



Department of
Environmental
Conservation

State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code:	4961	NAICS Code:	221330, 333611	SPDES Number:	NY0005134
Discharge Class (CL):	03	DEC Number:	2-6202-00032/00004		
Toxic Class (TX):	T	Effective Date (EDP):	12/01/2023		
Major-Sub Drainage Basin:	13 - 01	Expiration Date (ExDP):	11/30/2028		
Water Index Number:	HR (portion 1)	Item No.:	864 - 1	Modification Dates (EDPM):	
Compact Area:	IEC				

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.)

PERMITTEE NAME AND ADDRESS						
Name:	Consolidated Edison Company of New York, Inc.			Attention:	Anita Ma	
Street:	4 Irving Place, 15NE			State:	NY	Zip Code: 10003
City:	New York			Phone:	(718) 204 - 4142	
Email:	MAA@coned.com					

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL							
Name:	59 th Street Station						
Address / Location:	850 Twelfth Avenue					County:	New York
City:	New York			State:	NY	Zip Code:	10019
Facility Location:	Latitude:	40 °	46 ' 17 " N	& Longitude:	73 °	59 ' 61 " W	
Primary Outfall No.:	002	Latitude:	40 °	46 ' 40 " N	& Longitude:	73 °	59 ' 50 " W
Wastewater Description:	Combined Discharge, Equipment Drains, Leaks, and Overflows, Boiler Drains, Stormwater, and Designated Sub-Outfalls		Receiving Water:	Hudson River	NAICS:	221330	Class: I

and the additional outfalls listed in this permit, in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1 and 750-2.

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
- CO BWC - SCIS
- RWE
- RPA
- EPA Region II

Permit Administrator:	Scott E Sheeley		
Address:	625 Broadway Albany, NY 12233-1750		
Signature:		Date:	Oct. 20, 2023

SUMMARY OF ADDITIONAL OUTFALLS

Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
02A	Package Boiler drains routed to CO2 Blowdown Neutralization System via the Package Boiler heat exchanger; Package Boiler Blowdown	221330	Internal Outfall	Internal Outfall
Receiving Water: Hudson River				Class: I
Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
02B	Annex Boiler Blowdown	221330	Internal Outfall	Internal Outfall
Receiving Water: Hudson River				Class: I
Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
02D	Waste Neutralization Tanks (Demineralization System)	221330	Internal Outfall	Internal Outfall
Receiving Water: Hudson River				Class: I
Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
02E	Tunnel Sump, Steam Condensate, Stormwater, Equipment Drains, Leaks and Overflows, Fire System Test Water, and Floor Trenches/Sumps	221330	Internal Outfall	Internal Outfall
Receiving Water: Hudson River				Class: I
Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
02F	Reverse Osmosis Water Treatment Plant Discharge	221330	Internal Outfall	Internal Outfall
Receiving Water: Hudson River				Class: I
Outfall	Wastewater Description	NAICS Code	Outfall Latitude	Outfall Longitude
003	Heat Exchanger Non-Contact Cooling Water	221330	40 ° 46 ' 40 " N	73 ° 59 ' 50 " W
Receiving Water: Hudson River				Class: I

DEFINITIONS

TERM	DEFINITION
7-Day Geo Mean	The highest allowable geometric mean of daily discharges over a calendar week.
7-Day Average	The average of all daily discharges for each 7-days in the monitoring period. The sample measurement is the highest of the 7-day averages calculated for the monitoring period.
12-Month Rolling Average (12 MRA)	The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by 12.
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.
Action Level	Action level means a monitoring requirement characterized by a numerical value that, when exceeded, triggers additional permittee actions and department review to determine if numerical effluent limitations should be imposed.
Compliance Level / Minimum Level	A compliance level is an effluent limitation. A compliance level is given when the water quality evaluation specifies a Water Quality Based Effluent Limit (WQBEL) below the Minimum Level. The compliance level shall be set at the Minimum Level (ML) for the most sensitive analytical method as given in 40 CFR Part 136, or otherwise accepted by the Department.
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 Maximum	The highest allowable Daily Discharge.
Daily Minimum	The lowest allowable Daily Discharge.
Effective Date of Permit (EDP or EDPM)	The date this permit is in effect.
Effluent Limitations	Effluent limitation means any restriction on quantities, quality, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into waters of the state.
Expiration Date of Permit (ExDP)	The date this permit is no longer in effect.
Instantaneous Maximum	The maximum level that may not be exceeded at any instant in time.
Instantaneous Minimum	The minimum level that must be maintained at all instants in time.
Monthly 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.
Outfall	The terminus of a sewer system, or the point of emergence of any waterborne sewage, industrial waste or other wastes or the effluent therefrom, into the waters of the State.
Range	The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.
Receiving Water	The classified waters of the state to which the listed outfall discharges.
Sample Frequency / Sample Type / Units	See NYSDEC's "DMR Manual for Completing the Discharge Monitoring Report for the SPDES" for information on sample frequency, type and units.

