## Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: 4952	NAICS Code: 2	21320	SPDES Number:	NY0026301	
Discharge Class (CL):	05		DEC Number:	7-3504-00006/00001	
Toxic Class (TX):	т		Effective Date (EDP):	EDP	
Major-Sub Drainage Basin:	07 - 01		Expiration Date (ExDP):	ExDP	
Water Index Number:	Ont. 66 It	tem No.: <b>897 – 003</b>	Madification Datas (EDDM):		
Compact Area:	IJC		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.)

PERMITTEE NAME AND ADDRESS							
Name:	City of Fulton	Attention:					
Street:	Fulton Municipal Building 141 South First St.		DPW C	Commissioner			
City:	Fulton	State:	NY	Zip Code:	13069		
Email:	csmith@cityoffulton.com	Phone:	(315) 5	92-7303			

is authorized to discharge from the facility described below:

	Fulton	on Water Pollution Control Plant											
	1690 S	tate Route 4	18								Osv	vego	
-	Fulton							NY	-		130	69	
			43	3	20	07	·		76		25	1	7
	008	Latitude:	43	3 °	20 '	0{	5 " N	& Longitude:	76	0	25	' <b>1</b>	5 " V

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	Permit Administrator:			
BWP – Permit Writer CO BWC - SCIS	Address:	625 Broadway Albany, NY 1223	33-1750	
RWE RPA EPA Region II NYSEFC	Signature:		Date:	

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# DEFINITIONS

Ineasurement 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 in the 12-month period.30-Day Geometric MeanThe 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 that month.Action LevelAction level means a monitoring requirement characterized by a numerical value that, when exceeded, triggers additional permittee actions and department review to determine if numerical enduent limitations should be imposed.Compliance Level / Minimum LevelA compliance level is an effluent limitation. A compliance level is given when the water quality evaluation specifies a Water Quality Based Effluent Limit (WOBEL) below the Minimum Level method as given in 40 CFR Part 136, or otherwise accepted by the Department.Daily DischargeThe discharge of a pollutant measured during a calendar day or ny 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutant expressed in units of mass, the daily discharge.Daily MinimumThe highest allowable Daily Discharge.Daily MaximumThe lowest allowable Daily Discharge.Daily MaximumThe date this permit is in effect.Permit (EDP or EDPM)The date this permit is no longer in effect. <th>TERM</th> <th>DEFINITION</th>	TERM	DEFINITION
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Average (12 MRA)   11 months for that parameter, divided by the number of months for which samples were collected in the 12-month period.     30-Day Geometric   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 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 /   A compliance level is an effluent limitation. A compliance level is given when the water quality avaluation 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 or the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge.     Daily Maximum   The highest allowable Daily Discharge.     Effective Date of permit (ExDP) or 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 (E	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.
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of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.		The minimum level that must be maintained at all instants in time.
Outfall The terminus of a sewer system or the point of emergence of any waterborne sewage industrial	Monthly Average	of each of the daily discharges measured during a calendar month divided by the number of
waste or other wastes or the effluent therefrom, into the waters of the State.	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.	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.	Receiving Water	The classified waters of the state to which the listed outfall discharges.

Sample Frequency / 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 LIMITATIONS		APPLY		RECE	IVING W	/ATER	EFFECTIVE	E	XPIRII	NG	
008	008 All Year		Oswego River			EDP		ExDP			
PARAMETER	EFFI	EFFLUENT LIMITATION				MONITO	RING REQUIRE	EMEN	MENTS		
						Sample	Sample	Location		FN	
	Туре	Limit	Units	Limit	Units	Frequency	Туре	Inf.	Eff.		
Flow	Monthly Average	3.4	MGD			Continuous	Meter		Х		
-11	Daily Minimum	6.0	SU			0/dev/	Creh		v		
рН	Daily Maximum	9.0	SU			2/day	Grab		Х		
Temperature	Daily Maximum	Monitor	°C			2/day	Grab		х		
BOD₅	Monthly Average	37	mg/L	1000	lb/d	1/week	24-hr. Comp.	х	Х	1	
BOD₅	7-Day Average	56	mg/L	1600	lb/d	1/week	24-hr. Comp.		Х		
Total Suspended Solids (TSS)	Monthly Average	39	mg/L	1100	lb/d	1/week	24-hr. Comp.	х	х	1	
Total Suspended Solids (TSS)	7-Day Average	59	mg/L	1700	lb/d	1/week	24-hr. Comp.		х		
Settleable Solids	Daily Maximum	0.3	mL/L			2/day	Grab		х		
Ammonia (as N)	Monthly Average	Monitor	mg/L			1/month	24-hr. Comp.		Х		
Total Phosphorus (as P)	Monthly Average	1.0	mg/L			1/week	24-hr. Comp.		х		
Total Cyanide (as CN)	Daily Maximum	Monitor	µg/L	2.7	lb/d	Quarterly	Grab		Х	2	
Total Mercury	Daily Maximum	50	ng/L			1/month	Grab		Х		
Total Mercury	12 MRA	Monitor	ng/L			1/month	Calculated		Х	3	
Biennial Pollutant Scan						1/two years	-		Х	4	
EFFLUENT DISINFECTION		Limit	Units	Limit	Units	Sample	Sample Type	Inf.	Eff.	FN	
Required All Year						Frequency					
Coliform, Fecal	30-Day Geometric Mean	200	No./ 100 mL			1/week	Grab		х		
Coliform, Fecal	7-Day Geometric Mean	400	No./ 100 mL			1/week	Grab		х		
Chlorine, Total Residual	Daily Maximum	2.0	mg/L			2/day	Grab		х	5	
WHOLE EFFLUENT TOXICI	TY (WET) TESTING	Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN	
WET - Acute Invertebrate	See footnote			15	TUa	Quarterly	See footnote		Х	6	
WET - Acute Vertebrate	See footnote			15	TUa	Quarterly	See footnote		х	6	
WET - Chronic Invertebrate	See footnote			100	TUc	Quarterly	See footnote		х	6	

WET - Chronic Vertebrate See footnote 100 TUc Quarterly See footnote X 6
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#### Footnotes on next page

#### FOOTNOTES:

- 1. Effluent shall not exceed 15% and 20% of influent concentration values for BOD<sub>5</sub> and TSS respectively.
- Quarterly samples shall be collected in off-calendar quarters: Q1 March 1<sup>st</sup> to May 31<sup>st</sup>; Q2 June 1<sup>st</sup> to August 31<sup>st</sup>; Q3 September 1<sup>st</sup> to November 30<sup>th</sup>; Q4 December 1<sup>st</sup> to February 28<sup>th</sup>).
- 3. The 12-month rolling average for total mercury is defined as the sum of the current month's monthly average concentration added to the monthly averages from the eleven previous months, divided by the number of months for which samples were collected in the 12-month period.
- 4. Biennial Pollutant Scan: The permittee shall perform effluent sampling every two (2) years for all applicable pollutants identified in the NY-2A Application, Tables A D. Sampling data shall be collected according to the guidance in the NY-2A application and maintained by the permittee. Data shall be submitted with the next submission of the NY-2A form.
- 5. Sampling and reporting for total residual chlorine are only necessary if chlorine is used for disinfection, elsewhere in the treatment process, or the facility otherwise has reasonable potential to discharge chlorine. Otherwise, the permittee shall report NODI-9 on the DMR.

#### 6. Whole Effluent Toxicity (WET) Testing:

<u>Testing Requirements</u> – 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 Ceriodaphnia dubia (water flea - invertebrate) and Pimephales promelas (fathead minnow - vertebrate). Receiving water collected upstream from the discharge 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 50:1 for acute, and 100:1 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.

<u>Monitoring Period</u> - WET testing shall be performed quarterly (calendar quarters) during calendar years ending in 4 and 9 for the duration of the permit.

<u>Reporting</u> - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48-hr LC50) [note that Acute data is generated by both Acute and Chronic testing] and TUc = (100)/(7-day NOEC) or (100)/(7-day IC25) when Chronic testing has been performed or  $TUc = (TUa) \times (10)$  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 TUc. For Acute results, report a TUa of 0.3 if there is no statistically significant mortality in 100% effluent as compared to the control. Report a TUa 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 TUa for the Chronic prediction from the Acute data, and report a TUc 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 <u>WET@dec.ny.gov</u> email address. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48-hr LC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

<u>WET Testing Action Level Exceedances</u> - 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.

## STORMWATER POLLUTION PREVENTION REQUIREMENTS

#### NO EXPOSURE CERTIFICATION

The permittee submitted a Conditional Exclusion for No Exposure Form on March 24, 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.

## MERCURY MINIMIZATION PROGRAM (MMP) - Type I

- 1. <u>General</u> 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.
- <u>MMP Elements</u> 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. <u>Monitoring</u> Monitoring at Outfall 008, influent and other locations tributary to compliance points shall be performed using either USEPA Method 1631 or another sufficiently sensitive method, as approved under 40 CFR Part 136<sup>1</sup>. 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. <u>Sewage Treatment Plant Influent and/or Effluent</u> The permittee must collect samples at the location(s) and frequency as specified in the SPDES permit limitations table.
- ii. <u>Key Locations and Potential Mercury Sources</u> The permittee must sample *key locations*, chosen to identify *potential mercury sources*, at least semi-annually. Sampling of discharges from dental facilities in compliance with 6 NYCRR 374.4 is not required.
- iii. <u>Hauled Wastes</u> The permittee must establish procedures for the acceptance of hauled waste to ensure the hauled waste is not a potential mercury source. Loads which may exceed 500 ng/L,<sup>2</sup> must receive approval from the Department prior to acceptance.
- iv. <u>Decreased Monitoring Requirements</u> 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 quarterly, in lieu of monitoring within the collection system, such as at *key locations*; and
    - b) Conduct effluent compliance sampling quarterly.
  - 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 a status report, as applicable in accordance with 2.c of this MMP, to determine if any waste streams have changed.
- v. Additional monitoring must be completed as required elsewhere in this permit (e.g., locations tributary to

<sup>&</sup>lt;sup>1</sup> Outfall monitoring must be conducted using the methods specified in Table 8 of *DOW 1.3.10*.

<sup>&</sup>lt;sup>2</sup>A level of 0.2 mg/L (200,000 ng/L) or more is considered hazardous per 40 CFR Part 261.11. 500 ng/L is used here to alert the permittee that there is an unusual concentration of mercury and that it will need to be managed appropriately.

compliance points).

- b. <u>Control Strategy</u> The control strategy must contain the following minimum elements:
  - i. <u>Pretreatment/Sewer Use Law</u> The permittee must review pretreatment program requirements and the Sewer Use Law (SUL) to ensure it is up-to-date and enforceable with applicable permit requirements and will support efforts to achieve a dissolved mercury concentration of 0.70 ng/L in the effluent.

