

# State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: <b>4952</b>	NAICS Code:	221320 SPDES		SPDES Number:	NY 002 5429
Discharge Class (CL):	07			DEC Number:	3-1358-00012/00003
Toxic Class (TX):	Т			Effective Date (EDP):	TBD
Major-Sub Drainage Basin:	13 - 05			Expiration Date (ExDP):	TBD
Water Index Number:	H-101-21	Item No.:	857 - 089	Madification Dates (EDDM):	
Compact Area:	-			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.

PERMITTEE NAME AND ADDRESS									
Name:	Village of Millbrook	Attention:	Mayar	Mayor					
Street:	35 Merrit Avenue, PO Box 349		wayor						
City:	Millbrook	State:	NY	Zip Code:	12545				
Email:	villageofmillbrookmayor@gmail.com	Phone:	(845) 6	77-3939					

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL																	
Name:	Millbro	Ibrook Sewage Treatment Plant															
Address / Location:	39 Nor	North Avenue County: Dutchess															
City:	Millbro	ok							State:	NY	Zip Code	Zip Code:			12545		
Facility Location:		Latitude:	K	41	0	47	,	19.42	" N	& Longitude:	73	0		41	49.99	" W	
Primary Outfall No.:	001	Latitude:		41	0	47	,	20.51	" N	& Longitude:	73	0		41	48.91	" W	
Outfall Description:	Treate	d Sanitary	Rece	eivir	ng '	Wate	r:		Branch ingers		Class:		С	Sta	ndard:	C(T)	

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:**

Village of Millbrook
Tighe & Bond
Dutchess County Department of Health
BWP Permit Coordinator
BWP Permit Writer
RWE
RPA
EPA Region II
NYSEFC

Permit Administrator:						
Address:	21 S. Putt Corners Rd New Paltz, NY 12561					
Signature		Date				

# Contents

SUMMARY OF OVERFLOW RETENTION FACILITIES (ORF) OUTFALLS	
DEFINITIONS	
INTERIM PERMIT LIMITS, LEVELS AND MONITORING	
INTERIM PERMIT LIMITS, LEVELS AND MONITORING	
FINAL PERMIT LIMITS, LEVELS AND MONITORING	
MERCURY MINIMIZATION PROGRAM (MMP) - Type II	
DISCHARGE NOTIFICATION REQUIREMENTS	
SCHEDULE OF COMPLIANCE	17
MONITORING LOCATIONS	18
MONITORING LOCATIONS (Continued)	19
GENERAL REQUIREMENTS	
RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS	24
E. Schedule of Additional Submittals:	24

# SUMMARY OF OVERFLOW RETENTION FACILITIES (ORF) OUTFALLS

In accordance with 6 NYCRR Part 750-2.8(b)(2) and 40 CFR 122.41, bypasses of the collection and treatment system without treatment are prohibited except when (1) the bypass is necessary and unavoidable to prevent loss of life, personal injury, public health hazard, environmental degradation, or severe property damage and (2) there is no feasible alternative to the bypass and (3) the permittee complies with the notice requirements in 6 NYCRR Part 750-2.7. Pursuant to ECL 17-0505, ORF outfalls are required to be listed in permit.

The following ORF outfalls constitute approved anticipated bypasses, provided that the permittee maintains compliance with the attached effluent limits, best management practices, compliance schedule, and CMOM Plan. The discharges from the listed ORFs is only allowed after the plant's full capacity has been utilized and maximized, and the capacity of the ORF has been reached. The Department reserves the right to modify these requirements.

The following onsite ORFs, which discharge from the POTW, have been identified:

Outfall Type of Discharge		Outfa	II Latitude			Outfall Longitude			
002	Partially Treated Sewage	41	11 ° 47 ' 19 " N 73 ° 41 ' 55				" W		
Receiving	Water: Mixes with chlorine tank influent an 001	d disc	charges t	hrough O	utfall	Class:	C(T)		·



