested by the applicant on August 17, 2012 to include the addition of condensate from Stuyvesant Town complex and the addition of Outfall 04A. Please note that when the Department updates a permit this typically includes updated forms incorporating the latest general conditions.

II. BACKGROUND INFORMATION

As noted throughout this document, SPDES permits are based on both federal and state requirements - law, regulation, policy, and guidance. These can generally be found on the internet. Current locations include: Clean Water Act (CWA) www.epa.gov/lawsregs/laws/index.html#env; Environmental Conservation Law (ECL) www.dec.ny.gov/regulations/40195.html; federal regulations www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR; state environmental regulations www.dec.ny.gov/regulations/regulations.html; NYSDEC water policy www.dec.ny.gov/regulations/2654.html.

A. Administrative History

The current SPDES permit for the facility became effective on September 1, 2007 and has an expiration date of August 31, 2012.

On March 1, 2012 the permittee submitted a permit renewal application form NY-2C and sampling data.

B. Outfall and Receiving Water Information

The facility discharges, or proposes to discharge, wastewater and/or stormwater to waters of the state via the following outfalls:

Outfall 001 – Combined Discharge consisting of the following Low Volume Wastewaters and Cooling Water: Condenser cooling water, low volume wastes, reverse osmosis reject, filter backwash. Treatment is provided for this outfall. Treatment consists of biofouling control, and neutralization.

The location of the outfall(s), and the name, classification, and index numbers of the receiving waters are indicated in the *Outfall & Receiving Water Location Table* at the end of this fact sheet. The classifications of individual surface waters are specified in 6 NYCRR Parts 800 – 941. The best uses and other requirements applicable to the specific water classes are specified in 6 NYCRR Part 701.

This is a tidal water (estuary), analysis of the discharge was performed with data provided in the thermal dilution studies (provided with the application), information is listed in the *Pollutant Summary Table* at the end of this fact sheet together with applicable ambient water quality criteria, ambient background data (if available), and outfall pollutant data.

C. Discharge Composition

The *Pollutant Summary Table* at the end of this fact sheet presents the existing effluent quality of the facility. Concentration and mass data are presented, based on Discharge Monitoring Report (DMR), permit application, and possibly other data submitted by the permittee for the period 2007 to 2011. The statistical methods utilized

to calculate 95th and 99th percentiles are in accordance with TOGS 1.2.1 and the USEPA, Office of Water, Technical Support Document For Water Quality-based Toxics Control, March 1991, Appendix E. Statistical calculations were not performed for parameters with insufficient data. Generally, ten or more data points are needed to calculate percentiles (See TOGS 1.2.1 Appendix D).

D. Compliance History

A review of the facility's DMRs shows that the facility had the following violations:

Outfall 001

Parameter Desc	Limit Unit	Statistical Base	Mon. Date	Limit	DMR Value	% Exceedence
Oil & Grease	mg/L	DAILY MX	12/31/2006	15	91	507
Solids, total suspended	mg/L	DAILY MX	6/30/2007	100	165	65

Outfall 004

Parameter Desc	Limit Unit	Statistical Base	Mon. Date	Limit	DMR Value	% Exceedence
Oil & Grease	mg/L	DAILY MX	6/30/2009	15	33	120

III. PROPOSED PERMIT REQUIREMENTS

Sections 101, 301(b), 304, 308, 401, 402, and 405 of the CWA provide the basis for the effluent limitations and other conditions in the draft permit. The NYSDEC evaluates discharges with respect to these sections of the CWA, New York State ECL, and the relevant federal/state regulations, policy, and guidance to determine which conditions to include in the draft permit.

For existing permittees, the previous permit typically forms the basis for the next permit. Permit revisions are implemented where justified due to changed conditions at the facility and/or in response to updated regulatory requirements.

A. Effluent Limitations

If applicable, the existing permit limits are evaluated to determine if these should be continued, revised, or deleted. Generally, existing limits are continued unless there is justification to do otherwise. Other pollutant monitoring data are also reviewed to determine the presence of additional contaminants that should be included in the permit.

The permit writer determines the **technology-based effluent limits (TBELs)** that must be incorporated into the permit. A TBEL requires a minimum level of treatment for industrial point sources based on currently available treatment technologies and/or Best Management Practices (BMPs). The Department then evaluates the water quality expected to result from technology controls to determine if any exceedances of water quality criteria in the receiving water might result. If there is a reasonable potential for exceedances to occur, **water quality-based effluent limits (WQBELs)** must be included in the permit. A WQBEL is designed to ensure that the water quality standards of receiving waters are being met. In general, the Clean Water Act requires that the effluent limits for a particular pollutant are the more stringent of either the TBEL or WQBEL.

1. TBELs & Anti-Backsliding:

Section 301(b) and 402 of the CWA require technology-based controls on effluents. A TBEL is set based upon an evaluation of New Source Performance Standards (NSPS), Best Available Technology Economically Achievable (BAT), Best Conventional Pollutant Control Technology (BCT), Best Practicable Technology Currently Available (BPT), and Best Professional Judgment (BPJ). BPJ limits may be set using any reasonable method that takes into consideration the criteria set forth in 40 CFR 125.3.

(include this paragraph only if there is an applicable EPA effluent guideline)

In many cases, BPT, BCT, BAT and NSPS limitations are based on effluent guidelines developed by USEPA for specific industries. For this facility there are effluent guidelines in the Steam Electric category, BAT subcategory that apply. The applicable regulations are 40 CFR 423. Specific effluent limits for these pollutants are identified below and in the *Summary Table* at the end of this fact sheet.

For facilities that are subject to effluent guidelines and have substances in their discharges that are not explicitly limited by the regulations, or for industrial sectors for which there are no applicable effluent guidelines in 40 CFR 402-471, the permit writer is authorized to use BPJ in developing TBELs. The authority for BPJ is contained in Section 402(a)(1) of the CWA, which authorizes the Department to issue a permit containing "such conditions as the Administrator determines are necessary to carry out the provisions of the Act." The NPDES regulations in 40 CFR 125.3 state that permits developed on a case-by-case basis under Section 402(a)(1) of the CWA must consider: The appropriate technology for the category class of point sources, of which the applicant is a member, based on available information; and, any unique factors relating to the applicant.

Anti-backsliding requirements are specified in the CWA, sections 402(o) and 303(d)(4), and regulations at 40 CFR 122.44(l). These requirements are summarized in TOGS 1.2.1. Generally, the regulations prohibit the relaxation of effluent limits in reissued permits unless one of the specified exceptions applies. In practice, limits in reissued permits will generally be no less stringent than previous permit limits to ensure compliance with anti-backsliding requirements. Otherwise, the specific exceptions that allow backsliding will be cited on a case-by-case basis.

Following is the TBEL & Anti-backsliding assessment for each pollutant present in the discharge(s). A summary of this analysis is provided in the *Pollutant Summary Table* at the end of this fact sheet.

Pollutant-Specific TBEL & Anti-Backsliding Analysis:

For Outfall 001 the limits and ranges for pH, Total Suspended Solids, Oil & Grease, are Technology Based limits and remain the same as in the last permit. The thermal (Temperature) limits are based on the Criterial in 6NYCRR Pat 704 as applicable. 316 studies have demonstrated compliance. Studies to address Total Residual Chlorine are include in this draft permit to address minimizing the discharge of this additive. The multiple Discharge Variance has been applied for mercury. Limits for secondary containment stormwater also remain as in the previous permit as the Technology based limits are applicable for benzene, toluene, xylenes, ethylbenzene and total residual chlorine are applicable. For Outfall 004, monitoring for PCBs has been included to address stormwater discharges from the transformer yard that contain older equipment that could contain trace concentrations of PCBs (but have had the dielectric fluid drained and replaced with PCB free dielectric fluid).

Mercury – See QBEL section below.

2. QBELs & Anti-Degradation:

In addition to the TBELs previously discussed, the NYSDEC evaluated the discharge to determine compliance with Sections 101 and 301(b)(1)(C) of the CWA and 40 CFR 122.44(d)(1). These require that permits include limits for all pollutants or parameters which are or may be discharged at a level which will cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The limits must be stringent enough to ensure that water quality standards are met and must be consistent with any available wasteload allocation (WLA).

The procedure for developing QBELs includes knowing the pollutants present in the discharge(s), identifying water quality criteria applicable to these pollutants, determining if QBELs are necessary (reasonable

potential), and calculating the WQBELs. Factors also considered in this analysis include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources. If the expected concentration of the pollutant of concern in the receiving water may exceed the ambient water quality standard or guidance value then there is reasonable potential that the discharge may cause or contribute to a violation of the water quality, and a WQBEL or WLA for the pollutant is required.

Antidegradation Policy: New York State implements the antidegradation portion of the CWA based upon two documents: (1) Organization and Delegation Memorandum #85-40, entitled "Water Quality Antidegradation Policy," signed by the Commissioner of NYSDEC, dated September 9, 1985; and, (2) TOGS 1.3.9, entitled "Implementation of the NYSDEC Antidegradation Policy – Great Lakes Basin (Supplement to Antidegradation Policy dated September 9, 1985)." A SPDES permit cannot be issued that would result in the water quality criteria being violated. The permit for the facility contains effluent limits which ensure that the existing beneficial uses of the receiving waters will be maintained.

Following is the WQBEL analysis for each pollutant present in the discharge(s). Anti-degradation analysis which justifies applying water quality standards of a higher classification is noted below, if applicable. Refer to section II.B. above for information on discharge location, receiving water information (class, dilution, chemistry), and the existence of any TMDLs. A summary of this analysis is provided in the *Pollutant Summary Table* at the end of this fact sheet.

Pollutant-Specific WQBEL & Anti-Degradation Analysis:

Biological requirements including Impingement mortality and Entrainment have been met. The design and Construction technology Plan has also been met. The Technology Installation and Operation plan has been approved and verification monitoring required under this permit. See the permit for conditions of complete installation of BTA.

Total Residual Chlorine (TRC) - A daily maximum TRC limit of 100 ug/l is included in the draft permit. The limit was determined by multiplying the water quality standard of 7.5 ug/l by the chronic dilution factor of 13. The dilution used in the calculation is an estimate and would be refined during the next permit review process.

Mercury

Mercury was detected in the effluent at a level of 12.7 ng/l, which exceeds the water quality standard of 0.7 ng/L. Considering the very low levels detected in this effluent, their likely source, and that the ubiquitous nature of mercury contamination currently makes it impractical for any dischargers to achieve the calculated water quality based effluent limit. To determine if any on-site sources are influencing mercury concentrations, mercury effluent limits, minimization program, or routine monitoring requirements have been included in the permit. This is in accordance with New York State's mercury multiple discharge variance (MDV) in TOGS 1.3.10. Refer to the MDV for further detail.

B. Monitoring & Reporting Requirements

Section 308 of the Clean Water Act and federal regulations 40 CFR 122.44(i) require that monitoring be included in permits to determine compliance with effluent limitations. Additional effluent monitoring may also be required to gather data to determine if effluent limitations may be required. The permittee is responsible for conducting the monitoring and for reporting results on DMRs. The permit contains the monitoring requirements for the facility. Monitoring frequency is based on the minimum sampling necessary to adequately monitor the facility's performance. For industrial facilities, sampling frequency is based on guidance provided in TOGS 1.2.1.

C. Other Conditions Specific To This Permit

Compliance Schedule(s): A chlorine minimization study is required to be performed as well as the implementation of the biological studies.

Best Management Practices (BMPs): The permittee is required to implement a BMP plan that prevents, or minimizes the potential for, the release of significant amounts of toxic or hazardous pollutants to state waters. The BMP plan requires annual review by the permittee.

Water Treatment Chemicals (WTCs): The use and discharge of WTCs in requires the prior review and authorization by the NYSDEC. In most cases, a permit modification is not necessary. WTC usage must be logged and detailed in an annual report sent to the DEC. The permit lists the authorized WTCs for the facility.

Pollutant Minimization Program (PMP): A PMP for PCBs and mercury is being implemented at the facility. PMP details are specified in the permit.

Discharge Notification Act: In accordance with Discharge Notification Act (ECL 17-0815-a), the permittee is required to post a sign at each point of wastewater discharge to surface waters. The permittee is also required to provide a public repository for DMRs as required by the SPDES permit.

D. General Conditions Applicable To All Permits

The permit contains standard regulatory language that is required to be in all SPDES permits. These permit provisions, based largely upon 40 CFR 122 subpart C and 6 NYCRR Part 750, include requirements pertaining to monitoring, recording, reporting, and compliance responsibilities. These “general conditions” of permits are typically specified, summarized, or referenced on the first and last pages of the permit.

Dilution Study:

Receiving Water Dilution

Additional dilution of the contributory waste streams would also be achieved after discharge within the East River. The thermal study used the term “approximate dilution” because we used the temperature of the discharge plume to determine dilution (using a mass-balance approach), and we are therefore assuming that the reduction of temperature in the discharge plume was due solely to dilution. Of course, other factors such as convective, conductive and evaporative cooling may all, at times, play roles in cooling a thermal plume. However, because of the short duration of the surveys (60 to 70 minutes each) and the ambient warm and humid weather conditions, it is probable that dilution provided the great majority of temperature reduction that was observed in the field surveys. It must also be noted that there was some degree of naturally occurring spatial and temporal variation in ambient water temperatures during the surveys. Therefore, the dilution coefficients used represent temperature changes caused by dilution of the thermal plume as well as natural variability of ambient temperatures outside of areas affected by the plume. While the above caveat must be taken into consideration, it is believed the observed temperature-based estimate of “dilution” is a reasonable approximation of the dilution the contributory waste streams would likely receive within the East River. Note that during the surveys the Station was operating at full intake and discharge flow capacity. It is common to operate with only one generating unit (and thus reduce circulating water discharges to about ½ of the combined rate) and while this would not likely affect end-of-pipe dilution factors it could potentially affect dilution patterns in the receiving water from Outfall 001 by reducing the overall size of the discharge plume.

It is important to recognize that the dilutions calculated represent the observed dilution of the entire waste stream, including all of the circulating and service water components. Thus, the dilution value represents the equivalent dilution that would be achieved by adding a given number of waste stream volumes of water to the discharged waste stream volume. Dilution coefficients typically were lowest within the main thermal plume and increased steadily with depth and lateral distance from the plume. The ebb slack tide survey showed greater average dilution compared to the flood survey. Within the main body of the thermal plume at the water surface, dilution values were low, typically 0-2. Outside of the main plume, dilution values increased progressively and were typically on the order of 10s to 100s at the lateral extent of the surveyed area and at depth. In the figures, the areas with very high dilution of 500 or greater reflects water temperatures close to ambient conditions and may indicate large dilution potential or it may indicate the natural ambient temperature variations observed during the surveys. As with the thermal study, it is difficult to fully delineate the extent of the Station discharge plume and the representativeness of the dilution values likely decreases away from the plume. It was demonstrated that dilution values in the hundreds are very likely at the outer edges of the discharge plume. I have applied a 100:1 dilution factor in the development of discharge limits for this facility.

Note: From *EAST RIVER THERMAL STUDY REPORT* East River Thermal & Dilution Final Report 2010 4/15/11 by *Normandeau Associates, Inc.*

OUTFALL & RECEIVING WATER LOCATION TABLE

Outfall Number	Latitude	Longitude	Receiving Water Name	Water Class	Water Index Number	Major/Sub Basin	Dilution Factor
001	40 43 40	73 58 20	East River	I	ER (10.1-12.3)	17-02	13 - Assigned
002	40 43 40	73 58 20	East River	I	ER (10.1-12.3)	17-02	>100
003	40 43 40	73 58 20	East River	I	ER (10.1-12.3)	17-02	>100
004	40 43 40	73 58 20	East River	I	ER (10.1-12.3)	17-02	>100

(Located at East 15th Street, Manhattan)

POLLUTANT SUMMARY TABLE(S)

Outfall # 001-004

Source(s) of Wastewater	Combined Discharge (001), Condenser Cooling Water, Low volume Wastewater
Existing Wastewater Treatment Facilities	O/W Separator (001)
EPA Point Source Category & Production Rate	40 CFR423

Permittee: Consolidated Edison of New York
 Facility: East river Generating Station
 SPDES No: NY0005126

Date: 8/16/12
 Permit Writer: Paul Koliakowski
 PAGE 8 OF 8

Effluent Parameter (concentration in ug/l and mass in lbs/day unless otherwise specified)	Existing Effluent Quality-EEQ			Technology Based Effluent Limit-TBELs			Water Quality Data & WQBELs				Permit Basis (T or WQ or NA)	
	concentration		mass				Standard	Background	WQBEL			
	Avg/Max	95%/99%	Avg/Max	95%/99%	conc.	mass	Type	conc.	conc.	mass		Type
001 - Main outfall - A dilution of 13:1 is assigned.												
Flow Rate, units = MGD	Average	232	Maximum	372								
pH (su)	Minimum		Maximum		Range		See below ¹					
Temperature, deg. F	83 Deg. F				90 deg F		6NYCCR Part 704					
Total Suspended Solids	28 mg/l				50 mg/l		BCT - 40CFR423					
Oil & Grease	<5mg/l				15 mg/l		BCT/BPJ					
Total Residual Chlorine	0.64 mg/l				0.2 mg/l		BAT 40CFR423					WQ
Mercury, ug/l	12.7 ng/l				50 ng/l		TOGS 1.3.10 MDV					MDV
001E and 003 (hydrostatic Test Water and Secondary Containment) - The discharge from this outfall is mixed with main Outfall #001 and in process achieve a dilution >100:1. Hence, technology based effluent limits are acceptable. In addition, dilution is restricted to 100:1. (Additional dilution in East River is not considered.)												
Benzene	< 1ug/l				0.02 mg/l		AL					
Toluene	< 1ug/l				0.02 mg/l		AL					
Xylenes-Total	< 1ug/l				0.02 mg/l		AL					
Ethylbenzene	< 1ug/l				0.02 mg/l		AL					
Total Residual Chlorine	< 1ug/l				0.2 mg/l		AL					
004 Substation Oil/Water separator - The discharge from this outfall is mixed with main Outfall #001 and in process achieve a dilution >100:1. Hence, technology based effluent limits are acceptable. In addition, dilution is restricted to 100:1.												
Oil & Grease	33.2				15 mg/l		BPJ					
PCB, ug/l	< 0.065 ng/l				200 (per Aroclor)		BPJ					

1- The normal range shall not be extended by more than one-tenth-(0.1) of pH unit. - 6NYCCR Part 703.3
 A- Acute standard - intermittent discharges
 +; WQ Std. is exceeded in NY Harbor for mercury- hence no dilution is applied. Discharge should be limited to EEQ if available or apply Mercury Variance TOGS 1.3.10.
 01E - For this discharge, technology based effluent limits are ok, available dilution in discharge canal I.E Outfall 001
 *For total Residual Chlorine, effluent limit of 0.1 mg/l see TOGS 1.3.1, Attachment 1 -item C. (Chlorination is done for 8 hrs/day: 2-hrs/day-per unit, Total units=4)



Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York NY 10003
www.conEd.com

May 30, 2013

Ms. Andrea Sheeran
NYSDEC
Division of Environmental Permits
625 Broadway,
Albany, NY 12233-1750

**Re: East River Generating Station Water Withdrawal Initial Permit Application
SPDES Permit # NY0005126**

Enclosed are two (2) copies of the application forms as requested by Michael Holt. Please call me at (212) 460-4005 if you have any questions regarding this submission.

Yours truly,

Richard J. Knob
Senior Scientist
Environment, Health & Safety



JOINT APPLICATION FORM



For Permits/Determinations to undertake activities affecting streams, waterways, waterbodies, wetlands, coastal areas and sources of water withdrawal.

New York State

You must separately apply for and obtain separate Permits/Determinations from each involved agency prior to proceeding with work. Please read all instructions.

US Army Corps of Engineers (USACE)

<p>APPLICATIONS TO 1. NYS Department of Environmental Conservation</p> <p>Check all permits that apply:</p> <table border="0"> <tr> <td><input type="checkbox"/> Stream Disturbance</td> <td><input type="checkbox"/> Coastal Erosion Management</td> </tr> <tr> <td><input type="checkbox"/> Excavation and Fill in Navigable Waters</td> <td><input type="checkbox"/> Wild, Scenic and Recreational Rivers</td> </tr> <tr> <td><input type="checkbox"/> Docks, Moorings or Platforms</td> <td><input checked="" type="checkbox"/> Water Withdrawal</td> </tr> <tr> <td><input type="checkbox"/> Dams and Impoundment Structures</td> <td><input type="checkbox"/> Long Island Well</td> </tr> <tr> <td><input type="checkbox"/> 401 Water Quality Certification</td> <td><input type="checkbox"/> Aquatic Vegetation Control</td> </tr> <tr> <td><input type="checkbox"/> Freshwater Wetlands</td> <td><input type="checkbox"/> Aquatic Insect Control</td> </tr> <tr> <td><input type="checkbox"/> Tidal Wetlands</td> <td><input type="checkbox"/> Fish Control</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Incidental Take of Endangered/Threatened Species</td> </tr> </table> <p><input checked="" type="checkbox"/> I am sending this application to this agency.</p>	<input type="checkbox"/> Stream Disturbance	<input type="checkbox"/> Coastal Erosion Management	<input type="checkbox"/> Excavation and Fill in Navigable Waters	<input type="checkbox"/> Wild, Scenic and Recreational Rivers	<input type="checkbox"/> Docks, Moorings or Platforms	<input checked="" type="checkbox"/> Water Withdrawal	<input type="checkbox"/> Dams and Impoundment Structures	<input type="checkbox"/> Long Island Well	<input type="checkbox"/> 401 Water Quality Certification	<input type="checkbox"/> Aquatic Vegetation Control	<input type="checkbox"/> Freshwater Wetlands	<input type="checkbox"/> Aquatic Insect Control	<input type="checkbox"/> Tidal Wetlands	<input type="checkbox"/> Fish Control		<input type="checkbox"/> Incidental Take of Endangered/Threatened Species	<p>2. US Army Corps of Engineers</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> Section 404 Clean Water Act</p> <p><input type="checkbox"/> Section 10 Rivers and Harbors Act</p> <p><input type="checkbox"/> Nationwide Permit(s) - Identify Number(s):</p> <p>_____</p> <p>_____</p> <p>Preconstruction Notification - <input type="checkbox"/> Y / <input type="checkbox"/> N</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>3. NYS Office of General Services</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> State Owned Lands Under Water</p> <p><input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.)</p> <p><input type="checkbox"/> Docks, Moorings or Platforms</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>4. NYS Department of State</p> <p>Check if this applies:</p> <p><input type="checkbox"/> Coastal Consistency Concurrence</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>
<input type="checkbox"/> Stream Disturbance	<input type="checkbox"/> Coastal Erosion Management																		
<input type="checkbox"/> Excavation and Fill in Navigable Waters	<input type="checkbox"/> Wild, Scenic and Recreational Rivers																		
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<input type="checkbox"/> Tidal Wetlands	<input type="checkbox"/> Fish Control																		
	<input type="checkbox"/> Incidental Take of Endangered/Threatened Species																		

5. Name of Applicant (use full name) Consolidated Edison Company of New York, Inc.		Applicant must be: <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Lessee (check all that apply)
Mailing Address 4 Irving Place, 15th Floor		
Post Office City New York		Taxpayer ID (If applicant is NOT an individual): 13-5009340
State NY Zip Code 10003		
Telephone (daytime) 212-614-3549	Email brownmich@coned.com	

6. Name of Facility or Property Owner (if different than Applicant) East River Generating Station	
Mailing Address 801 E. 14th Street	
Post Office City New York	
State NY Zip Code 10009	
Telephone (daytime) 212-614-3549	Email

7. Contact/Agent Name Paul Manning	
Company Name Consolidated Edison of New York, Inc.	
Mailing Address 4 Irving Place, 15th Floor	
Post Office City New York	
State NY Zip Code 10003	
Telephone (daytime) 212-460-3427	
Email manningp@coned.com	

8. Project / Facility Name East River Generating Station		Property Tax Map Section / Block / Lot Number Block 988 Lot 1	
Project Location - Provide directions and distances to roads, bridges and bodies of waters: West bank of East River between E.14 Street and E.15 Street			
Street Address, if applicable 801 E. 14th Street		Post Office City New York	State Zip Code NY 10009
Town / Village / City New York		County New York	
Name of USGS Quadrangle Map BROOKLYN QUADRANGLE		Stream/Water Body Name East River	
Location Coordinates: Enter NYTMs in kilometers, OR Latitude/Longitude			
NYTM-E	NYTM-N	Latitude 40.727174	Longitude -73.971537

For Agency Use Only	DEC Application Number:	USACE Number:
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JOINT APPLICATION FORM - PAGE 2 OF 2
Submit this completed page as part of your Application.