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
002	Combined Discharge, Equipment Drains* and Leaks, Overflows, Boiler Drains, Stormwater, and Designated Sub-Outfalls	Hudson River	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	MGD			Monthly	Calculated		X	6
	Daily Maximum	Monitor				Monthly	Calculated		X	6
pH	Daily Minimum	6.0	SU			Continuous	Recorder		X	1, 2, 3, 7
	Daily Maximum	9.0								
Temperature	Monthly Average	Monitor	°F			Continuous	Recorder		X	4
	Daily Maximum	Monitor				Continuous	Recorder			4
Mercury, Total	Daily Maximum	50	ng/L			Monthly	Grab		X	
WHOLE EFFLUENT TOXICITY (WET) TESTING		Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
WET - Acute Invertebrate	See footnote			3	TUa	Quarterly	See footnote		X	8, 9
WET - Acute Vertebrate	See footnote			3	TUa	Quarterly	See footnote		X	8, 9
WET - Chronic Invertebrate	See footnote			10	TUc	Quarterly	See footnote		X	8, 9
WET - Chronic Vertebrate	See footnote			10	TUc	Quarterly	See footnote		X	8, 9

* 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).

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
02A	Package Boiler drains routed to CO2 Blowdown Neutralization System via the Package Boiler heat exchanger; Package Boiler Blowdown	Hudson River via 002	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Daily Maximum	Monitor	GPD			Monthly	Calculated		X	6
Total Suspended Solids	Monthly Average	30	mg/L			2/month	Grab		X	5
	Daily Maximum	100				2/month	Grab		X	5

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
02B	Annex Boiler Blowdown	Hudson River via 002	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Daily Maximum	Monitor	GPD			Monthly	Calculated		X	6
Total Suspended Solids	Monthly Average	30	mg/L			2/month	Grab		X	5
	Daily Maximum	100				2/month	Grab		X	5

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
02D	Waste Neutralization Tanks (Demineralization System)	Hudson River via 002	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Monthly	Calculated		X	6
	Daily Maximum	Monitor				Monthly	Calculated		X	
Total Suspended Solids	Monthly Average	30	mg/L			2/month	Grab		X	
	Daily Maximum	100				2/month	Grab		X	

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
02E	Tunnel Sump, Steam Condensate, Storm Water, Equipment Drains*, Leaks and Overflows, Fire System Test Water and Floor Trenches/Sumps	Hudson River via 002	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Monthly	Calculated		X	6
	Daily Maximum	Monitor				Monthly	Calculated		X	
Oil & Grease	Daily Maximum	15	mg/L			Weekly	Grab		X	
Total Suspended Solids	Monthly Average	30	mg/L			Weekly	Grab		X	
	Daily Maximum	100				Weekly	Grab		X	

* 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).

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
02F	Reverse Osmosis Water Treatment Plant Discharge	Hudson River via 002	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly Average	Monitor	GPD			Monthly	Calculated		X	6
	Daily Maximum	Monitor				Monthly	Calculated		X	

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
003	Heat Exchanger Non-Contact Cooling Water Discharge	Hudson River	12/01/2023	11/30/2028

PARAMETER	EFFLUENT LIMITATION					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Daily Maximum	Monitor	MGD			Monthly	Calculated		X	6
Temperature	Daily Maximum	104	°F			Daily	Instantaneous		X	
Copper, Total	Daily Maximum	Monitor	mg/L			Monthly	Grab	X	X	
Lead, Total	Daily Maximum	Monitor	mg/L			Monthly	Grab	X	X	

FOOTNOTES:

1. The following applies to continuous pH monitoring:
 - a. Where a permittee continuously measures the pH of wastewater pursuant to a requirement or option in a State Pollutant Discharge Elimination System (SPDES) permit, the permittee shall maintain the pH of such wastewater within the range set forth in the applicable effluent limitation guidelines, except excursions from the range are permitted subject to the following limitations:
 - i. The total time during which the pH values are outside the requested range of pH values shall not exceed 7 hours and 26 minutes in any calendar year; and
 - ii. No individual excursion from the range of pH shall exceed 60 minutes.
 - b. The Department may adjust the requirements set forth in paragraph (a) of this section with respect to the length of individual excursions from the range of pH values, if a different period of time is appropriate based upon the treatment system, plant configuration or other technical factors.
 - c. For the purpose of this section, an excursion is an unintentional and temporary incident in which the pH value of discharge wastewater exceeds the range set forth in the applicable effluent limitation guidelines.
2. The continuous probe must be located at the lateral center of the tunnel and at the midpoint between mean low tide and the silt layer.
3. In the event of a continuous pH monitor failure, the station shall conduct manual pH readings at the following frequencies:
 - a. During periods of boiler draining, manual pH readings must be taken every thirty minutes until one hour after all draining is completed or until the continuous monitor is returned to service.
 - b. If no boiler draining is being conducted, then manual pH readings must be taken at a frequency of 8 per day at approximately equal intervals (every 3 hours), until the continuous monitor is returned to service.

- c. All manual readings must be included with the monthly DMR report and the required (5-day) report of noncompliance. *
4. In the event of a continuous temperature monitor failure, the station shall conduct manual temperature readings at a frequency of four per day or at approximately equal intervals of every 6 hours until the continuous monitor is returned to service. All manual readings must be included with the monthly DMR report and the required (5-day) report of noncompliance. *

*Note: As long as appropriate manual readings are conducted in accordance with section 3(a) and (b) and section 4 above, and submitted on DMR, the need for submitting the (5-day) noncompliance report shall be waived.