## MERCURY MINIMIZATION PROGRAM (MMP) - Type I (continued)

- ii. Monitoring and Inventory/Inspections -
  - 1) Monitoring shall be performed as described in 2.a above. As mercury sources are found, the permittee must enforce its sewer use law to 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) Dental Facilities
      - 1. The permittee must maintain an inventory of each dental facility.
      - 2. The permittee must inspect each dental facility at least once every five years to verify compliance with the wastewater treatment operation, maintenance, and notification elements of 6 NYCRR 374.4. Alternatively, the permittee may develop and implement an outreach program,<sup>3</sup> which informs users of their responsibilities, and collect the "Amalgam Waste Compliance Report for Dental Dischargers"<sup>4</sup> form, as needed, to satisfy the inspection requirements. The permittee must conduct the outreach program at least once every five years and ensure the "Amalgam Waste Compliance Report for Dental Dischargers" are submitted by new users, as necessary. The outreach program could be supported by a subset of site inspections.
      - 3. A file shall be maintained containing documentation demonstrating compliance with 2.b.ii.2)a) above. This file shall be available for review by the Department representatives and copies shall be provided upon request.
    - b) Other potential mercury sources
      - 1. The permittee must maintain an inventory of other potential mercury sources.
      - 2. The permittee must inspect other *potential mercury sources* once every five years. Alternatively, the permittee may develop and implement an outreach program 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.ii.2)b) above. This file shall be available for review by the Department representatives and copies shall be provided upon request.
- iii. <u>Systems with CSO & Type II SSO Outfalls</u> Permittees must prioritize *potential mercury sources* upstream of CSOs and Type II SSOs for mercury reduction activities and/or controlled-release discharge.
- iv. <u>Equipment and Materials</u> 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 containing mercury are updated/replaced, the permittee must use mercury-free alternatives, if possible.
- v. <u>Bulk Chemical Evaluation</u> 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.

#### (MMP continued on next page)

 <sup>&</sup>lt;sup>3</sup> For example, the outreach program could include education about sources of mercury and what to do if a mercury source is found.
<sup>4</sup> The form, "Amalgam Waste Compliance Report for Dental Dischargers," can be found here:

https://www.dec.ny.gov/docs/water\_pdf/dentalform.pdf

## MERCURY MINIMIZATION PROGRAM (MMP) - Type I (continued)

- c. <u>Status Report</u> An annual status report must be developed and maintained on site in accordance with the <u>Schedule of Additional Submittals</u>, 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. <u>MMP Modification</u> The MMP must be modified whenever:
  - a. Changes at the facility, or within the collection system, 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 new discharge location.
- (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:
NYSDEC Division of Water Regional Office Address:
NYSDEC Division of Water Regional Phone: ( ) - ### - ####

- (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.

# INDUSTRIAL PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS

- A. <u>DEFINITIONS</u>: Generally, terms used in this Section shall be defined as in the General Pretreatment Regulations (40 CFR Part 403). Specifically, the following definitions apply to terms used in this Section:
  - 1. <u>Categorical Industrial User (CIU)</u>: an industrial user of the POTW that is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N;
  - 2. Local Limits: General Prohibitions, specific prohibitions and specific limits as set forth in 40 CFR 403.5.
  - 3. <u>The Publicly Owned Treatment Works (POTW)</u>: as defined by 40 CFR 403.3(q) and that discharges in accordance with this permit.
  - 4. <u>Program Submission(s)</u>: requests for approval or modification of the POTW Pretreatment Program entitled Development of an Industrial Pretreatment Program, City of Fulton, dated November 1983, submitted in accordance with 40 CFR 403.11 or 403.18 and approved by USEPA on September 28, 1984.
  - 5. Significant Industrial User (SIU):
    - a) CIUs;
    - b) Except as provided in 40 CFR 403.3(v)(3), any other industrial user that discharges an average of 25,000 gallons per day or more of process wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater) to the POTW;
    - c) Except as provided in 40 CFR 403.3(v)(3), any other industrial user that contributes a process waste stream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant;
    - d) Any other industrial user that the permittee designates as having a reasonable potential for adversely affecting the POTW's operation or for violating a pretreatment standard or requirement.
  - 6. <u>Substances of Concern:</u> Substances identified by the New York State Department of Environmental Conservation Industrial Chemical Survey as substances of concern.
- B. <u>IMPLEMENTATION</u>: The permittee shall implement a POTW Pretreatment Program in accordance 40 CFR Part 403 and as set forth in the permittee's approved Program Submission(s). Modifications to this program shall be made in accordance with 40 CFR 403.18. Specific program requirements are as follows:
  - 1. <u>Industrial Survey:</u> To maintain an updated inventory of industrial dischargers to the POTW the permittee shall:
    - a) Identify, locate and list all industrial users who might be subject to the industrial pretreatment program from the pretreatment program submission and any other necessary, appropriate and available sources. This identification and location list will be updated, at a minimum, every five years. As part of this update the permittee shall collect a current and complete New York State Industrial Chemical Survey form (or equivalent) from each SIU.
    - b) Identify the character and volume of pollutants contributed to the POTW by each industrial user identified in B.1.a above that is classified as a SIU.
    - c) Identify, locate and list, from the pretreatment program submission and any other necessary, appropriate and available sources, all SIUs of the POTW.
  - 2. <u>Control Mechanisms:</u> To provide adequate notice to and control of industrial users of the POTW the permittee shall:
    - a) Inform by certified letter, hand delivery courier, overnight mail, or other means which will provide written acknowledgment of delivery, all industrial users identified in B.1.a. above of applicable pretreatment standards and requirements including the requirement to comply with the local sewer use law, regulation or ordinance and any applicable requirements under section 204(b) and 405 of the Federal Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.

## INDUSTRIAL PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS (continued)

- b) Control through permit or similar means the contribution to the POTW by each SIU to ensure compliance with applicable pretreatment standards and requirements. Permits shall contain limitations, sampling frequency and type, reporting and self-monitoring requirements as described below, requirements that limitations and conditions be complied with by established deadlines, an expiration date not later than five years from the date of permit issuance, a statement of applicable civil and criminal penalties and the requirement to comply with Local Limits and any other requirements in accordance with 40 CFR 403.8(f)(1).
- 3. <u>Monitoring and Inspection</u>: To provide adequate, ongoing characterization of non-domestic users of the POTW, the permittee shall:
  - a) Receive and analyze self-monitoring reports and other notices. The permittee shall require all SIUs to submit self-monitoring reports at least every six months unless the permittee collects all such information required for the report, including flow data.
  - b) The permittee shall adequately inspect each SIU at a minimum frequency of once per year.
  - c) The permittee shall collect and analyze samples from each SIU for all priority pollutants that can reasonably be expected to be detectable at levels greater than the levels found in domestic sewage at a minimum frequency of once per year.
  - d) Require, through permits, each SIU to collect at least one 24-hour, flow proportioned composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than the levels found in domestic sewage. The permittee may perform the aforementioned monitoring in lieu of the SIU except that the permittee must also perform the compliance monitoring described in 3.c.
- 4. <u>Enforcement</u>: To assure adequate, equitable enforcement of the industrial pretreatment program the permittee shall:
  - a) Investigate instances of noncompliance with pretreatment standards and requirements, as indicated in self-monitoring reports and notices or indicated by analysis, inspection and surveillance activities. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions. Enforcement activities shall be conducted in accordance with the permittee's Enforcement Response Plan developed and approved in accordance with 40 CFR Part 403.
  - b) Enforce compliance with all national pretreatment standards and requirements in 40 CFR Parts 406 471.
  - c) Provide public notification of significant non-compliance as required by 40 CFR 403.8(f)(2)(viii).
  - d) Pursuant to 40 CFR 403.5(e), when either the Department or the USEPA determines any source contributes pollutants to the POTW in violation of Pretreatment Standards or Requirements the Department or the USEPA shall notify the permittee. Failure by the permittee to commence an appropriate investigation and subsequent enforcement action within 30 days of this notification may result in appropriate enforcement action against the source and permittee.
- 5. <u>Recordkeeping:</u> The permittee shall maintain and update, as necessary, records identifying the nature, character, and volume of pollutants contributed by SIUs. Records shall be maintained in accordance with 6 NYCRR 750-2.5(c).
- 6. <u>Staffing</u>: The permittee shall maintain minimum staffing positions committed to implementation of the Industrial Pretreatment Program in accordance with the approved pretreatment program.
- C. <u>SLUDGE DISPOSAL PLAN</u>. The permittee shall notify NYSDEC, and USEPA as long as USEPA remains the approval authority, 60 days prior to any major proposed change in the sludge disposal plan. NYSDEC may require additional pretreatment measures or controls to prevent or abate an interference incident relating to sludge use or disposal.

## INDUSTRIAL PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS (continued)

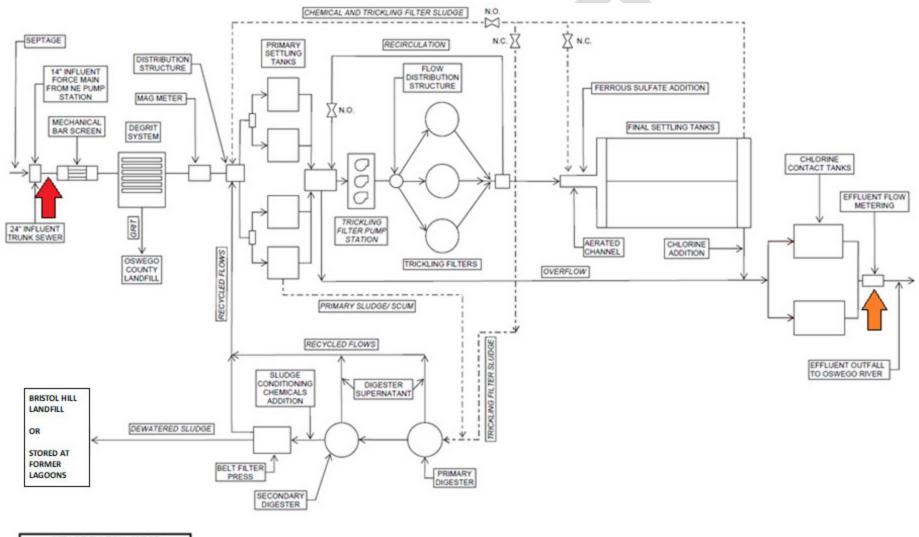
- D. <u>REPORTING:</u> The permittee shall provide to the offices listed on the Monitoring, Reporting and Recording page of this permit and to the Chief-Water Compliance Branch, USEPA Region II, 290 Broadway, New York, NY 10007, a periodic report that briefly describes the permittee's program activities over the previous year. This report shall be submitted in accordance with the Schedule of Submittals to the above noted offices within 60 days of the end of the reporting period. The periodic report shall include:
  - 1. <u>Industrial Survey:</u> Updated industrial survey information in accordance with 40 CFR 403.12(i)(1) (including any NYS Industrial Chemical Survey forms updated during the reporting period).
  - 2. <u>Implementation Status</u>: Status of Program Implementation, to include:
    - a) Any interference, upset or permit violations experienced at the POTW directly attributable to industrial users.
    - b) Listing of SIUs issued permits.
    - c) Listing of SIUs inspected and/or monitored during the previous reporting period and summary of results.
    - d) Listing of SIUs notified of promulgated pretreatment standards or applicable local standards who are on compliance schedules. The listing should include for each facility the final date of compliance.
    - e) Summary of POTW monitoring results not already submitted on Discharge Monitoring Reports and toxic loadings from SIU's organized by parameter.
    - f) A summary of additions or deletions to the list of SIUs, with a brief explanation for each deletion.
  - 3. Enforcement Status: Status of enforcement activities to include:
    - a) Listing of SIUs in significant non-compliance (as defined by 40 CFR 403.8(f)(2)(viii) with federal or local pretreatment standards at end of the reporting period.
    - b) Summary of enforcement activities taken against non-complying SIUs. The permittee shall provide a copy of the public notice of significant violators as specified in 40 CFR 403.8(f)(2)(viii).

#### E. ADDITIONAL PRETREATMENT CONDITIONS:

 <u>Notification of Material Change:</u> Facility shall notify the NYSDEC prior to the addition of any SIUs or CIUs which may materially change the nature of the discharge from the POTW or increase the discharge of one or more substances authorized in this permit or discharge a substance not currently authorized in this permit (6 NYCRR Part 750-2.9(a)(1)). The noticed act is prohibited until the Department determines whether a permit modification is necessary pursuant to 750-2.9(a)(2).