# **DEFINITIONS**

TERM	DEFINITION
7-Day Geo Mean	The highest allowable geometric mean of daily discharges over a calendar week.
7-Day Average	The average of all daily discharges for each 7-days in the monitoring period. The sample measurement is the highest of the 7-day averages calculated for the monitoring period.
12-Month Rolling Average (12 MRA)	The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by the number of months for which samples were collected in the 12-month period.
30-Day Geometric Mean	The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of: the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Action Level	Action level means a monitoring requirement characterized by a numerical value that, when exceeded, triggers additional permittee actions and DEC review to determine if numerical effluent limitations should be imposed.
Compliance Level / Minimum Level	A compliance level is an effluent limitation. A compliance level is given when the water quality evaluation specifies a Water Quality Based Effluent Limit (WQBEL) below the Minimum Level. The compliance level shall be set at the Minimum Level (ML) for the most sensitive analytical method as given in 40 CFR Part 136, or otherwise accepted by the DEC.
Daily Discharge	The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.
Daily Maximum	The highest allowable Daily Discharge.
Daily Minimum	The lowest allowable Daily Discharge.
Effective Date of Permit (EDP or EDPM)	The date this permit is in effect.
Effluent Limitations	Effluent limitation means any restriction on quantities, quality, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into waters of the state.
Expiration Date of Permit (ExDP)	The date this permit is no longer in effect.
Instantaneous Maximum	The maximum level that may not be exceeded at any instant in time.
Instantaneous Minimum	The minimum level that must be maintained at all instants in time.
Monthly Average	The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Outfall	The terminus of a sewer system, or the point of emergence of any waterborne sewage, industrial waste or other wastes or the effluent therefrom, into the waters of the State.
Range	The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.
Receiving Water	The classified waters of the state to which the listed outfall discharges.
Sample Frequency / Sample Type / Units	See NYSDEC's "DMR Manual for Completing the Discharge Monitoring Report for the SPDES" for information on sample frequency, type and units.

# INTERIM PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	LIMITATIONS APPLY	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All year unless otherwise noted	East Branch of Wappingers Creek	TBD	New Facility Construction Complete

	EFF	LUENT L	IMITATIO	ON		MONITO	RING REQUIRE	EMEN	TS	
PARAMETER								Loc	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	12 MRA	0.25	MGD			Continuous	Estimate	Х		3
Flow	Monthly Average	Report	MGD			Continuous	Recorder	Х		6
BOD₅	Monthly Average	15	mg/L	31	lbs/d	Monthly	6-hr. Comp.	Х	Х	1,6
BOD₅	7-Day Average	23	mg/L	47	lbs/d	Monthly	6-hr. Comp.		Х	5
Total Suspended Solids (TSS)	Monthly Average	15	mg/L	31	lbs/d	Monthly	6-hr. Comp.	X	х	1,6
Total Suspended Solids (TSS)	7-Day Average	23	mg/L	47	lbs/d	Monthly	6-hr. Comp.		х	5
Settleable Solids	Daily Maximum	0.1	mL/L			Daily	Grab		Х	4
-11	Daily Minimum	6.5	SU			Daily	Crah		X	4
рН	Daily Maximum	8.5	SU			Daily	Grab		^	4
Ammonia (as N)	Monthly Average	5.0	mg/L			Monthly	6-hr. Comp.		Х	5,6
Total Phosphorus (as P)	Daily Maximum	Monitor	mg/L			Monthly	Grab		Х	4
Dissolved Oxygen	Daily Minimum	5.0	mg/L			2/year	Grab		Х	
EFFLUENT DISINFECTION Required Seasonal from Ma	y 1st - October 31st	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Coliform, Fecal	30-Day Geometric Mean	200	No./ 100 mL			Monthly	Grab		х	
Coliform, Fecal	7-Day Geometric Mean	400	No./ 100 mL			Monthly	Grab		х	
Chlorine, Total Residual	Daily Maximum	0.1	mg/L			Daily	Grab		Х	2,4
ACTION LEVEL PARAMETERS	Туре	Action Level	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Temperature	Daily Maximum	70	۰F			Daily	Grab		Х	4,7

#### **Footnotes Continued on Next Page**

#### **FOOTNOTES:**

- 1. Effluent shall not exceed 15% of influent concentration values for both BOD<sub>5</sub> & TSS.
- 2. 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.

SPDES Number: **NY 002 5429**Page 6 of 26 v.1.27

3. The 12-month rolling average for Flow is defined as the sum of the current month's monthly average concentration or load 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. Daily max shall be calculated based on the arithmetic mean of samples taken during any calendar day.
- 5. The seven-day average shall be calculated as the average of the results for each of the discharge days over the seven-day period.
- 6. The monthly average is the highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

#### 7. Temperature Action Level – Monitoring Program

If the discharge temperature exceeds the Action Level of 70°F the permittee shall, within one week, undertake the following sampling program. Temperature shall be measured at the following three locations, all within one hour, on the same day, once in the morning and once in the afternoon:

- 1. Effluent sample as close as practical to the outfall without interference from the receiving water
- 2. Downstream receiving water sample approximately 200 feet downstream of Outfall 001
- 3. Upstream receiving water sample 0 to 10 feet upstream of Outfall 001 (as long as the sampling location is not affected by the effluent and the same location is monitored every time)

The permittee is exempt from this temperature monitoring program whenever conditions at or near the monitoring locations are unsafe due to weather.