5. A single sample shall be collected from each boiler. Samples from boilers which blowdown to Outfall 002 shall be combined to form a composite sample that represents the boiler blowdown from Outfall 002.
6. Flow to be reported as specified for each outfall.
7. The total time during which the pH values are outside the requested range of pH values shall not exceed 7 hours and 26 minutes in any calendar month; and no individual excursion from the range of pH shall exceed 60 minutes.
8. **Whole Effluent Toxicity (WET) Testing:**

Testing Requirements – Chronic WET testing is required, but report both the acute and chronic results. Testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be *Mysidopsis bahia* (mysid shrimp - invertebrate) and *Cyprinodon variegatus* (sheepshead minnow - vertebrate). Artificial salt water should be used for dilution. All tests conducted should be static-renewal (two 24-hr composite samples with one renewal for Acute tests and three 24-hr composite samples with two renewals for Chronic tests). The appropriate dilution series should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test may be required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is 10:1 for acute, and 10:1 for chronic. Discharges which are disinfected using chlorine should be dechlorinated prior to WET testing or samples shall be taken immediately prior to the chlorination system.

Monitoring Period - WET testing shall be performed quarterly (calendar quarters) during calendar years ending in 4 and 9.

Reporting - Toxicity Units shall be calculated and reported on the DMR as follows: $TU_a = (100)/(48\text{-hr LC50})$ [note that Acute data is generated by both Acute and Chronic testing] and $TU_c = (100)/(7\text{-day NOEC})$ or $(100)/(7\text{-day IC25})$ when Chronic testing has been performed or $TU_c = (TU_a) \times (10)$ when only Acute testing has been performed and is used to predict Chronic test results, where the 48-hr LC50, 7-day NOEC and/or IC25 are all expressed in % effluent. This must be done, including the Chronic prediction from the Acute data, for both species unless otherwise directed. For Chronic results, report the most sensitive endpoint (i.e. survival, growth and/or reproduction) corresponding to the lowest 7-day NOEC or IC25 and resulting highest TU_c . For Acute results, report a TU_a of 0.3 if there is no statistically significant mortality in 100% effluent as compared to the control. Report a TU_a of 1.0 if there is statistically significant mortality in 100% effluent as compared to the control, but insufficient mortality to generate a 48-hr LC50. Also, in the absence of a 48-hr LC50, use 1.0 TU_a for the Chronic prediction from the Acute data, and report a TU_c of 10.0.

The complete test report including all bench sheets, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period with your WET DMR and to the WET@dec.ny.gov email address. A summary page of the test results for the invertebrate and vertebrate species indicating TU_a , 48-hr LC50 for Acute tests and/or TU_c , NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

WET Testing Action Level Exceedances - If an action level is exceeded then the Department may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Identification/Reduction Evaluation (TI/RE) in accordance with Department guidance. Enforceable WET limits may also apply. The permittee shall be notified in writing by their Regional DEC

office of additional requirements. The written notification shall include the reason(s) why such testing, TI/RE and/or limits are required.

9. Quarterly samples shall be collected in calendar quarters (Q1 – January 1st to March 31st; Q2 – April 1st to June 30th; Q3 – July 1st to September 30th; Q4 – October 1st to December 31st).

ADDITIONAL REQUIREMENTS:

1. There shall be no visible sheen of oil and grease from Outfall 001, 002, and 003.
2. There shall be no discharge of PCBs from this facility other than as authorized by requirement #4.
3. Notwithstanding any other requirements in this permit, the permittee shall also comply with all the Water Quality Regulations promulgated by the Interstate Environmental Commission.
4. **Protocol for tank drains to be performed at Con Ed steam stations:**

This protocol excludes tanks that Con Edison knows do not contain PCBs.

Tank Drain Prohibitions

No draining of treatment tanks is allowed: i.e., settling tanks or OWS's.

Tanks may be drained if PCB Aroclors are all non-detectable and mercury levels are less than 50 ng/L 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 PCBs and mercury using sufficiently sensitive test procedures approved under 40 CFR Part 136.

All tanks not determined to be PCB free must be drained through a 50-micron filter, regardless of sampling being required or not.

All sampling data obtained for the purpose of tank draining must be submitted with the DMRs for the corresponding month.

SPECIAL CONDITIONS – BIOLOGICAL MONITORING REQUIREMENTS

All submissions under this section should provide:

- One (1) paper and one (1) electronic copy to the Energy Unit Leader¹;
- 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.

Impingement Mortality and Entrainment Characterization Study

1. Within three (3) months of the Effective Date of the Permit (EDP + 3 months), the permittee must submit an approvable plan for an *Impingement Mortality and Entrainment Study* at the 59th St. Station. The study plan must include a schedule for implementation, standard operating procedures for data collection, and a final report. At a minimum, the final report must include:
 - a. A taxonomic identification of all fish and shellfish documented to frequent the Hudson River and natural life history information on each of these species.
 - b. An overall estimate of the number of fish and shellfish impinged and entrained (shellfish can be excluded from entrainment) at current operating conditions, and at calculation baseline conditions. For each flow scenario, estimates shall be presented in total numbers of organisms, identified to species, or lowest practical taxon. Estimates for each taxonomic group shall also be subdivided by life stage.