## 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:



CITY OF FULTON - WPCP EXISTING PROCESS FLOW DIAGRAM

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Influent: Sampling location after 24" influent trunk sewer before mechanical bar screen, indicated by red arrow

Effluent: Sampling location at effluent flow metering, indicated by orange arrow

## 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:

В.	Ger	neral Conditions	A
	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.	Ope	eration 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.	Mor	nitoring and Records	
D.	Mor 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)
D.			6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d) 6 NYCRR 750-1.8 & 2.5(b)
D.	1. 2.	Monitoring and records Signatory requirements	
D. E.	1. 2. Rep	Monitoring and records Signatory requirements porting Requirements	6 NYCRR 750-1.8 & 2.5(b)
	1. 2. Rep 1.	Monitoring and records Signatory requirements porting Requirements Reporting requirements	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17
	1. 2. Rep 1. 2.	Monitoring and records Signatory requirements porting Requirements Reporting requirements Anticipated noncompliance	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a)
	1. 2. Rep 1. 2. 3.	Monitoring and records Signatory requirements porting Requirements Reporting requirements Anticipated noncompliance Transfers	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17
	1. 2. Rep 1. 2. 3. 4.	Monitoring and records Signatory requirements Porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e)
	1. 2. Rep 1. 2. 3. 4. 5.	Monitoring and records Signatory requirements Porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports Compliance schedules	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-1.14(d)
	1. 2. Rep 1. 2. 3. 4. 5. 6.	Monitoring and records Signatory requirements Porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports Compliance schedules 24-hour reporting	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-1.14(d) 6 NYCRR 750-2.7(c) & (d)
	1. 2. Rep 1. 2. 3. 4. 5. 6. 7.	Monitoring and records Signatory requirements porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports Compliance schedules 24-hour reporting Other noncompliance	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-1.14(d) 6 NYCRR 750-2.7(c) & (d) 6 NYCRR 750-2.7(e)
	1. 2. Rep 1. 2. 3. 4. 5. 6. 7. 8.	Monitoring and records Signatory requirements porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports Compliance schedules 24-hour reporting Other noncompliance Other information	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-2.5(e) 6 NYCRR 750-2.7(c) & (d) 6 NYCRR 750-2.7(e) 6 NYCRR 750-2.1(f)
	1. 2. Rep 1. 2. 3. 4. 5. 6. 7.	Monitoring and records Signatory requirements porting Requirements Reporting requirements Anticipated noncompliance Transfers Monitoring reports Compliance schedules 24-hour reporting Other noncompliance	6 NYCRR 750-1.8 & 2.5(b) 6 NYCRR 750-2.5, 2.7 & 1.17 6 NYCRR 750-2.7(a) 6 NYCRR 750-1.17 6 NYCRR 750-2.5(e) 6 NYCRR 750-1.14(d) 6 NYCRR 750-2.7(c) & (d) 6 NYCRR 750-2.7(e)

- F. Planned Changes
  - 1. The permittee shall give notice to the Department as soon as possible of planned physical alterations or additions to the permitted facility when:
    - a. The alteration or addition to the permitted facility may meet any 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 either 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)

2. Notification Requirement for POTWs All POTWs shall provide adequate notice to the Department and the USEPA of the following:

- a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; or
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- c. For the purposes of this paragraph, adequate notice shall include information on:
  - i. the quality and quantity of effluent introduced into the POTW, and
  - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

POTWs 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

#### G. Sludge Management

The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.

H. 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.

I. 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 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: <a href="http://www.dec.ny.gov/permits/93245.html">http://www.dec.ny.gov/permits/93245.html</a>

# 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. <u>Discharge Monitoring Reports (DMRs)</u>: 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 <u>https://www.dec.ny.gov/chemical/103774.html</u>. 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.

Attach the monthly "Wastewater Facility Operation Report" (form 92-15-7) and any required DMR attachments electronically to the DMR or with the hardcopy submittal.

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 7 615 Erie Boulevard West, Syracuse, New York, 13204-2400 Phone: (315) 426-7500

D. <u>Bypass and Sewage Pollutant Right to Know Reporting</u>: In accordance with the Sewage Pollutant Right to Know Act (ECL § 17-0826-a), Publicly Owned Treatment Works (POTWs) are required to notify DEC and Department of Health within two hours of discovery of an untreated or partially treated sewage discharge and to notify the public and adjoining municipalities within four hours of discovery. Information regarding reporting and other requirements of this program may be found on the Department's website. In addition, POTWs are required to provide a five-day incident report and supplemental information to the DEC in accordance with Part 750-2.7(d) by utilizing the Division of Water Report of Noncompliance Event form unless waived by DEC on a case-by-case basis.

# SPDES Permit Fact Sheet City of Fulton Fulton Water Pollution Control Plant NY 002 6301



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## Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) EBPS permit renewal has been drafted for the Fulton Water Pollution Control Plant (WPCP). The changes to the permit are summarized below:

- Updated permit format, definitions, monitoring locations diagram, discharge notification act language, and general conditions.
- Added Permittee contact information.
- Removed pump station sanitary sewer overflow (SSO) Outfalls 001, 002, 003, 004, 007, and 009, and list of additional outfalls.
- Permit limits, levels and monitoring Outfall 008
  - Removed influent sampling requirements for pH, temperature, BOD5 and TSS 7day average, settleable solids, and ammonia.
  - Rounded BOD<sub>5</sub> and TSS mass loading monthly average and 7-day average limits to two significant figures.
  - Updated ammonia monitoring from "as NH<sub>3</sub>" to "as N," and reduced frequency from 1/week to 1/month.
  - Removed Total Kjeldahl Nitrogen (TKN) monitoring.
  - Added concentration monitoring for total cyanide (load limit is unchanged).
  - Reduced daily max mercury concentration limit from 200 ng/L to 50 ng/L.
    - Added 12-month rolling average monitoring requirement.
  - Added requirement for the biennial pollutant scan.
  - Removed action levels for: copper, aluminum, cadmium, chromium, lead, nickel, zinc, methylene chloride, bis (2-ethylhexyl) phthalate, di-n-butyl phthalate, total phenols, 4-methylphenol, 2-methylnaphthalene, and iron.
  - Added whole effluent toxicity (WET) testing.
  - Added and updated corresponding footnotes.
- Added Stormwater Pollution Prevention language.
- Added Mercury Minimization Program (MMP) Type I requirements.
- Added Section E. for "Notification of Material Change" to the industrial pretreatment requirements.
- Added a schedule of additional submittals.
  - Changed due date for annual Industrial Pretreatment Program Report from 30 to 60 days after the end of the reporting period.

This factsheet summarizes the information used to determine the effluent limitations (limits) and other conditions contained in the permit. General background information including the regulatory basis for the effluent limitations and other conditions are in the <u>Appendix</u> linked throughout this factsheet.

### Administrative History

8/29/2007 The last full technical review was performed and the modified SPDES permit became effective. The 2004 permit, along with all subsequent modifications, has formed the basis of this permit.

The permit was administratively renewed in 2009 and again in 2014. The current permit administrative renewal was effective until 6/30/2019.

- 6/30/2019 The current permit was extended pursuant to SAPA<sup>1</sup>.
- 12/7/2016 Permit was modified to include a new plant schematic identifying new flow monitoring location at effluent stream.
- 9/15/2010 Permit was modified to include changes to the Industrial Pretreatment Program after the construction of sewer extension.
- 12/2/2021 Department issued a Request for Information (RFI) to modify and renew the SPDES permit due to the facility's EBPS score<sup>2</sup>. At the time of the RFI, the facility had an EBPS score of 160.
- 3/24/2022 The City of Fulton submitted an NY-2A permit application.

The Notice of Complete Application, published in the <u>Environmental Notice Bulletin</u> and newspapers, contains information on the public notice process.

## Facility Information

This facility is a publicly owned treatment works (POTW) that receives flow from domestic and industrial users, including waste from categorical industrial users, with effluent consisting of treated sanitary and process wastewater. The collection system consists of both separate and combined sewers. Approximately 0.5 miles of the total 66 miles of collection system is combined sewer, with no Combined Sewer Overflows (CSOs).

The current 3.4 MGD treatment plant consists of:

- Preliminary Treatment: Screening, Grit Removal
- Primary Treatment: Primary Settling Tanks
- Secondary Treatment: Trickling Filters, Final Settling Tanks
- Disinfection: Chlorine

Sludge is digested anaerobically, pressed, and hauled to Bristol Hill Landfill (owned by Oswego County) or on the WPCP site where the former lagoons used to be.

The primary outfall (Outfall 008) is located 5 ft. from the bank of the Oswego River (Class B) and consists of a 48 in. pipe submerged at normal flow conditions.

<sup>&</sup>lt;sup>1</sup> State Administrative Procedures Act Section 401(2) and 6 NYCRR 621.11(*I*)

<sup>&</sup>lt;sup>2</sup> Pursuant to 6 NYCRR 750-1.18 and NYS Environmental Benefit Permit Strategy (EBPS)

The Permittee is planning several facility upgrades/improvements to their biosolids handling, secondary clarifiers, trickling filters, and disinfection. A Preliminary Engineering Report dated June 1, 2022, was submitted to DEC and approved by letter dated July 6, 2022. Construction is estimated for 2023-2025. The scope of the work does not increase the permitted flow and is not expected to affect their SPDES permit limits.

Municipality	POSS # or SPDES #	Collection System				
City of Fulton	NY 002 6301	Separate <sup>3</sup>				
Town of Granby	NYS700069	Separate				
Town of Volney	NYS700011	Separate				

The facility accepts wastewater from the following municipalities:

<b>T</b> I 6			• •	e 11				
The facility	/ accepts	wastewater f	rom the	tollowing	significant	industrial	users (	SIUs)
1110 1001110	,	madiomator		i on o ning	orgrinnoarre	maaaanan	0.0010	0.00/.

Significant Industrial User (SIU)	SIC Code	Categorical Reference (if applicable to 40 CFR)
Attis Ethanol, LLC	2869	Part 414
Huhtamaki Company	2654	NA
K&N Foods USA	5144	NA
Oswego County Landfill	4953	Part 445

The Permittee also has known Sanitary Sewer Overflow (SSO) discharges. Type I SSOs are classified as permanent emergency overflow structures which are intended only for emergency discharges and are typically located at pump stations or the headworks of the treatment plant. Discharge from these outfalls is prohibited, with limited exceptions<sup>4</sup>; therefore, these outfalls are being removed from the permit. Each discharge event is evaluated against emergency discharge criteria and must be reported in accordance with the <u>Sewage Pollution Right to Know Act</u> (SPRTK)<sup>5</sup>.

The following Type I SSO outfalls have been removed from the permit:

- SSO Outfall 001 Northeast Pump Station Overflow, North First Street
- SSO Outfall 002 Southeast Pump Station Overflow, Union Street
- SSO Outfall 003 Southwest Pump Station Overflow, Green Street
- SSO Outfall 004 Forest Avenue Pump Station Overflow
- SSO Outfall 007 East Edgewater Drive Pump Station Overflow
- SSO Outfall 009 24" Trunk Sewer Overflow Manhole, Wroth Street and Foster Park Access Road

<sup>&</sup>lt;sup>3</sup> The City of Fulton collection system consists of 65 miles of separate sewer and approximately 0.5 miles of combined sewer. There are no combined sewer overflows (CSOs) in the relatively short combined sewer section.