9. Project Description and Purpose: Provide a complete narrative description of the proposed work and its purpose. Attach additional page(s) if necessary. Include: description of current site conditions and how the site will be modified by the proposed project; structures and fill materials to be installed; type and quantity of materials to be used (i.e., square ft of coverage and cubic yds of fill material and/or structures below ordinary/mean high water) area of excavation or dredging, volumes of material to be removed and location of dredged material disposal or use; work methods and type of equipment to be used; pollution control methods and mitigation activities proposed to compensate for resource impacts; and where applicable, the phasing of activities. **ATTACH PLANS ON SEPARATE PAGES.**

The East River Generating station utilizes water from the East River for cooling. Steam is condensed in the plant's #6 & #7 turbine generators. The water from the east river is also used to cool auxillary equipment. All cooling is through the use of non-contact heat exchangers.

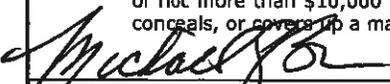
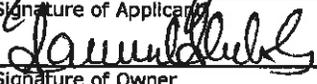
All water taken from the East River is returned to its source.

Proposed Use: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Commercial	Proposed Start Date: N/A	Estimated Completion Date: N/A
Has Work Begun on Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, explain.		
This is an existing facility which has been withdrawing water from the East River for cooling since the 1920's		
Will Project Occupy Federal, State or Municipal Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please specify.		

10. List Previous Permit / Application Numbers (if any) and Dates:
SPDES Permit NY0005126

11. Will this project require additional Federal, State, or Local Permits including zoning changes? Yes No If yes, please list:

12. Signatures. If applicant is not the owner, both must sign the application.
I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or Imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

	Michael C. Brown	Plant Manager	May 29, 2013
Signature of Applicant	Printed Name	Title	Date
	Saumil Shukla	Vice President	May 30, 2013
Signature of Owner	Printed Name	Title	Date
Signature of Agent	Printed Name	Title	Date

For Agency Use Only	DETERMINATION OF NO PERMIT REQUIRED		
_____	Agency Project Number _____		
(Agency Name)	has determined that No Permit is required from this Agency for the project described in this application.		
Agency Representative: Name (printed) _____	Title _____		
Signature _____	Date _____		



New York State Department of Environmental Conservation
Water Withdrawal Application Supplement WW-1

May 2013

Pursuant to 6 NYCRR Part 601: <http://www.dec.ny.gov/regs/4445.html>

READ THE INSTRUCTIONS ON PAGE 2 BEFORE COMPLETING THIS FORM

FOR DEPARTMENT USE ONLY	
Application No.	
WWA Number	

1. **APPLICANT NAME** Consolidated Edison Company of New York, Inc. 2. **FACILITY NAME** East River Generating Station

3. **PROJECT TYPE** Water Withdrawal New Public Water Supply Service Area or Extension
 Land Acquisition for Public Water Supply Change in Use of Existing Water Withdrawal

4. **WATER USE TYPE** Public Water Supply Bottled/Bulk Water Commercial Cooling Industrial
 Institutional Mine Dewatering Oil/Gas Production Power Production Recreational
 Other: _____

5. **WITHDRAWAL TYPE** Existing New If this is an existing public water supply, provide the most recent WSA or WWA Number: _____
If other than public water supply, list other existing or pending related DEC permits (e.g., SPDES, Mining, Dam):
SPDES Permit NY0005126

6. **WATER WITHDRAWAL SOURCE** Surface Water Water Body Name(s) East River
 Groundwater Nearest Surface Water Body _____ Distance From Well _____ (in feet)

7. **WATER SUPPLY TO OTHER STATES** Does this project involve the transport of any fresh water of NYS through pipes, conduits, ditches or canals to any other state?
 No Yes, describe: _____

8. **TRANSPORTATION OF WATER BY VESSEL** Does this project involve the transport by vessel of more than 10,000 gallons per day of surface water? (Excludes ballast water necessary for normal vessel activity. A vessel is defined as any floating craft propelled by mechanical power.) Yes No

9. **WATER WITHDRAWAL AMOUNTS** This project involves the withdrawal of up to: 373,400,000 gallons per day Source Name East River
Does the project include a MAJOR DRAINAGE BASIN TRANSFER of water? See map at <http://www.dec.ny.gov/lands/56800.html> No Yes
If yes, Existing New From Basin 17 Atlantic Ocean - LI Sound To Basin 17 Atlantic Ocean - LI Sound

10. REQUIRED EXHIBITS (6 NYCRR Part 601.10) Provide the names of the required exhibits applicable to this withdrawal:

601.10(a) PROJECT AUTHORIZATION FOR PUBLIC WATER SUPPLY SYSTEMS (e.g. Resolutions, Ordinances)	N/A	601.10(h) ACQUISITION MAPS (Map of any lands to be acquired as part of project)	N/A
601.10(b) GENERAL MAP (e.g. Project Location, For Public Water Supplies - water service area boundary)	ER USGS Map	601.10(i) WATER ANALYSES (Public Water Supplies should submit chemical & bacterial analysis directly to NYSDOH)	N/A
601.10(c) WATERSHED MAPS (Topographic map with location of withdrawal and any return flow or interbasin diversions).	N/A	601.10(j) TREATMENT METHODS (Public Water Supplies - proposed methods to meet NYSDOH standards)	N/A
601.10(d) CONTRACT PLANS (Public Water Supplies should submit directly to NYSDOH for review and approval)	Plan submitted	601.10(k) PROJECT JUSTIFICATION (Provide summary statement of answers to the eight justification questions)	PSS (601.10k)
601.10(e) ENGINEER'S REPORT (Signed by NYS PE, includes project description, water source yields and demands, etc.)	TBD	601.10(l) CANAL WITHDRAWAL APPROVALS (If applicable, provide adequate proof of approval from Canal Authority)	N/A
601.10(f) WATER CONSERVATION PROGRAM (Completed Water Conservation Program Form)	ER wcpfnon	601.10(m) TRANSMITTAL LETTER (Include all contact information for applicant, attorney, engineer, etc.)	Cover Letter
601.10(g) ANNUAL REPORTING FORM FOR EXISTING WITHDRAWALS (Most recent submitted annual report)	ER WWR 2012	601.10(n) GREAT LAKES-ST. LAWRENCE RIVER WATER RESOURCES COMPACT PROCESS REQUIREMENTS (Only applicable to Public Water Supply diversions from Great Lakes Basin - no other diversion types are allowed).	N/A

Clear Form

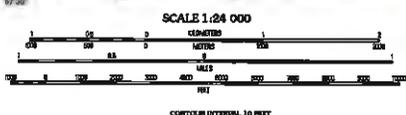
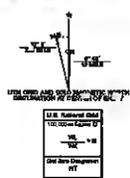
Applicant Signature

Name Michael Brown
Title Plant Manager

Date May 29, 2013



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84), Projection and
1:250,000 scale Universal Transverse Mercator, Zone 18T
10 000-foot false New York Coordinate System of 19-3
Contour Interval 10 Feet



This map was produced in accordance with section 6.8.12 of the
draft USGS Standards for 7.5-Minute Quadrangle Maps.
A resolution file associated with this product is also draft version 0.8.10



ROAD CLASSIFICATION

Interstate Route	State Route	County Route
US Route	Local Road	AKR
Loop	AKR	AKR
Expressway	US Route	State Route

BROOKLYN, NY
2010



DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WATER CONSERVATION PROGRAM FORM
NON-POTABLE WATER SUPPLIES

TO BE COMPLETED AND SUBMITTED AS PART OF A
 NYSDEC WATER WITHDRAWAL PERMIT APPLICATION
 *SEE PAGE 6 FOR FURTHER INTRODUCTION AND INSTRUCTION REGARDING THIS FORM

If your water facility already has its own written water conservation program, you may submit it as a supplement to this WCPF. If your system is new, indicate the water conservation measures that will be taken when the system is completed (e.g. All sources of supply will be 100% metered).

I. GENERAL SYSTEM INFORMATION

Facility Name: East River Generating Station	DEC No. 2-6206-00012
Street Address: 801 E. 14th Street	WWA No.
Post Office Box:	County: New York
	State: New York
	ZIP: 10009
Contact Name: Michael Kessler	
Street Address: 801 E. 14th Street	
Post Office Box:	County: New York
	State: New York
	ZIP: 10009
Applicant's Telephone: 2,126,143,549	Contact's Telephone: 2,126,143,543

II. SOURCES OF WATER SUPPLY

[State capacity and withdrawal in gallons per minute (gpm), gallons per day (gpd), or million gallons per day (mgd).]

Source Type: S = Surface supply, G = Ground supply, P = Purchased supply

Source Status: R = Regular use, S = Standby use, E = Emergency use, I = Inactive, D = Decommissioned

Source Name	Source Type	Source Status	Tested Capacity	Actual Current Withdrawal	Start-up Year
East River (mgd)	S	R	373.4	219	1929

III. WATER SOURCES AND METERING

For unmetered systems, please provide your best estimates for water production and/or consumption.

Are all sources of supply (including major interconnections) equipped with master meters?	No
How often are they read?	n/a
How often are they calibrated?	n/a
Are there secondary meters located within the facility or system?	No If yes, how many?
Describe secondary metering system if applicable:	

Water Production for Calendar Year		
Total metered water production:	79,971,000,000	gallons per year
Average day production (total/days of use):	219,000,000	gallons per day
Maximum day production (largest single day):	371,800,000	gallons per day

What are your future goals and schedule for water metering?
 There are no plans to meter the water utilized from the East River since all of this water is returned. Water withdrawal is calculated using pump run times and pump capacities.

Best Management Practices:

** 100% metering of all sources of water supply.*

** Source and secondary meters must be tested and calibrated annually.*

IV. WATER AUDITING

The process of conducting an audit of a water system will enable the collection of data on how much and where water enters, leaves and is used within a facility or system. Another goal of a water audit is to estimate unaccounted-for water use, which includes: Losses through leaks, improperly-functioning or inoperative system controls and unmetered sources of water. The water audit provides a system with a baseline against which water-conservation measures can be evaluated.

Do you conduct a water audit at least once each year? No If yes, please submit a copy of your latest audit in addition to completing the following section.

** Water Audit for Calendar Year

Total metered water production (from previous section)		Total	79,971,000,000	
Sources of Water Use	Metered or Estimated?			% of Total
Process Water	Metered	subtract		
Cooling Water	Estimated	subtract	79,971,000,000	100
Wash Water		subtract		
Sanitary	Estimated	subtract		
Incorporation into Product		subtract	0	
Irrigation		subtract	0	
Other		subtract		
Other		subtract		
TOTAL UNACCOUNTED-FOR WATER		Sub-total		
Unaccounted-for water breakdown	Meter under-registration	subtract		
	Unrepaired leakage	subtract		
	Other:	subtract		
** Water measurement and accounting techniques are available in NYSDEC's Water Conservation Manual, http://www.dec.ny.gov/lands/39346.html			0	

What are your future goals for water system auditing?

None

Best Management Practices:

** At least once each year, a system water audit must be conducted using metered water production and consumption data to determine unaccounted-for water.*

** Keep accurate estimates of unmetered water use.*

** Quantify all authorized water uses by consumption categories.*

V. LEAK DETECTION AND REPAIR

Do you regularly survey your facility for leakage? No

Are leaks repaired in a timely manner? Yes

If applicable, do you regularly survey underground piping for water leakage? No

Total length of underground piping	Percent of piping surveyed each year	Length of pipe surveyed each year	Listening equipment used	Year of last survey	Number of leaks found	Number of leaks repaired

What are your future goals for water system leak detection and repair?
 Plant operators report leaks which are repaired in a timely manner.

Best Management Practices:

- * Check any underground water distribution systems for leaks each year.*
- * Fix every detectable leak as soon as possible.*
- * Have an on-going system rehabilitation program.*

VI. WATER REUSE, RECYCLING AND DROUGHT PLANNING

Does your facility reuse or recycle primary use water? **No** If yes, describe process:

Does your facility use reclaimed rainwater, storm water runoff or wastewater? **No** If yes, describe process:

Describe any equipment or processes that promote the efficient use of water by your facility:
All water withdrawn is returned to its source

Does your system include storage tanks or ponds to meet short term water demands?
No

Describe any actions that can be taken to reduce water use during times of drought:
All water withdrawn is returned to its source

What are your future goals for recycling or reducing water usage?
All water withdrawn is returned to its source

Best Management Practices:

** Reuse or recycle water whenever possible.*

** Employ efficient irrigation techniques*

** Develop a plan to reduce water use during times of drought.*

VI. SIGNATURE PAGE AND DISCUSSION

Facility Name: East River Generating Station

WWA No.

Signature:



Signatory: Michael Brown

Title: Plant Manager

Date: May 29, 2013

DISCUSSION:

Effective February 15, 2011, New York State Environmental Conservation Law ([§ECL 15-1501](#)) has required that all applications for a NYSDEC [Water Withdrawal Permit](#) include a water conservation program. This Water Conservation Program Form (WCPF) is a required submittal of all such applications.

The WCPF has been set up to cover the following basic elements of a water conservation program: Source Water Inventory, Water Usage and Metering, Water Auditing, Leak Detection/Repair, and Water Use Reduction. The Best Management Practices listed at the bottom of each page represent DEC water conservation policy objectives and should be incorporated into your program development. Additional water conservation measures that are specific to your category of water usage should also be incorporated into your individual program.

Water withdrawal permit applicants can consult the NYSDEC publication entitled "A Survey of Methods for Implementing and Documenting Water Conservation in New York".

The [American Water Works Association \(AWWA\)](#) is also an excellent source of information regarding water conservation practices and procedures. Information ranging from technical manuals to online resources and tools can be found at <http://www.awwa.org>.

Clear Entire Form



New York State Department of Environmental Conservation
 Division of Water, Bureau of Water Resources Management, 625 Broadway, Albany, NY 12233-3508

Water Withdrawal Reporting Form

Due by March 31 each year

Prior to filling out this form please read the instructions on last page
 (This form not for Agricultural Facilities)

Section 1

Facility Name: EAST RIVER GENERATING STATION Facility Street Address: 801 E.14 STREET
 City: NEW YORK Zip: 10009 Town: NEW YORK County: NEW YORK
 Contact Name: Michael Kessler Email: kesslerm@coned.com Telephone: (212) 614-3534

Reporting Year: 2012

Water Withdrawal Category (check one)

- Agricultural
- Bottled / Bulk Water
- Commercial
- Environmental
- Industrial
- Institutional
- Mine Dewatering
- Oil / Gas Production
- Power Production:
 - Fossil Fuel
 - Nuclear
 - Other Pwr:
 - Public Water Supply
- Recreation:
 - Golf Course
 - Snow Making
 - Other Rec:
 - Other:

Source Name:	Source Type:	Well Depth:	Max Rate:	Units
East River	S	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>
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<input type="text"/>	<input type="text"/>	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/> Ft	<input type="text"/>	<input type="text"/>

If an interbasin diversion occurs, check this box and enter information in Section 3

Average Day Withdrawal: 218.5 MGD Maximum Day Withdrawal: 371.8 MGD Permitted Withdrawal: 373.4 MGD

Submitted by: Richard J. Knob Title: Senior Scientist Date: 01/31/2013

If you do not receive a confirmation email, please contact
 AWQRSDDEC@gw.dec.state.ny.us or 518 402-8086.

Reset Form Print Form Submit by Email

Section 3

General Map Required

Please submit a map showing location of all withdrawals and any points of return flow. Label all points. A map is not necessary if one was submitted in a previous year and no changes have occurred. Precise locations will remain confidential.

A paper copy of a USGS map or other high quality map or an electronically generated map can be faxed, mailed, or emailed. For electronic maps a suggested website is described below:

(1) Go to the USGS National Map Site [http://usgs01.srv.mst.edu/store3/digital_download/mapping_ap.jsp].

Type the address of the agricultural facility into the search box.

(2) Zoom in and use any of the map-type choices to best confirm your location.

(3) Designate water withdrawal locations by clicking on the map to add a marker(s)

(4) For surface water withdrawals, use the "Topo" tab.

(5) Add a marker to designate the location of any related dams, weirs, or diversion structures

(6) Print. Manually label the name of each marked source.

Submit your map to DEC in one of the following ways:

• Print and mail or fax to 518 402-8290.

• Print, scan and email to water@dec.state.ny.us

• Copy electronically and email to water@dec.state.ny.us

NOTE: Precise locations will be kept confidential.

Interbasin Diversions

Fill out this section only if water is being transferred between major drainage basins. To determine basin ID, click the link below, highlighted in blue. Enter basin ID where requested. Use drop down menu. Describe location of originating and receiving sites (e.g. Town water intake at north end of Pleasant Lake to southwestern corner of Stony Reservoir near Route 12).

Originating Major Drainage Basin

<http://www.dec.ny.gov/lands/56800.html>

Enter Basin ID here:

Originating Site Description:

Receiving Major Drainage Basin

<http://www.dec.ny.gov/lands/56800.html>

Enter Basin ID here:

Receiving Site Description:

Section 5**Instructions / Definitions**

Agricultural Purpose	The practice of farming for crops, plants, vines and trees, and the keeping, grazing or feeding of livestock, for sale of livestock or livestock products. Agricultural facilities must use the form titled, "Registration and Water Withdrawal Reporting Form for Agricultural Facilities".
Public Water Supply	Supply water to the public. Examples include: municipality, hotel, apartment, restaurant, church, campground, etc.
Source Name	Name of well or surface water body (e.g., Well No. 1, Alcove Reservoir, etc.). List all sources including unused or back-up wells.
Source Type	S = Stream or River. L = Pond or Lake. R = Reservoir. BW = Bedrock Well. UW = Unconsolidated Well (e.g., sand and gravel). SP = Spring. P = Purchased. Use drop down menu.
Well Depth	Total depth in feet below ground surface. Leave blank for surface sources.
Max Rate	Maximum potential withdrawal rate of the water source. Will be equal or greater than Permitted Rate.
Units (Max Rate)	Gallons per minute (gpm), gallons per day (gpd), or million gallons per day (mgd). Use drop down menu.
Average Day Withdrawal	Total amount withdrawn during reporting year divided by total days withdrawn (e.g., for a public water supply 365 million gallons/365 days = 1 mgd).
Maximum Day Withdrawal	Largest single day withdrawal rate of the source during the reporting year.
Permitted Rate	If unknown, contact NYSDEC at AWQRSDFC@gw.dec.state.ny.us or 518-402-8182.
Calculation Method	M = metered readings. W = flow through a weir or flume. P = flow through a pump or pump run time. E = estimated.
Withdrawn	Amount of water removed from all sources.
Transferred/Imported	Amount of water brought in from or sent to another facility, includes bulk sales. For transferred water use a negative sign.
Consumed	Amount of water not returned (e.g. water incorporated into a product or lost through evaporation). Public water suppliers must use metered sales to customers.
Returned	Amount of water discharged to a water treatment system or discharged back to the environment.
Diversions In/Out	Amount of water, if any, diverted from/to another major drainage basin. For Diversions Out, use a negative (-) sign.
Location of Returned Water	State the general area where returned water is discharged. Example: "Hudson River near Poughkeepsie", "Groundwater near Auburn".
Major Drainage Basins	Report only "Major Basin" transfers. Use the internet link available on the form (labeled "Click Here To Determine Basin ID") and enter Basin ID into the box indicated (use drop down menu). Describe the location of originating withdrawal and receiving discharge. Be as specific as possible.
Water Audit	A water audit is a thorough examination of the accuracy of water records and system control equipment to determine water system efficiency and to identify, quantify, and verify water and revenue losses. Water audits are beneficial in identifying the amount of unaccounted-for water.

Project justification: A summary statement in justification of the proposed project using facts and information contained in the applicant's exhibits with specific references thereto, which shows:

(1) why the proposed project was selected from the evaluated alternatives;

The selected method is to use cooling water withdrawn from the East River. The water is passed through a non-contact heat exchanger (condenser) and then returned to the East River.

The alternate method would be to build a cooling tower. The space requirement and opposition from the community for this option make it unfeasible.

This method was previously reviewed by NYSDEC as part of a SPDES permit application and was approved.

(2) why increased water conservation or efficiency measures cannot negate or reduce the need for the proposed water withdrawals;

If a lower volume of water was used the heat rejected from the station would result in an increase in the temperature of the water being returned.

The efficiency of the electric generation is highest when the cooling water temperature is the lowest possible.

For environmental and economic reasons the volume of water cannot be reduced.

(3) why the proposed water withdrawal quantity is reasonable for the proposed use;

Potable water is not needed for this process. Salt water from the East River is adequate for the cooling process.

(4) why the proposed water conservation measures are environmentally sound and economically feasible;

All water withdrawn is returned to its source.

(5) whether the proposed water supply is adequate;

The water supply is adequate.

(6) whether the proposed project is just and equitable to other municipalities and their inhabitants in regards to present and future needs for sources of potable water;



PERMISSION TO INSPECT PROPERTY

By signing this permission form for submission with an application for a permit(s) to the Department of Environmental Conservation ("DEC"), the signer consents to inspection by DEC staff of the project site or facility for which a permit is sought and, to the extent necessary, areas adjacent to the project site or facility. This consent allows DEC staff to enter upon and pass through such property in order to inspect the project site or facility, without prior notice, between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday. If DEC staff should wish to conduct an inspection at any other times, DEC staff will so notify the applicant and will obtain a separate consent for such an inspection.

Inspections may take place as part of the application review prior to a decision to grant or deny the permit(s) sought. By signing this consent form, the signer agrees that this consent remains in effect as long as the application is pending, and is effective regardless of whether the signer, applicant or an agent is present at the time of the inspection. In the event that the project site or facility is posted with any form of "posted" or "keep out" notices, or fenced in with an unlocked gate, this permission authorizes DEC staff to disregard such notices or unlocked gates at the time of inspection.

The signer further agrees that during an inspection, DEC staff may, among other things, take measurements, may analyze physical characteristics of the site including, but not limited to, soils and vegetation (taking samples for analysis), and may make drawings and take photographs.

Failure to grant consent for an inspection is grounds for, and may result in, denial of the permit(s) sought by the application.

Permission is granted for inspection of property located at the following address(es):

801 E. 14 Street, New York, NY 10009

*By signing this form, I affirm under penalty of perjury that I am authorized to give consent to entry by DEC staff as described above. I understand that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.**

Michael C. Brown, Plant Mgr

Print Name and Title

Handwritten signature of Michael C. Brown in black ink.