In addition, the *Impingement Mortality and Entrainment Characterization Study* must be generally consistent with the following guidelines:

- c. Impingement Abundance Monitoring
 - i. Duration - two years for facilities with no previous impingement monitoring and for 1 year for facilities with previous impingement monitoring.
 - ii. Intensity - At a minimum, one continuous 24-hour collection will be made in every, seven-day calendar period for a continuous 12-month or 24- month period, depending on previous monitoring as discussed in i) above. The collections will be scheduled to take place within the first two days of each period so that the remainder of the period is available for an alternate collection, should plant operation or equipment malfunction prevent impingement collection on the day initially scheduled. If for any reasons, a collection cannot be made within a given seven-day period, the subsequent collection shall proceed as scheduled. If more than 1,000 fish are collected in 24-hours of sampling, an additional 24-hour collection will be initiated within 72 hours.
 - iii. Traveling screens shall be washed until they are clean prior to the start of the 24-hour collection period.
 - iv. Electrical output in MW, average intake temperature before sampling, average discharge temperature and total station flows shall be recorded on a daily basis, tabulated and included as an appendix in the final report.
 - v. Collection efficiency, that is, the ability of sampling to recover marked fish released in front of the traveling screens and downstream of the trash racks, shall be determined quarterly for each major species. Major species are defined as those occurring at greater than 10% abundance, and species of important recreational or commercial fishing interest such as striped bass, winter flounder, and blue crab.
 - vi. The final report shall include a chapter on the station and site description. In the description of the facility's operation, there will be a completed description of the condenser cooling water system including the number of traveling screens, dimensions, type, mesh size, standard operating procedures, screen washwater sluice configuration and disposition of the screen washings, and the nature and estimated quantities of debris collected at this facility.
 - vii. Water quality measurements will be taken in conjunction with the impingement sampling program. Measurements will include salinity, pH, and dissolved oxygen.

¹ Energy Unit Leader, NYSDEC, Bureau of Habitat, 625 Broadway 5th Floor, Albany, NY 12233-4756

- viii. The final report shall include a summary table that includes estimates of the total numbers of fishes and shellfishes impinged, by species, for the study period based upon (1) continuous operation of all pumps at full rated flow and (2) actual operational and flow data for the study period. The information and relevant data must be submitted in tabular, graphic, and electronic (Excel or similar) formats.
- d. **Entrainment Abundance Monitoring**
 - i. Duration - two years for facilities with no previous entrainment monitoring and for 1 year for facilities with previous entrainment monitoring.
 - ii. Intensity - At a minimum, one continuous 24-hour collection will be made in every, seven-day calendar period during May 1- August 31 for either 1 or 2 year periods, depending on previous monitoring as discussed in i) above. The collections will be scheduled to take place within the first two days of each period so that the remainder of the period is available for an alternate collection, should plant operation or equipment malfunction and prevent entrainment collection on the day initially scheduled. If for any reasons, a collection cannot be made within a given seven-day period, the subsequent collection shall proceed as scheduled.
 - iii. All samples will be analyzed for ichthyoplankton and juvenile fish.
 - iv. Proposed methods for sample processing, quality control, quality assurance, and splitting will be described in the scope of work submitted for DEC Approval
 - v. The report shall include a summary table that includes estimates of the total numbers of fish and selected invertebrates entrained, by species and life stage, for the study period based upon (1) continuous operation of all pumps at full rated flow and (2) actual operational and flow data for the study period. The information and relevant data must be submitted in tabular, graphic, and electronic (Excel or similar) formats.

Once approved by the Department, the permittee must conduct the *Impingement Mortality and Entrainment Characterization Study* according to the approved schedule. The *Impingement Mortality and Entrainment Characterization Study* and approved schedule will become an enforceable condition of this SPDES permit.

Design and Construction Technology Review

- 2. Within six (6) months after the Department's approval of the *Impingement Mortality and Entrainment Study* final report, the permittee must submit an approvable *Design and Construction Technology Review* that includes:
 - a. Tables showing the average monthly and annual net generation of 59th St. Station in MWh measured over the last 5 years and the net capacity of the Station in MW.
 - b. An analysis of all feasible technologies and/or operational measures capable of being installed and implemented at 59th St. Station. For each feasible alternative include:
 - i. A detailed description of the alternative (including preliminary drawings and site maps, if appropriate);
 - ii. A discussion of the engineering feasibility of the alternative;
 - iii. An assessment of the mitigative benefits in reducing impingement mortality and entrainment abundance for all life stages of fish and shellfish, through utilization of the alternative;
 - iv. A breakdown of all applicable costs including costs associated with capital improvements, operation and maintenance, and construction downtime;
 - v. An estimate of the time required to implement the alternative; and
 - vi. An evaluation of any adverse environmental impacts to aquatic biota, habitat, or water quality that may result from construction, installation, and use of the alternative.
- 3. Within 1 month of the Department's approval of the *Design and Construction Technology Review*, the permittee must submit, for Department review and consideration, a proposed suite of technologies or operational measures that meets the requirements of 6 NYCRR Part 704.5 and Section 316(b) CWA, 40 CFR Subpart J:
 - a. Alone, or in combination, these technologies or operational measures *minimize* impingement mortality and entrainment of fish and shellfish at 59th St. Station;
 - b. The reductions in entrainment and impingement mortality resulting from the proposed technologies and/or operational measures can be no less stringent, and if possible, should be substantially greater than the following performance requirements:

- i. Entrainment must be reduced by at least 60 percent from the calculation baseline;
- ii. Impingement mortality must be reduced by at least 80 percent from the calculation baseline.

NOTE: Based on this and other relevant information, the Department will select technologies and/or operational measures that meet the requirements of 6 NYCRR Part 704.5 and Section 316(b) CWA, 40 CFR 125 Subpart J and will modify this SPDES permit to require the use of these selected technologies and/or operational measures.

Technology Installation and Operation Plan

4. 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 Section 316(b) CWA, the permittee must submit an approvable *Technology Installation and Operation Plan*. This plan must include:
 - a. a schedule for installing and implementing the technologies and/or operational measures selected to meet requirements of 6 NYCRR Part 704.5 and Section 316(b) CWA ; and
 - b. the methodology for assessing the efficacy of these technologies and operational measures.