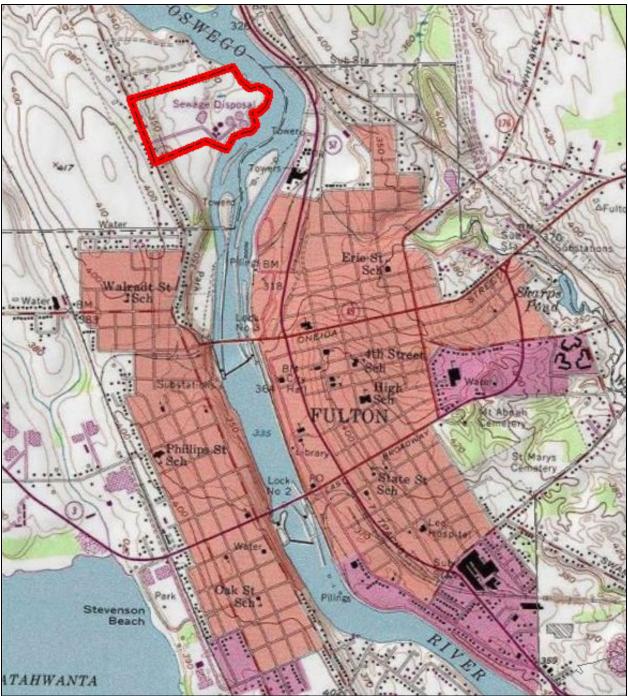
<sup>&</sup>lt;sup>4</sup> Exceptions noted in 6 NYCRR 750-2.8(b)(2) and 40 CFR § 122.41(m)(4)(i)

<sup>&</sup>lt;sup>5</sup> NYS Environmental Conservation Law Section 17-0826-a and 6 NYCRR 750-2.7

#### Site Overview

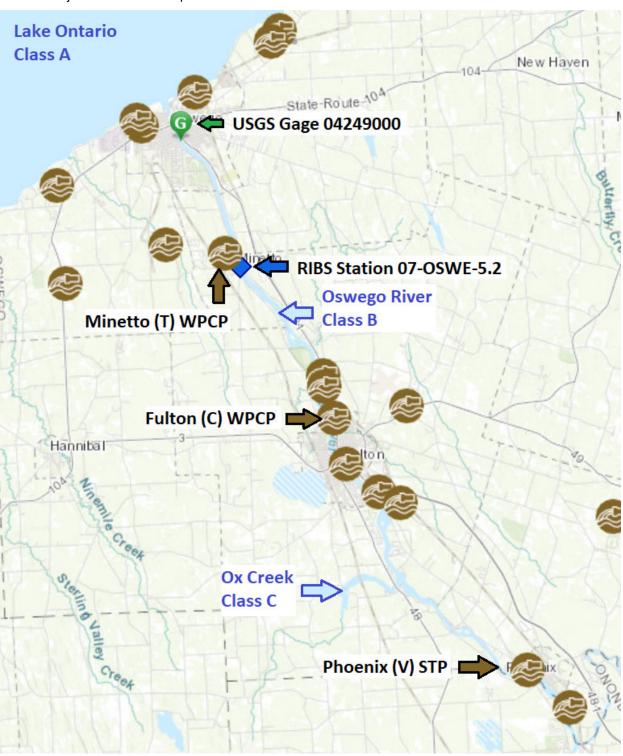


Satellite view of the City of Fulton WPCP showing the main outfall and receiving waterbody.



Map showing City of Fulton WPCP location (red outline).

Date: September 7, 2022 v.1.11 Permit Writer: Evan Walters Full Technical Review



Map showing location of the City of Fulton WPCP, Oswego River, gage stations used for ambient data, and significant nearby facilities. Approximate distances from Fulton (C) WPCP:

Phoenix (V) STP – 10 miles upstream Confluence with Ox Creek – 5 miles upstream RIBS Station 07-OSWE-5.2 – 6 miles downstream Minetto (T) WPCP – 6 miles downstream USGS Gage 04249000 – 11 miles downstream

#### **Enforcement History**

Compliance and enforcement information can be found on the EPA's <u>Enforcement and</u> <u>Compliance History Online (ECHO)</u> website.

#### Existing Effluent Quality

The <u>Pollutant Summary Table</u> presents the existing effluent quality (EEQ) and effluent limitations. The existing effluent quality was determined from Discharge Monitoring Reports submitted by the Permittee for the period 2017-2022, and the NY-2A application. <u>Appendix Link</u>

#### Interstate Water Pollution Control Agencies

Outfall 008 is located within the Great Lakes watershed and International Joint Commission (IJC) compact area. <u>Appendix Link</u>

### **Receiving Water Information**

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
008	4952	Treated sanitary and process wastewater	Oswego River, Class B
		SSO Outfall 001 – Removed from Permit	
		SSO Outfall 002 – Removed from Permit	
		SSO Outfall 003 – Removed from Permit	
		SSO Outfall 004 – Removed from Permit	
		SSO Outfall 007 – Removed from Permit	
		SSO Outfall 009 – Removed from Permit	

#### Impaired Waterbody Information

The Oswego River segment (PWL No. 0701-0006) was first listed on the 1998 <u>New York State</u> <u>Section 303(d) List</u> of Impaired/TMDL Waters as impaired due to PCBs from contaminated sediment. The segment continues to be listed as of the 2018 NYS Section 303(d) List. The Draft 2020-2022 NYS Section 303(d) List (public notice date December 29, 2021) proposed to remove the PCB impairment listing due to flaws in the original analysis; and proposed to add an impairment listing for total dissolved solids. A TMDL has not been developed to address these impairments, and therefore, there are no applicable wasteload allocations (WLAs) for this facility at this time.

#### Critical Receiving Water Data & Mixing Zone

The low flow condition for the Oswego River, Lower Main Stem was obtained from a drainage basin ratio analysis with USGS gage station 04249000, OSWEGO RIVER AT LOCK 7, OSWEGO NY, located 11 miles downstream at 43° 27' 06" N, 76° 30' 19" W. The 1Q10, 7Q10 and 30Q10 flows at the gage were found from the USGS SW Toolbox software and an analysis of data from 1900 to 2021.

DRAINAGE BASIN RATIO	1Q10	7Q10	30Q10
Gage Name	OSWEGO RI	VER AT LOCK 7, (	DSWEGO NY
Gage ID Number		04249000	
Low Flow at Gage (cfs)	420	884	1035
Drainage Area at Gage (mi <sup>2</sup> )	5100	5100	5100
Drainage Area at Facility (mi <sup>2</sup> )	5020	5020	5020
Drainage Basin Ratio (facility / gage)	0.98	0.98	0.98
Calculated Flow at Facility (cfs)	414	870	1019
Calculated Flow at Facility (MGD)	267	562	658

The 1Q10, 7Q10, and 30Q10 flows were used to calculate the acute, chronic, and human, aesthetic, wildlife (HEW) dilution ratios, respectively.

Dilution Ratio =	(Facility Flow + Low Flow) / F	acility Flow
------------------	--------------------------------	--------------

Outfall No.	Acute Dilution Ratio A(A)	Chronic Dilution Ratio A(C)	Human, Aesthetic, Wildlife Dilution Ratio (HEW)	Basis
008	50:1	100:1	100:1	TOGS 1.3.1

Consistent with TOGS 1.3.1, for large rivers, acute and chronic dilution ratios are limited to a max of 50:1 and 100:1 respectively. Critical receiving water data are listed in the <u>Pollutant Summary</u> <u>Table</u> at the end of this fact sheet. <u>Appendix Link</u>

### Permit Requirements

The technology based effluent limitations (<u>TBELs</u>), water quality-based effluent limitations (<u>WQBELs</u>), <u>Existing Effluent Quality</u> and a discussion of the selected effluent limitation for each pollutant present in the discharge are provided in the <u>Pollutant Summary Table</u>.

#### Whole Effluent Toxicity (WET) Testing

The facility is greater than 1 MGD and has been given new requirements for WET testing. No previous WET data was available to perform a reasonable potential analysis. Consistent with TOGS 1.3.2, given the dilution available and location within the Great Lakes basin, the permit requires chronic WET testing. WET testing action levels of 15 TUa and 100 TUc have been included in the permit for each species. The acute action level for each species represent the acute dilution ratio times a factor of 0.3. The chronic action levels represent the chronic dilution ratio. Samples will be collected quarterly in years ending in 3 and 8. <u>Appendix Link</u>

#### Anti-backsliding

The limitations contained in the permit are at least as stringent as the previous permit limits and there are no instances of backsliding. <u>Appendix Link</u>

#### Antidegradation

The permit contains effluent limitations which ensure that the best usages of the receiving waters will be maintained. The Notice of Complete Application published in the Environmental Notice Bulletin contains information on the State Environmental Quality Review (SEQR)<sup>6</sup> determination. <u>Appendix Link</u>

<sup>&</sup>lt;sup>6</sup> As prescribed by 6 NYCRR Part 617

#### **Discharge Notification Act Requirements**

In accordance with the Discharge Notification Act (ECL 17-0815-a), the Permittee is required to post a sign at each point of wastewater discharge to surface waters, unless a waiver is obtained. This requirement is being continued from the previous permit.

Additionally, the permit contains a requirement to make the DMR sampling data available to the public upon request. This requirement has been continued from the previous permit.

#### **Stormwater Pollution Prevention Requirements**

The facility is a publicly owned treatment works  $\geq$  1 MGD that requires SPDES permit coverage under 40 CFR 122.26 (b)(14)(ix).

On March 24, 2022, the Permittee submitted a Conditional Exclusion for No Exposure Form, certifying that all industrial activities and materials are completely sheltered from exposure. This condition must be maintained for the exclusion to remain applicable. The schedule of submittals also includes a due date for re-certification every five years as required by 40 CFR 122.26(g)(iii). This requirement is new.

#### Mercury<sup>7</sup>

The multiple discharge variance (MDV) for mercury provides the framework for NYSDEC to require mercury monitoring and mercury minimization programs (MMPs), through SPDES permitting. <u>Appendix Link</u>

The facility is an EPA Major, Class 05 POTW located in the Great Lakes and the permit has been updated to include requirements for the implementation of MMP Type I. This requirement is new.

Based on 10 mercury effluent samples collected from 2017-2022, the facility is expected to meet the new daily max permit limit of 50 ng/L, sampled monthly. The limit represents the general level currently achievable (GLCA). The data collected will be used to establish an additional 12-month rolling average effluent limit during the next permit review.

A mercury minimization program consisting of the following is also required:

- Additional monitoring at key locations
- Control strategy for implementation of the MMP
- Annual status report (maintained onsite)

#### **Biennial Pollutant Scan**

Three effluent samples for applicable parameters must be submitted with an NY-2A Application<sup>8</sup>. The permit includes a requirement to perform biennial sampling (once every two years) of the WWTP effluent for the parameters in the NY-2A Application, Tables A – D. This requirement ensures the data is representative of effluent conditions over the permit term and will be available for the next application submittal and permit review. This requirement is new.

#### Industrial Pretreatment Program

The Permittee is required to continue implementation of a USEPA-approved pretreatment program in accordance with 40 CFR Part 403 and TOGS 1.3.3. The program specifies continued implementation of an industrial user compliance program, submission of user information, modification of local sewer use law (if necessary), and periodic reporting. The due date for the

<sup>&</sup>lt;sup>7</sup> In accordance with DOW 1.3.10 Mercury – SPDES Permitting & Multiple Discharge Variance (MDV), December 30, 2020.