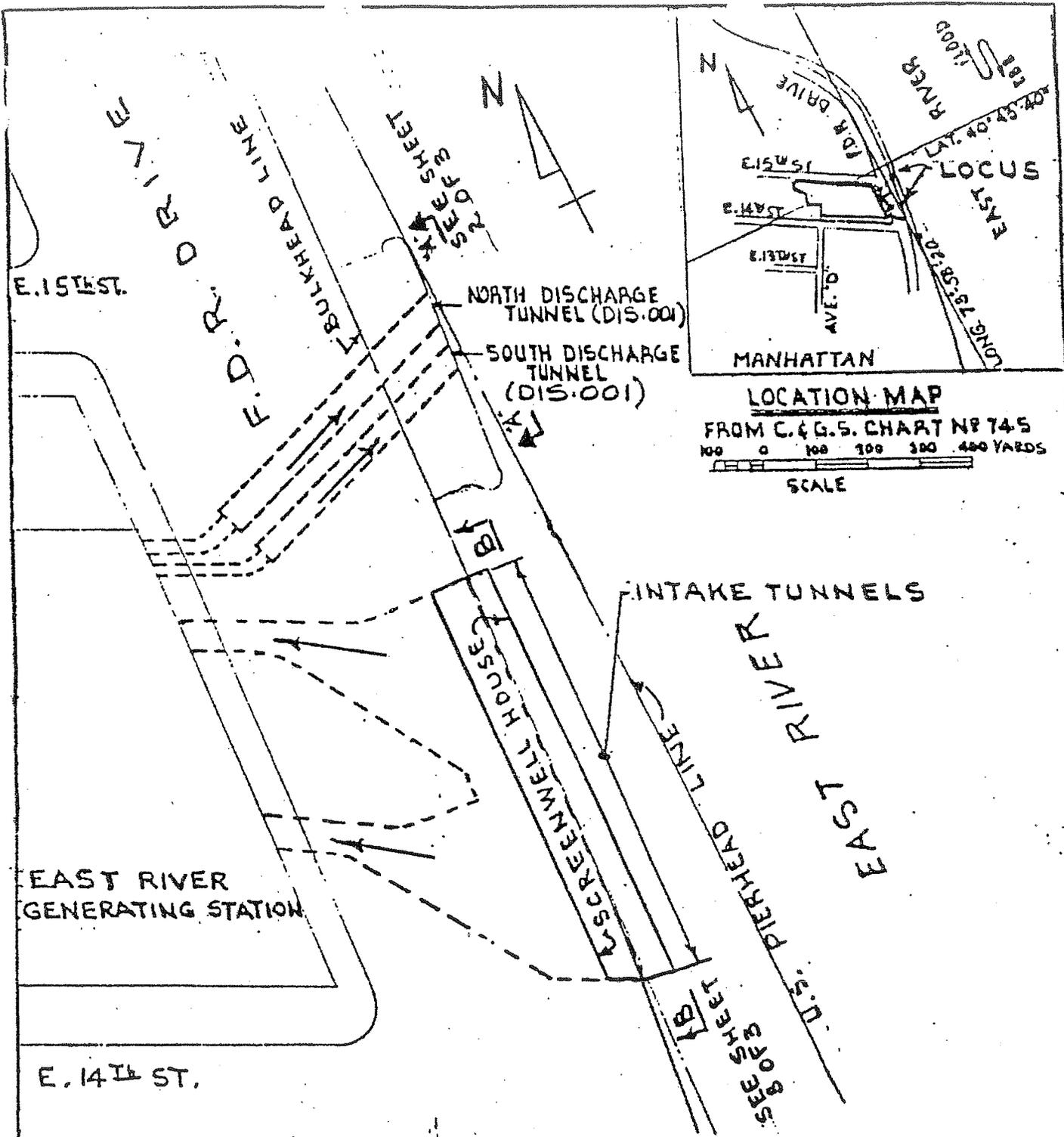
Signature

May 29, 2013

Date

*The signer of this form must be an individual or authorized representative of a legal entity that:

- owns fee title and is in possession of the property identified above;
- maintains possessory interest in the property through a lease, rental agreement or other legally binding agreement; or
- is provided permission to act on behalf of an individual or legal entity possessing fee title or other possessory interest in the property for the purpose of consenting to inspection of such property.



Attachment 2

EAST RIVER GENERATING STATION
 PLAN OF EXISTING DISCHARGE & INTAKE
 TUNNELS AT NEW YORK COUNTY, N.Y.
 APPLICATION BY
 CONSOLIDATED EDISON CO. OF NEW YORK, INC.
 SHEET 1 OF 3

Project justification: A summary statement in justification of the proposed project using facts and information contained in the applicant's exhibits with specific references thereto, which shows:

(1) why the proposed project was selected from the evaluated alternatives;

The selected method is to use cooling water withdrawn from the East River. The water is passed through a non-contact heat exchanger (condenser) and then returned to the East River.

The alternate method would be to build a cooling tower. The space requirement and opposition from the community for this option make it unfeasible.

This method was previously reviewed by NYSDEC as part of a SPDES permit application and was approved.

(2) why increased water conservation or efficiency measures cannot negate or reduce the need for the proposed water withdrawals;

If a lower volume of water was used the heat rejected from the station would result in an increase in the temperature of the water being returned.

The efficiency of the electric generation is highest when the cooling water temperature is the lowest possible.

For environmental and economic reasons the volume of water cannot be reduced.

(3) why the proposed water withdrawal quantity is reasonable for the proposed use;

Potable water is not needed for this process. Salt water from the East River is adequate for the cooling process.

(4) why the proposed water conservation measures are environmentally sound and economically feasible;

All water withdrawn is returned to its source.

(5) whether the proposed water supply is adequate;

The water supply is adequate.

(6) whether the proposed project is just and equitable to other municipalities and their inhabitants in regards to present and future needs for sources of potable water;

Potable water is not used.

(7) whether the proposed withdrawal will result in no significant individual or cumulative adverse environmental impacts; and

The withdrawal will not result in adverse environmental impacts. Specially designed rotating screens will filter the withdrawn water so as to minimize the effect on marine life. These screens are the best available technology and have been approved by the NYSDEC

(8) whether the proposed withdrawal will be consistent with all applicable municipal, state and federal laws as well as regional interstate and international agreements.

The withdrawal will be consistent with all applicable regulations. The withdrawal and discharge is permitted by the NYSDEC under a SPDES permit.

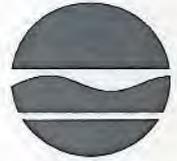
New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, NY 12233-1750

Phone: (518) 402-9167 • Fax: (518) 402-9168

Website: www.dec.ny.gov



Joe Martens
Commissioner

30 August 2013

Richard J. Knob
Senior Scientist – Water
Corporate EHS
4 Irving Place, Room 15 NE
New York, NY 10003

Re: Incomplete Water Withdrawal Application for Initial Permit

Good Day Mr. Knob,

The DEC has reviewed Con Ed's water withdrawal application for an Initial permit. The application has the following deficiencies:

- There are no contract plans included. A plan view of the facility that shows the intake location and its basic design will be sufficient.
- There is no Engineering Report. It needs to be stamped by a P.E. and, at a minimum, include:
 - ✓ A general history and description of the facility including a description of the intake structure design and screening.
 - ✓ A listing of all sources of water including any purchases, sales or transfers.
 - ✓ The existing and projected daily average, daily maximum, and 30 day maximum water demands of the water withdrawal system.
 - ✓ A discussion of how withdrawn water is measured, used within the facility and returned to the source. It should include description of any internal metering, recirculation, water loss and consumptive use.

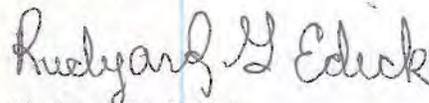
If a recent ER has been submitted as part of the SPDES renewal process and these items are already included, please feel free to provide me with the necessary excerpts.

- There is no Project Justification. It should list out all of the eight questions listed in 601.10k and give individual answers understanding that this is an existing project that has been operating since 1929.

Regarding your water withdrawal application which was found to require additional information (as listed above) in order to be declared complete, the DEC would like to suspend Uniform Procedures Act review of this application given that a Modification of the East River SPDES Permit is anticipated. The water withdrawal permit would then follow the same timeline as the SPDES permit review. This would be consistent with Part 601.7(b)(3) of the Environmental Conservation Law.

According to our recent conversation today, it appears that all but items but the second batch of items, as listed above, have already been provided. If you have any questions or comments, please contact me at (518) 402.9150.

Sincerely,



Rudyard G. Edick
Project Manager

cc: M. Holt
M. Calaban



September 16, 2013

ENGINEERING REPORT

General Description

The East River Steam Generating Station is located at 801 East 14th Street in the Borough of Manhattan and the City of New York, New York. The site consists of Units Nos. 6, 7, 10, and 20 for the production of steam and electricity. Unit No. 6 consists of Boiler No. 60 and Turbine Generator No. 6. Steam from Boiler No. 60 can be extracted for use in the high-pressure turbine for electricity generation in electric mode before supplying the steam send-out system or can be set up to bypass the turbine, supplying steam directly to the steam send-out system. Unit No. 7 is a seasonal unit consisting of Boiler No. 70 and Turbine Generator No. 7. This unit is arranged for either electrical generation or steam send-out. Units Nos. 10 and 20 each consist of a combustion turbine and a 180 MW electrical generator. High temperature exhaust from these Units is routed to two heat recovery steam generators which supply steam to the steam send-out system.

The facility utilizes a once-through system to provide sufficient cooling water to the Unit Nos. 6 and 7 main condensers when operating in electric mode. Water from the East River is pumped into the inlet water boxes and through the tubes of the condensers to reject the heat from the steam exiting the turbines. The circulating water makes a single pass through the tubes and is discharged into outlet water boxes and back to the East River. In addition to the main condensers, the circulating water system also supplies cooling water to service various auxiliary systems within Units Nos. 6 and 7 and provides quenching water for boiler blowdown.

The facility also draws suction from the East River to supply cooling water to its cable cooling system. Three (3) forced cooling plants located within the East River Station facility circulate water to cool the dielectric fluid surrounding three (3) electric feeders. The dielectric fluid is cooled by two (2) freshwater cooling loops "A" and "B", both of which are cooled by river water. River water is pumped to heat exchangers and discharged back to the river upon heat removal from the freshwater loops.

The Unit No. 6 and 7 circulating water pumps (CWPs) take suction from the South Intake Tunnel while the cable cooling pumps withdraw water from the North Intake Tunnel. Both Tunnels are derived from an intake structure comprising eight (8) screenwell bays. Traveling water screens located within five (5) of the screenwell bays are designed to prevent any marine life and/or debris from entering the intake structure. Within the main building, the water is conveyed to the main condensers and distributed to various equipment before discharging back to the river. 100% of the water withdrawn from the East River is returned back to the river.



Intake Structure

Located on the East River Dock is the Screenwell House, which houses eight (8) 10' by 39' high intake bays. The bays are numbered 1 through 8 from North to South. Traveling screens located within Bays Nos. 4, 5, 6, 7, and 8 are designed to prevent any marine life and/or debris contained within the East River from entering the Station's North and South Intake Tunnels and subsequently the Unit Nos. 6 and 7 CWP's and main condensers. The bays with traveling screens are equipped with fixed trash racks upstream that prevent large debris from entering the intake structure. The bay inlets at Bays Nos. 1, 2, and 3 are blocked by timber bulkheads. Presently, four (4) Brackett-Green dual-flow type traveling water screens outfitted with 1/8-inch mesh panels are installed in Bays Nos. 4, 5, 6, and 7. Bay No. 8 contains a newly installed Ristroph type dual-flow traveling water screen. This screen consists of 0.6 mm fine mesh inserts bolted to their wire mesh panels. Each traveling water screen comprise of metal mesh frames linked together and looped around two (2) roller chains. The chains operate vertically, perpendicular to the incoming water flow. Also housed within the Screenwell House are two (2) redundant 100-percent capacity 700 gpm screenwash pumps used to provide spray water to dislodge any marine life and/or debris from the traveling screen mesh panels. The fish/marine debris removed from the traveling water screens are returned to the river via a sluice trough.

To meet the Station's current NYS DEC SPDES permit entrainment and impingement reduction requirements as outlined in Section 2.1, four (4) additional Ristroph type traveling water screens will be installed and replace the existing Bracket-Green traveling screens in Bays Nos. 4, 5, 6, and 7. The new system will also include the retirement of the existing screenwash pumps and installation of three (3) new 100-percent capacity redundant screenwash pumps rated at 3,500 gpm at a total dynamic head (TDH) of 230 ft. A fish return system independent of the existing debris sluice will be added to convey marine life back to the East River. The system will also incorporate relay based electrical controls to provide fully automated control of the traveling screens and screenwash pumps. Construction will take place during the Fall 2013 Station outage.

The outlet of the inlet bays connect directly to the North and South Inlet Tunnels which supply flow to the main building. A total of nine 72-inch diameter sub-floor discharge headers made of cast iron pipe convey flow from the Inlet Tunnels to various sources throughout the Main Building. The headers discharge into either the North or South Discharge Tunnels which are directly connected to the East River.



Circulating Water Pumps

The circulating water systems of Units Nos. 6 and 7 take suction from the East River through the South Intake Tunnel. The Unit No. 6 CWP's each have a rated capacity of 59,200 gpm at a TDH of 22.4 ft. Each pump is driven by a 450 HP, 440VAC, 60Hz, 3 phase totally enclosed electric motor operating at 315 rpm. The discharge of each pump is routed to a common 72-inch diameter sub-floor header, which then conveys cooling water to the Unit No. 6 main condenser. The pumps also provide suction to a saltwater pump via a 24" branch line off the common header. This pump supplies cooling water to various Unit No. 6 auxiliary equipment.

The original design basis requires that both circulating water pumps be in-service during normal operation. There is no flow modulation of the water through the condensers and thus the CWP's are run continuously independent of the electric generating load. The East River Unit No. 6 CWP's are in-service year around except for 4 weeks in the year for maintenance.

The Unit No. 7 CWP's are arranged in the same configuration as the Unit No. 6 units. Each pump has a capacity of 69,000 gpm at 33.57 ft TDH. They are driven by 700 HP, 440VAC, 60 Hz, 3 Phase, totally enclosed, squirrel cage induction motors. The discharge of each pump is routed to a common 72-inch diameter sub-floor header, which conveys cooling water to the Unit No. 7 main condenser. Upstream of the main condenser, a 20-inch line branches off the 72-inch discharge header to provide cooling water to various Unit No. 7 auxiliary equipment.

Both pumps are run simultaneously during normal operation. Unlike the Unit No. 6 pumps, the Unit No. 7 CWP's are not submerged in water. Because of their position above the river level, the pumps require aid from a priming system consisting of dedicated priming tanks and shared redundant vacuum pumps to start-up. Unit No. 7 is a seasonal unit; therefore, the CWP's are only in-service 6 months in the year during the peak electric generating loads from May through October.

Cable Cooling Water Pumps

Two (2) cable cooling water pumps are utilized in the Station to cool redundant freshwater loops labeled "A" and "B". The freshwater loops provide cooling water for feeder cable dielectric oil. The cable cooling pumps, which take suction from the North Intake Tunnel, are single stage, vertical pumps rated at a total defined head of 102 ft at 2,670 gpm. The drivers for the pumps are 100 HP, 230/460 VAC, 60 Hz, 3 phase totally enclosed fan cooled motors. The discharges of each pump supply two (2) plate type heat exchangers associated with each freshwater loop.



Use of Water within the Facility

The primary use of river water at the East River facility is to supply cooling water to the Unit Nos. 6 and 7 main condensers. The circulating water systems are once-through systems, which provide sufficient cooling water to ensure that the main condenser units can operate at maximum capacity while maintaining proper vacuum. 72-inch discharge headers dedicated to each Unit convey flow from the CWP's to their respective condensers. At the condensers, the headers branch into two (2) 54-inch diameter lines that connect to a North and South inlet water box. During initial system start-up, ejectors siphon water to the top tubes of the condensers using auxiliary steam as its motive fluid within these inlet water boxes. After the necessary heat rejection has taken place, the river water in each Unit discharges into two (2) outlet water boxes. The downward movement of the water in the outlet water boxes creates a vacuum, keeping the inlet water boxes filled when flow is established. The Unit No. 6 water boxes connect to two (2) 54-inch outlet pipes, which then combine to a 72-inch discharge pipe to convey the flow from the condenser to the South Discharge Tunnel. Similarly, the Unit No. 7 water boxes connect to two (2) 54-inch outlet pipes, which then combine to a 72-inch discharge pipe to convey the flow from the condenser to the North Discharge Tunnel.

A 24-inch line branches off the 72-inch discharge pipe upstream of the Unit No. 6 main condenser to provide suction to a salt water booster pump. The booster pump, rated at 3,000 gpm at 10 ft TDH, provides sufficient cooling water for various Unit No. 6 auxiliary systems including two (2) fresh water heat exchangers, two (2) hydrogen cooling heat exchangers, and two (2) lube oil heat exchangers. In addition, the pump has the capability to provide quenching water for Boilers Nos. 60 and 70 blowdown. The heated water from the heat exchangers is discharged into the 72-inch discharge header shared by the Unit No. 6 condenser. Overflow from the Unit No. 6 deaerator and discharge from the spent chemical tank and waste water tank also converge into the header via the outlet water boxes.

Upstream of the Unit No. 7 main condenser, a 20-inch suction line branches off the 72-inch header to supply 5,000 gpm of cooling water to two (2) redundant salt water booster pumps. Normal operation has one pump in service with the other pump in stand-by mode. The pumps' discharge header provides cooling water to four (4) hydrogen cooling water heat exchangers, two (2) fresh water recirculating heat exchangers, two (2) lubricating oil heat exchangers, and quenching water for the Boilers Nos. 60 and 70 blowdown system. The heated water from the heat exchangers discharges into the 72-inch discharge header shared by the main condenser and returned to the East River via the North Discharge Tunnel.

North of East River Station at 15th Street reside three (3) cooling plants, which provide cooling water for the dielectric oil surrounding electrical feeders 35Q, M54, and M55. By cooling the



insulation oil, more heat is allowed to be dissipated and the current carrying capability of these feeders is increased. Two (2) freshwater loops "A" and "B" provide redundant sources of cooling water for the oil. Each loop consists of one (1) fresh water pump, (2) two plate type heat exchangers, one (1) saltwater pump, a head tank, and associated instrumentation and controls. After the heat is removed from the oil, freshwater is cycled back through the fresh water pumps to the heat exchangers, where it is cooled by the water supplied from the saltwater pumps. The saltwater pumps, each with a capacity of 2,670 gpm at 102 ft TDH, draw suction from the North Intake Tunnel. The heated river water is discharged back to the East River through the South Discharge Tunnel.

The river water withdrawn is not metered. Rather, the consumption of water in the Station is calculated through the use of pump logs. The operating time of the circulating and cable cooling pumps are recorded daily and computed with known pump capacities to ascertain total flow.

Analysis of Water Conservation Measures

In lieu of the requirements established by the New York State Department of Environmental Conservation (DEC) in an Order on Consent dated December 23, 1992, the company conducted several studies supporting the selection of best technology available (BTA) for the modification of the Station's cooling water intake system to reduce the marine life entrainment and impingement rates. The ensuing investigations identified the utility of variable speed pumps and one pump operation as a potential means to facilitate flow reduction, which would in turn reduce the corresponding percentages of aquatic life entrainment and impingement.

Variable speed motor drives on the CWP's of two operating units would allow an operator to decrease the circulating water flow by operating the pumps at less than full capacity during off-peak electric generating loads. At a percentage of their rated speed, the pumps' capability to overcome the circulating water system resistance would decrease. This reduction in pump head capability would alter the flow characteristics of the downstream auxiliary cooling systems and diminish the Station's cooling capacity to these equipments. Larger booster pumps would be required to compensate for this deficiency. Further, operating the CWP's at less than full capacity would adversely affect the existing condenser siphon systems. The condensers would require an upgrade of their vacuum systems to maintain the condenser water boxes in a flooded state. Continuous flow through the condensers will be contingent upon proper operation and reliability of the vacuum systems.

The use of a single pump would only be feasible on Unit No. 6 during off-peak electric demand months due to the cooling water needs of the auxiliary systems. High lubricating oil temperatures are exhibited during periods of high electric load. Single pump operation may be acceptable



CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.
4 Irving Place
New York NY 10003
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during periods of off-peak electric loads, but is not considered prudent. The Station would operate with a greater risk of tripping the turbine without the redundancy of two (2) pumps.

The studies culminated in a report that was submitted as part of the State Pollutant Discharge Evaluation System (SPDES) permit renewal application for the Station. Circulating water flow reduction was deemed limited because the Station's peak electric load months coincided with an increase in fish egg and larvae density. Due to the projected reductions in yearly entrainment and impingement, the installation of a new Ristroph fish handling system equipped with fine mesh panels gained the most merit, was approved by the DEC, and is currently being implemented as discussed previously.

Rates of Withdrawal

Maximum Instantaneous Rate of Withdrawal – 259,770 Gallons Per Minute

Average Daily Rate of Withdrawal – 218,500,000 Gallons Per Day

Maximum Daily Rate of Withdrawal – 371,800,000 Gallons Per Day

30-Day Maximum Rate of Withdrawal – 11,154,000,000 Gallons Per 30-Days

Approved: _____

[Handwritten signature]
9/17/13

Gary H. Thorn P.E.



NEGATIVE DECLARATION
East River Generating Station
June 1, 2014

Background

The East River Generating Station, located along the East River, contains two units with rated capacities of 137 and 180 megawatts. The facility has a combined flow of condenser cooling water and service water of 369 million gallons per day. The shoreline intake structure consists of a common intake screenwell for the two operating units, leading to four dual flow traveling screens to keep the station's condensers clear. Marine organisms and debris washed off the screens at each unit are returned to a common sluiceway for discharge into the East River.

Ecological Resource

The East River is part of the Hudson-Raritan Estuary System, extending 170 miles from the dam at Troy, NY to Sandy Hook, NJ. The estuary system connects to the coastal marine water of the New York Bight, between Sandy Hook, NJ and Rockaway Point, NY, and to the western end of the Long Island Sound through the East River.

The East River is a tidal strait extending about 16 miles from the battery to Throgs Neck at Long Island Sound. At Hell's Gate, a natural sill divides the strait into two distinct hydrological sections. The upper East River, which connects to Long Island Sound, is broader, more shallow and characterized by more natural shoreline habitat. The Lower East River, where the Station is located, is a narrower 10 mile section, bulkheaded along most of its length. The channel here is steep sided with depths at approximately 35 to 80 feet. Current velocities in this part of the East River are high, with average peak flood and ebb currents at about 4.6-4.7 feet per second, and maximum tidal velocities exceeding 5.5 feet per second (ASA, 2001).

More than 140 species of fish have been reported from the Hudson-Raritan Estuary System, representing marine, estuarine, freshwater and diadromous fish, as well as species adapted to northern and southern climates. Sixty-eight species of fish, mostly marine in origin, have been identified from studies conducted to assess the Station's impact on aquatic resources.

Under a 1992 consent order with the Department, Con Edison conducted a series of studies to assess the Station's impact on aquatic resources in the East River and determine best technology available for the cooling water intake system. Impingement and entrainment studies conducted in 1993. Approximately 455,000 fish were estimated to be impinged that year, mainly bay anchovy, Atlantic herring, Atlantic tomcod and winter flounder. Entrainment studies conducted in 1993 estimated that an average of 48.9 million eggs, larvae and juvenile fish were entrained. The principal species entrained were four beard rockling, bay anchovy, winter flounder, grubby, gobidae and silver hake (Normandeau 1994).

Under this Order-On-Consent, the Department also required: 1) An assessment of the thermal tolerance of impinged fish; 2) A study to investigate the potential to re-impinge fish that are washed off the intake screens and sluiced back to the East River and; 3) A review of cooling water intake structure (CWIS) technologies to determine the best technology available to minimize impingement mortality and entrainment. Although adequate thermal tolerance data for most of the species impinged was lacking, it was concluded that, except for winter flounder, the potential for thermal stress was likely low. This was mainly due to the fact that the impinged fish are returned to the East River about 100 feet from the discharge outfall, and that mixing of the discharge with ambient water prior to exposure probably lowers temperature below thermal tolerance limits.

To determine if returned fish were re-impinged by the CWIS, more than 4,000 marked fish were released to the East River. No marked fish were recaptured, indicating that each of the fish return locations studied would minimize the potential to re-impinge fish. The cooling water intake structure alternative technology review estimated the expected reductions in impingement mortality and entrainment for several viable mitigation alternatives, such as closed cycle cooling, Ristroph modified and wedge wire screens and variable speed pumps. The technology review concluded that cooling towers would have significant noise, visual and land use impacts, and would have significant energy impacts and prohibitively high costs. It was further concluded that the use of flow reduction alternatives that include variable speed pumps could approach the lower end of the performance range contained in the EPA Phase II rule (ASA 2004).