Verification Monitoring Plan

5. Within 3 months of Department approval of the *Technology Installation and Operation Plan*, 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. At a minimum, two years of in-plant impingement and entrainment monitoring to verify the full-scale performance of BTA measures.
 - b. A description of the frequency and duration of monitoring, the parameters to be monitored, and the basis for determining the parameters and the frequency and duration for monitoring.
 - c. A schedule of implementation.
 - 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 Plan* in accordance with the approved schedule. The *Verification Monitoring Plan* and approved schedule will become an enforceable condition of this SPDES permit.

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

Contingency Plan to meet BTA performance goals

7. If upon completion of the Verification Monitoring Study the Department determines that the performance goals contained in Biological Monitoring Condition 3b(i) and (ii) above have not been met, the Department will notify the permittee. Within 3 months of such notification, the permittee shall submit an approvable plan to further reduce entrainment losses at the 59th St. Station. Upon Department approval, the plan and schedule shall become enforceable conditions of this permit.

Additional Reporting Requirements

8. The permittee must maintain records of all data, reports and analysis pertaining to compliance with 6 NYCRR Part 704.5, and Section 316(b) CWA for a period no less than 10 years from the Effective Date of the Permit.

General Requirement

9. 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 Energy 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 Part 704.5 and Section 316(b) CWA, 40 CFR Subpart 125.94. As determined by NYSDEC, a permit modification application in accordance with 6 NYCRR Part 621 may be required.

SCHEDULE OF SUBMITTALS

Outfall(s)	Parameter(s) Affected	Required Action	Due Date
003	N/A	<ol style="list-style-type: none"> 1. Submit an approvable <i>Impingement and Entrainment Study Plan</i> 2. Submit an approvable <i>Design and Construction Technology Review</i> 3. Submit a proposed suite of technologies or operational measures for Department review and consideration 4. Submit an approvable <i>Technology Installation and Operation Plan</i> 5. Submit an approvable <i>Verification Monitoring Plan</i> 6. Submit an approvable report to the Energy Unit Leader that demonstrates compliance with 6 NYCRR Part 704.5 and 316(b) of the Clean Water Act 	<p>02/29/2024</p> <p>IM&E report approval + 6 months</p> <p>DCTR approval + 1 month</p> <p>EDPM* + 3 months</p> <p>TIOP approval + 3 months</p> <p>VMP approval +6 months</p>

*From the suite of technologies and/or operational measures submitted for review, the Department will select technologies and/or operational measures that meet the requirements of 6NYCRR Part 704, section 704.5, and Section 316(b) of the Clean Water Act. Subsequent to these selections the Department will modify this permit.

STORMWATER POLLUTION PREVENTION REQUIREMENTS

NO EXPOSURE CERTIFICATION

The permittee submitted a Conditional Exclusion for No Exposure Form on 9/22/2022, certifying that all industrial activities and materials are completely sheltered from exposure to rain, snow, snowmelt, and/or stormwater runoff. The permittee must maintain a condition of no exposure for the exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to stormwater, the permittee must notify the Regional Water Engineer. The permittee must recertify a condition of no exposure every five years by completing the "No Exposure Certification Form" found on the NYSDEC website.

BEST MANAGEMENT PRACTICES (BMPs) FOR INDUSTRIAL FACILITIES

Note that for some facilities, especially those with few employees or limited industrial activities, some of the below 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.

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 BMP plan was received by the Department on October 14, 1980. 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. 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 the SPDES application Form NY-2C (available at https://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 *Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators*, February 2009, EPA 833-B-09-002. At 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 | | |

BMPs FOR INDUSTRIAL FACILITIES (continued)

5. **Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater from Construction Activity to Surface Waters** - A SWPPP shall be developed prior to commencing any construction activity that will result in soil disturbance of one or more acres of uncontaminated area². (Note: the disturbance threshold is 5000 SF in the New York City East of Hudson Watershed). The SWPPP shall conform to the current version of the SPDES General Permit for Stormwater Discharges from Construction Activity (CGP), including the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual*. 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 be maintained on-site and 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 the 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. SWPPPs must be developed 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.
6. **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.
7. **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 (6 NYCRR 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 at concentrations above the applicable effluent limits or Action Levels 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 to or from these systems 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.

² Uncontaminated area means soils which are free of contamination by any toxic or non-conventional pollutants identified in the tables 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.

BMPs FOR INDUSTRIAL FACILITIES (continued)

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 at concentrations above the applicable effluent limits or Action Levels it may be discharged. Otherwise it must either be disposed of in an onsite 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 firefighting 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. If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (PAHs). The analytical methods selected for monitoring the stored substances are to be the most sensitive in detecting and quantifying the target analytes as approved under 40 CFR Part 136 and in compliance with NYSDOH ELAP certified methods or as directed by the Department. If the substance(s) are listed in the tables of SPDES Application Form NY-2C then sampling is required. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

MERCURY MINIMIZATION PROGRAM (MMP) - Type III

1. General - The permittee must develop, implement, and maintain a mercury minimization program (MMP), containing the elements set forth below, to reduce mercury effluent levels with the goal of achieving the WQBEL of 0.7 ng/L.
2. MMP Elements - The MMP must be a written document and must include any necessary drawings or maps of the facility and/or collection system. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP must include the following elements as described in detail below:
 - a. Monitoring - Monitoring at outfall, influent and other locations tributary to compliance points may be performed using either USEPA Method 1631 or another sufficiently sensitive method, as approved under 40 CFR Part 136³. Monitoring of raw materials, equipment, treatment residuals, and other non-wastewater/non-stormwater substances may be performed using other methods as appropriate. Monitoring must be coordinated so that the results can be effectively compared between locations.