<sup>&</sup>lt;sup>8</sup> Pursuant to 40 CFR 122.21(j)(4)(vi).

annual Industrial Pretreatment Program Report has been changed from 30 to 60 days after the end of the reporting period to provide additional time to prepare and submit.

#### Schedule(s) of Compliance

A Schedule of Compliance is being included<sup>9</sup> for attainment of final effluent limits for total mercury of 50 ng/L (see <u>Mercury Section & Appendix Link</u>):

- The treatment facility is currently unable to meet the GLCA and a significant amount of time is needed to properly plan and implement the newly required Mercury Minimization Program (MMP) and track down requirements.
- The schedule includes submittal of semi-annual mercury minimization status reports summarizing the monitoring and control actions taken during the previous reporting period, actions planned for the upcoming reporting period, and progress towards achieving the final effluent limitation.

#### Schedule(s) of Additional Submittals

A schedule of additional submittals has been included for the following (Appendix Link):

- Water Treatment Chemical (WTC) Annual Report Form
- Annual Flow Certification
- Biennial Pollutant Scan
- Whole Effluent Toxicity (WET) Testing
- Stormwater No Exposure Certification
- Mercury Minimization Plan (MMP) Status Report
- Pretreatment Program Annual Report

<sup>&</sup>lt;sup>9</sup> Pursuant to 6 NYCRR 750-1.14

## OUTFALL AND RECEIVING WATER SUMMARY TABLE

					Water Index No. /	Major /					Critical	D	ilution Ra	atio
Outfall	Latitude	Longitude	Receiving Water Name	Water Class	Priority Waterbody Listing (PWL) No.	Sub Basin	Hardness (mg/l)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Effluent Flow (MGD)	A(A)	A(C)	HEW
008	43° 20' 05" N	76° 25' 15" W	Oswego River, Lower, Main Stem	В	Ont. 66 PWL: 0701-0006	07 / 01	20610	267	562	658	3.4	50:1	100:1	100:1

## POLLUTANT SUMMARY TABLE

Outfall 008

Outfall #	000	Description	n of Wast	tewater: ⊺	reated Sanit	ary Sewage	and Process Wa	astewater							
Outfall #	008	Type of Tre	atment:	Screening	, Grit Remov	val, Primary	Settling Tanks, 1	Frickling Fi	lters, Final	Settling Ta	inks, Chlori	ne Disinfectio	n		
			Existi	ing Discha	rge Data	٦	ſBELs		Wa	ater Quality	/ Data & Wo	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects			Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for ML WQBEL		Basis for Permit Requirement
General Notes (WQS) were rev	: Existing	g discharge ( or developme	data from ent of the	n 3/31/201 WQBELs.	7 to 2/28/202 The standa	22 was obta rd and WQE	ained from Disch BEL shown below	arge Monit / represent	toring Repo t the most s	orts provide stringent.	ed by the P	ermittee. All a	applicable v	vater	quality standards
Flow Rate	MGD	Monthly Avg	3.4	1.8 Average	60 / 0	3.4	Design Flow	their best	usages.		•	e waters for	6 NYCRR 703.2	-	TBEL
	Consis	tent with TO	GS 1.3.3,	a monthly	average flow	w limitation	equal to the aver	age daily o	design capa	acity of the	treatment p	plant is specif	ed.		
рН	SU	Minimum	6.0	6.59 Min	60 / 0	6.0	TOGS 1.3.3	7.6*		6.5 – 8.5	Range		6 NYCRR		TBEL
		Maximum	9.0	7.96 Max	60 / 0	9.0	1063 1.3.3	7.0	-	0.5 - 0.5	Range	-	703.3	-	IDEL
		tent with TOC ive of the WC					ary treatment sta S Station 07-OSV								
Temperature	°C	Daily Max	Monitor	24.4 Max	60 / 0	Monitor	6 NYCRR 750-1.13 Monitor	-	temperatu not be rai and sha	ure at the s ised to mo ill not be ra over the te	re than 90F iised or low	e water stream shall at any point ered to more that existed	6 NYCRR 704.2	-	Monitor
		tent with 6 N is permit.	YCRR 75	i0-1.13(a),	monitoring i	s required a	nd may be used	to inform f	uture perm	itting decis	ions. This r	equirement h	as been cor	ntinue	d from the

<sup>&</sup>lt;sup>10</sup> Ambient hardness data obtained from RIBS Station 07-OSWE-5.2 in Minetto, NY as the average of 105 samples.

<sup>&</sup>lt;sup>11</sup> Existing Effluent Quality (EEQ): Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with <3 non-detects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-

		Description	n of Was	tewater: T	reated Sanit	ary Sewage	and Process W	astewater							
Outfall #	800						Settling Tanks,		Iters, Final	Settling Ta	anks, Chlori	ne Disinfectio	n		
			ſ	ing Discha		· · ·	TBELs			•	y Data & W				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permi Requirement
Dissolved Oxygen	mg/L	Daily Min	-	-	-	-	-	-	7.3 Critical Point	(Non- Trout) 4.0 mg/L	Narrative	Potential	6 NYCRR 703.3	-	No Limitation
(DO) SUMMER 6/1 – 10/31	with TC DMR s Reach Minettc	DGS 1.3.1D), ummer data) Description: WPCP ~5.8	effluent , ambien The Villa miles do	BOD <sub>5</sub> = 56 t temperatinge of Pho ownstream	∂ mg/L (exist ure = 25°C (a enix STP loc	ing permit li assumed va ated ~10.3	reeter-Phelps eq mit), effluent TKI lue consistent wi miles upstream,	N = 24 mg th TOGS <sup>-</sup> additional	/L (EEQ fro 1.3.1D) flow from t	m 3/2017 the conflue	– 2/2022), e	effluent tempe 9x Creek ~5.3	erature = 23 miles upstr	.6°C ( ream,	75 <sup>th</sup> percentile of and the Town of
Dissolved Oxygen	mg/L	Daily Min	-	-	-	-	sequently WQBE	-	10 Critical	(Non- Trout) 4.0 mg/L	Narrative	No Reasonable Potential	6 NYCRR 703.3	-	No Limitation
(DO) WINTER 11/1 – 5/31	with TC DMR w Reach Town c	DGS 1.3.1D), vinter data), a Description: of Minetto WF	effluent l ambient te The mod PCP ~5.8	BOD₅ = 56 emperature lel includeo miles dow	i mg/L (existi e = 10°C (ass d the Phoeni /nstream.	ng permit lir sumed valu x STP loca	reeter-Phelps eq nit), effluent TKN e) ted ~10.3 miles u sequently WQBE	l = 24 mg/l upstream, t	₋ (EEQ from additional fl	n 3/2017 – ow from th	2/2022), ef	fluent tempera	ature = 16°0 reek ~5.3 m	C (75 <sup>tt</sup> iles u	<sup>1</sup> percentile of th pstream, and th
5-day		Monthly Avg	37	21*	52 / 8	37	TOGS 1.3.3				<u> </u>				
Biochemical		7 Day Avg	56	38**	60 / 0	56	TOGS 1.3.3								
Oxygen mg/L	lbs/d	Monthly Avg	1049	412	50 / 8	1000	TOGS 1.3.3	-	See D	issolved C	Dxygen	No Reasonable Potential	6 NYCRR 703.3	-	TBEL
Demand		7 Day Avg	1574	1183	58 / 0	1600	TOGS 1.3.3					rotentia			
(BOD <sub>5</sub> )	% Rem	Minimum	85	93 Avg	57 / 0	85	TOGS 1.3.3								
	water o	uality. Due to	o the age	and reliab	ility concerns	s regarding	ds for operation o the primary clarif 750-2.5(e)(2), th	iers (docu	mented in ir	nspection I	etters dated	d July 13, 202	1, and July 8	8, 202	
							95 <sup>th</sup> percentile of 99 <sup>th</sup> percentile o								

Outfall #	008	Description	of Wast	tewater: ⊺	reated Sanit	ary Sewage	e and Process W	astewater							
Outfall #	800	Type of Tre	atment:	Screening	, Grit Remov	/al, Primary	Settling Tanks,	Frickling Fi	Iters, Final	Settling Ta	anks, Chlori	ne Disinfectio	n		
	Ī		Existi	ing Discha	rge Data	-	ΓBELs		Wa	ater Quality	y Data & W	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Total	mg/L	Monthly Avg	39	14*	60 / 0	39	TOGS 1.3.3								
Suspended		7 Day Avg	59	26**	60 / 0	59	TOGS 1.3.3		Narrativ	e: None fr	om sewage	, industrial			
Solids (TSS)	lbs/d	Monthly Avg	1106	272	58 / 0	1100	TOGS 1.3.3	-			vastes that the waters	will cause for their best	6 NYCRR 703.2	-	TBEL
		7 Day Avg	1659	814	58 / 0	1700	TOGS 1.3.3			us	sages.				
	% Rem	Minimum	80	96 Avg	60 / 0	80	TOGS 1.3.3								
Settleable Solids	mL/L	Daily Max	ent quality 0.3	/ of 26 mg/ 0.24	/ <u>L was calcu</u> 4 / 56	ated as the 0.3	99 <sup>th</sup> percentile o	f the lognc	Narrativ wastes	e: None fr or other v or impair	om sewage vastes that v the waters	, industrial	6 NYCRR 703.2	-	TBEL
		tent with TOC able the TBE					e TBEL of 0.3 ml	L/L for POT	l FWs providi		sages ary treatme	nt without filtr	ation. Giver	n that	adequate dilutior
Nitrogen, Ammonia (as N) June 1 <sup>st</sup> – Oct. 31 <sup>st</sup>	mg/L	Monthly Avg	Monitor	12 Max as NH₃ 9.9 as N	24 / 1	Monitor	6 NYCRR 750-1.13 Monitor	0.082 as N	0.26 as NH₃ 0.21 as N	1.5 as NH₃ 1.2 as N	A(C)	No Reasonable Potential	6 NYCRR 703.5	-	Monitor
	assume NH <sub>3</sub> (9 effluent concen year-ro Reporti	ed value and .9 mg/L as N t concentratio tration. A con und monitori	consister ) and an on to acc mparison ng will co nia has b	nt with TO assumed count for th of the pro ntinue. Th peen chang	GS 1.3.1E. ambient ups ne number o jected instre e sampling f ged from (as	The projecte stream conc f samples. am concen requency ha NH <sub>3</sub> ) to (as	om a pH of 7.6 a ed instream conc entration of 0.08 In accordance w tration to the WC as been reduced N) for simpler dat	entration v 2 mg/L (co ith TOGS QS indicate from 1/we	vas calculat onsistent wi 1.3.1E, the es no reaso ek to 1/mor	ed using t th TOGS HEW dilu nable pote nth.	he maximui 1.3.1D). A n ution ratio w ential to cau	m reported ef nultiplier <sup>12</sup> of vas applied to se or contribu	fluent conce 1.30 was ap calculate ite to a WQ	entrati oplied the pr S vio	on of 12 mg/L as to the maximun ojected instrean ation. Therefore

 $<sup>^{12}</sup>$  As recommended from EPA's Technical Support Document, Chapter 3.3 PAGE 15 OF 27