The Department required an impingement mortality and entrainment (IM&E) study to be conducted in 2005-2006. Consistent with other New York Harbor and East River power plants, results of this study indicated a large increase in IM&E from the 1990s abundances. An estimated 1.5 million fish were impinged, with Atlantic croaker, Atlantic tomcod, scup, bay anchovy and Atlantic menhaden making up 84 percent of the total. It was estimated that 1.34 billion fish eggs and larvae were entrained with 92.6 percent being eggs. Cunner, bay anchovy, Atlantic menhaden, weakfish, and tautog were the principle species entrained.

The NYS DEC determined in June 2010 that the modified Ristroph screens with a dedicated low stress fish return system and the seasonal use of fine mesh panels represent the best technology available for minimizing impact. These technologies, coupled with the decrease in flow due to the use of cogeneration during winter, can achieve an estimated 90 percent reduction in impingement mortality and a 75 percent reduction in entrainment from baseline conditions. This is substantially higher reduction than other non closed-cycle cooling alternatives. Although closed-cycle cooling may be a technically feasible alternative, it was rejected due to a combination of high cost and siting issues. However, this decision was part of an earlier modification to the permit and thus not part of this particular negative declaration. It provided for historical context.

Summary of Permit Modifications

The proposed modifications to the SPDES permit for the renewal of the East River Generating Station include:

- Mercury minimization study. Mercury was detected in the effluent at a level of 12.7 ng/l which exceeds the water quality standard of 0.7 ng/l. The study is designed in light of the very low levels detected in this effluent and that the ubiquitous nature of mercury contamination currently makes it impractical for any dischargers to achieve the calculated water quality based effluent limit. Hence, to determine if any on-site sources are influencing mercury concentrations, mercury effluent limits, minimization program, and routine monitoring requirements have been included in the permit. This is in accordance with New York State's mercury multiple discharge variance (MDV) in TOGS 1.3.10. Refer to the MDV for further detail.
- Addition of monitoring for PCBs. For new outfall 004A (which leads from the oil water separator at the transformer yard and ultimately into outfall 004) monitoring for PCBs has been included to address stormwater discharges from the transformer yard. This yard contains older equipment that could contain trace concentrations of PCBs (but have had dielectric fluid drained and replaced with PCB free dielectric fluid). A pollutant minimization program is required.
- A review of the Chlorine limit was accomplished. For total residual chlorine, a daily maximum TRC limit of 100 ug/L is included in the draft permit. The limit was determined by multiplying the water quality standard of 7.5 ug/l by the chronic dilution factor of 13. The dilution used in the calculation is an estimate and would be refined during the next permit review process.
- Biological requirements have been updated to reflect that three studies have now been accomplished and are no longer pending. The Design Construction and Monitoring Plan was approved by the Department in February 2009. The Technology Installation and Operational Plan was approved by the Department in November 2010. The Verification Monitoring Plan was approved by the Department in November 2010.
- Addition of condensate from Stuyvesant Town complex and the Addition of Outfall 04A. The former needs to be identified as a contributing source to Outfall 004 even though it existed previously.

Initial Water Withdrawal Permit

The applicant has applied for an initial water withdrawal permit for the continued withdrawal of up to 374 million gallons per day (GPD) of water for operation of the East River Generating Station. The Department has determined that the Facility is eligible for an Initial Permit under Section 15-1501.9 of the Environmental Conservation Law. Initial Permits are limited to existing facilities for existing water withdrawals over 100,000 GPD which were properly reported to the Department prior to February 15, 2012. Section 15-1501.9 requires the Department to issue Initial Water Withdrawal Permits for the reported volume.

As provided by ECL §15-1501.9 the Department has no discretion but to issue “initial permits” for the amount of the water withdrawals for users that were in operation and properly reported their withdrawals to the Department as of February 15, 2012.

Under these circumstances, the issuance of the water withdrawal permit here is covered by the Type II category for ministerial actions set out in section 617.5(c)(19) of the Department’s SEQR regulations. “Ministerial action” is defined [under the SEQR regulations] as “an action performed upon a given state of facts in a prescribed manner imposed by law without the exercise of any judgment or discretion as to the propriety of the act...” Here, above and beyond the amount of the permitted withdrawal (which is prescribed by statute), the Legislature has restricted the Department’s discretion to the standard form permit and the imposition of sound water conservation measures.. Generally, an action may be deemed ministerial, if it could not have been approved or denied on the basis of SEQR’s broader environmental concerns. The fact that the withdrawal is for an amount that exceeds the Type I threshold does not remove it from the Type II classification. Items on the Type II list under 617.5(c) provide exemptions from SEQRA irrespective of whether the action is also present on the Type I list unless they contain a limitation that the action cannot “meet or exceed any threshold on the Type I list”.

Hence, due to administrative limitations within our public notice system which does not allow for nuance, the Notice will list the combined permit actions (described above) as Type II but this Negative Declaration is written to cover the SPDES modification.

Impact Analysis

As indicated above, the Department is proposing to of the SPDES permit for the East River Generating Station. The changes to the water quality portion of the permit include a new requirement for a mercury minimization study and additional monitoring for PCBs. The chlorine limit has been reviewed with the interim limit remaining at 0.2 mg/L but 0.1 mg/L will become the new limit after 3 years. The biological requirements are updated to reflect the accomplishment of certain studies. In addition, the applicant requested condensate from Stuyvesant Town Complex be included and added Outfall 04A. The Department is proposing these conditions to ensure the facility operates in accordance with 6 NYCRR Part 704.5 and Section 316(b) of Clean Water Act. These regulations require that facility minimize impacts from impingement and entrainment on aquatic organisms from the cooling water intake. SEQR has similar requirements in that a project sponsor must minimize impacts to the maximum extent practicable. However, Best Available Technology has already been determined and these changes unrelated to BAT. The changes represent a tightening of effluent monitoring and waste minimization.

Based on all of the above the Department has determined the proposed action will not have a significant impact on the environment.

New York State Department of Environmental Conservation
Division of Environmental Permits
NYSDEC HEADQUARTERS
625 BROADWAY
ALBANY, NY 12233
(518) 402-9167



June 03, 2014

RICHARD J KNOB
4 IRVING PL RM 15 NE
NEW YORK, NY 10003

Re: DEC ID # 2-6206-00012/00004
CON ED-EAST RIVER GENERATING STATION

Dear Applicant Agent :

Please be advised that your application for a DEC permit(s) is complete and a technical review has commenced. Notice and the opportunity for public comment is required for this application. Enclosed is a Notice of Complete Application for your project. Please have the Notice published in the newspaper identified below once during the week of 06/09/2014 on any day Monday through Friday.

NEWSDAY
2 PARK AVE
NEW YORK, NY 10016

On the Notice of Complete Application, that information presented between the horizontal lines, on the enclosed page(s) should be published. Do not print this letter or the information contained below the second horizontal line. Please request the newspaper publisher to provide you with a Proof of Publication for the Notice. Upon receipt of the Proof of Publication promptly forward it to this office. You must provide the Proof of Publication before a final decision can be rendered on your application. You are responsible for paying the cost of publishing the Notice in the newspaper.

Notification of this complete application is also being provided by this Department in the NYSDEC Environmental Notice Bulletin.

This notification does not signify approval of your application for permit. Additional information may be requested from you at a future date, if deemed necessary to reach a decision on your application. Your project is classified major under the Uniform Procedures Act. Accordingly, a decision is due within 90 days of the date of this notice unless a public hearing is held, which may extend this time frame. If a public hearing is necessary, you will be notified.

If you have any questions please contact me at the above address or phone number above.

Sincerely,

A handwritten signature in blue ink that reads "Rudyard G Edick".

RUDYARD G EDICK
Division of Environmental Permits

THIS IS NOT A PERMIT



**New York State Department of Environmental Conservation
Notice of Complete Application**

Date: 06/03/2014

Applicant: CONSOLIDATED EDISON COMPANY OF NEW YORK INC
4 IRVING PL
NEW YORK, NY 10003-3502

Facility: CON ED-EAST RIVER GENERATING STATION
701-827 E 14TH ST
NEW YORK, NY 10009

Application ID: 2-6206-00012/00004

Permits(s) Applied for: 1 - Article 15 Title 15 Water Withdrawal Non-public
1 - Article 17 Titles 7 & 8 Industrial SPDES - Surface Discharge

Project is located: in NEW YORK COUNTY

Project Description:

The applicant has applied for an initial water withdrawal permit for the continued withdrawal of up to 374 million gallons per day (GPD) of water for operation of the East River Generating Station. The Department has determined that the Facility is eligible for an Initial Permit under Section 15-1501.9 of the Environmental Conservation Law. Initial Permits are limited to existing facilities for existing water withdrawals over 100,000 GPD which were properly reported to the Department prior to February 15, 2012. Section 15-1501.9 requires the Department to issue Initial Water Withdrawal Permits for the reported volume. The existing Article 17 Titles 7 & 8 industrial SPDES permit is being renewed and modified with a new requirement for a mercury minimization study and additional monitoring for PCBs. The chlorine limit has been reviewed with the interim limit remaining at 0.2 mg/L but 0.1 mg/L will become the new limit after 3 years. The biological requirements are updated. In addition, the applicant requested condensate from Stuyvesant Town Complex be included and added Outfall 04A. The Station started operation in the 1920's and has been operating in its current configuration since 2005. No changes in operations are proposed.

The Department has determined that permit renewals, and the issuance of "initial permits" under ECL section 15-1501.9 as implemented by 6 NYCRR 601.7, are Type II actions, and not subject to SEQR.

Availability of Application Documents:

Filed application documents, and Department draft permits where applicable, are available for inspection during normal business hours at the address of the contact person. To ensure timely service at the time of inspection, it is recommended that an appointment be made with the contact person.

State Environmental Quality Review (SEQR) Determination

Project is not subject to SEQR because it is a Type II action.

SEQR Lead Agency None Designated

State Historic Preservation Act (SHPA) Determination

The proposed activity is not subject to review in accordance with SHPA. The permit type is exempt or the activity is being reviewed in accordance with federal historic preservation regulations.

DEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)

It has been determined that the proposed action is not subject to CP-29.

Availability For Public Comment

Comments on this project must be submitted in writing to the Contact Person no later than 07/11/2014 or 30 days after the publication date of this notice, whichever is later.

Contact Person

RUDYARD G EDICK
NYSDEC
625 BROADWAY
ALBANY, NY 12233
(518) 402-9167

CC List for Complete Notice

Chief Executive Officer

J. Cryan, RWE

S. Watts, DEP Reg 3

B. Elburn, RWE

P. Kolakowski, DOW Permit Engineer

C. Jamison, CO-BWP Permit Coordinator

M. Josilo, EPA Reg 2

NYC Borough Offices

Community Board Office

NYSDOH District Office

IEC

ENB



ENB Region 2 Completed Applications 06/11/2014

[Region 2 SEQR and Other Notices](#)

[Region 2 SPDES Renewals](#)

New York County

Applicant:

Consolidated Edison Company of New York Inc
4 Irving Pl
New York, NY 10003 -3502

Facility:

Con Ed-East River Generating Station
701-827 E 14TH St
New York, NY 10009

Application ID:

2-6206-00012/00004

Permit(s) Applied for:

Article 17 Titles 7 & 8 Industrial SPDES - Surface Discharge
Article 15 Title 15 Water Withdrawal Non-public

Project is Located:

Manhattan, New York County

Project Description:

The applicant has applied for an initial water withdrawal permit for the continued withdrawal of up to 374 million gallons per day (GPD) of water for operation of the East River Generating Station. The Department has determined that the Facility is eligible for an Initial Permit under Section 15-1501.9 of the Environmental Conservation Law. Initial Permits are limited to existing facilities for existing water withdrawals over 100,000 GPD which were properly reported to the Department prior to February 15, 2012. Section 15-1501.9 requires the Department to issue Initial Water Withdrawal Permits for the reported volume. The existing Article 17 Titles 7 & 8 industrial SPDES permit is being renewed and modified with a new requirement for a mercury minimization study and additional monitoring for PCBs. The chlorine limit has been reviewed with the interim limit remaining at 0.2 mg/L but 0.1 mg/L will become the new limit after 3 years. The biological requirements are updated. In addition, the applicant requested condensate from Stuyvesant Town Complex be included and added Outfall 04A. The Station started operation in the 1920's and has been operating in its current

configuration since 2005. No changes in operations are proposed.

The Department has determined that permit renewals, and the issuance of "initial permits" under ECL section 15-1501.9 as implemented by 6 NYCRR 601.7, are Type II actions, and not subject to SEQR.

Availability of Application Documents:

Filed application documents, and Department draft permits where applicable, are available for inspection during normal business hours at the address of the contact person. To ensure timely service at the time of inspection, it is recommended that an appointment be made with the contact person.

State Environmental Quality Review (SEQR) Determination:

Project is not subject to SEQR because it is a Type II action.

SEQR Lead Agency: None Designated

State Historic Preservation Act (SHPA) Determination:

The proposed activity is not subject to review in accordance with SHPA. The permit type is exempt or the activity is being reviewed in accordance with federal historic preservation regulations.

Coastal Management:

This project is not located in a Coastal Management area and is not subject to the Waterfront Revitalization and Coastal Resources Act.

Opportunity for Public Comment:

Comments on this project must be submitted in writing to the Contact Person no later than *Jul 11, 2014*.

Contact:

Rudyard G Edick
NYSDEC Headquarters
625 Broadway
Albany, NY 12233
(518)402-9167
deppermitting@dec.ny.gov

Richmond County

Applicant:

Oleg Kartsev

Facility:

Oleg Kartsev 419 Hunter Ave B 3722 L 36
419 Hunter Ave

47-40 21st St
Long Island City, NY 11101
(718)482-4997
dep.r2@dec.ny.gov

[Region 2 SEQR and Other Notices](#)
[Region 2 SPDES Renewals](#)



Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York NY 10003
www.conEd.com

June 17, 2014

Mr. Rudyard Edick
NYSDEC
Division of Environmental Permits
625 Broadway
Albany, NY 12233

**Re: DEC ID # 2-6206-00012/00004
Con Ed - East River Generating Station
Con Edison Company of New York, Inc.**

Dear Mr. Edick:

Good morning. The enclosed proof of publication for the draft SPDES Permit for Con Edison's East River Generating Station is being submitted to you in accordance with 6 NYCRR Part 621. This publication occurred on June 12, 2014 in Newsday. The original document was sent via FEDEX today.

Please feel free to call me at (212) 460-4005 if you have any questions or if you need any additional details.

Very Truly,

A handwritten signature in blue ink that reads 'Richard J. Knob'.

Richard J Knob
Senior Scientist
EH&S Environmental Management

Cc:

Mr. Paul Kolakowski, PE, NYSDEC
Mr. Selvin Southwell, PE, NYSDEC
Mr. Michael Kessler, Con Edison

NEWSDAY

AFFIDAVIT OF PUBLICATION

Legal Notice No. 17274172

STATE OF NEW YORK

FGI DESIGN
248 WEST 35TH STREET - SUITE 402
NEW YORK NY 10001

SS:

COUNTY OF SUFFOLK

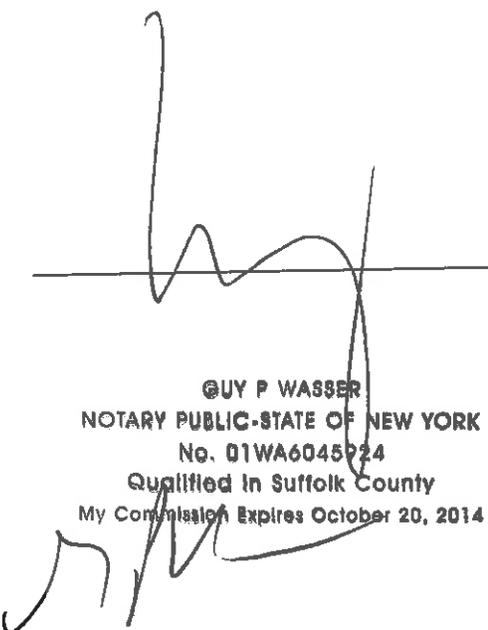
R. Lopes of Newsday, LLC. ("Newsday") being duly sworn, says that such person is, and at the time of publication of the annexed Notice was, a duly authorized custodian of records of Newsday, LLC, the publisher of Newsday, a newspaper published in the Counties of Suffolk, Nassau, Queens, and elsewhere in the State of New York and other places, and that the Notice (a copy of which is annexed hereto), was published in the following editions/counties of Newsday, as indicated by the initial in the box:

Nassau Suffolk Queens

on the following date(s):

June 12th 2014

SWORN to before me this
16th Day of June, 2014


GUY P WASSER
NOTARY PUBLIC-STATE OF NEW YORK
No. 01WA6045924
Qualified in Suffolk County
My Commission Expires October 20, 2014

s sizzle.
 usan said that sushi steadily
 pts for 12 to 15 percent of
 at Blackstone, providing an
 ative for diners not primed
 meat unless it's tuna.
 percentage is up to 25
 nt at Cirella's, a primarily
 i restaurant that also offers
 ni menu. "We hope to get it
 50 percent," said owner
 Cirella.
 got the idea when, traveling in
 Valley, he entered a gas station
 and a sushi counter there. The
 menu started in 2004 at the
 's in Saks Fifth Avenue at Walt
 nan Shops, and expanded to
 rella's separate restaurant
 years ago.
 e's a look at the four Route
 allengers.



so, nasturtium, white grapes

and to earn four stars.
 toro and chu toro, or fatty and
 fish. In addition to traditional
 Hiroki Tanii prepare
 fish liver with sea urchin and
 d tuna tataki finished with a
 ough to offer a spicy tuna roll
 taste of the fish.

ACROSS THE ISLAND, BIO

"Dads Eat For \$4.99 On Father's Day!!"



Purchase one sandwich or entrée at regular price in Ben's dining room and Dad may select his sandwich or entrée of equal or lesser value for \$4.99!

Each \$4.99 sandwich or entrée for Dad requires a separate regular priced sandwich or entrée purchase. Not available for takeout. May not be combined with any other coupon, discount or offer.

Big Ben Burger

A half lb. of fresh ground beef, served with lettuce, tomato, onion rings, grilled pastrami & chipotle mayo. Served with fresh-cut fries \$13.99

Catering For Everyone

- from \$99.99 Family Dinner for 6
- \$149.90 Party Platter Plus for 10
- \$189.90 Do-It-Yourself BBQ for 10
- \$359.80 Housewarming Buffet for 20

Gift & eGift Cards

Instant delivery with eGift Cards or send a Ben's Gift Card packaged in a handsome holder. Order online at www.bensdeli.net.

Call for details, or visit us online at www.bensdeli.net

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Featuring

New York State Department of Environmental Conservation Notice of Complete Application

DATE: June 3, 2014

APPLICANT: CONSOLIDATED EDISON COMPANY OF NEW YORK INC.
 4 IRVING PL, NEW YORK, NY 10003-3502

FACILITY: CON ED - EAST RIVER GENERATING STATION
 701-827 E 14TH ST
 NEW YORK, NY 10009

APPLICATION ID: 2-6206-00012/00004

PERMIT(S) APPLIED FOR: 1 - Article 15 Title 15 Water Withdrawal Non-public
 1 - Article 17 Titles 7 & 8 Industrial SPDES - Surface Discharge

PROJECT IS LOCATED: in NEW YORK COUNTY

PROJECT DESCRIPTION: The applicant has applied for an initial water withdrawal permit for the continued withdrawal of up to 374 million gallons per day (GPD) of water for operation of the East River Generating Station. The Department has determined that the Facility is eligible for an Initial Permit under Section 15-1501.9 of the Environmental Conservation Law. Initial Permits are limited to existing facilities for existing water withdrawals over 100,000 GPD which were properly reported to the Department prior to February 15, 2012. Section 15-1501.9 requires the Department to issue Initial Water Withdrawal Permits for the reported volume. The existing Article 17 Titles 7 & 8 industrial SPDES permit is being renewed and modified with a new requirement for a mercury minimization program and additional monitoring for PCBs. The chlorine limit has been reviewed with the interim limit remaining at 0.2 mg/L but 0.1 mg/L will become the new limit after 3 years. The biological requirements are updated. In addition, the applicant requested condensate from Stuyvesant Town Complex be included and added Outfall 04A. The Station started operation in the 1920's and has been operating in its current configuration since 2005. No changes in operations are proposed.

The Department has determined that permit renewals, and the issuance of "initial permits" under ECL section 15-1501.9 as implemented by 6 NYCRR 601.7, are Type II actions, and not subject to SEQR.

AVAILABILITY OF APPLICATION DOCUMENTS: Filed application documents, and Department draft permits where applicable, are available for inspection during normal business hours at the address of the contact person. To ensure timely service at the time of inspection, it is recommended that an appointment be made with the contact person.

STATE ENVIRONMENTAL QUALITY REVIEW (SEQR) DETERMINATION: Project is not subject to SEQR because it is a Type II action.

SEQR LEAD AGENCY: None Designated

STATE HISTORIC PRESERVATION ACT (SHPA) DETERMINATION: The proposed activity is not subject to review in accordance with SHPA. The permit type is exempt or the activity is being reviewed in accordance with federal historic preservation regulations.

DEC COMMISSIONER POLICY 29, ENVIRONMENTAL JUSTICE AND PERMITTING (CP-29): It has been determined that the proposed action is not subject to CP-29.

AVAILABILITY FOR PUBLIC COMMENT:
 Comments on this project must be submitted in writing to the Contact Person no later than 07/11/2014 or 30 days after the publication date in the Albany Journal whichever is later.

CONTACT PERSON:
 RUDYARD G EDICK
 NYSDEC
 625 BROADWAY
 ALBANY, NY 12233
 (518) 402-9167



Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York NY 10003
www.conEd.com

July 10, 2014

Mr. Rudyard Edick
Division of Water
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-3505

**Re: DEC ID # 2-6206-00012/00004
Con Ed East River Generating Station
Con Edison Company of New York, Inc.**

Dear Mr. Edick:

Consolidated Edison Company of New York, Inc. ("CECONY" or "Con Edison") welcomes the opportunity to provide comments on the East River Generating Station draft SPDES permit NY 0005151, released June 12, 2014.

Con Edison's comments relate to administrative corrections, clarification of the tank drain protocol, the short term mercury monitoring program proposal, the PCB minimization plan sampling requirements, PCB limits, and the biological monitoring requirements.

If you have any questions regarding this submission, please call me at (212) 460-4005.

Yours truly,

Richard J. Knob
Senior Scientist
EH&S Environmental Management

Cc:

Mr. Paul Kolakowski, PE, NYSDEC
Mr. Chuck Nieder, NYSDEC
Mr. Selvin Southwell, PE, NYSDEC
Michael Kessler, Con Edison

Con Edison Comment Number 1

Topic: Miscellaneous Information Correction

Page 1 of 25

Permittee Name and Address

Replace Paul Manning with Jimena Ibanez.

DMR Mailing Address - Responsible Official or Agent

Replace Rick Knob with Greg Pryor - Senior Scientist.
Change phone number from (212) 460-4005 to (212) 460-2262.

Page 4 of 25 (Outfalls 01A and 01H)

The sample type indicated for Oil and Grease for outfalls 01A and 01H is shown as "Quarterly." Con Edison assumes this a typo and requests that the sample type be changed to "Combined."

The sample type indicated for Total Suspended Solids for Outfalls 01A and 01H is shown as "Grab." Con Edison requests that the sample type be changed to "Combined," due to Outfalls 01A and 01H sampling configuration.

Page 8 of 25 (Outfall 004 and 04A-flow sample type)

The sample flow type method for Outfalls 004 and 04A is performed utilizing calculation based methods. Con Edison requests the flow type for Outfalls 004 and 04A be changed to "Calculated."

Page 15 of 25 (BTA Determination Schedule of Compliance)

The boxed text under the Best Technology Available Determination schedule of compliance is duplicated. Con Edison requests that the extra text be removed.