Minimum required monitoring is as follows:

- i. Plant Influent and/or Effluent – The permittee must collect samples at the location(s) and frequency as specified in the SPDES permit limitations table.
- ii. Key Locations and Potential Mercury Sources – The permittee must sample *key locations*, chosen to identify *potential mercury sources*, at least annually.
- iii. Decreased Monitoring Requirements - Facilities with EEQ at or below 12 ng/L are eligible for the following:
 - 1) Reduced requirements, through a permittee-initiated permit modification
 - a) Conduct influent monitoring, sampling semi-annually, in lieu of monitoring within the collection system, such as at *key locations*; and
 - b) Conduct effluent compliance sampling semi-annually.
 - 2) If a facility with reduced requirements reports discharges above 12 ng/L for two of four consecutive effluent samples, the Department may undertake a Department-initiated modification to remove the allowance of reduced requirements.
 - 3) Under the decreased permit requirements, the facility must continue to conduct an annual status report, as applicable in accordance with 2.c of this MMP, to determine if any waste streams have changed.
- iv. Additional monitoring must be completed as required elsewhere in this permit (e.g., locations tributary to compliance points).
- b. Control Strategy - The control strategy must contain the following minimum elements:
 - i. Monitoring and Inventory/Inspections -
 - 1) Monitoring shall be performed as described in 2.a above. As mercury sources are found, the permittee must track down and minimize these sources.
 - 2) The permittee must inventory and/or inspect users of its system as necessary to support the MMP.
 - a) *Potential mercury sources*
 1. The permittee must maintain an inventory of *potential mercury sources*.
 2. The permittee must inspect *potential mercury sources* once every five years. Alternatively, the permittee may develop and implement an outreach program⁴ which informs users of their responsibilities as *potential mercury sources*. The permittee must conduct the outreach program at least once every five years. The outreach program should be supported by a subset of site inspections.
 3. A file shall be maintained containing documentation demonstrating compliance with 2.b.i.2)a) above. This file shall be available for review by the Department representatives and copies shall be provided upon request.
 - ii. Equipment and Materials – Equipment and materials (e.g., thermometers, thermostats) used by the permittee, which may contain mercury, must be evaluated by the permittee. As equipment and materials

³ Outfall monitoring must be conducted using the methods specified in Table 8 of *DOW 1.3.10*.

⁴ For example, the outreach program could include education about sources of mercury and what to do if a mercury source is found.

MERCURY MINIMIZATION PROGRAM (MMP) – Type III (Continued)

containing mercury are updated/replaced, the permittee must use mercury-free alternatives, if possible.

- iii. **Bulk Chemical Evaluation** – For chemicals, used at a rate which exceeds 1,000 gallons/year or 10,000 pounds/year, the permittee must obtain a manufacturer's certificate of analysis, a chemical analysis performed by a certified laboratory, and/or a notarized affidavit which describes the substances' mercury concentration and the detection limit achieved. If possible, the permittee must only use bulk chemicals utilized in the wastewater treatment process which contain <10 ppb mercury.
- c. **Status Report** - An annual status report must be completed and maintained on site, in accordance with the [Schedule of Additional Submittals](#), summarizing:
 - i. All MMP monitoring results for the previous reporting period;
 - ii. A list of known and *potential mercury sources*
 - 1) If the permittee meets the criteria for MMP Type IV, the permittee must notify the Department for a permittee-initiated modification;
 - iii. All actions undertaken, pursuant to the control strategy, during the previous reporting period;
 - iv. Actions planned, pursuant to the control strategy, for the upcoming reporting period; and
 - v. Progress towards achieving a dissolved mercury concentration of 0.70 ng/L in the effluent (e.g., summarizing reductions in effluent concentrations as a result of the control strategy implementation and/or installation/modification of a treatment system).

The permittee must maintain a file with all MMP documentation. The file must be available for review by Department representatives and copies must be provided upon request in accordance with 6 NYCRR 750-2.1(i) and 750-2.5(c)(4).

3. **MMP Modification** - The MMP must be modified whenever:
 - a. Changes at the facility increase the potential for mercury discharges;
 - b. Effluent discharges exceed the current permit limitation(s); or
 - c. A letter from the Department identifies inadequacies in the MMP.

The Department may use information in the status reports, as applicable in accordance with 2.c of this MMP, to determine if the permit limitations and MMP Type is appropriate for the facility.

DEFINITIONS:

Key location – a location within the collection/wastewater system (e.g. including but not limited to a specific manhole/access point, tributary sewer/wastewater connection, or user discharge point) identified by the permittee as a potential mercury source. The permittee may adjust key locations based upon sampling and/or best professional judgement.

Potential mercury source – a source identified by the permittee that may reasonably be expected to have total mercury contained in the discharge. Some potential mercury sources include switches, fluorescent lightbulbs, cleaners, degreasers, thermometers, batteries, hauled wastes, universities, hospitals, laboratories, landfills, Brownfield sites, or raw material storage.