Outfall #	008	Description	of Wast	tewater: ⊺	reated Sanit	ary Sewage	e and Process W	astewater							
Outfall #	008	Type of Tre	atment:	Screening	, Grit Remov	al, Primary	Settling Tanks,	Frickling Fi	ilters, Final	Settling Ta	anks, Chlori	ne Disinfectio	n		
	Ī		Exist	ing Discha	rge Data	٦	ΓBELs		Wa	ater Quality	y Data & W	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Nitrogen, Ammonia (as N) Nov. 1 <sup>st</sup> – May 31 <sup>st</sup>	mg/L	Daily Max	Monitor	16 Max as NH₃ 13 Max as N	32 / 2	Monitor	6 NYCRR 750-1.13 Monitor	0.082 as N	0.29 as NH <sub>3</sub> 0.24 as N	2.2 as NH₃ 1.9 as N	A(C)	No Reasonable Potential	6 NYCRR 703.5	-	Monitor
	value a mg/L a concen A comp monitor Reporti	nd consister s N) and an tration to acc parison of the ring will conti	at with TC assumed count for the projecto nue. The onia has b	OGS 1.3.1E I ambient the numbe ed instreat sampling	E. The projec upstream co r of samples m concentra frequency ha ged from (as	ted instream ncentration In accorda tion to the as been red NH <sub>3</sub> ) to (as	m concentration of 0.082 mg/L ( nce with TOGS 1 WQS indicates r uced from 1/wee N) for simpler dat	was calcul consistent .3.1E, the to reasona k to 1/mor	lated using with TOGS HEW dilutionable potention oth.	the maxim 5 1.3.1D). on ratio wa al to caus	um reporte A multiplier is applied to e or contrib	d effluent cor <sup>13</sup> of 1.20 was o calculate the oute to a WQS	acentration of applied to projected in S violation.	of 16 i the n nstrea There	was an assumed ng/L as NH3 (13 naximum effluent m concentration. fore, year-round can be converted
Nitrogen, TKN (as N)	mg/L	Daily Max	Monitor	24	60 / 0			-	-	amounts of algae	, weeds and	ult in growths d slimes that ers for their	6 NYCRR 703.2	-	Discontinued Monitoring
		s no applicab . Therefore, <sup>-</sup>		- · ·	-		jeldahl nitrogen (	TKN) to cla	ass B waters	s. Monitori	ng for amm	onia will contii	nue and be	protec	tive in controlling
Total Phosphorus (as P)	mg/L	Monthly Avg	1.0	0.46	46 / 14	1.0	TOGS 1.3.3	-	-	will res weeds a	ult in growth nd slimes th	amounts that ns of algae, nat will impair pest usages.	6 NYCRR 703.2	-	TBEL
															the requirements erage flow of 1.8

 $<sup>^{\</sup>rm 13}$  As recommended from EPA's Technical Support Document, Chapter 3.3 PAGE 16 OF 27

USEPA Maj			•	ewater: T	reated Sanit	arv Sewade	e and Process Wa	astewater							
Outfall #	800	-								<u> </u>					
		Type of Tre	eatment:	Screening	, Grit Remo	/al, Primary	Settling Tanks, 1	rickling Fi	llters, Final	Settling Ta	anks, Chlori	ne Disinfectio	n	r	
			Existi	ng Discha	rge Data	-	TBELs	Water Quality Data & WQBELs							
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Cyanide, Total (as CN)	µg/L	Daily Max	-	100	16	Monitor	6 NYCRR 750-1.13 Monitor		1.5	5.2	A(C)	No Reasonable Potential	6 NYCRR 703.5	-	TBEL
	lb/d	Daily Max	2.7	1.3	8 / 12	2.7	Antibacksliding	-	-	-		15		-	
	upstrea the WC the fac	im concentra S indicates r ility for comp	ition, a m no reasor parison w	ultiplier of nable pote ith the exi to monito	1.50 to acco ntial to cause sting limit. T	ount for the e or contribu he existing	e max effluent con number of sampl ute to a WQS viol load limit is less n added to give a	es, and th ation. The than the	e chronic d calculated calculated	ilution ratio WQBEL h WQBEL a	o. A compa as been co nd protectiv	rison of the p nverted to a le	rojected ins oad of 15 lb	tream /d at t	concentration to he design flow of
Mercury, total	ng/L	Daily Max	200*	51.66 Max	10 / 0	-	-	-	-	0.7	H(FC)	50	GLCA	-	TOGS 1.3.10
	See Me	ercury section	n of this fa	actsheet.	*200 ng/L	was the pre	vious compliance	e limit.							
Coliform, Fecal	#/100 ml	30d Geo Mean	200	55	11 / 49	200	TOGS 1.3.3	-			nly geometri ve examina		6 NYCRR	_	TBEL
		7d Geo Mean	400	540 Max <sup>14</sup>	47 / 13	400	TOGS 1.3.3	-	not exceed			,	703.4		
	The ex	isting require	ment for	year-round	d effluent dis	infection ha	s been continued	l. Fecal co	liform efflue	ent limitatio	ons equal to	the TBEL ar	e specified.		
Total Residual Chlorine (TRC)	mg/L	Daily Max	2.0	2.0	60 / 0	2.0	TOGS 1.3.3	-	-	0.005	A(C)	2.5	6 NYCRR 703.5	-	TBEL
							main a permit rec ed WQBEL is gre								onic dilution ratio
Action Levels a	and Mor	nitoring													
Aluminum, total (as Al)	lb/d	Daily Max	3.8 Action Level	< 2.1	0 / 10	-	-	-	-	will adv color or	ersely affeo odor thereo	amounts that of the taste, of, or impair pest usages.	6 NYCRR 703.2	-	Discontinued Action Level
	waterbo 65 sam	ody is > 6.5, <sup>-</sup> ples taken fr	TBELs fo om 1995-	r a <mark>lumi</mark> nur 2016. The	n are protect e effluent pH	tive of water is limited to	S of 100 μg/L fo quality. Ambient the range 6.0-9.0 protective, the a	pH of 7.6 D. There a	was obtain re no identil	ed from R fied TBELs	IBS Station in TOGS 1	07-OSWE-5.	2 in Minetto	, NY a	as the average of

<sup>&</sup>lt;sup>14</sup> Data for fecal coliform had high variability, therefore maximum is reported for Existing Effluent Quality. PAGE 17 OF 27

Outfall #	008	Description of Wastewater: Treated Sanitary Sewage and Process Wastewater														
Outiali #		Type of Treatment: Screening, Grit Removal, Primary Settling Tanks, Trickling Filters, Final Settling Tanks, Chlorine Disinfection														
			Existing Discharge Data			-	ſBELs	Water Quality Data & WQBELs								
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV		Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement	
Cadmium, total (as Cd)	µg/L	-	-	ND	0 / 11	-	-		Not Detected	3.7 dissolved	A(C)	No Reasonable Potential	6 NYCRR	-	Discontinued	
	lb/d	Daily Max	0.25 Action Level	< 0.16	0 / 10	-	-	-	-	-			703.5	-	Action Level	
							amples in the NY itinued. An EPA t								ed on the DMRs.	
Chromium, total (as Cr)	µg/L	-	-	ND	0 / 11	-		-	Not Detected	134 dissolved	Reason	No Reasonable Potential	- 6 NYCRR	-	Discontinued Action Level	
	lb/d	Daily Max	0.58 Action Level	< 0.2	0/9	-	·		-	-		-	703.5	-		
							amples in the NY atinued. An EPA t								ed on the DMRs.	
Copper, total (as Cu)	µg/L	Daily Max	-	13 total, Max	11		-	-	0.21 dissolved	17 dissolved	Detenti	Reasonable	Reasonable	6 NYCRR	-	Discontinued
	lb/d	Daily Max	2.5 Action Level	0.32 Max	5/5		-	-	-	-	A(C) Potentia		703.5	-	Action Level	
	a negli concen	gible upstrea tration to the	am conce WQS in	entration, a dicates no	n multiplier o reasonable	f 1.70 to ac potential to	count for the nu	mber of s ute to a W	amples, an	d the chro	nic dilution	ratio. A com	parison of t	he pr	′-2A application), ojected instream n level has been	
Iron, total (as Fe)	µg/L	Daily Max	-	-			-	-	-		e: None in a versely affeo	amounts that ct the taste,	6 NYCRR		Discontinued	
	lb/d	Daily Max	Monitor	60 Max	10 / 0	-	-	-	-	color or	odor there	of, or impair best usages.	703.2	-	_ Monitoring	
							l for total iron to a t for iron has bee			The facilit	y is require	d to perform o	ongoing WE	T test	ing which will be	

	D	Description	Description of Wastewater: Treated Sanitary Sewage and Process Wastewater													
Outfall #	008	Type of Tre	atment:	Screening	, Grit Remov	al, Primary	Settling Tanks,	Trickling Fi	ilters, Final	Settling Ta	anks, Chlori	ne Disinfectio	n			
		[	Existing Discharge Data			-	TBELs	Water Quality Data & WQBELs								
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement	
Lead, total (as Pb)	µg/L	-	-	ND	0 / 11	-	-	-	Not Detected	8.2 dissolved	A(C)	No Reasonable Potential	6 NYCRR	-	Discontinued	
	lb/d	Daily Max	1.9 Action Level	< 0.2	0 / 10	-	-	-	-	-		-	703.5	-	Action Level	
							mples in the NY-2 atinued. An EPA								on the DMRs.	
Nickel, total (as Ni)	µg/L	-	-	ND	0 / 11	-	-		Not Detected	96 dissolved	Detentio	No Reasonable Potential	6 NYCRR	-	Discontinued Action Level	
	lb/d	Daily Max	2.1 Action Level	< 0.2	0 / 10	-	-	-	-	-	A(C)	-	703.5	-		
							A application and anslator of 1.003						on the DM	Rs. Ba	ased on the non-	
Zinc, total (as Zn)	µg/L	Daily Max	-	28 total, Max	11		-	-	0.47 dissolved	153 dissolved		A(C)	No Reasonable Notential	6 NYCRR	-	Discontinued
	lb/d	Daily Max	2.6 Action Level	0.47 Max	2/8			-	-	-	A(C)	-	703.5	-	Action Level	
	negligil concer	ble upstream	concent WQS in	tration, a r dicates no	multiplier of reasonable	1.70 to acc potential to	ount for the nur	nber of sa ute to a W	amples, and QS violation	the chro	nic dilution	ratio. A com	parison of t	he pr	2A application), a ojected instream n level has been	
Methylene chloride	µg/L	-	-	< 10	3	-	-	-	Not Detected	200	No Reasonable Potential 6 NYC	6 NYCRR	-	Discontinued		
	lb/d	Daily Max	1.5 Action Level	< 0.04	0 / 10	-	-	-	-	-	H(FC)	-	703.5	-	Action Level	
	A max on the	concentration non-detect da	n of < 10 ata, the a	μg/L was action level	reported out I has been di	of 3 sample scontinued.	es in the NY-2A a	pplication	and is cons	sistent with	the non-de	etect loading c	lata reporte	d on t	he DMRs. Based	