Results shall be appended to the corresponding Discharge Monitoring Report (DMR) and emailed in spreadsheet format to spdes.temperaturedata@dec.ny.gov.

Upon review of the data it may be necessary that a Temperature Management Plan be developed and implemented. If the Action Level is routinely or excessively exceeded, the permit may be subject to modification to incorporate additional monitoring requirements or effluent limits. This requirement supersedes the Action level requirement on the Permit Limits, Levels and Monitoring Definitions page for Temperature.

#### SPECIAL CONDITIONS

A) There shall be no sewer extensions without prior DEC approval. Any proposed connections for the future will require development and submission of an online capacity assessment as well as demonstration of a 3:1 ratio reduction of excess infiltration & inflow vs proposed new waste flow.

## INTERIM PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
002 WWTP + ORF	During ORF Discharges	Same as Outfall 001	EDPM	New Facility Construction Complete

DADAMETED	EFF	LUENT L	IMITATIO	NC		MONITO	RING REQUIRE	Location  Inf. Eff.  X X  P X  X  X  X		
PARAMETER								Loc	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Daily Maximum	Monitor	MGD			Continuous	Recorder	х	Х	1,2,4, 7,9
BOD5	Monthly Average	22	mg/L			Daily	6-hr. Comp		Х	1,6,8, 9,10
Solids, Total Suspended (TSS)	Monthly Average	15	mg/L			Daily	6-hr. Comp		Х	1,6,8, 9,10
Solids, Settleable	Daily Maximum	1.4	mL/L			Daily	Grab		Х	1,4,8, 9
На	Daily Minimum	Monitor	SU			Daily	Grab		_	1,4,9
рп	Daily Maximum	Monitor	SU			Daily	Grab		^	1,4,9
Ammonia (as N)	Monthly Average	6.4	mg/L			Monthly	6-hr. Comp.		X	1,6,8, 9
Oil & Grease	Daily Maximum	Monitor	mg/L			Daily	Grab		Х	1,4,9
Floatable Material	Daily Maximum	Monitor				Daily	Visual Observation		Х	4
Precipitation	Daily Maximum	Monitor	inches			Daily	Onsite Rain Gauge			3,4
Effluent Disinfection Required	d Year-Round			5	-	-	-	-	_	_
Coliform, Fecal	30-Day Geometric Mean	Monitor	No./ 100 mL			Monthly	Grab		Х	1,8,9
Coliform, Fecal	7 Day Geometric Mean	Monitor	No./ 100 mL			Monthly	Grab		Х	1,8,9
Chlorine, Total Residual	Daily Maximum	2.0	mg/L			Daily	Grab		Х	1,4,8 ,9,11

#### **Footnotes Continued on Next Page**

#### **FOOTNOTES:**

- 1. The effluent limitations in this table shall only apply when the ORF discharges. The compliance sampling location is the same as Outfall 001 after blending and disinfection. If there is no discharge from the ORF in any given month, the DMR shall be submitted with no discharges listed.
- 2. No discharge is permitted except as caused by excess flows above the wet weather capacity of the treatment plant (0.25 MGD) and only after the 0.4 MG capacity for the ORF is exceeded. All flows are reported on the monthly DMRs *and* the monthly operating report.
- 3. The permittee shall report daily and monthly total precipitation values in the monthly operating report.
- 4. Daily max shall be calculated based on the arithmetic mean of samples taken during any calendar day.

SPDES Number: **NY 002 5429**Page 8 of 26 v.1.27

5. The seven-day average shall be calculated as the average of the results for each of the discharge days over the seven-day period. For example, if the ORF discharges for three days [or any part of a day] during the period, the average of the three days would constitute the seven-day average for the purposes of compliance.

- 6. The monthly average is the highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- 7. All flow discharged from the ORF shall be continuously recorded and totalized.
- 8. The permittee shall monitor the combined discharge from the ORF and the WWTP for the above parameters on a daily basis whenever the ORF is discharging. For grab samples, a second grab sample of the combined discharge shall be collected if the daily sample had already been collected prior the ORF discharging. The permittee shall append a summary of all sampling results, including flow records, collected during ORF discharge events as an attachment to the monthly operating report.
- 9. These parameters shall be sampled at the same location where the samples for Outfall 001 are collected.
- 10. Effluent shall not exceed 15% of influent concentration values for both BOD<sub>5</sub> & TSS.
- 11. 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.