Page 10 of 25 (Tank Drain Protocol)

Con Edison understands that the tank testing protocol does not apply to tanks known to be PCB free and assumes that filters of 50 microns or less are not required when draining PCB free tanks. Based on this understanding, Con Edison requests the following revised sentence be included in the protocol "All tanks not determined to be PCB free must be drained through a filter of 50 microns or less, ~~regardless of sampling be required or not~~".

Con Edison Comment Number 2

Topic: Special Conditions-Mercury Minimization Program and establishment of sampling frequency and effluent limits for mercury at Outfall 002

Pages 6 & 7 of 25 (Outfall 002 mercury limit)

Con Edison understands and appreciates the Department's efforts to reduce mercury discharges to the waters of the state. However, wastewater discharged from Outfall 002 is primarily comprised of storm water and East River surface water infiltration, steam condensate, and periodic discharge of city water from fire protection systems. Based on the components of the discharge, Con Edison proposes an alternate approach that would not impose unnecessary costs to our rate payers. The use of a short term

monitoring program as outlined in TOGS 1.3.10 allows for permittees to determine the presence or absence of mercury by demonstrating five rounds of intake, influent, and effluent sampling using USEPA Method 1631. The implementation of a short term sampling plan would be a more appropriate approach prior to implementation of permit effluent conditions. As the TOGS manual indicates, the Department does not expect every discharge to consistently achieve non-detection at the minimum detectable level of 0.2 ng/L. Therefore, establishing a larger sample group would provide a more representative discharge analysis to determine if mercury is present at Outfall 002 and if permit effluent limits are required.

In addition, Con Edison's Steam and Electric Generating Facilities (including East River Generating Station) have eliminated the inventory of mercury containing equipment. Mercury containing switches, thermometers, and equipment have been inventoried, inspected, and removed in order to eliminate the potential of discharge. Corporate procurement specifications and engineering project controls have also been revised to prohibit the future use and purchase of mercury containing materials.

Page 19 of 25 (Mercury Minimization Plan)

As discussed above, mercury containing equipment at Con Edison's Steam and Electric Generating Facilities has been inventoried and removed; thereby reducing the risk of mercury discharge with wastewater from the facility. Also discussed above, was the proposal of a short term monitoring program in lieu of firm permit limits in order to properly evaluate a representative sample group. If the sample results from the short term monitoring plan indicate that the concentration of mercury consistently exceeds the water quality based effluent limits, Con Edison would implement a mercury minimization plan.

Con Edison Comment Number: 3

Topic: PCB Effluent Limit Daily Max 0.001 ng/L and Aroclor ML Daily Max 200 ng/L

Page 8 of 25 (Outfall 04A PCB Maximum Daily Effluent and Practical Quantitation Limits)

Con Edison understands that the proposed Outfall 04A effluent limit and quantitation limit (ML) was determined based on a limited data set to confirm the presence or absence of PCBs discharged from the outfall. Prior to implementing quality monitoring and effluent permit limits, a short term sampling program, or schedule of compliance, should be implemented to attain the required data set to make a comprehensive decision. A schedule of compliance requiring quarterly sampling for PCBs utilizing EPA method 608 should be adequate to analyze the discharge. Based on the information collected from the sampling program, the permit could be modified to include the PCB effluent limits. To date, Con Edison has proactively performed PCB sampling to measure the quality of storm water of discharged from Outfall 04A. The analytical data is provided in the summary table below. The sampling performed was representative of the stormwater discharged from Outfall 04A and the sample results were all non-detectable (less than 65 ng/L PCB).

Sample Date	Sample Point	Results (PCB Totals) ng/L	Proposed ML	EPA Method
12/16/2011	Outfall 004	< 65	200	E608
06/03/2013	Outfall 004	< 65	200	E608
06/03/2013	OWS inlet	<65	-	E608
06/28/2013	OWS Inlet	<65	-	E608
01/06/2014	Outfall 004	<65	200	E608

Based on past sample data, improvements made to the Outfall 04A storm water oil water separator (OWS) system since 2009 to increase retention time and decrease flow allowing for a longer phase separation and oil collection times, and the OWS system quarterly maintenance and cleaning program, the PCB limits and PCB minimization plan are not warranted and impose unnecessary cost to our rate payers.

Con Edison Comment Number 4

Topic: Outfall 04A PCB & TSS Sampling Frequency

Page 8 of 25 (Outfall 04A PCB and TSS Sample Frequency)

Discharge from Outfall 04A consists of storm water and city water for fire suppression testing. Con Edison requests that in line with other Department issued SPDES permits the sample frequency for PCBs be changed from "once/2 weeks" to quarterly. As this is a storm water discharge and permit history indicates no issues with TSS, we request that the TSS sampling frequency be changed to quarterly in line with O&G sampling.

Con Edison requests clarification related to the actual effluent limit being established by this permit. The permit suggests the established effluent limit is 1 pg/L. As the Department is aware there are no approved methodologies which are capable of achieving such a result. Based on discussion with the Department staff, it was explained to Con Edison that the effluent limit of 200 ng/L is based on the methodology limit referenced in the permit. The Department staff further explained that as method technology improved detection levels, the permit effluent limit would be "walked back" towards the 1 pg/L limit.

Con Edison believes that the divergent references within the permit will cause confusion as to when Department notifications are required. To help alleviate the confusion Con Edison recommends the Department incorporate a statement into the permit explaining the Department's intentions.

Con Edison Comment Number 5

Topic: Special Conditions: A. Additional Requirement # 8

Page 12 of 25 (Additional requirements #8)

Con Edison assumes that additional requirement number 8 refers specifically to Outfall 001 and requests that the wording be changed to “8. Samples for monitoring pH shall be collected at the outlet of the discharge tunnel *for outfall 001.*”

Con Edison Comment Number 6

Topic: PCB Minimization Program

Pages 20 & 21 of 25 (Outfall 04A PCB Monitoring)

Based on the information provided in comment number 3, a PCB minimization program should only be implemented if sample results indicate one is warranted.

Con Edison Comment Number 7

Topic: Biological Monitoring Requirements

Page 13 of 25 (Additional Reporting Requirement # 7)

Biological Condition 7.c.i:

Con Edison recommends that this condition be removed from the permit as it is duplicative of Biological Condition 4. Biological Condition 4 requires that the BTA currently installed at the ERGS be monitored for two years to demonstrate compliance with the performance standards established at Biological Condition 5.¹ The results of this study, which include detailed analysis of the cumulative reductions in impingement and entrainment, must be provided to the Department within six months of completion of the study.

Biological Condition 7.c.i requires that a description and detailed analysis of the cumulative reductions in impingement and entrainment be submitted to the Department six months prior to the expiration date of the permit. This condition is satisfied by the required verification monitoring study.

Biological Condition 7.c.ii:

Con Edison recommends that this condition be removed from the permit as it is duplicative of Biological Condition 6. Biological Condition 6, requires that upon completion of the verification monitoring study, if the selected BTA does not achieve the performance goals Con Edison must submit a plan outlining measures to further reduce impingement mortality and/or entrainment losses.

Biological Condition 7.c.ii provides that six months prior to the expiration date of this permit a detailed analysis of technologies and/or operation measures that have the potential to further reduce fish mortality be provided. However, based upon Biological Condition 6, this continued study would only be warranted if upon completion of the

¹ Con Edison is in the process of conducting this two year entrainment and impingement verification monitoring study.

verification monitoring study the Department deems that the performance goal has not been satisfied. Con Edison feels that his condition is repetitive and should be removed.

Natural Resources Defense Council
Sierra Club Atlantic Chapter
Riverkeeper Inc.
Citizens Campaign for the Environment

August 11, 2014

Rudyard G Edick
NYSDEC Headquarters
625 Broadway
Albany, NY 12233
(518) 402-9167
deprmt@gw.dec.state.ny.us

**Re: Consolidated Edison Company of New York, Inc. —
Application for Water Withdrawal Permit for East River Generating Station
(Application ID: 2-6206-00012/00004)**

Dear Mr. Edick:

On behalf of the Sierra Club Atlantic Chapter, the Natural Resources Defense Council, Riverkeeper Inc. and Citizen's Campaign for the Environment please accept the following comments on the above-referenced permit application, which DEC has noticed for public comment,¹ with the comment deadline extended to August 11, 2014.

Consolidated Edison Company of New York, Inc. seeks a permit on behalf of its East River Generating Station Facility for a water withdrawal permit to withdraw up to 373,400,000 GPD of water from the East River in New York harbor. The size of this permit application makes it particularly important that DEC rigorously apply to this application the standards set forth in the agency's own regulations. Nothing less is needed to ensure the protection of the state's water resources and the integrity of DEC's new permitting regime, which was established pursuant to landmark water withdrawal legislation that Governor Cuomo signed two years ago in August 2011.²

¹ http://www.dec.ny.gov/enb/20140611_reg2.html.

² A.5318A-2011, codified at ECL § 15-1501, *et seq.* The legislation was enacted, in large part, to implement the requirements of the Great Lakes-St. Lawrence River Basin Water Resources Compact ("Compact"). The legislation applied key elements of the Compact's decision making standards to all permits issued throughout the state; this includes the Compact's requirement that withdrawals must "incorporate environmentally sound and economically feasible water conservation measures" and "result in no significant individual or cumulative adverse impacts to the quantity or quality of" the waters and water-dependent resources in the source watershed. *See* Compact, ECL § 21-1001, Section 4.11.2. Therefore, even though the East River Generating Station's water withdrawal is not within the Great Lakes Basin, DEC's application of the water withdrawal law's permitting standards will set a precedent in regard to New York's implementation of the Compact

Based on our review of the public notice and application materials, it is clear that DEC cannot lawfully approve the permit application without further review and analysis.

In order for this application to proceed lawfully, all potential adverse environmental impacts of increased water withdrawals must be identified; DEC must impose permit terms that avoid or mitigate those adverse impacts; and DEC must impose any further permit conditions needed to ensure that the applicant implements all “environmentally sound and economically feasible” water conservation measures.

Our detailed comments are as follows:

1. Issuance of the proposed permit is not a “ministerial action” and is, therefore, subject to SEQRA review.

DEC regulations expressly provide that an initial permit “includes all terms and conditions of a water withdrawal permit, including environmentally sound and economically feasible water conservation measures to promote the efficient use of supplies.”³ To comply with this provision, DEC must determine, *inter alia*, what measures constitute the “environmentally sound and economically feasible” water conservation measures for the activities covered by an initial permit application, and must include provisions in the permit requiring implementation of such measures.

Further, the water withdrawal permitting law and regulations provide a definition of “environmentally sound and economically feasible water conservation measures” to guide this analysis. Specifically, a permit must ensure implementation of:

those measures, methods, technologies or practices for efficient water use and for reduction of water loss and waste or for reducing a withdrawal, consumptive use or diversion that:

- (1) are environmentally sound;
- (2) reflect best practices applicable to the water use sector;
- (3) are technically feasible and available;
- (4) are economically feasible and cost effective based on an analysis that considers direct and avoided economic and environmental costs; and
- (5) consider the particular facilities and processes involved, taking into account the environmental impact, age of equipment and facilities involved, the processes employed, energy impacts and other appropriate factors.⁴

These provisions make it unmistakably clear that the issuance of an initial permit is not a mere

standards.

³ 6 NYCRR § 601.7(e). All water withdrawal permits must ensure implementation of a water conservation program that “incorporate[s] environmentally sound and economically feasible water conservation measures.” ECL § 15-1503(f). The applicant is required to submit a proposed water conservation program to DEC for review, so that the permit can be conditioned on implementing the elements of an approved program. The burden is on the applicant to demonstrate that its water conservation program meets the legal standard. 6 NYCRR §§ 601.10(f), (k)(4) and 601.11(c)(7).

⁴ ECL § 15-1502(9); 6 NYCRR § 601.2(g).

“ministerial action” — which ordinarily would be exempt from SEQRA review as a Type II action.⁵ DEC regulations define a ministerial action as one that is “performed upon a given state of facts in a prescribed manner imposed by law without the exercise of any judgment or discretion as to the propriety of the act...”⁶ While the state’s water withdrawal permitting law does provide that DEC “shall” issue an initial permit to an eligible applicant, the law is equally clear, as reflected in the provisions cited above, that such permit must include, *inter alia*, terms and conditions specifying the water conservation measures that the permittee must implement.⁷ Therefore, DEC must exercise its judgment to determine which water conservation measures, precisely, are required in the context of any given permit, pursuant to the criteria set forth above. Such an exercise of judgment, by definition, is not ministerial in nature.

Since the proposed permit is not a ministerial action, DEC’s determination in the public notice that the permit “is not subject to SEQRA because it is a Type II action” is incorrect. The permit cannot proceed until DEC has completed the necessary SEQRA review.

Due to the size of the East River Generating Facility’s water withdrawal, the permit application is, in fact, a “Type I” action. DEC’s SEQRA regulations specifically provide that “a project or action that would use ground or surface water in excess of 2,000,000 gallons per day” is a Type I action.⁸ As a Type I action, the application is “likely” to require the preparation of a full Environmental Impact Statement (EIS).⁹ Before proceeding with the application, DEC must make a determination of significance and, if the activity “may include the potential for at least one significant adverse environmental impact,” require preparation of an EIS.¹⁰

We note that, based on the materials in the application alone it appears that operation of the East River Generating Facility’s water withdrawal system “may have a significant adverse impact” on the environment.¹¹ The application materials explain that the purpose of the water withdrawals is to provide

⁵ 6 NYCRR § 617.5(c)(19).

⁶ 6 NYCRR § 617.2(w) (emphasis added).

⁷ This is true even though DEC must issue an initial permit authorizing a withdrawal up to the maximum capacity the applicant reported to DEC on or before Feb. 15, 2012, as per ECL § 15-1501(9) and 6 NYCRR § 601.7(d). The statute is clear that initial permits are “subject to appropriate terms and conditions as required under this article,” ECL § 15-1501(9) (emphasis added), and, as explained above, DEC’s rules expressly state that “all terms and conditions” of water withdrawal permit, including those related to water conservation requirements, apply equally to initial permits. 6 NYCRR § 601.7(e). As a result, while the initial permit the Astoria Generating Company must specify a maximum authorized withdrawal of 92 MGD, it must also condition the authorization to withdraw any water from the East River on the implementation of environmentally sound and economically efficient water conservation measures to be specified by DEC in the permit, even if – indeed, especially if – the effect of such measures is to maintain withdrawals at a level below the maximum capacity of the system.

⁸ 6 N.Y.C.R.R. § 617.4(b)(6)(ii). In addition, DEC’s SEQRA regulations provide that, to be categorized as Type II, an action must “must . . . (2) not be a Type I action as defined in section 617.4 of this Part.” 6 NYCRR § 617.5(b). Thus, wholly apart from the fact that issuance of initial permits is never a “ministerial action,” issuance of an initial permit for a withdrawal the size of the Astoria Generating Company’s withdrawal cannot be considered a Type II action exempt from SEQRA review, since it is expressly defined as a Type I action.

⁹ 6 NYCRR § 617.4(a).

¹⁰ *Id.* § 617.7(a)(1).

¹¹ ¹¹ See 6 NYCRR § 617.1(c).

cooling water for the facility's cooling system, but do not discuss adverse impacts related to thermal discharges to the river. The materials mention "entrainment and impingement" reduction requirements of the facility's SPDES permit, and state that the Company investigated the utility of variable speed pumps and one pump operation as a potential means to facilitate flow reduction and reduce the percentages of aquatic life entrainment and impingement,¹² but the materials do not discuss the adverse impacts on aquatic life in the estuary related to entrainment and impingement. (See further discussion in point #3 below.) It is not clear from the application materials, however, what the full range of feasible water conservation measures may be, which would help mitigate any such harms (and which are, in any event, necessary for compliance with the water withdrawal law). (See further discussion in point #2 below.)

Therefore, the requirement to evaluate the merits of this application under SEQRA is important both as a precedential matter, with regard to DEC's implementation of the "initial permit" program under the state water withdrawal law, and as a practical matter with regard to protecting the water resources at issue in this application.

2. The permit must specify, and require implementation of, all "environmentally sound and economically feasible" water conservation measures.

As explained in point #1, above, all water withdrawal permits – including "initial permits" – must require the implementation of a water conservation program that includes all "environmentally sound and economically feasible water conservation measures," as that term is defined by law. In order to satisfy this requirement, DEC must address the following issues:

a. The permit must specifically identify, and require continued operation and maintenance of, all existing water conservation measures.

As per DEC regulations,¹³ the maximum daily withdrawal of 373.4 MGD proposed to be authorized in the permit is equal to the tested capacity of the system reported in the application. That amount is significantly higher than the facility's current withdrawals of 219 MGD shown in the application, and is slightly higher the same as the "maximum day production" of 371.8 MGD claimed in the application. The application materials do not identify existing water conservation measures in operation at the plant.

b. The permit must specifically identify, and require implementation of, any additional measures DEC finds to be environmentally sound and economically feasible, based on further evaluation by the applicant.

State law places the burden on the applicant to demonstrate, to DEC's satisfaction, that its proposed water conservation program includes all "environmentally sound and economically feasible conservation measures."¹⁴ Similarly, DEC regulations provide that a water withdrawal permit application must include "an analysis of increased water conservation measures as a means to reduce or

¹² Engineering Report, Sept. 16, 2013, pp. 5-6.

¹³ 6 NYCRR § 601.7(d). See also ECL § 15-1501(9).

¹⁴ *Supra* note 3.

eliminate the need for the proposed source,”¹⁵ and must demonstrate that “increased water conservation or efficiency measures [beyond those proposed by the applicant] cannot negate or reduce the need for the proposed water withdrawals.”¹⁶

While Con Ed’s application materials include some discussion of these topics, there are some potentially very cost-effective measures that were not discussed, and which require further evaluation.¹⁷ Specifically, DEC should require Con Ed to evaluate the feasibility of reducing water flow with closed-cycle cooling at the generating station, and should incorporate any economically feasible measures into the permit’s requirements. Installation of a closed-cycle cooling system would substantially reduce the size of the water withdrawal needed to cool the generating station. (It would also reduce the total thermal discharge from the system back to the river, thereby reducing evaporative losses from the surface waters.)

In connection with this evaluation, DEC should require Con Ed to determine the avoided cost of measures that would reduce water use by its cooling system. These avoided costs may include reduced operating costs of the cooling system (including reduced energy demand for pumping).¹⁸

DEC must then independently evaluate Con Ed’s analyses and determine which measures are environmentally sound and economically feasible. The permit must specifically identify such measures and require their implementation.

c. DEC must determine, with respect to this permit, whether state water withdrawal permitting standards require the use of closed-cycle cooling.

The massive volume of water used by the East River Generating Facility is attributable largely to the fact that it relies on a once-through cooling system. A closed-cycle cooling system would use much less water. Notice of the facility’s March 1, 2012, SPDES renewal application is contained in the same notice as the notice of its water permit application.¹⁹

DEC’s pending evaluation under 6 NYCRR § 704.5 and Section 316(b) of the Clean Water Act, however, will not determine whether closed-cycle cooling is necessary to meet the requirements of the state water withdrawal permitting law, which applies a different legal standard to determine the required

¹⁵ 6 NYCRR § 601.10(e)(3).

¹⁶ 6 NYCRR § 601.10(k)(2).

¹⁷ ¹⁷ The Water Conservation Form submitted as part of the application (at Part VI) states that “Facility is in the process of installing variable speed drives on existing pumps as required by SPDES Permit # NY -0005118 that will allow for reduced water withdrawals under certain operating conditions,” and that the facility’s “goals for reducing future water usage” are “NA.” As described in point #2.c, below, the SPDES permit renewal process does not relieve DEC of its responsibility to identify and include environmentally sound and economically feasible water conservation measures in this permit. Moreover, the scope of the SPDES permit analysis, as described in the application for this permit, does not address the range of potential water conservation measures addressed herein.

¹⁸ See 6 NYCRR § 601.2(g)(4) (providing that determination of economic feasibility of conservation measures must include “consider[ation of] direct and avoided economic and environmental costs” (emphasis added)).

¹⁹ http://www.dec.ny.gov/enb/20140611_reg2.html.

water conservation measures. If DEC determines under Clean Water Act section 316(b) and 6 NYCRR § 704.5 that closed-cycle cooling is required, the question as to the water withdrawal permitting law would be, effectively, moot. However, in the absence of such a determination, DEC is also obliged to determine whether closed-cycle cooling represents an “environmentally sound and economically feasible water conservation measure,” as that term is defined by law.

3. DEC must ensure that there has been sufficient analysis of the potential adverse impacts of the proposed water withdrawal and impose any necessary permit conditions to avoid those impacts.

Unlike the facility’s SPDES permit application, its water withdrawal permit application contains no description of potential adverse impacts of the proposed water withdrawal. To determine whether the withdrawal may cause any significant adverse environmental impacts on the river itself or on downstream users, potential adverse impacts must be identified, and their consequences must be evaluated. (We note that such consequences may relate not only to water quantity, but also to water quality. The East River receives substantial pollution inputs in and around the facility. Reduced water levels in the river would decrease its assimilative capacity for such pollution. Additionally, thermal discharges from the facilities outfalls also adversely affect water quality, both directly (though the adverse effects of temperature on aquatic life) and, potentially, indirectly (through the effects of temperature on the biochemical processes that influence dissolved oxygen levels).

Without further data and analysis, DEC cannot meet its burden to demonstrate that “the proposed project is just and equitable to other municipalities and their inhabitants in regards to present and future needs for sources of potable water” and “the proposed withdrawal will result in no significant individual or cumulative adverse environmental impacts.”²⁰ Likewise, without such data and analysis, DEC cannot make the determinations it is required to make, under 6 NYCRR § 601.11(c), including whether:

- (6) the proposed water withdrawal will be implemented in a manner to ensure it will result in no significant individual or cumulative adverse impacts on the quantity or quality of the water source and water dependent natural resources, including aquatic life[.]

DEC must require Con Ed to provide the necessary data and analysis to determine whether the East River Generating Facility withdrawals may result in significant individual or cumulative adverse impacts on the quality or quantity of water in the East River, on its aquatic life, and on other users of the water body. If DEC determines that such adverse impacts may occur, it must include further conditions in the permit sufficient to avoid such impacts.

²⁰ 6 NYCRR § 601.10(k)(6)-(7). *See also id.* § 601.10(e)(11) (requiring that applications must include “information on rainfall, stream flows and classifications,...other upstream water withdrawals, safe yield analyses or passby flow calculations....”).

* * * * *

Thank you for your consideration of these comments. Please contact the undersigned with any questions.

Sincerely,

/s
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cc (via email):

James Tierney, Asst. Commissioner for Water Resources
Angus Eaton, Director, Bureau of Water Resource Management
Mike Holt, Chief, Water Quantity Management Section

New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, NY 12233-1750

Phone: (518) 402-9167 • Fax: (518) 402-9168

Website: www.dec.ny.gov



Joe Martens
Commissioner

September 27, 2014

To: Interested Parties and Stakeholders:

Re: Response to Public Comments on Application for Initial Water Withdrawal Permit
DEC # 2-6206-00012/00004
East River Generating Station, Consolidated Edison Company of New York, Inc.
Manhattan, New York

Consolidated Edison Company of New York, Inc. submitted application to the New York State Department of Environmental Conservation for an Initial Water Withdrawal Permit for the East River Generating Station water withdrawal System located in Manhattan NY and it was declared complete on Nov 18, 2013. The public comment period for this application ran from June 12 to August 11, 2014. On 10 August 2014, comments were received, as a combined document, from Natural Resources Defense Council, Sierra Club Atlantic Chapter, Riverkeeper Inc, and Citizens Campaign for the Environment. The Department offers these responses to the public comments because of the public interest in the 2011 statutory amendments and 2012 regulatory revision concerning water withdrawals, and in the statutorily required "Initial Permits" that are being issued under the revised regulations.

Comment 1.

Issuance of the proposed permit is not a "ministerial action" and is, therefore, subject to SEQRA review.

DEC regulations expressly provide that an initial permit "includes all terms and conditions of a water withdrawal permit, including environmentally sound and economically feasible water conservation measures to promote the efficient use of supplies."