DISCHARGE NOTIFICATION REQUIREMENTS

- (a) The permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit, unless the Permittee has obtained a waiver in accordance with the Discharge Notification Act (DNA). Such signs shall be installed before initiation of any discharge.
- (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.

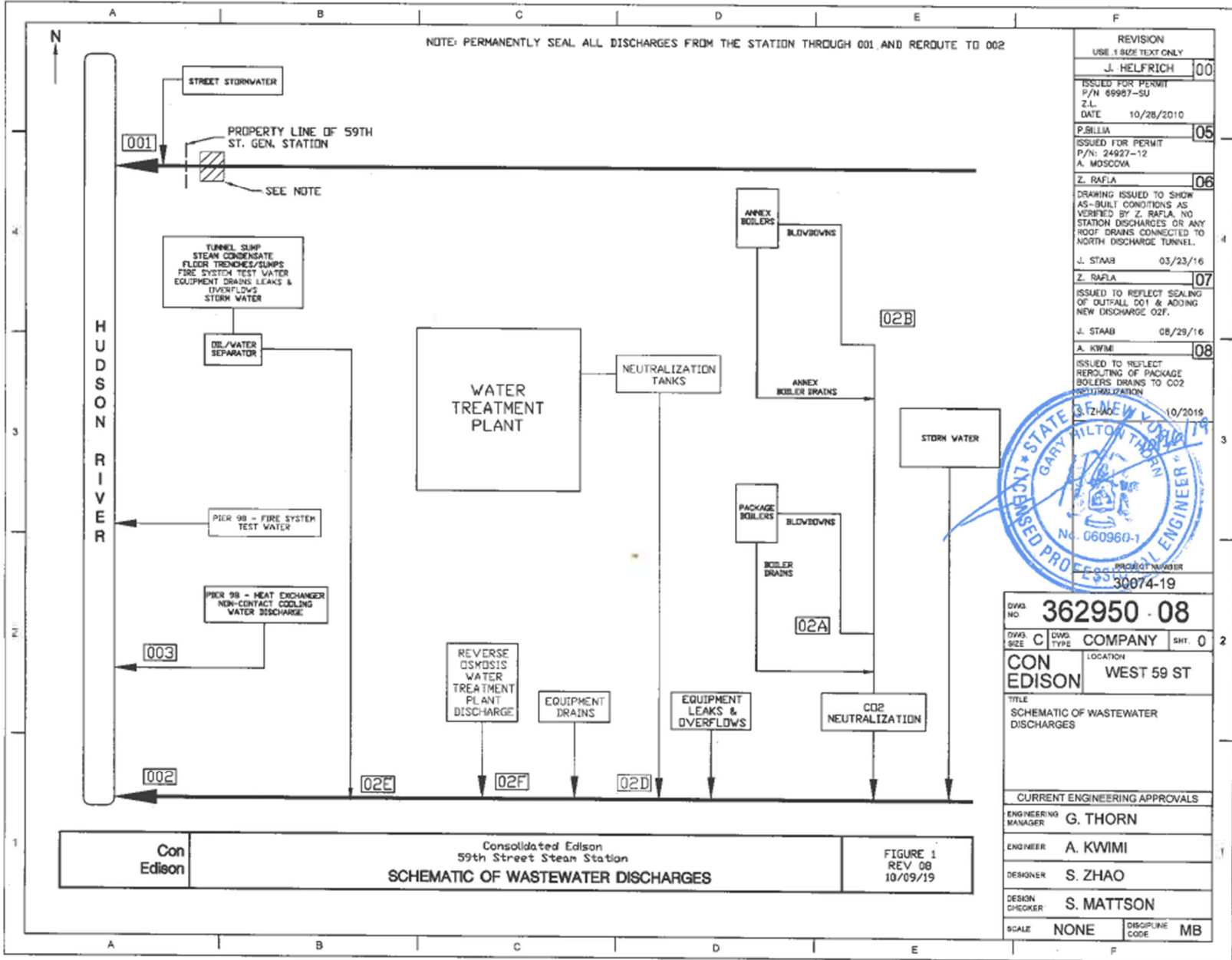
The signs shall have **minimum** dimensions of eighteen inches by twenty-four inches (18" x 24") and shall have white letters on a green background and contain the following information:

<p>N.Y.S. PERMITTED DISCHARGE POINT</p> <p>SPDES PERMIT No.: NY_____</p> <p>OUTFALL No. : _____</p> <p>For information about this permitted discharge contact:</p> <p>Permittee Name: _____</p> <p>Permittee Contact: _____</p> <p>Permittee Phone: () - ### - #####</p> <p>OR:</p> <p>NYSDEC Division of Water Regional Office Address:</p> <p>NYSDEC Division of Water Regional Phone: () - ### - #####</p>
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- (e) Upon request, the permittee shall make available electronic or hard copies of the sampling data to the public. In accordance with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit, each DMR shall be maintained (either electronically or as a hard copy) on record for a period of five years.
- (f) 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.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:



REVISION USE 1/2" SIZE TEXT ONLY	
J. HELFRICH	00
ISSUED FOR PERMIT P/N: 69987-SU Z.L. DATE: 10/26/2010	
P. SILLIA	05
ISSUED FOR PERMIT P/N: 24927-12 A. MOSCOWA	
Z. RAFLA	06
DRAWING ISSUED TO SHOW AS-BUILT CONDITIONS AS VERIFIED BY Z. RAFLA. NO STATION DISCHARGES OR ANY ROOF DRAINS CONNECTED TO NORTH DISCHARGE TUNNEL.	
J. STAAB	03/23/16
Z. RAFLA	07
ISSUED TO REFLECT SEALING OF OUTFALL 001 & ADDING NEW DISCHARGE 02F.	
J. STAAB	08/29/16
A. KWIMI	08
ISSUED TO REFLECT REWORKING OF PACKAGE BOILERS DRAINS TO CO2 NEUTRALIZATION	
J. STAAB	10/2018
	