Outfall #	008	Description	n of Wast	tewater: T	reated Sanit	ary Sewage	e and Process W	astewater								
Outrall #	Type of Treatment: Screening, Grit Removal, Primary Settling Tanks, Trickling Filters, Final Settling Tanks, Chlorine Disinfection															
			Existing Discharge Data			TBELs			Wa	ater Qualit	y Data & W	QBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permi Requirement	
Di (2- ethylhexyl) phthalate	µg/L	Daily Max	-	12	12	-	-	-	0.19	0.6	A(C)	No Reasonable A(C) Potential	Reasonable 6 NYCRR	6 NYCRR 703.5	-	Discontinued Monitoring
	lb/d	Daily Max	Monitor	0.084 Max	2/8	-	-	-	-	-		-	10010	-	morning	
	upstrea	am concentra	tion, a m	ultiplier of	1.60 to acco	ount for the		les, and th	e chronic d	ilution rati	o. A compa	rison of the p	rojected ins	tream	tion), a negligible concentration to removed.	
Di-n-butyl phthalate	µg/L	Daily Max	-	< 5	3	-	-	-	-		e: None in amounts that versely affect the taste, odor thereof, or impair ers for their best usages.				Discontinued	
printialato	lb/d	Daily Max	Monitor	0.12 Max	1 / 9	-	-	-	-	color or			-	Monitoring		
	detectio	on reported in	n Septem	ber 2017).	There is no	applicable r		ality stand	ard for di-n-	butyl phth	alate to a C	lass B waterb	ody. Based	on the	the DMRs (single e non-detect data e.	
Phenols, total	µg/L	Daily Max	-	< 2	9	-	-	-	Not Detected	5.0	E(FS) Potential		6 NYCRR 703.5	-	Discontinued Monitoring	
	lb/d	Daily Max	Monitor	0.08 Max	1/9	-	-	-	-	-		-	100.0	-	Worldoring	
	detectio		n March 2	2017). Bas											he DMRs (single biennial pollutant	
4-Methylphenol	lb/d	Daily Max	Monitor	< 0.2	0 / 10		-	-	-	will adv color or	versely affeor	amounts that ct the taste, of, or impair best usages.	6 NYCRR 703.2	-	Discontinued Monitoring	
		arameter has ohenol to a C			due to non-	detection (<	< 0.2 lb/d) in the l	last five ye	ears of sam	pling, and	lack of an a	applicable nur	neric water	quali	ty standard for 4-	
2- Methylnaphthal ene	lb/d	Daily Max	Monitor	< 0.1	0 / 10		-	-	-	will adv color or	versely affeor	amounts that ct the taste, of, or impair best usages.	6 NYCRR 703.2	-	Discontinued Monitoring	
		arameter has naphthalene				detection (<	<0.1 lb/d) in the l	ast five ye	ars of samp	oling, and	lack of an a	applicable nur	neric water	quali	ty standard for 2-	

Outfall #	008	Description	n of Wast	tewater: ⊺	reated Sanit	ary Sewage	e and Process Wa	astewater							
Outfall #	000	Type of Treatment: Screening, Grit Removal, Primary Settling Tanks, Trickling Filters, Final Settling Tanks, Chlorine Disinfection													
Effluent Parameter	Units		Existing Discharge Data			٦	ΓBELs		Wa	ter Quality	/ Data & W	QBELs			
		Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Additional Poll	utants I	Detected							•						
Total dissolved solids (TDS)	mg/L	-	-	1200 Max	3	-	-	404*	436	500		No Reasonable Potential	6 NYCRR 703.3		No Limitation
	The projected instream concentration was calculated using the maximum reported effluent concentration of 1200 mg/L, an ambient background concentration of 404 mg/L*, a multiplier of 3.00, and the chronic dilution ratio. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation and therefore no limitations or monitoring is required.														
	downst	ream from th	e dischar	ge and inc	ludes contrib	oution from	7-OSWE-5.2 in I Fulton (C) WPCF pared with the flo	. It was us	ed to repres	sent the ar	nbient upsti	ream concent	ration in this		
Nitrate (as N)	mg/L	-	-	0.64 Max	3		ŀ		•	amounts of algae	that will res weeds and	n): None in ult in growths d slimes that ers for their es.	6 NYCRR 703.2	-	No Limitation
							pplication. There pollutant scan w								
Nitrite (as N)	mg/L	-	-	4.5 Max	3			-	-	amounts of algae	that will res weeds and	n): None in ult in growths d slimes that ers for their es.	6 NYCRR 703.2	-	No Limitation
							pplication. There pollutant scan w								

## Appendix: Regulatory and Technical Basis of Permit Authorizations

The Appendix is meant to supplement the factsheet for multiple types of SPDES permits. Portions of this Appendix may not be applicable to this specific permit.

#### Regulatory References

The provisions of the permit are based largely upon 40 CFR 122 subpart C and 6 NYCRR Part 750 and include monitoring, recording, reporting, and compliance requirements, as well as general conditions applicable to all SPDES permits. Below are the most common citations for the requirements included in SPDES permits:

- Clean Water Act (CWA) 33 section USC 1251 to 1387
- Environmental Conservation Law (ECL) Articles 17 and 70
- Federal Regulations
  - o 40 CFR, Chapter I, subchapters D, N, and O
  - State environmental regulations
    - o 6 NYCRR Part 621
    - o 6 NYCRR Part 750
    - 6 NYCRR Parts 700 704 Best use and other requirements applicable to water classes
    - o 6 NYCRR Parts 800 941 Classification of individual surface waters
  - NYSDEC water program policy, referred to as Technical and Operational Guidance Series (TOGS)
- USEPA Office of Water Technical Support Document for Water Quality-based Toxics Control, March 1991, Appendix E

The following is a quick guide to the references used within the factsheet:

SPDES Permit Requirements	Regulatory Reference							
Anti-backsliding	6 NYCRR 750-1.10(c)							
Best Management Practices (BMPS) for CSOs	6 NYCRR 750-2.8(a)(2)							
Environmental Benefits Permit Strategy (EBPS)	6 NYCRR 750-1.18, NYS ECL 17-0817(4), TOGS 1.2.2 (revised January 25,2012)							
Exceptions for Type I SSO Outfalls (bypass)	6 NYCRR 750-2.8(b)(2), 40 CFR 122.41							
Mercury Multiple Discharge Variance	Division of Water Program Policy 1.3.10 (DOW 1.3.10)							
Mixing Zone and Critical Water Information	TOGS 1.3.1 & Amendments							
PCB Minimization Program	40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a) and 750-1.14(f), and TOGS 1.2.1							
Pollutant Minimization Program (PMP)	6 NYCRR 750-1.13(a), 750-1.14(f), TOGS 1.2.1							
Schedules of Compliance	6 NYCRR 750-1.14							
Sewage Pollution Right to Know (SPRTK)	NYS ECL 17-0826-a, 6 NYCRR 750-2.7							
State Administrative Procedure Act (SAPA)	State Administrative Procedure Act Section 401(2), 6 NYCRR 621.11(I)							
State Environmental Quality Review (SEQR)	6 NYCRR Part 617							
USEPA Effluent Limitation Guidelines (ELGs)	40 CFR Parts 405-471							
USEPA National CSO Policy	33 USC Section 1342(q)							
Whole Effluent Toxicity (WET) Testing	TOGS 1.3.2							
General Provisions of a SPDES Permit Department Request for Additional Information	6 NYCRR 750-2.1(i)							

#### Outfall and Receiving Water Information

#### **Impaired Waters**

The <u>NYS 303(d) List of Impaired/TMDL Waters</u> identifies waters where specific best usages are not fully supported. The state must consider the development of a Total Maximum Daily Load (TMDL) or other strategy to reduce the input of the specific pollutant(s) that restrict waterbody uses, in order to restore and protect such uses. SPDES permits must include effluent limitations necessary to implement a WLA of an EPA-approved TMDL (6 NYCRR 750-1.11(a)(5)(ii)), if applicable. In accordance with 6 NYCRR 750-1.13(a), permittees discharging to waters which are on the list but do not yet have a TMDL developed may be required to perform additional monitoring for the parameters causing the impairment. Accurate monitoring data is needed to

determine the existing capabilities of the wastewater treatment plants and to assure that wasteload allocations (WLAs) are allocated equitably.

#### Interstate Water Pollution Control Agencies

Some POTWs may be subject to regulations of interstate basin/compact agencies including: Interstate Sanitation Commission (ISC), International Joint Commission (IJC), Delaware River Basin Commission (DRBC), Ohio River Valley Water Sanitation Commission (ORSANCO), and the Susquehanna River Basin Commission (SRBC). Generally, basin commission requirements focus principally on water quality and not treatment technology. However, interstate/compact agency regulations for the ISC, IJC, DRBC and NYC Watershed contain explicit effluent limits which must be addressed during permit drafting. 6 NYCRR 750-2.1(d) requires SPDES permits for discharges that originate within the jurisdiction of an interstate water pollution control agency, to include any applicable effluent standards or water quality standards (WQS) promulgated by that interstate agency.

#### Existing Effluent Quality

The existing effluent quality (EEQ) is determined from a statistical evaluation of effluent data in accordance with TOGS 1.2.1 and the USEPA Office of Water, <u>Technical Support Document for Water Quality-based Toxics</u> <u>Control</u>, March 1991, Appendix E (TSD). The existing effluent quality is equal to the 95<sup>th</sup> (monthly average) and 99<sup>th</sup> (daily maximum) percentiles of the lognormal distribution of existing effluent data. When there are greater than three non-detects, a delta-lognormal distribution is assumed, and delta-lognormal calculations are used to determine the monthly average and daily maximum pollutant concentrations. Statistical calculations are not performed for parameters where there are less than ten data points. If additional data is needed, a monitoring requirement may be specified either through routine monitoring or a short-term high intensity monitoring program. The <u>Pollutant Summary Table</u> identifies the number of sample data points available.

#### Permit Requirements

#### Basis for Effluent Limitations

Sections 101, 301, 304, 308, 401, 402, and 405 of the CWA and Titles 5, 7, and 8 of Article 17 ECL, as well as their implementing federal and state regulations, and related guidance, provide the basis for the effluent limitations and other conditions in the permit.

When conducting a full technical review of an existing permit, the previous effluent limitations form the basis for the next permit. Existing effluent quality is evaluated against the existing effluent limitations to determine if these should be continued, revised, or deleted. Generally, existing limitations are continued unless there are changed conditions at the facility, the facility demonstrates an ability to meet more stringent limitations, and/or in response to updated regulatory requirements. Pollutant monitoring data is also reviewed to determine the presence of additional contaminants that should be included in the permit based on a reasonable potential analysis to cause or contribute to a water quality standards violation.

#### Anti-backsliding

Anti-backsliding requirements are specified in the CWA sections 402(o) and 303(d)(4), ECL 17-0809, and regulations at 40 CFR 122.44(*I*) and 6 NYCRR 750-1.10(c) and (d). Generally, the relaxation of effluent limitations in permits is prohibited unless one of the specified exceptions applies, which will be cited on a case-by-case basis in this factsheet. Consistent with current case law<sup>15</sup> and USEPA interpretation<sup>16</sup> anti-backsliding requirements do not apply should a revision to the final effluent limitation take effect before the scheduled date of compliance for that final effluent limitation.

 <sup>&</sup>lt;sup>15</sup> American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)
<sup>16</sup> U.S. EPA, Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; 65 Fed. Reg. 31682, 31704 (May 18, 2000); Proposed Water Quality Guidance for the Great Lakes System, 58 Fed. Reg. 20802, 20837 & 20981 (April 16, 1993)
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#### Antidegradation Policy

New York State implements the antidegradation portion of the CWA based upon two documents: (1) Organization and Delegation Memorandum #85-40, "Water Quality Antidegradation Policy" (September 9, 1985); and, (2) TOGS 1.3.9, "Implementation of the NYSDEC Antidegradation Policy – Great Lakes Basin (Supplement to Antidegradation Policy dated September 9, 1985) (undated)." The permit for the facility contains effluent limitations which ensure that the existing best usage of the receiving waters will be maintained. To further support the antidegradation policy, SPDES applications have been reviewed in accordance with the State Environmental Quality Review Act (SEQR) as prescribed by 6 NYCRR Part 617.

#### **Effluent Limitations**

In developing a permit, the Department determines the technology-based effluent limitations (TBELs) and 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 of water quality criteria to occur, water quality-based effluent limitations (WQBELs) are developed. A WQBEL is designed to ensure that the water quality standards of receiving waters are met. In general, the CWA requires that the effluent limitations for a particular pollutant are the more stringent of either the TBEL or WQBEL.