Further, state law provides a definition of "environmentally sound and economically feasible water conservation measures" to guide this analysis.

Further, the water withdrawal permitting law and regulations provide a definition of "environmentally sound and economically feasible water conservation measures" to guide this analysis. Specifically, a permit must ensure implementation of:

those measures, methods, technologies or practices for efficient water use and for reduction of water loss and waste or for reducing a withdrawal, consumptive use or diversion that:

- (1) are environmentally sound;
- (2) reflect best practices applicable to the water use sector;
- (3) are technically feasible and available;
- (4) are economically feasible and cost effective based on an analysis that considers direct and avoided economic and environmental costs; and
- (5) consider the particular facilities and processes involved, taking into account the environmental impact, age of equipment and facilities involved, the processes employed, energy impacts and other appropriate factors.

These provisions make it unmistakably clear that the issuance of an initial permit is not a mere “ministerial action” — which ordinarily would be exempt from SEQRA review as a Type II action. DEC regulations define a ministerial action as one that is “performed upon a given state of facts in a prescribed manner imposed by law without the exercise of any judgment or discretion as to the propriety of the act...” While the state’s water withdrawal permitting law does provide that DEC “shall” issue an initial permit to an eligible applicant, the law is equally clear, as reflected in the provisions cited above, that such permit must include, *inter alia*, terms and conditions specifying the water conservation measures that the permittee must implement. Therefore, DEC must exercise its judgment to determine which water conservation measures, precisely, are required in the context of any given permit, pursuant to the criteria set forth above. Such an exercise of judgment, by definition, is not ministerial in nature.

Since the proposed permit is not a ministerial action, DEC’s determination in the public notice that the permit “is not subject to SEQRA because it is a Type II action” is incorrect. The permit cannot proceed until DEC has completed the necessary SEQRA review.

Due to the size of the East River Generating Facility’s water withdrawal, the permit application is, in fact, a “Type I” action. DEC’s SEQRA regulations specifically provide that “a project or action that would use ground or surface water in excess of 2,000,000 gallons per day” is a Type I action. As a Type I action, the application is “likely” to require the preparation of a full Environmental Impact Statement (EIS). Before proceeding with the application, DEC must make a determination of significance and, if the activity “may include the potential for at least one significant adverse environmental impact,” require preparation of an EIS.

We note that, based on the materials in the application alone it appears that operation of the East River Generating Facility’s water withdrawal system “may have a significant adverse impact” on the environment. The application materials explain that the purpose of the water withdrawals is to provide cooling water for the facility’s cooling system, but do not discuss adverse impacts related to thermal discharges to the river. The materials mention “entrainment and impingement” reduction requirements of the facility’s SPDES permit, and state that the Company investigated the utility of variable speed pumps and one pump operation as a potential means to facilitate flow reduction and reduce the percentages of aquatic life entrainment and impingement, but the materials do not discuss the adverse impacts on aquatic life in the estuary related to entrainment and impingement. (See further discussion in point #3 below.) It is not clear from the application materials, however, what the full range of feasible water conservation measures may be, which would help mitigate any such harms (and which are, in any event,

necessary for compliance with the water withdrawal law). (See further discussion in point #2 below.)

Therefore, the requirement to evaluate the merits of this application under SEQRA is important both as a precedential matter, with regard to DEC's implementation of the "initial permit" program under the state water withdrawal law, and as a practical matter with regard to protecting the water resources at issue in this application.

Response 1

Environmental Conservation Law 15-1501(9) requires the Department to issue Initial Permits to authorize the continued operation and withdrawal of already-existing water withdrawal facilities for the maximum capacity reported by the applicant to NYSDEC as of February 15, 2012. The "environmentally sound and economically feasible water conservation measures" that the Department may newly impose in an Initial Permit cannot contradict the ability of the applicant to withdraw the amount authorized by the legislature. Part 601.7(e) only authorizes water conservation measures "**to promote the efficient use of supplies**" i.e. "**for efficient water use and for reduction of water loss and waste**" and not those that would result in "reducing a withdrawal, consumptive use or diversion....". This is consistent with a legislatively mandated water withdrawal volume.

These conservation measures do not transform the issuance of initial to discretionary actions (or non-ministerial ones) because the Department's authority to impose water conservation measures is incidental to the requirement of the statute that the Department issues permits for the maximum capacity reported by the applicant as of February 15, 2012.

The new water conservation measures that the Department may require in initial permits include those required by the implementing regulations of the Water Resources Law—filing Annual Water Withdrawal Reports, installing measuring devices on all sources of water supply, and calibrating those devices once a year, 6 NYCRR §§ 601.5, 601.19, 601.20(a)(2)—and other measures that monitor water conservation but do not require a reduction in maximum reported withdrawal capacity.

Comment 2.

The permit must specify, and require implementation of, all "environmentally sound and economically feasible" water conservation measures.

As explained in point #1, above, all water withdrawal permits – including "initial permits" – must require the implementation of a water conservation program that includes all "environmentally sound and economically feasible water conservation measures," as that term is defined by law. In order to satisfy this requirement, DEC must address the following issues:

Response 2

Initial permits do include "environmentally sound and economically feasible water conservation

measures". However, the permit conditions cannot contradict the entitlement to the maximum capacity reported as of February 2012. Under 601.7(e), the Department's discretion to impose water conservation measures is limited to environmentally sound and economically feasible water conservation measures to promote efficient use of supplies and reducing water loss and waste. Even in a water withdrawal for a new water withdrawal facility, the required determination under Part 601.11 does not require that "all" such measures be included. Rather, the regulations state that the Department shall determine that the proposed withdrawal will be implemented in a manner that incorporates environmentally sound and economically feasible water conservation measures.

Comment 2a

- a. The permit must specifically identify, and require continued operation and maintenance of, all existing water conservation measures.**

As per DEC regulations, the maximum daily withdrawal of 373.4 MGD proposed to be authorized in the permit is equal to the tested capacity of the system reported in the application. That amount is significantly higher than the facility's current withdrawals of 219 MGD shown in the application, and is slightly higher the same as the "maximum day production" of 371.8 MGD claimed in the application.

Response 2a

The permit will require the continuation of East River's Water Conservation plan (as presented in its application). Alternative measures need not be as protective as existing measures that are abandoned because it is no longer environmentally sound or economically feasible.

Comment 2b

- b. The permit must specifically identify, and require implementation of, any additional measures DEC finds to be environmentally sound and economically feasible, based on further evaluation by the applicant.**

State law places the burden on the applicant to demonstrate, to DEC's satisfaction, that its proposed water conservation program includes all "environmentally sound and economically feasible conservation measures." Similarly, DEC regulations provide that a water withdrawal permit application must include "an analysis of increased water conservation measures as a means to reduce or eliminate the need for the proposed source," and must demonstrate that "increased water conservation or efficiency measures [beyond those proposed by the applicant] cannot negate or reduce the need for the proposed water withdrawals."

While Con Ed's application materials include some discussion of these topics, there are some potentially very cost-effective measures that were not discussed, and which require further evaluation. Specifically, DEC should require Con Ed to evaluate the feasibility of reducing water flow with closed-cycle cooling at the generating station, and should incorporate any economically feasible measures into the permit's requirements. Installation of a closed-cycle cooling system would substantially reduce the size of the water withdrawal needed to cool the generating station. (It would also reduce the total thermal discharge from the system back to the river, thereby reducing evaporative losses from the surface waters.)

In connection with this evaluation, DEC should require Con Ed to determine the avoided cost of measures that would reduce water use by its cooling system. These avoided costs may include reduced operating costs of the cooling system (including reduced energy demand for pumping).

DEC must then independently evaluate Con Ed's analyses and determine which measures are environmentally sound and economically feasible. The permit must specifically identify such measures and require their implementation.

Comment 2c

c. DEC must determine, with respect to this permit, whether state water withdrawal permitting standards require the use of closed-cycle cooling.

The massive volume of water used by the East River Generating Facility is attributable largely to the fact that it relies on a once-through cooling system. A closed-cycle cooling system would use much less water. Notice of the facility's March 1, 2012, SPDES renewal application in contained in the same notice as the notice of its water permit application.

DEC's pending evaluation under 6 NYCRR § 704.5 and Section 316(b) of the Clean Water Act, however, will not determine whether closed-cycle cooling is necessary to meet the requirements of the state water withdrawal permitting law, which applies a different legal standard to determine the required water conservation measures. If DEC determines under Clean Water Act section 316(b) and 6 NYCRR § 704.5 that closed-cycle cooling is required, the question as to the water withdrawal permitting law would be, effectively, moot. However, in the absence of such a determination, DEC is also obliged to determine whether closed-cycle cooling represents an "environmentally sound and economically feasible water conservation measure," as that term is defined by law.

Response 2b & 2c

Water Conservation conditions beyond those that would promote efficiency and reduce waste or leakage cannot be required in an Initial Permit issued under Part 601.7(e). We note again, the statute and regulation do not require "all" environmentally sound and economically feasible conservation measures. The selection of BTA and the consideration of closed-cycle cooling is the purview of the SPDES permit application.

Comment 3

3. DEC must ensure that there has been sufficient analysis of the potential adverse impacts of the proposed water withdrawal and impose any necessary permit conditions to avoid those impacts.

Unlike the facility's SPDES permit application, its water withdrawal permit application contains no description of potential adverse impacts of the proposed water withdrawal. To determine whether the withdrawal may cause any significant adverse environmental impacts on the river itself or on downstream users, potential adverse impacts must be identified, and their consequences must be evaluated. (We note that such consequences may relate not only to water quantity, but also to water quality. The East River receives substantial pollution inputs in and around the facility. Reduced water levels in the river would decrease its assimilative capacity for such pollution. Additionally, thermal discharges from the facilities outfalls also adversely affect water quality, both directly (though the adverse effects of temperature on aquatic life) and, potentially, indirectly (through the effects of temperature on the biochemical processes that influence dissolved oxygen levels).

Without further data and analysis, DEC cannot meet its burden to demonstrate that "the proposed project is just and equitable to other municipalities and their inhabitants in regards to present and future needs for sources of potable water" and "the proposed withdrawal will result in no significant individual or cumulative adverse environmental impacts."²⁰ Likewise, without such data and analysis, DEC cannot make the determinations it is required to make, under 6 NYCRR § 601.11(c), including whether:

(6) the proposed water withdrawal will be implemented in a manner to ensure it will result in no significant individual or cumulative adverse impacts on the quantity or quality of the water source and water dependent natural resources, including aquatic life[.]

DEC must require Con Ed to provide the necessary data and analysis to determine whether the East River Generating Facility withdrawals may result in significant individual or cumulative adverse impacts on the quality or quantity of water in the East River, on its aquatic life, and on other users of the water body. If DEC determines that such adverse impacts may occur, it must include further conditions in the permit sufficient to avoid such impacts.

Response 3

This is an existing withdrawal; not a proposed new withdrawal facility. The analysis cited above applies to a determination to Issue, Issue with Conditions or Deny a permit for a new or modified facility under Part 601.11 for new or modified permits. Initial permits, by contrast, are not subject to Part 601.11 but are issued under Part 601.7.

Thank you for taking the time to comment on this application. If you have any questions or need further information, please don't hesitate to contact me.

Sincerely,



Rudyard G. Edick

Environmental Analyst II

Division of Environmental Permits

New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, NY 12233-1750

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Website: www.dec.ny.gov



Joe Martens
Commissioner

October 28, 2014

To: Interested Parties and Stakeholders:

Re: Response to Public Comments on Application for SPDES Permit
DEC # 2-6206-00012/00004
East River Generating Station, Consolidated Edison Company of New York, Inc.
Manhattan, New York

Consolidated Edison Company of New York, Inc. submitted application to the New York State Department of Environmental Conservation for an Article 7 & 8 Industrial SPDES permit renewal and modification for the East River Generating Station located in Manhattan NY. The public comment period for this application ran from June 12 to August 11, 2014. The Department offers these responses to the public comments consisting solely of the applicant's 10 July 2014 letter.

Comment 1.

These comments request the following under a miscellaneous category:

- a) On Page 4 of 25 (Outfalls 01A and 01H), sample type for oil and grease is shown as "Quarterly." Request it be changed to "Combined." On Page 4 of 25 (Outfalls 01A and 01H), sample type for TSS is shown as "Grab." Request is be changed to "Combined."
- b) Page 8 of 25 (Outfall 004 and 04A – flow sample type) should be changed to "calculated."
- c) Page 15 of 25 (BTA Determination Schedule of Compliance) contains duplicated text and this extra should be removed.
- d) Page 10 of 25 (Tank Drain Protocol) requests that the following sentence be revised to delete the final phrase, "All tanks not determined to be PCB free must be drained through a filter of 50 microns or less, ~~regardless of sampling be required or not.~~"

Response: DEC concurs with these changes.

Comment 2:

Topic Special conditions-Mercury Minimization Program and establishment of sampling frequency and effluent limits for mercury at outfall 2

- a) On pages 6 & 7 of 25 (outfall 002 mercury limit), DEC should consider an alternate approach involving a short term monitoring program as outlined in TOGS 1.3.10 to determine if mercury is present.
- b) On page 19 of 25 (mercury minimization plan), DEC should consider a plan as necessary only if short term monitoring (described above) determines a presence of mercury.

DEC Response: The DEC concurs with these changes.

Comment 3:

Topic: PCB effluent limit daily max 0.001 ng/L and Aroclor ML daily max 200 ng/L

On page 8 of 25 (Outfall 04A PCB Maximum Daily Effluent and Practical Quantitation Limits), DEC should consider a short term sampling program, or schedule of compliance, to attain the necessary data to determine if PCBs are indeed discharged. The PCB limits and PCB min plan are likely unnecessary based on current data.

DEC Response: DEC Response: Sampling frequency is reduced to once per year and a provision is included that the applicant can petition the DEC to remove the sampling requirement after 5 years of data have been collected. Concerns with PCBs remain given the age and condition of some of the station electrical components.

Comment 4:

Topic: Outfall 04A PCB and TSS Sampling Frequency

On page 8 of 25 (outfall 04A PCB and TSS sample frequency), DEC should consider changing sampling frequency to quarterly. The effluent limit should be changed to 200 ng/L given technology limits and limits can be lowered as technology improves. Also, further clarification is needed as to when notifications are required.

DEC Response: These changes in sampling frequency were made to the permit and language was changed to “compliance level”, were appropriate, so as to clarify when notifications are necessary.

Comment 5:

Topic: Special Conditions: A. Additional Requirement # 8

On page 12 of 25 (additional requirements #8), the wording should specifically site Outfall 001.

DEC Response: The DEC concurs with this response.

Comment 6:

Topic: PCB Minimization Program

On pages 20 and 21 of 25 (Outfall 04A PCB Monitoring), monitoring would only be required if further sampling dictates a need.

DEC Response. Existing Footnote 8 addresses exactly this issue.

Comment 7:

Topic: Biological Monitoring Requirements

On Page 13 of 25 (Additional Reporting Requirement #7), biological condition 7.c.i should be removed as it represents duplication of Biological Condition 4 with the same data provided in the verification monitoring study. Also, biological condition 7.c.ii should also be removed as it is duplicative of Biological Condition 6. Both address a detailed analysis of technologies & operation measures that have the potential to further reduce fish mortality.

DEC Response: DEC agrees to remove Biological Condition 7.c.i. & 7.c.ii as per Con Ed's comment No. 7. Both these conditions were instituted to comply with the former EPA 316(b) Phase II Rule (now remanded) and are no longer relevant, as the station is required to comply with NYCRR 704.5 and with the Department's BTA policy upon SPDES renewal. .

Thank you for taking the time to comment on this application. If you have any questions or need further information, please don't hesitate to contact me.

Sincerely,



Rudyard G. Edick
Environmental Analyst II
Division of Environmental Permits

Biological Fact Sheet - Cooling Water Intake Structure
Bureau of Habitat, Steam Electric Unit

Name of Facility: East River Generating Station
Owner/Operator: Keyspan Corporation
SPDES #: NY-000 5126
Location: Manhattan
New York City
East River

1. Description of Facility

The East River Generating Station, located along the East River, first began operations in 1927. The station currently has two oil and gas fired units, built in 1951 and 1955 with rated capacities of 137 and 180 megawatts. The facility has a combined condenser cooling and service water flow of 369 million gallons per day. The shoreline intake structure consists of a common intake screenwell for the two operating units, leading to four dual flow traveling screens to keep the station's condensers clear. Screens are washed continuously to remove impinged material (marine organisms and debris), which enters a common sluiceway for discharge into the East River.

2. Ecological Resource

The East River is part of the Hudson-Raritan Estuary System which extends approximately 170 miles from the dam at Troy, NY to Sandy Hook, NJ. This estuary system connects to the coastal marine waters of the New York Bight, between Sandy Hook, New Jersey and Rockaway Point, New York, and to the western end of the Long Island Sound through the East River.

The East River is a tidal strait extending about 16 miles from the Battery in New York City to Throgs Neck at Long Island Sound. At Hell's Gate, a natural sill divides the East River into two distinct hydrological sections. The upper East River, which connects to Long Island Sound, is broader, more shallow and characterized by more natural shoreline habitat. The Lower East River, where the East River Generating Station is located, is a narrower 10 mile section, bulkheaded along most of its length. The channel here is steep sided with depths of approximately 35 to 80 feet. Current velocities in the vicinity of the Station are high, with average peak flood and ebb currents at about 4.6-4.7 feet per second, and maximum tidal velocities exceeding 5.5 feet per second (ASA 2001).

More than 140 species of fish have recently been reported from the Hudson-Raritan Estuary System, representing marine, estuarine, freshwater and diadromous fish, as well as species adapted to northern and southern climates. The Department required an impingement mortality and entrainment (IM&E) study to be conducted in 2005-2006. Consistent with other New York Harbor and East River power plants, results of this study indicated a large increase in IM&E from the 1990s abundances. An estimated 1.5 million fish were impinged, with Atlantic croaker,

Atlantic tomcod, scup, bay anchovy and Atlantic menhaden making up 84 percent of the total. It was estimated that 1.34 billion fish eggs and larvae were entrained with 92.6 percent being eggs. Cunner, bay anchovy, Atlantic menhaden, weakfish, and tautog were the principle species entrained.

3. Implementation of Best Technology Available

The New York State Department of Environmental Conservation (NYSDEC) determined that modified Ristroph screens with a dedicated low stress fish return system and the seasonal use of fine mesh panels represent the best technology available for minimizing adverse environmental impacts from the cooling water intake structure. The Department believes that these technologies, coupled with the decrease in flow due to the use of cogeneration during winter, can achieve an estimated 90 percent reduction in impingement mortality and a 75 percent reduction in entrainment from baseline conditions. The modified intake screens equipped with 0.6 mm mesh panels, and a low stress fish return system were installed at both units in 2013.

The use of variable speed pumps or an additional pump will provide small increases in both impingement and entrainment reduction. Requiring one of these technologies is not considered to be necessary at this time but may be re-evaluated as part of a contingency plan to meet performance requirements in the future if the selected BTA does not prove to be sufficient.

4. Monitoring Requirements

The Department approved the TIOP in November 2010, which contains a schedule for implementing the technologies selected as BTA. A Verification Monitoring Plan (VMP) was also approved in November 2010, containing the methodology and procedures necessary to confirm that the reductions in impingement mortality and entrainment required by this permit are being achieved. The requirement for a VMP is set forth in Biological Requirement B.4 of the modified SPDES permit, and includes a five year averaging period for cooling water flow with a minimum of two years of biological sampling to verify performance. Sampling began in early 2014.

5. Legal Requirements

The requirements for the cooling water intake structure in this State Pollutant Discharge Elimination System permit are consistent with the policies and requirements embodied in the New York State Environmental Conservation Law, in particular - Sec.1-0101.1.; 1-0101.2.; 1-0101.3.b., c.; 1-0303.19.; 3-0301.1.b., c., i., s. and t.; 11-0107.1; 11-0303.; 11-0535.2; 11-1301.; 11-1321.1.; 17-0105.17.; 17-0303.2., 4.g.; 17-0701.2. and the rules thereunder, specifically 6NYCRR Part 704.5 and CP-52. Additionally, the requirements are consistent with the Clean Water Act, in particular Section 316(b) and the rules thereunder.

6. Summary of Changes

Permit Condition	Reason for Change
Additional Requirement B.2	The Design Construction Technology Plan was approved by the Department in February 2009.
Additional Requirement B.3	The Technology Installation and Operational Plan was approved by the Department in November 2010.
Additional Requirement B.4	The Verification Monitoring Plan was approved by the Department in November 2010.

7. References

ASA 2003. Evaluation of Cooling Water Intake System Alternatives for Fish Protection at the East River Generating Station Units No. 6 & 7. Phase 1 Report. Prepared for Consolidated Edison Company of New York, Inc. By ASA Analysis & Communication, Inc. October 2003.

ASA 2004. Evaluation of Cooling Water Intake System Alternatives for Fish Protection at the East River Generating Station Units No. 6 & 7. Phase 2 Report. Prepared for Consolidated Edison Company of New York, Inc. By ASA Analysis & Communication, Inc. December 2004.

Brosnan, T.M. and M. O'Shea. 1996. Long Term Improvements in Water Quality Due to Sewage Abatement in the Lower Hudson River. *Estuaries* 19(4): 890-900.

Con. Ed. 1996. East River Generating Station. Diagnostic Study Report. Prepared by Consolidated Edison Company of New York, Inc. Pursuant to the December 23, 1993 Order On Consent in DEC file No. R2-2985-90-04. June 30, 1996.

Con. Ed. 1999. Thermal Tolerance Assessment for East River Generating Station. Prepared by Consolidated Edison Company of New York, Inc. April 1999.

Normandeau Associates. 1994. East River Generating Station, Impingement and Entrainment Report: January Through December 1993. Prepared for Consolidated Edison Company of New York, Inc., by Normandeau Associates, Inc. April 1994.

Normandeau Associates. 2008. Intake Flow and Entrainment Through an Experimental Fine Mesh Intake Screen at East River Generating Station. Prepared for Consolidated Edison Company of New York, Inc., by Normandeau Associates, Inc. R-21359.000. December 2008

Document prepared by Michael J. Calaban, and last revised on November 10, 2014.

New York State Department of Environmental Conservation

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Website: www.dec.ny.gov



Joe Martens
Commissioner

November 21, 2014

Mr. Richard Knob
4 Irving Place
Room 15 NE
New York, NY 1003

Re: DEC #2-6206-00012/00004
SPDES # NY-0005126
DEC #2-6206-00012/00029
WWN # 11,661
FACILITY: East River Gen Facility
Town of Manhattan County: NY

Dear Mr. Knob:

Enclosed please find two permits for your facility: 1) your modified State Pollutant Elimination System (SPDES) Permit which becomes effective on December 1, 2014, and expires on November 30, 2019 and 2) your initial Water Withdrawal Permit which becomes effective on December 1, 2014 and expires on November 30, 2019. Also, included are the Industrial Fact Sheet, the Biological Fact Sheet, and the Response to Comments for both permits.

These Permits contain significant conditions. Hence, per 621.10(a) 1-2, the applicant has a right to an adjudicatory hearing. The applicant may request a hearing by writing to either the regional permit administrator or the chief permit administrator within 30 calendar days of the date of this mailing.

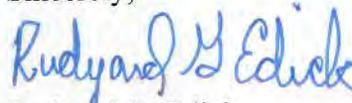
The Article 17 Titles 7 & 8 Industrial SPDES Permit has been renewed and modified to include mercury and PCB monitoring requirements and changes to the chlorine limit and biological requirements along with numerous administrative changes. With your application for an initial water withdrawal permit for the continued withdrawal of up to 374 million gallons per day (GPD) of water for operation of the East River Generating Station, the Department has determined that the Facility is eligible for an Initial Permit under Section 15-1501.9 of the Environmental Conservation Law and issued the enclosed Permit.