DWG. NO.	362950-08
DWG. SIZE	C
DWG. TYPE	COMPANY
LOCATION	WEST 59 ST
TITLE	SCHEMATIC OF WASTEWATER DISCHARGES
CURRENT ENGINEERING APPROVALS	
ENGINEERING MANAGER	G. THORN
ENGINEER	A. KWIMI
DESIGNER	S. ZHAO
DESIGN CHECKER	S. MATTSON
SCALE	NONE
DISCIPLINE CODE	MB

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 H as follows:
- B. General Conditions
- | | |
|--|---|
| 1. Duty to comply | 6 NYCRR 750-2.1(e) & 2.4 |
| 2. Duty to reapply | 6 NYCRR 750-1.16(a) |
| 3. Need to halt or reduce activity not a defense | 6 NYCRR 750-2.1(g) |
| 4. Duty to mitigate | 6 NYCRR 750-2.7(f) |
| 5. Permit actions | 6 NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h) |
| 6. Property rights | 6 NYCRR 750-2.2(b) |
| 7. Duty to provide information | 6 NYCRR 750-2.1(i) |
| 8. Inspection and entry | 6 NYCRR 750-2.1(a) & 2.3 |
- C. Operation and Maintenance
- | | |
|-----------------------------------|--------------------------------------|
| 1. Proper Operation & Maintenance | 6 NYCRR 750-2.8 |
| 2. Bypass | 6 NYCRR 750-1.2(a)(17), 2.8(b) & 2.7 |
| 3. Upset | 6 NYCRR 750-1.2(a)(94) & 2.8(c) |
- D. Monitoring and Records
- | | |
|---------------------------|--|
| 1. Monitoring and records | 6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d) |
| 2. Signatory requirements | 6 NYCRR 750-1.8 & 2.5(b) |
- E. Reporting Requirements
- | | |
|---|-----------------------------------|
| 1. Reporting requirements for non-POTWs | 6 NYCRR 750-2.5, 2.6, 2.7, & 1.17 |
| 2. Anticipated noncompliance | 6 NYCRR 750-2.7(a) |
| 3. Transfers | 6 NYCRR 750-1.17 |
| 4. Monitoring reports | 6 NYCRR 750-2.5(e) |
| 5. Compliance schedules | 6 NYCRR 750-1.14(d) |
| 6. 24-hour reporting | 6 NYCRR 750-2.7(c) & (d) |
| 7. Other noncompliance | 6 NYCRR 750-2.7(e) |
| 8. Other information | 6 NYCRR 750-2.1(f) |
- F. Sludge Management
- The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.
- G. 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.
- H. 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 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 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 submitted in electronic format and 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 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.
- B. Discharge Monitoring Reports (DMRs): Completed DMR forms shall be submitted for each 1 month reporting period in accordance with the DMR Manual available on Department’s website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by NYSDEC. Instructions on the use of NetDMR can be found at <https://www.dec.ny.gov/chemical/103774.html>. **Hardcopy paper DMRs will only be received at the address listed below, directed to the Bureau of Water Compliance, if a waiver from the electronic submittal requirements has been granted by DEC to the facility.**

The first monitoring period begins on the effective date of this permit, and, unless otherwise required, the reports are due no later than the 28th day of the month following the end of each monitoring period.

- C. Additional information required to be submitted by this permit shall be summarized and reported to the RWE and Bureau of Water Permits at the following addresses:

Department of Environmental Conservation
Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233-3505 Phone: (518) 402-8111

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

- D. Schedule of Additional Submittals:

The permittee shall submit the following information to the Regional Water Engineer and to the Bureau of Water Permits, unless otherwise instructed:

Outfall(s)	SCHEDULE OF ADDITIONAL SUBMITTALS - Required Action	Due Date
	<u>BMP PLAN</u> The permittee shall review the completed BMP plan, submitted to this Department on October 14, 1980, on an annual basis. The BMP plan 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 must be submitted to the Regional Water Engineer within 30 days.	05/31/2024 Annually thereafter on January 28 th
002	<u>WHOLE EFFLUENT TOXICITY (WET) TESTING</u> WET testing shall be performed as required in the footnote of the permit limits table. The toxicity test report including all information requested of this permit shall be attached to your WET DMRs and sent to the WET@dec.ny.gov email address.	Within 60 days following the end of each monitoring period
002	<u>WATER TREATMENT CHEMICAL (WTC) ANNUAL REPORT FORM</u> The permittee shall submit a completed WTC Annual Report Form each year that Water Treatment Chemicals are used. The form shall be attached to the December DMR.	

Outfall(s)	SCHEDULE OF ADDITIONAL SUBMITTALS - Required Action	Due Date
002	<u>MERCURY MINIMIZATION PLAN</u> The permittee must complete and maintain onsite an annual mercury minimization status report in accordance with the requirements of this permit.	<i>Maintained Onsite</i> 11/30/2024, annually thereafter

Unless noted otherwise, the above actions are one-time requirements.

- E. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- F. 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.
- G. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- H. 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.
- I. 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.