#### Technology-based Effluent Limitations (TBELs)

CWA sections 301(b)(1)(B) and 304(d)(1), 40 CFR 133.102, ECL section 17-0509, and 6 NYCRR 750-1.11 require technology-based controls, known as secondary treatment. These and other requirements are summarized in TOGS 1.3.3. Where the TBEL is more stringent than the WQBEL, the TBEL is applied as a limit in accordance with TOGS 1.3.3. Equivalent secondary treatment, as defined in 40 CFR 133.105, allow for effluent limitations of the more stringent of the consistently achievable concentrations or monthly/weekly averages of 45/65 mg/l, and the minimum monthly average of at least 65% removal. Consistently achievable concentrations are defined in 40 CFR 133.101(f) as the 95th percentile value for the 30-day (monthly) average effluent quality achieved by the facility in a period of two years. The achievable 7-day (weekly) average value is equal to 1.5 times the 30-day average value calculated above. Equivalent secondary treatment applies to those facilities where the principal treatment process is either a trickling filter or a waste stabilization pond; the treatment works provides significant biological treatment of municipal wastewater; and, the effluent concentrations consistently achievable through proper operation and maintenance of the facility cannot meet traditional secondary treatment requirements. There are no federal technology-based standards for toxic pollutants from POTWs. A statistical analysis of existing effluent data, as described in TOGS 1.2.1, may be used to establish other performance-based TBELs.

#### Water Quality-Based Effluent Limitations (WQBELs)

In addition to the TBELs, permits must include additional or more stringent effluent limitations and conditions, including those necessary to protect water quality. CWA sections 101 and 301(b)(1)(C), 40 CFR 122.44(d)(1), and 6 NYCRR Parts 750-1.11 require that permits include limitations for all pollutants or parameters which are or may be discharged at a level which may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. Water quality standards can be found under 6 NYCRR Parts 700-704. The limitations must be stringent enough to ensure that water quality standards are met and must be consistent with any applicable WLA which may be in effect through a TMDL for the receiving water. These and other requirements are summarized in TOGS 1.1.1, 1.3.1, 1.3.2, 1.3.5 and 1.3.6. The Department considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

#### Mixing Zone Analyses

In accordance with TOGS 1.3.1., the Department may perform additional analysis of the mixing condition between the effluent and the receiving waterbody. Mixing zone analyses using plume dispersion modeling are conducted in accordance with the following:

"EPA Technical Support Document for Water Quality-Based Toxics Control" (March 1991); EPA Region VIII's "Mixing Zones and Dilution Policy" (December 1994); NYSDEC TOGS 1.3.1, "Total

Maximum Daily Loads and Water Quality-Based Effluent Limitations" (July 1996); "CORMIX v11.0" (2019).

#### Critical Flows

In accordance with TOGS 1.2.1 and 1.3.1, WQBELs are developed using dilution ratios that relate the critical low flow condition of the receiving waterbody to the critical effluent flow. The critical low flow condition used in the dilution ratio will be different depending on whether the limitations are for aquatic or human health protection. For chronic aquatic protection, the critical low flow condition of the waterbody is typically represented by the 7Q10 flow and is calculated as the lowest average flow over a 7-day consecutive period within 10 years. For acute aquatic protection, the critical low flow condition is typically represented by the 1Q10 and is calculated as the lowest 1-day flow within 10 years. However, NYSDEC considers using 50% of the 7Q10 to be equivalent to the 1Q10 flow. For the protection of human health, the critical low flow condition is typically represented by the 30Q10 flow and is calculated as the lowest average flow over a 30-day consecutive period within 10 years. However, NYSDEC considers using 1.2 x 7Q10 to be equivalent to the 30Q10. The 7Q10 or 30Q10 flow is used with the critical effluent flow to calculate the dilution ratio. The critical effluent flow can be the maximum daily flow reported on the permit application, the maximum of the monthly average flows from discharge monitoring reports for the past three years, or the facility design flow. When more than one applicable standard exists for aquatic or human health protection for a specific pollutant, a reasonable potential analysis is conducted for each applicable standard and corresponding critical flow to ensure effluent limitations are sufficiently stringent to ensure all applicable water quality standards are met as required by 40 CFR 122.44(d)(1)(i). For brevity, the pollutant summary table reports the results of the most conservative scenario.

#### Reasonable Potential Analysis (RPA)

The Reasonable Potential Analysis (RPA) is a statistical estimation process, outlined in the 1991 USEPA Technical Support Document for Water Quality-based Toxics Control (TSD), Appendix E. This process uses existing effluent quality data and statistical variation methodology to project the maximum amounts of pollutants that could be discharged by the facility. This projected instream concentration (PIC) is calculated using the appropriate ratio and compared to the water quality standard (WQS). When the RPA process determines the WQS may be exceeded, a WQBEL is required. The procedure for developing WQBELs includes the following steps:

1) identify the pollutants present in the discharge(s) based upon existing data, sampling data collected by the Permittee as part of the permit application or a short-term high intensity monitoring program, or data gathered by the Department;

2) identify water quality criteria applicable to these pollutants;

3) determine if WQBELs are necessary (i.e. reasonable potential analysis (RPA)). The RPA will utilize the procedure outlined in Chapter 3.3.2 of EPA's Technical Support Document (TSD). As outlined in the TSD, for parameters with limited effluent data the RPA may include multipliers to account for effluent variability; and,

4) calculate WQBELs (if necessary). Factors considered in calculating WQBELs include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources.

The Department uses modeling tools to estimate the expected concentrations of the pollutant in the receiving water and develop WQBELs. These tools were developed in part using the methodology referenced above. If the estimated concentration of the pollutant in the receiving water is expected to exceed the ambient water quality standard or guidance value (i.e. numeric interpretation of a narrative water quality standard), then there is a reasonable potential that the discharge may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. If a TMDL is in place, the facility's WLA for that pollutant is applied as the WQBEL.

For carbonaceous and nitrogenous oxygen demanding pollutants, the Department uses a model which incorporates the Streeter-Phelps equation. The equation relates the decomposition of inorganic and organic materials along with oxygen reaeration rates to compute the downstream dissolved oxygen concentration for comparison to water quality standards.

A Watershed Maximum Daily Load (WMDL) may be developed by the Department to account for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments. The WMDL uses a simple dilution model, assuming full mix in the receiving stream, to calculate the maximum allowable pollutant load that can be discharged and still meet water quality standards during critical low flow in downstream segments such as those with sensitive receptors (e.g. public water supply) or higher water classification. WQBELs are established to ensure that the cumulative mass load from point source discharges does not exceed the maximum allowable load to ensure permit limits are protective of water quality.

#### Whole Effluent Toxicity (WET) Testing:

WET tests use small vertebrate and invertebrate species to measure the aggregate toxicity of an effluent. There are two different durations of toxicity tests: acute and chronic. Acute toxicity tests measure survival over a 96-hour test exposure period. Chronic toxicity tests measure reductions in survival, growth, and reproduction over a 7-day exposure. TOGS 1.3.1 includes guidance for determining when aquatic toxicity testing should be included in SPDES permits. The authority to require toxicity testing is in 6NYCRR 702.9. TOGS 1.3.2 describes the procedures which should be followed when determining whether to include toxicity testing in a SPDES permit and how to implement a toxicity testing program. Per TOGS 1.3.2, WET testing may be required when any one of the following seven criteria are applicable:

- 1. There is the presence of substances in the effluent for which ambient water quality criteria do not exist.
- 2. There are uncertainties in the development of TMDLs, WLAs, and WQBELs, caused by inadequate ambient and/or discharge data, high natural background concentrations of pollutants, available treatment technology, and other such factors.
- 3. There is the presence of substances for which WQBELs are below analytical detectability.
- 4. There is the possibility of complex synergistic or additive effects of chemicals, typically when the number of metals or organic compounds discharged by the Permittee equals or exceeds five.
- 5. There are observed detrimental effects on the receiving water biota.
- 6. Previous WET testing indicated a problem.
- 7. POTWs which exceed a discharge of 1 MGD. Facilities of less than 1 MGD may be required to test, e.g., POTWs <1 MGD which are managing industrial pretreatment programs.

#### Minimum Level of Detection

Pursuant to 40 CFR 122.44(i)(1)(iv) and 6 NYCRR 750-2.5(d), SPDES permits must contain monitoring requirements using sufficiently sensitive test procedures approved under 40 CFR Part 136. A method is "sufficiently sensitive" when the method's minimum level (ML) is at or below the level of the effluent limitation established in the permit for the measured pollutant parameter; or the lowest ML of the analytical methods approved under 40 CFR Part 136. The ML represents the lowest level that can be measured within specified limitations of precision and accuracy during routine laboratory operations on most effluent matrices. When establishing effluent limitations for a specific parameter (based on technology or water quality requirements), it is possible that the calculated limitation will fall below the ML established by the approved analytical method(s). In these instances, the calculated limitation is included in the permit with a compliance level set equal to the ML of the most sensitive method.

#### **Monitoring Requirements**

CWA section 308, 40 CFR 122.44(i), 6 NYCRR 750-1.13, and 750-2.5 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 reporting results on Discharge Monitoring Reports (DMRs). The permit contains the monitoring

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requirements for the facility. Monitoring frequency is based on the minimum sampling necessary to adequately monitor the facility's performance and characterize the nature of the discharge of the monitored flow or pollutant. Variable effluent flows and pollutant levels may be required to be monitored at more frequent intervals than relatively constant effluent flow and pollutant levels (6 NYCRR 750-1.13). For industrial facilities, sampling frequency is based on guidance provided in TOGS 1.2.1. For municipal facilities, sampling frequency is based on guidance provided in TOGS 1.3.3.

#### **Other Conditions**

#### Mercury

The multiple discharge variance (MDV) for mercury was developed in accordance with 6 NYCRR 702.17(h) "to address widespread standard or guidance value attainment issues including the presence of a ubiquitous pollutant or naturally high levels of a pollutant in a watershed." The first MDV was issued in October 2010, and subsequently revised and reissued in 2015; each subsequent iteration of the MDV is designed to build off the previous version, to make reasonable progress towards the water quality standard (WQS) of 0.7 ng/L dissolved mercury. The MDV is necessary because human-caused conditions or sources of mercury prevent attainment of the WQS and cannot be remedied (i.e., mercury is ubiquitous in New York waters at levels above the WQS and compliance with a water quality based effluent limitation (WQBEL) for mercury cannot be achieved with demonstrated effluent treatment technologies). The Department has determined that the MDV is consistent with the protection of public health, safety, and welfare. During the effective period of this MDV, any increased risks to human health are mitigated by fish consumption advisories issued periodically by the NYSDOH.

All surface water SPDES permittees are eligible for authorization by the MDV provided they meet the requirements specified in DOW 1.3.10.

#### Schedules of Compliance

Schedules of compliance are included in accordance with 40 CFR Part 132 Attachment F, Procedure 9, 40 CFR 122.47 and 6 NYCRR 750-1.14. Schedules of compliance are intended to, in the shortest reasonable time, achieve compliance with applicable effluent standards and limitations, water quality standards, and other applicable requirements. Where the time for compliance is more than nine months, the schedule of compliance must include interim requirements and dates for their achievement. If the time necessary to complete the interim milestones is more than nine months, and not readily divisible into stages for completion, progress reports must be required.

#### Schedule(s) of Additional Submittals

Schedules of Additional Submittals are used to summarize the deliverables required by the permit not identified in a separate Schedule of Compliance.