Comments on SPDES permit were received from the applicant and are addressed in the enclosed response to comments. Comments on the water withdrawal permit were received on August 10, 2014, in a single document, from Natural Resources Defense Council, Sierra Club Atlantic Chapter, Riverkeeper Inc., and Citizens Campaign for the Environment. Please see the enclosed response to comments which addresses the concerns raised.

Please read all permit conditions carefully. All permit documents must be available upon request by the Department staff as well as distributed to and understood by your personnel responsible for the proper operation of the facility and compliance with the discharge limits. Any violation of these permit conditions constitutes a violation of the Environmental Conservation Law.

Should you have questions regarding either permit, please contact me at the address or phone number listed above. Please refer to the above-referenced numbers when you are corresponding with this office or when you are applying to renew or modify this permit.

Sincerely,



Rudyard G. Edick
Project Manager

cc: J. Cryan, RPA
S. Southwell, RWE
P. Kolakowski, DOW
E. Schmitt, DOW
M. Calaban, DFW&MR
C. Nieder, DFW&MR
C. Jamison, CO-BWP Permit Coordinator
M. Josilo, EPA Reg 2
NYS DOH District Office
Lawrence Levine, NRDC
Roger Downs, Sierra Club Atlantic Chapter
Sarah Eckel, Citizens Campaign for the Environment
Phillip Musegaas, Esq., Riverkeeper, Inc.

Enclosures



PERMIT
Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
CONSOLIDATED EDISON COMPANY OF
NEW YORK INC
4 IRVING PL
NEW YORK, NY 10003-3502
(212) 460-4413

Facility:
CON ED-EAST RIVER GENERATING
STATION
701-827 E 14TH ST
NEW YORK, NY 10009

Facility Location: in NEW YORK COUNTY **Village:** Manhattan
Facility Principal Reference Point: NYTM-E: 586.749 NYTM-N: 4509.032
Latitude: 40°43'39.6" Longitude: 73°58'21.9"

Project Location: West bank of East River between E.14 Street & E.15 Street

Authorized Activity: This permit authorizes the withdrawal of a supply of water up to 373,400,000 gallons per day (GPD) from the East River for once through cooling and other processes related to electrical generation.

Permit Authorizations

Industrial SPDES - Surface Discharge - Under Article 17, Titles 7 & 8

Permit ID 2-6206-00012/00004

Renewal Effective Date: 12/1/2014 Expiration Date: 11/30/2019

Water Withdrawal Non-public - Under Article 15, Title 15

Permit ID 2-6206-00012/00029

Renewal Effective Date: 12/1/2014 Expiration Date: 11/30/2019

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: CHRISTOPHER M HOGAN, Deputy Chief Permit Administrator
Address: NYSDEC HEADQUARTERS
625 BROADWAY
ALBANY, NY 12233

Authorized Signature:

Date 11/21/14



Permit Components

INDUSTRIAL SPDES - SURFACE DISCHARGE PERMIT CONDITIONS

WATER WITHDRAWAL NON-PUBLIC PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

INDUSTRIAL SPDES - SURFACE DISCHARGE PERMIT CONDITIONS

1. Annual Regulatory Fee Permittees are responsible for payment of the annual regulatory fee billed by the Department. Failure to pay can result in imposition of penalties or revocation or suspension of this permit. The permittee is responsible for payment of the fee until the discharge ceases and the permittee requests and receives Department concurrence for termination of coverage under the permit or the Department approves a transfer of the permit to a new permittee.

WATER WITHDRAWAL NON-PUBLIC PERMIT CONDITIONS

1. Approval of Completed Works from NYS P.E. Any new works constructed or modified pursuant to this water withdrawal permit shall be constructed under the general supervision of a person licensed to practice engineering in this state (professional engineer). Upon completion of construction and pre-operational testing, such works may not commence final operation until the professional engineer first certifies in writing to the Department that the works have been constructed in accordance with the issued permit.

2. Permit Expiration and Renewal Any permittee who intends to continue to operate a water withdrawal system beyond the period of time covered in the applicable water withdrawal permit must apply for a renewal of the permit at least 30 days prior to its expiration.

3. Transfer of Ownership of Water Withdrawal Systems Unless otherwise specified in this permit, a new water withdrawal permit application is required for the acquisition or condemnation of the approved water withdrawal system.

4. Cooling Water Withdrawals Regulated by SPDES Nothing in this water withdrawal permit shall supercede the need to, where necessary, obtain an appropriate SPDES permit that allows for the operation of a cooling water intake structure and the discharge of the amounts of water approved by this water withdrawal permit. If any modifications to the location, or capacity of the intake structure are required by the permittee's SPDES permit, permittee must also apply for a modification of this water withdrawal permit to reflect such changes.

5. Incorporation of the Cooling Water SPDES Water Conservation and Fisheries Protection Measures Required measures for water conservation and the reduction of impacts to the fisheries resource contained in the Biological Monitoring Requirement Section of the facilities SPDES permit are hereby incorporated by reference into this permit.



6. Annual Water Withdrawal Reports The permittee must submit a Water Withdrawal Reporting Form to the Department's Division of Water, Albany, NY. by March 31st of each year. The form is available on the Department's website and includes information regarding approved sources of water supply, source capacities, average and maximum day water use data and water conservation and efficiencies employed during the past calendar year.

7. Source Meter Calibration All source meters or measuring devices shall be calibrated for accuracy at least once each year.

8. Meter All Sources The permittee must install and maintain meters or other appropriate measuring devices on all sources of supply used in the system. Source master meters or measuring devices are to be read, and records kept of those readings, on at least a weekly basis. The permittee must maintain records of water withdrawn and consumptive use for each calendar year.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. Facility Inspection by The Department The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. Relationship of this Permit to Other Department Orders and Determinations Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. Applications For Permit Renewals, Modifications or Transfers The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Deputy Chief Permit Administrator
NYSDEC HEADQUARTERS
625 BROADWAY
ALBANY, NY 12233

4. Submission of Renewal Application The permittee must submit a renewal application at least 180



days before permit expiration for the following permit authorizations: Industrial SPDES - Surface Discharge.

5. Permit Modifications, Suspensions and Revocations by the Department The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;
- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. Permit Transfer Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-



way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

First3.99

Industrial Code: **4931**
 Discharge Class (CL): **03**
 Toxic Class (TX): **T**
 Major Drainage Basin: **17**
 Sub Drainage Basin: **02**
 Water Index Number: **ER**
 Compact Area: **IEC**

SPDES Number: **NY-0005126**
 DEC Number: **2-6206-00012/00004-0**
 Effective Date (EDP): **1 December 2014**
 Expiration Date (ExDP): **30 November 2019**
 Modification Dates:(EDPM)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et.seq.)(herein after referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: **Consolidated Edison Company of New York, Inc** Attention: **Jimena Ibanez**
 Street: **4 Irving Place, 15th Floor NE**
 City: **New York** State: **NY** Zip Code: **10003**

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: **East River Generating Station**
 Location (C,T,V): **New York** County: **NY**
 Facility Address: **801 E 14th Street**
 City: **New York** State: **NY** Zip Code: **10009**
 NYTM -E: **592.5** NYTM - N:
 From Outfall No.: **001** at Latitude: **40 ° 43 ' 39 "** & Longitude: **73 ° 58 ' 17 "**
 into receiving waters known as: **East River** Class: **I**

and; (list other Outfalls, Receiving Waters & Water Classifications)

- 01A-01H - East River via Outfall 001 Class I LAT 40 43 39 LON 73 58 17
- 002 East River Class I LAT 40 43 39 LON 73 58 17
- 003 - East River Class I LAT 40 43 39 LON 73 58 17
- 004 & 04A- East River Class I LAT 40 43 39 LON 73 58 17

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: **Consolidated Edison Company of New York, Inc.**
 Street: **4 Irving Place, 15th Floor NE**
 City: **New York** State: **NY** Zip Code: **10003**
 Responsible Official or Agent: **Greg Pryor** Phone: **212-460-2262**

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

CO BWP - Permit Coordinator
 RWE
 RPA
 EPA Region II - Michelle Josilo

Permit Administrator: Christopher M. Hogan	
Address: NYS DEC Headquarters, Division of Environmental Permits 625 Broadway, Albany, New York 12233-1750	
Signature: <i>Christopher M. Hogan</i>	Date: 11 '21 '14

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

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OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING	
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)	
PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.		

PARAMETER	EFFLUENT LIMIT	PRACTICAL QUANTITATION LIMIT (ML)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based standards, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the analytical method specified in the permit shall be used to monitor the amount of the pollutant in the outfall to this level, provided that the laboratory analyst has complied with the specified quality assurance/quality control procedures in the relevant method. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This ML can be neither lowered nor raised without a modification of this permit.	Action Levels are monitoring requirements, as defined below in Note 2, that trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, Temperature, concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Note 1: DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the ‘daily discharge’ is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the ‘daily discharge’ is calculated as the average measurement of the pollutant over the day. **DAILY MAX:** The highest allowable daily discharge. **DAILY MIN:** The lowest allowable daily discharge. **MONTHLY AVG (daily avg):** The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. **RANGE:** The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown. **7 DAY ARITHMETIC MEAN (7 day average):** The highest allowable average of daily discharges over a calendar week. **12 MRA (twelve month rolling avg):** The average of the most recent twelve month’s monthly averages. **30 DAY GEOMETRIC MEAN (30 d geo mean):** The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of : the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. **7 DAY GEOMETRIC MEAN (7 d geo mean):** The highest allowable geometric mean of daily discharges over a calendar week.

Note 2: ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level.

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
001	Combined discharge (Condenser Cooling Waterboiler drains, #3 flood control pump, equipment drains*, equipment leaks/overflows, and designated suboutfalls)	East River	EDP	ExpD

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	2/Week	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max.					
Flow	Monitor	Monitor		MGD	Continuous	Pump Log	
Total Residual Chlorine	NA	0.1**		mg/l	3/Week	Grab	2,3,4
Net Discharge of Heat	NA	2.46×10^9		BTU/Hr	Monthly	Calculated	
Intake-Discharge Temperature Difference	Monitor	18		°F	Hourly	Recorder	
Discharge Temperature	Monitor	98		°F	Continuous	Recorder	1

* Equipment drains include draining equipment that contains raw water, city water, treated water (demineralized/softened), feedwater, or condensate. Examples include water tanks/vessels/pipes, pumps, water used for hydrostatic testing, etc. Equipment drains do not include the draining of oil or chemical tanks, oil water separators, or settling tank(s).

** An Interim Limit of 0.2 mg/l total residual chlorine will be allowed for three years, or approval and installation of equipment based on the Chlorine Optimization Study in the Schedule of Compliance section of this permit (whichever comes first).

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01A, 01H	Boiler Blowdown	East River via Outfall 001	EDP	ExPD

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max.					
Flow	NA	Monitor		GPD	Monthly	Instantaneous	
Oil & Grease	NA	15		mg/l	Quarterly	Combined	
Total Suspended Solids	30	100		mg/l	2/Month	Combined	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01B	Neutralization Tank Effluent	East River via Outfall 001	EDP	ExDP
01D	Demineralized water treatment plant settling tank discharge	East River via Outfall 001		
01F	Reverse Osmosis water treatment plant discharge	East River via Outfall 001		
01G	Auto Pulse Filter Discharge	East River via Outfall 001		

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Instantaneous	

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Oil & Grease	NA	15		mg/l	Quarterly	Grab	
Total Suspended Solids	30	100		mg/l	2/Month	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01C	South Steam Station & Generating Station oil/water separators (steam condensate, equipment drains*, fire system test water, floor trenches/sumps, and an alternative tank farm discharge)	East River via Outfall 001	EDP	ExPD

* Equipment drains include draining equipment that contains raw water, city water, treated water (demineralized/softened), feedwater, or condensate. Examples include water tanks/vessels/pipes, pumps, water used for hydrostatic testing, etc. Equipment drains do not include the draining of oil or chemical tanks, oil water separators, or settling tank(s).

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Instantaneous	
Oil & Grease	NA	15		mg/l	Weekly	Grab	
Total Suspended Solids	30	100		mg/l	Weekly	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01E	Tank Farm Oil/Water Separators (equipment drains*, steam condensate, and storm water)	East River via Outfall 001	EDP	ExPD

* Equipment drains include draining equipment that contains raw water, city water, treated water (demineralized/softened), feedwater, or condensate. Examples include water tanks/vessels/pipes, pumps, water used for hydrostatic testing, etc. Equipment drains do not include the draining of oil or chemical tanks, oil water separators, or settling tank(s).

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Instantaneous	
Oil & Grease	NA	15		mg/l	Weekly	Grab	
Benzene			0.1	mg/l	Quarterly	Grab	
Toluene			0.1	mg/l	Quarterly	Grab	
Xylenes			0.1	mg/l	Quarterly	Grab	
Ethylbenzene			0.1	mg/l	Quarterly	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
002	Conveyor Tunnel Sump (fire system test water, steam condensate, and stormwater)	East River	EDP	ExPD

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Instantaneous	
Oil & Grease	NA	15		mg/l	Quarterly	Grab	

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Total Suspended Solids	NA	Monitor		mg/l	2/Month	Grab	

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
003	Hydrostatic Test water	East River	EDP	ExpD

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Monthly	Grab	

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Calculated	5
Oil & Grease	NA	15		mg/l	Monthly	Grab	5
Benzene	NA	0.020		mg/l	Each Discharge	Grab(s)	5
Toluene	NA	0.020		mg/l	Each Discharge	Grab(s)	5
Xylenes (Total)	NA	0.020		mg/l	Each Discharge	Grab(s)	5
Ethylbenzene	NA	0.020		mg/l	Each Discharge	Grab(s)	5
Chlorine, Total Residual	NA	0.1		mg/l	Each Discharge	Grab(s)	5,6

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
004	Condensate from Stuyvesant Town/Peter Cooper Village(Alternate Route to 001 – see diagram) and Substation oil/water separator discharge	East River	EDP	ExpD

PARAMETER	EFFLUENT LIMIT		ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Monthly	Calculated	

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Monthly	Grab	7

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
04A	Substation Oil/Water Separator for Stormwater and fire system test water	East River	EDP	ExpD

PARAMETER	EFFLUENT LIMIT		Compliance Level/ML Daily Max	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max					
Flow	NA	Monitor		GPD	Quarterly	Calculated	
Oil & Grease	NA	15		mg/l	Quarterly	Grab	
Total Suspended Solids	30	100		mg/l	Quarterly	Grab	
PCBs (Total)	Monitor	0.001		ng/l	See Aroclors		8
Aroclor 1254	Monitor	0.001	200	ng/l	1/year	Grab	8
Aroclor 1260	Monitor	0.001	200	ng/l	1/year	Grab	8

Footnotes:

1. This limitation may be exceeded during periods when one or more condensing units are operating with only one circulating water pump (per unit) due to pump breakdown or routine maintenance. In the event of pump breakdown, the permittee shall take corrective action as soon as possible. Where possible, routine pump maintenance resulting in these limitations being exceeded should be avoided during June through September. The permittee shall indicate on the Discharge Reporting Form (1) which circulating water pumps, if any, were not in operation, (2) the dates and times such pumps were not operating, (3) the reason(s) for pumps not operating, and (4) the period(s) dates and time(s) during which the limitation was exceeded. In no case shall the limitation be exceeded more than 1% of the time during the operating year.
2. Neither free available nor total residual chlorine may be discharged for more than two hours per unit in any one day when units are individually chlorinated. Chlorine may be discharged no more than two hours per day when units are simultaneously chlorinated.
3. Compliance with the chlorine limit may be determined by combining the flow weighted concentration of the discharge from both discharge tunnels.
4. Three (3) samples per week with 4 equally spaced grab samples per event. Sampling shall occur during chlorination of the unit with the maximum feed rate.
5. Each discharge of hydrostatic test water may be directed via Outfall 003. Tanks being tested must be cleaned and free of product. Any discharge of hydrostatic test water must be under the direct supervision of plant personnel. A visual check for the presence of oil and floating substances must be made of the discharge. Sampling must be performed from various levels within the tank.
6. Required when chlorinated supply is used for hydrostatic testing of tanks.
7. pH monitoring sampling is excluded during and up to 6 hours after a rain event.
8. Additional requirements are specified in the PCB Minimization Program. If sampling results remain below detection levels for the 5 year term of this permit, the applicant may petition the department to remove this sampling requirement. PCB Minimization program is applicable only if sampling detects any Aroclor present in the discharge from this Outfall.

SPECIAL CONDITIONS:

DISCHARGE NOTIFICATION REQUIREMENTS - *Sign Maintenance*: The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection. *Data Retention*: The permittee shall retain records for a minimum period of 5 years in accordance with 6NYCRR Part 750-1.12(b)(2) and Part 750-2.5(c)(1). These records, which include discharge monitoring reports (DMRs) and annual reports, must be retained at a repository accessible to the public. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be the business office, wastewater treatment plant, village, town, city, or county clerk's office, the local library, or other location approved by the Department.

Protocol for tank drains to be performed at Con Ed steam/electric stations:

This protocol excludes tanks that Con Edison knows do not contain PCBs.

Tank Drain Prohibitions

Unless otherwise allowed in this permit, no draining of treatment tanks is allowed: i.e., settling tanks or OWS's.

Tanks may be drained if total PCB and Mercury levels are less than 200 ng/l and 50 ng/l ,respectively, without agency notification or approval.

If a top only sample is available and the tank water is unable to be circulated prior to sampling, or if its contents are unable to be transferred to another tank with acceptable sampling locations, the tank cannot be drained.

Definitions:

Top Sample: A grab sample taken within 12" of the water surface.

Bottom Sample: A grab sample taken within 12" of the bottom of the tank.

Note: If the available sampling location for a bottom sample is greater than 12" from the bottom of the tank, Con Edison may proceed with the drain as long as it does not drain the tank to a level lower than the sample point from which it was collected.

Pre-Drain Sampling Requirements:

Pre-drain water samples must be collected from tanks that are lined with PCB containing materials or tanks suspected to contain PCBs. Pre-drain sampling would also be required for tanks proven PCB free ONLY when it is determined that they came into contact with water from sumps, trenches, floors and walls.

Sampling Procedures:

- Where available, two samples must be taken. One top sample and one bottom sample.
- If a bottom sample is the only sample point available, taking one bottom sample is acceptable.
- If a top sample is the only sample point available:
 1. Circulate the water in the tank and then collect a top sample, or:
 2. Transfer the contents of the tank to another tank and collect a top and bottom sample

Pre-drain samples will be analyzed for PCB (EPA method 608, MDL – 65 ng/L) and mercury (EPA Methods 245.7 or 1631, MDL – 2.0, 0.2 ng/L respectively as per TOGS 1.3.10)

All tanks not determined to be PCB free must be drained through a filter of 50 microns or less.

All sampling data obtained for the purpose of tank draining must be submitted with the DMRs for the corresponding month.

Tank drain discharge must comply with 6NYCRR part 704.

SPECIAL CONDITIONS:

A. Additional Requirements:

1. There shall be no discharge of the following wastes to surface waters or groundwater of the State; fly ash and bottom ash sluice wastes. Boiler and metal cleaning wastewater shall be transported off-site for treatment to a certified waste facility by a licensed vendor.
2. An annual report showing for each day of the month, the minimum, average, and maximum (i) gross station load (MWe), (ii) intake water temperature (°F), (iii) discharge water temperature (°F), and (iv) intake water volume (million gallons per day) shall be submitted to the Department's Division of Water offices in Albany and Region 2 (data shall be made available in electronic format -Quattro Pro or Excel format). Such report is due by March 15th of each year.
3. There shall be no visible sheen of oil and grease from outfalls 001, 002, 003 or 004 emanating from the station.
4. There shall be no discharge of PCBs from this facility.
5. No biocides, dyes, corrosion control chemicals or other water treatment chemical additives are authorized for use by the permittee except for those identified in the application for this permit, listed in this permit, or in the approved engineering reports, specifications and final designs submitted under this permit. If additional chemical substances are contemplated, application for their approval must be made to the Department. All changes in chemical use shall be made in accordance with DEC's "Water Treatment Chemical (WTC) Usage Notification Requirements for SPDES Permittees."
6. When treating with Spectrus CT 1300 the following conditions apply:
 - a. Sampling must be conducted as Multiple Grab samples (For purpose of this authorization multiple grab is defined as individual grab samples collected on intervals not to exceed three hours), during application. A maximum concentration of up to 50µg/l is allowed during treatments (end of pipe, after detoxification).
 - b. Detoxification with bentonite clay or other Department approved adsorption medium is required. At least a 1:1 ratio with the initial concentration of molluscicide to detoxicant must be maintained.
 - c. Each individual mussel control treatment is limited up to a maximum of 24 hours addition of Molluscicide once-through treatment and limited to a maximum of 24 hours discharge of detoxified Molluscicide during a recirculation treatment.
 - d. Records of product use, effluent flow and concentration of product during application and discharge must be maintained.
 - e. The Regional Water Engineer shall be notified not less than 48 hours before initiation of zebra mussel control program.
 - f. Upon elimination of initial infestations, treatments are limited to not more than 1 time annually.
 - g. The reports describing the results of the effectiveness of the zebra mussel control program and effluent analyses for Molluscicide shall be submitted annually to Regional Water Engineer, NYSDEC.
 - h. This permit condition is based on the best environmental and aquatic toxicity information available at this time. This authorization is subject to modification or withdrawal any time new information becomes available which justifies such modification or withdrawal.

NOTE: For those situations where an effluent sample result is greater than the discharge limits due to suspected inadequate mixing of detoxicant, an additional sample shall be obtained as soon as possible to verify the initial result.

7. In all instances, chlorine use shall be: 1) kept to the minimum amount which will maintain plant operating efficiency, and 2) done concurrently with thermal recirculation.
8. Samples for monitoring pH shall be collected at the outlet of the discharge tunnel for Outfall 001.
9. The permittee shall comply with the provisions agreed to under Consent order #R2-2985-90-04, which are designed to study and if necessary, mitigate biological impacts associated with the East River Generating Station condenser cooling water use.

B. BIOLOGICAL REQUIREMENTS

All submissions under this section should provide:

Two (2) copies to the Steam Electric Unit Leader;

One (1) copy of the cover letter to the Division of Water
State Pollution Discharge Elimination System (SPDES)
Compliance Information Section; and

One (1) copy of the cover letter to the Regional Water Engineer; unless otherwise noted.

1. **Impingement Mortality and Entrainment Characterization Study** (condition has been met)
2. **Design and Construction Technology Plan** (condition has been met)
3. **Technology Installation and Operation Plan**

The Technology Installation and Operation Plan was submitted and approved by the department.

4. **Verification Monitoring Study**

The Verification and Monitoring Plan has been submitted and approved by the Department.

Within 6 months of the completion of the Verification Monitoring Study the permittee must submit an approvable report to the Steam Electric Unit Leader that demonstrates compliance with 6 NYCRR Part 704.5 and section 316(b) of the Clean Water Act (33 U.S.C. section 1326).

5. **Complete installation of BTA**

Ristroph type modified intake screen installation and establishment of a dedicated fish return shall be completed in accordance with the DEC approved Technical Installation and Operation Plan (TIOP). The reductions in entrainment and impingement mortality resulting from these technologies and/or operational measures as determined through condition No. 4, can be no less stringent, and if possible, should be substantially greater than the following performance standards:

- a. Entrainment must be reduced by at least 75 % from the calculation baseline; and
- b. Impingement mortality must be reduced by at least 90 % from the calculation baseline.

6. **Contingency Plan to meet Department Performance Standards**

If fine mesh panels are determined to be infeasible, or upon completion of Verification Monitoring Studies the Department determines that the performance standards contained in biological condition numbers 5(a) and 5(b) above have not been met, then within 3 months of such notification the applicant shall submit an approvable plan

to further reduce impingement mortality and/or entrainment losses at the East River Generating Station. Upon Department approval, the plan and schedule shall become enforceable conditions of this permit.

7. Additional Reporting Requirements

- a. The permittee must maintain records of all data, reports and analysis pertaining to compliance with 6NYCRR Part 704 and Section 316(b) CWA for a period no less than 10 years from EDP.
- b. The permittee must submit status reports every two years thereafter until the expiration of the permit. At a minimum, these status reports must include a description of the operational status of the facility during the preceding two years and compliance with Biological Requirements 1 through 6 of this permit.
- c. By March 1 of each year, the applicant shall submit a report showing, in tabular fashion, the average monthly volume of cooling water used by each unit for the preceding year.

8. General Requirement

- a. Modification of the facility cooling water intake must not occur without prior Department approval. The permittee must submit written notification, including detailed descriptions and plans, to the NYS DEC Steam Electric Unit; the Director of the Bureau of Water Compliance Program; and both the Regional Permit Administrator and the Regional Water Engineer, Region 2, at least 60 days prior to any proposed change which would result in the alteration of the permitted operation, location, design, construction or capacity of the cooling water intake structure. The permittee must submit with the written notification a demonstration that the change reflects the best technology available for minimizing adverse environmental impacts pursuant to 6 NYCRR 704.5 and Section 316(b) of the Clean Water Act. As determined by NYS DEC, a permit modification application in accordance with 6 NYCRR Part 621 may be required.

- b. Thermal Discharge

As allowed in 6 NYCRR Part 704.3, a modification of the criteria to allow a designated mixing zone of 10.87 acres is allowed, based on the thermal studies performed at this facility. This modified mixing zone is for the 5 year limit of this permit and must be renewed/extended at the next renewal of the permit for this facility.

SCHEDULE OF COMPLIANCE

The permittee shall comply with the following schedule:

a) Total Residual Chlorine/Mercury

Outfall Number(s)	Compliance Action	Due Date
001	<p>The Permittee shall submit an approvable Engineering Report that identifies the facilities necessary to achieve compliance with the water quality based effluent limitation of 0.1 mg/l for total residual chlorine and details of the Chlorine Optimization Program.</p> <p>The Permittee shall submit approvable final plans and specifications, as well as a schedule of construction, for the facilities described in the approved Engineering Report.</p> <p>The Permittee shall commence construction of the facilities described in the approved report, plans and specifications in accordance with the approved schedule of construction.</p> <p>The Permittee shall submit progress reports every 6 months detailing the work done in accordance with the approved engineering report and schedule of construction.</p> <p>The schedule of construction contained in the approved report shall, by this reference, be made part of the permit.</p>	<p>EDP + 12 mo.</p> <p>DEC Approval of Engineering Report + 12 mo.</p> <p>DEC Approval of Schedule of Construction + 6 months</p>
002	<p>A short-term high intensity monitoring program sampling for mercury shall be conducted for 6 months upon issuance of this permit. The program shall consist of monthly grab samples using EPA Method 1631. A report shall be submitted within 3 months of completion of sampling.</p>	<p>EDP + 9 months</p>

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled A SPDES NOTICE/RENEWAL APPLICATION/PERMIT, the permittee is not required to repeat the submission.

- b) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice under terms of the General Conditions (Part II), Section 5. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:
1. A short description of the non-compliance;
 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
 3. A description or any factors which tend to explain or mitigate the non-compliance; and
 4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.
- c) The permittee shall submit copies of any document required by the above schedule of compliance to NYSDEC Regional Water Engineer at the location listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS and to the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505, unless otherwise specified in this permit or in writing by the Department.

SCHEDULE OF COMPLIANCE

The permittee shall comply with the following schedule:

a) Best Technology Available Determination

Outfall Number(s)	Compliance Action	Due Date
	Complete the installation of the Department Approved BTA	31 December 2014
	Submit BTA Contingency Plan	VMP studies completion + 3 months if Department Determines it is Necessary
	Submit status report	1 March 2012 and every 2 years thereafter until expiration of this permit
	Submit report on cumulative reductions in impingement and entrainment and analysis of technologies.	1 March 2012 and at the expiration of this permit
	Submit cooling water use report	March 1 each year

The above compliance actions are one time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT," the permittee is not required to repeat the submission(s) noted above. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

- b) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:
1. A short description of the non-compliance;
 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
 3. A description or any factors which tend to explain or mitigate the non-compliance; and
 4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.
- c) The permittee shall submit copies of any document required by the above schedule of compliance to NYSDEC Regional Water Engineer at the location listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS and to the **Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505**, unless otherwise specified in this permit or in writing by the Department.

SPECIAL CONDITIONS - INDUSTRY BEST MANAGEMENT PRACTICES

1. **General** - The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage.

The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. **Compliance Deadlines** - The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The BMP plan shall be reviewed annually and shall be modified whenever -(a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All BMP plan revisions (with the exception of SWPPPs - see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the BMP plan (or of any SWPPPs) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. **Facility Review** - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at http://www.dec.ny.gov/docs/permits_ej_operations_pdf/form2c.pdf) or that are required to be monitored for by the SPDES permit.

4. **13 Minimum BMPs** - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in the September 1992 manual *Storm Water Management for Industrial Activities*, EPA 832-R-92-006 (available from NTIS, 703-487-4650, order # PB 92235969). As a minimum, the plan shall include the following BMPs:

- | | | |
|-------------------------------------|---|---------------------------------|
| 1. BMP Pollution Prevention Team | 6. Security | 10. Spill Prevention & Response |
| 2. Reporting of BMP Incidents | 7. Preventive Maintenance | 11. Erosion & Sediment Control |
| 3. Risk Identification & Assessment | 8. Good Housekeeping | 12. Management of Runoff |
| 4. Employee Training | 9. Materials/Waste Handling, Storage, & Compatibility | 13. Street Sweeping |
| 5. Inspections and Records | | |

Note that for some facilities, especially those with few employees, some of the above BMPs may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the BMP Plan that do not apply to your facility, along with an explanation.

B. Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction

Activity to Surface Waters - As part of BMP #11, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of

contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual*, unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity **at least 30 days prior to soil disturbance**. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent* (NOI) form shall be submitted (available at www.dec.ny.gov/chemical/43133.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP are properly implemented.

5. **Required Sampling For "Hot Spot" Identification** - Development of the BMP plan shall include sampling of waste stream segments for the purpose of pollutant "hot spot" identification. The economic achievability of effluent limits will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology. For the purposes of this permit condition a "hot spot" is a segment of an industrial facility (including but not limited to soil, equipment, material storage areas, sewer lines etc.) which contributes elevated levels of problem pollutants to the wastewater and/or stormwater collection system of that facility. For the purposes of this definition, problem pollutants are substances for which treatment to meet a water quality or technology requirement may, considering the results of waste stream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the concentration of that same pollutant at the compliance monitoring location so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.
6. **Facilities with Petroleum and/or Chemical Bulk Storage (PBS and CBS) Areas** - Compliance must be maintained with all applicable regulations including those involving releases, registration, handling and storage (6NYCRR 595-599 and 612-614). Stormwater discharges from handling and storage areas should be eliminated where practical.
 - A. **Spill Cleanup** - All spilled or leaked substances must be removed from secondary containment systems as soon as practical and for CBS storage areas within 24 hours, unless written authorization is received from the Department. The containment system must be thoroughly cleaned to remove any residual contamination which could cause contamination of stormwater and the resulting discharge of pollutants to waters of the State. Following spill cleanup the affected area must be completely flushed with clean water three times and the water removed after each flushing for proper disposal in an on-site or off-site wastewater treatment plant designed to treat such water and permitted to discharge such wastewater. Alternately, the permittee may test the first batch of stormwater following the spill cleanup to determine discharge acceptability. If the water contains no pollutants it may be discharged. Otherwise it must be disposed of as noted above. See *Discharge Monitoring* below for the list of parameters to be sampled for.
 - B. **Discharge Operation** - Stormwater must be removed before it compromises the required containment system capacity. Each discharge may only proceed with the prior approval of the permittee staff person responsible for ensuring SPDES permit compliance. Bulk storage secondary containment drainage systems must be locked in a closed position except when the operator is in the process of draining accumulated stormwater. Transfer area secondary containment drainage systems must be locked in a closed position during all transfers and must not be reopened unless the transfer area is clean of contaminants. Stormwater discharges from secondary containment systems should be avoided during periods of precipitation. A logbook shall be maintained on site noting the date, time and personnel supervising each discharge.
 - C. **Discharge Screening** - Prior to each discharge from a secondary containment system the stormwater must be screened for contamination*. All stormwater must be inspected for visible evidence of contamination. Additional screening methods shall be developed by the permittee as part of the overall BMP Plan, e.g. the use of volatile gas meters to detect the presence of

gross levels of gasoline or volatile organic compounds. If the screening indicates contamination, the permittee must collect and analyze a representative sample** of the stormwater. If the water contains no pollutants it may be discharged. Otherwise it must either be disposed of in an on site or off site wastewater treatment plant designed to treat and permitted to discharge such wastewater or the Regional Water Engineer can be contacted to determine if it may be discharged without treatment.

D. Discharge Monitoring - Unless the discharge from any bulk storage containment system outlet is identified in the SPDES permit as an outfall with explicit effluent and monitoring requirements, the permittee shall monitor the outlet as follows:

(i) *Bulk Storage Secondary Containment Systems:*

(a) The volume of each discharge from each outlet must be monitored. Discharge volume may be calculated by measuring the depth of water within the containment area times the wetted area converted to gallons or by other suitable methods. A representative sample shall be collected of the first discharge* following any cleaned up spill or leak. The sample must be analyzed for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(b) Every fourth discharge* from each outlet must be sampled for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(ii) *Transfer Area Secondary Containment Systems:*

The first discharge* following any spill or leak must be sampled for flow, pH, the substance(s) transferred in that area and any other pollutants the permittee knows or has reason to believe are present**.

E. Discharge Reporting - Any results of monitoring required above, excluding screening data, must be submitted to the Department by appending them to the corresponding DMR. Failure to perform the required discharge monitoring and reporting shall constitute a violation of the terms of the SPDES permit.

F. Prohibited Discharges - **In all cases, any discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited.** The following discharges are prohibited unless specifically authorized elsewhere in this SPDES permit: spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained fire fighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

* Discharge includes stormwater discharges and snow and ice removal. If applicable, a representative sample of snow and/or ice should be collected and allowed to melt prior to assessment.

** If the stored substance is gasoline or aviation fuel then sample for oil & grease, benzene, ethylbenzene, naphthalene, toluene and total xylenes (EPA method 602). If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (EPA method 610). If the substance(s) are listed in Tables 6-8 of SPDES application form NY-2C then sampling is required. If the substance(s) are listed in NY-2C Tables 9-10 sampling for appropriate indicator parameters may be required, e.g. BOD5 or toxicity testing. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

PCB MINIMIZATION PROGRAM – Industrial Facilities

1. **General** - The permittee shall develop, implement, and maintain a Polychlorinated Biphenyl Minimization Program (PCBMP) for those outfalls which have effluent limits for PCBs (including Aroclors). The PCBMP is required because the 200 nanograms/liter (ng/L) permit limit per PCB Aroclor exceeds the water quality based effluent limit (WQBEL) of 0.001 ng/L for Total PCBs. The goal of the PCBMP is to reduce PCB effluent levels in pursuit of the WQBEL. The basis for the 200 ng/L per Aroclor limit is the EPA Method 608 analytical Minimum Level for Aroclors.
2. **PCBMP Elements** - The PCBMP shall be documented in narrative form and shall include any necessary drawings or maps. Other related documents already prepared for the facility may be used as part of the PCBMP and may be incorporated by reference. As a minimum, the PCBMP shall include an on-going program consisting of: periodic monitoring; an acceptable control strategy which will become enforceable under this permit; and, submission of periodic status reports.

A. **Monitoring** - The permittee shall conduct periodic monitoring designed to quantify and, over time, track the reduction of PCBs. Wastewater treatment plant influents and effluents, and other outfalls shall be monitored using a congener specific analysis method* at a minimum frequency of annually. Key locations in the wastewater and/or stormwater collection systems, and known or potential PCB sources, including raw materials as appropriate, shall be monitored using a congener specific analysis method* at a minimum frequency of annually. EPA Method 608 may be used in place of a congener specific analysis method* for the above monitoring when Method 608 sample results are greater than 200 ng/l. If PCB samples are analyzed using EPA Method 608, at least two (2) volumes of sample must be collected from that location to allow for congener specific analysis* if the Method 608 sample results are less than 200 ng/l.

SPDES permit limit compliance monitoring shall be performed at the frequency specified on the permit limits page(s) using Method 608. Results from congener specific analysis required under this PCBMP shall not be used for determining compliance with the 200 ng/L Aroclor permit limits. Additional monitoring must be completed as may be required elsewhere in this permit or upon Department request. Monitoring shall be coordinated so that the results can be effectively: compared between locations; compared between analytical methods; used to identify PCB sources; and, used to gauge the effectiveness of PCB reduction and control efforts.

* The permittee shall use a congener specific analysis method to measure and quantify Total PCBs. The congener specific analysis method must achieve a median PCB analytical Minimum Level of less than or equal to 1.0 ng/L for all congeners and/or congener peaks assessed. "Total PCBs" shall be calculated as the sum of all detections at or above the Minimum Level. A separate sum of "Estimated PCBs" detected at or above the Method Detection Limit and below the Minimum Level shall also be determined. Current methodologies approved by the Department for congener specific PCB analyses are as follows:

- (1) **Method 1668C** - Method 1668, Revision C: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS. EPA-820-R-10-005, Office of Water, U.S. Environmental Protection Agency, Washington, D.C. (2010).
- (2) **mGBM** - "The Modified Green Bay Mass Balance Method" as detailed in the following publication: Palmer P.M., Wilson L.R., Casey A.C. and Wagner R.E. (2011) - Occurrence of PCBs in raw and finished drinking water at seven public water systems along the Hudson River. Environ. Monit. Assess. 175 (1-4), pp. 487-499.
- (3) **Modified SW-846 8082A** – Modified versions of Method 8082A may be used provided they meet the 1.0 ng/L sensitivity requirement above, use all 209 congeners for calibration, and can quantify at least 126 individual congeners. SW-846, Method 8082A, Revision 1: Polychlorinated Biphenyls (PCBs) by Gas Chromatography (U.S. Environmental Protection Agency, Washington, DC, 2007).

The permittee may request, and the Department may optionally approve, alternate methods for congener specific PCB analyses provided the alternate method is demonstrated to be equivalent or superior to one of the above methods.

B. **Control Strategy** - An acceptable control strategy is required for reducing PCB discharges via cost-effective measures, which may include, but are not limited to, source identification, best management practices, more stringent control of tributary waste streams, remediation, and/or installation of new or improved treatment facilities. Required monitoring shall also be used, and supplemented as appropriate, to determine the most effective way to operate the wastewater treatment system(s) to ensure effective removal of PCBs while maintaining compliance with other permit requirements.

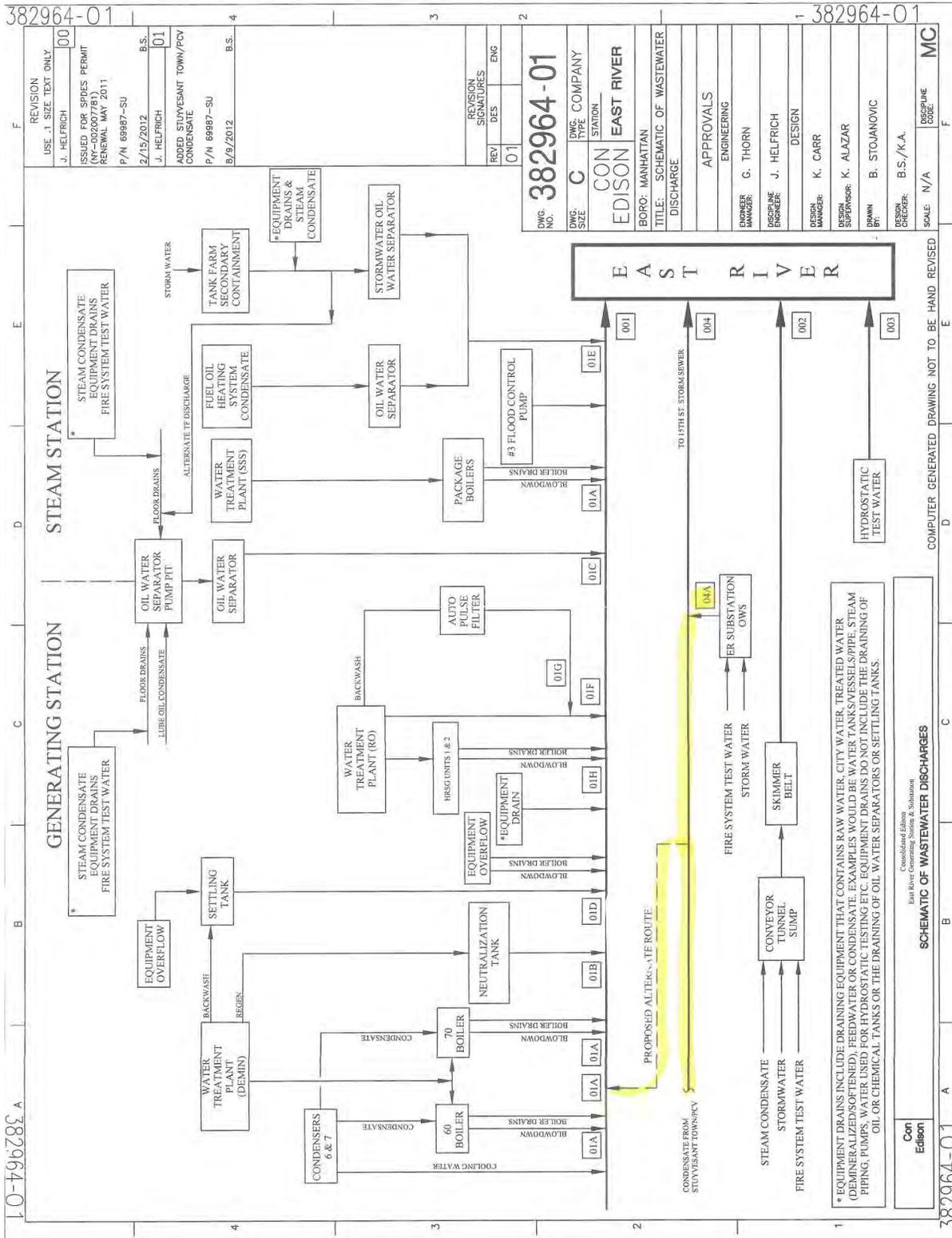
C. **Annual Status Report** - An annual status report shall be submitted to the Regional Water Engineer and to the Bureau of Water Permits summarizing: (a) all PCBMP monitoring results for the previous year; (b) a list of known and potential PCB

sources; (c) all action undertaken pursuant to the strategy during the previous year; (d) actions planned for the upcoming year; and, (e) progress toward the goal. The first annual status report is due one year after the permit is modified to include the PCBMP requirement and follow-up status reports are due annually thereafter. A file shall be maintained containing all PCBMP documentation which shall be available for review by NYSDEC representatives. Copies shall be provided upon request.

3. **PCBMP Modification** - The PCBMP shall be reviewed, and if necessary modified, whenever: (a) changes at the facility or within the collection system(s) increase the potential for PCB discharges; (b) new information is discovered concerning the source, nature, or extent of any PCB source(s) and/or discharges from the facility; (c) actual discharges contain detectable Aroclors as measured with EPA Method 608. The PCBMP shall be modified whenever a letter from the Department identifies inadequacies in the PCBMP or pursuant to a permit modification.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) specified below:



GENERAL REQUIREMENTS

- A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in paragraphs B through I as follows:
- B. General Conditions
1. Duty to comply 6NYCRR Part 750-2.1(e) & 2.4
 2. Duty to reapply 6NYCRR Part 750-1.16(a)
 3. Need to halt or reduce activity not a defense 6NYCRR Part 750-2.1(g)
 4. Duty to mitigate 6NYCRR Part 750-2.7(f)
 5. Permit actions 6NYCRR Part 750-1.1(c), 1.18, 1.20 & 2.1(h)
 6. Property rights 6NYCRR Part 750-2.2(b)
 7. Duty to provide information 6NYCRR Part 750-2.1(i)
 8. Inspection and entry 6NYCRR Part 750-2.1(a) & 2.3
- C. Operation and Maintenance
1. Proper Operation & Maintenance 6NYCRR Part 750-2.8
 2. Bypass 6NYCRR Part 750-1.2(a)(17), 2.8(b) & 2.7
 3. Upset 6NYCRR Part 750-1.2(a)(94) & 2.8(c)
- D. Monitoring and Records
1. Monitoring and records 6NYCRR Part 750-2.5(a)(2), 2.5(c)(1), 2.5(c)(2), 2.5(d) & 2.5(a)(6)
 2. Signatory requirements 6NYCRR Part 750-1.8 & 2.5(b)
- E. Reporting Requirements
1. Reporting requirements 6NYCRR Part 750-2.5, 2.6, 2.7 & 1.17
 2. Anticipated noncompliance 6NYCRR Part 750-2.7(a)
 3. Transfers 6NYCRR Part 750-1.17
 4. Monitoring reports 6NYCRR Part 750-2.5(e)
 5. Compliance schedules 6NYCRR Part 750-1.14(d)
 6. 24-hour reporting 6NYCRR Part 750-2.7(c) & (d)
 7. Other noncompliance 6NYCRR Part 750-2.7(e)
 8. Other information 6NYCRR Part 750-2.1(f)
 9. Additional conditions applicable to a POTW 6NYCRR Part 750-2.9
 10. Special reporting requirements for discharges that are not POTWs 6NYCRR Part 750-2.6
- F. Planned Changes
1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The alteration or addition to the permitted facility may meet of the criteria for determining whether facility is a new source in 40 CFR §122.29(b); or
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, or to notification requirements under 40 CFR §122.42(a)(1); or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

In addition to the Department, the permittee shall submit a copy of this notice to the United States Environmental Protection Agency at the following address: U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866.

GENERAL REQUIREMENTS continued

H. Sludge Management

The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.

I. SPDES Permit Program Fee

The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.

J. Water Treatment Chemicals (WTCs)

New or increased use and discharge of a WTC requires prior Department review and authorization. At a minimum, the permittee must notify the Department in writing of its intent to change WTC use by submitting a completed *WTC Notification Form* for each proposed WTC. The Department will review that submittal and determine if a SPDES permit modification is necessary or whether WTC review and authorization may proceed outside of the formal permit administrative process. The majority of WTC authorizations do not require SPDES permit modification. In any event, use and discharge of a WTC shall not proceed without prior authorization from the Department. Examples of WTCs include biocides, coagulants, conditioners, corrosion inhibitors, defoamers, deposit control agents, flocculants, scale inhibitors, sequestrants, and settling aids.

1. WTC use shall not exceed the rate explicitly authorized by this permit or otherwise authorized in writing by the Department.
2. The permittee shall **maintain a logbook** of all WTC use, noting for each WTC the date, time, exact location, and amount of each dosage, and, the name of the individual applying or measuring the chemical. The logbook must also document that adequate process controls are in place to ensure that excessive levels of WTCs are not used.
3. The permittee shall **submit a completed *WTC Annual Report Form*** each year that they use and discharge WTCs. This form shall be attached to either the December DMR or the annual monitoring report required below.

The *WTC Notification Form* and *WTC Annual Report Form* are available from the Department's website at <http://www.dec.ny.gov/permits/93245.html> .

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

A. The monitoring information required by this permit shall be summarized, signed and retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

(if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

(if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 each year and must summarize information for January to December of the previous year in a format acceptable to the Department.

(if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
 Regional Water Engineer County Health Department or Environmental Control Agency specified and/or below

Send the **original** (top sheet) of each DMR page to:
Department of Environmental Conservation
Division of Water, Bureau of Water Compliance
625 Broadway, Albany, New York 12233-3506
Phone: (518) 402-8177

Send the **first copy** (second sheet) of each DMR page to:
Department of Environmental Conservation
Regional Water Engineer, Region 2
Hunters Point Plaza
Long Island City, New York 11101-4933

Send an **additional copy** of each DMR page to:

- B. Monitoring and analysis shall be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- C. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.
- D. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- E. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- F. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.