#### SPECIAL CONDITIONS FOR OPERATION OF OVERFLOW RETENTION FACILITY

- a) The permittee shall monitor the effluent from the ORF for all permitted parameters cited above at the specified monitoring frequency and sample type. This data and the sampling information required by the "Permit Limits, Levels and Monitoring" table above, shall be submitted with the monthly DMRs.
- b) The facilities shall be operated in conjunction with the tributary sewer system, pump stations and the POTW treatment plant to maximize pollutant removal.
- c) The contents of the ORF (i.e. captured wastewater) shall not be delivered to the POTW Treatment Plant at a rate which would exceed the peak daily or peak hourly flow or loading.
- d) Flow shall not be delivered to the POTW treatment plant at a rate that will cause an upset as defined by 6 NYCRR Part 750-2, "Operating in Accordance with a SPDES Permit."
- e) See Schedule of Compliance for Inflow and Infiltration Management Plan

# FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	LIMITATIONS APPLY	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All year unless otherwise noted	East Branch of Wappingers Creek	New Facility Construction Complete	TBD

	EFF	LUENT L	IMITATIO	ON		MONITO	RING REQUIRE	MEN	TS	
PARAMETER	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Loca Inf.	ation Eff.	FN
Flow	Monthly Average	0.37	MGD			Continuous	Recorder	Х		8
CBOD₅	Monthly Average	15	mg/L	46	lbs/d	Monthly	6-hr. Comp.	Х	Х	1.8
CBOD₅	7-Day Average	23	mg/L	71	lbs/d	Monthly	6-hr. Comp.		Х	7
Total Suspended Solids (TSS)	Monthly Average	15	mg/L	46	lbs/d	Monthly	6-hr. Comp.	Х	Х	1,8
Total Suspended Solids (TSS)	7-Day Average	23	mg/L	71	lbs/d	Monthly	6-hr. Comp.		Х	7
Settleable Solids	Daily Maximum	0.1	mL/L			1/day	Grab		Х	6
Total Dissolved Solids	Daily Maximum	1300	mg/L			Monthly	Grab		Х	6
	Daily Minimum	6.5	SU			1/day	Grab		_	6
рН	Daily Maximum	8.5	SU			1/day	Grab		Х	0
Ammonia (as N) Summer	Monthly Average	1.6	mg/L			Monthly	6-hr. Comp.		Х	8
Ammonia (as N) Winter	Monthly Average	3.5	mg/L			Monthly	6-hr. Comp.		Х	8
Total Phosphorus (as P)	Daily Maximum	Monitor	mg/L	7.8	lbs/d	Monthly	6-hr. Comp.		Х	6
Dissolved Oxygen	Daily Minimum	5.0	mg/L			Monthly	Grab		Х	
Total Mercury	Daily Maximum	50	ng/L			Monthly	Grab	Χ	Х	6
EFFLUENT DISINFECTION Required Seasonal from May	1st - October 31st	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Coliform, Fecal	30-Day Geometric Mean	200	No./ 100 mL			Monthly	Grab		Х	
Coliform, Fecal	7-Day Geometric Mean	400	No./ 100 mL			Monthly	Grab		X	
Chlorine, Total Residual	Daily Maximum	0.03	mg/L			1/day	Grab		Χ	2,3,6
ACTION LEVEL PARAMETERS	Туре	Action Level	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Temperature	Daily Maximum	70	°F			1/day	Grab	Х	Х	5,6
EMERGING CONTAMINANT	S	Action Level	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Perfluorobutanoic Acid (PFBA) CAS No. 375-22-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoropentanoic Acid (PFPeA) CAS No. 2706-90-3	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorohexanoic Acid (PFHxA) CAS No.307-24-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6

	EFFLUENT LIMITATION N			MONITO	MONITORING REQUIREMENTS					
PARAMETER						Location		ation	FN	
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Perfluoroheptanoic Acid (PFHpA) CAS No. 375-85-9	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorooctanoic Acid (PFOA) CAS No. 335-67-1	Daily Maximum	10	ng/L			1/quarter	Grab		Х	4,6
Perfluoro-nonanoic Acid (PFNA) CAS No. 375-95-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoro-decanoic Acid (PFDA) CAS No. 335-76-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoroundecanoic Acid (PFUnA) CAS No. 2058-94-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorododecanoic Acid (PFDoA) CAS No. 307-55-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorotridecanoic Acid (PFTiA) CAS No. 72629-94-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorotetradecanoic Acid (PFTeA) CAS No. 376-06-7	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorobutanesulfonic Acid (PFBS) CAS No. 375-73-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoropentanesulfonic Acid (PFPeS) CAS No. 2706-91-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorohexanesulfonic Acid (PFHxS) CAS No. 355-46-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoroheptanesulfonic Acid (PFHpS) CAS No. 375-92-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorooctanesulfonic Acid (PFOS) CAS No. 1763-23-1	Daily Maximum	10	ng/L			1/quarter	Grab		Х	4,6
Perfluorononanesulfonic Acid (PFNS) CAS No. 68259-12-1	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorodecanesulfonic Acid (PFDS) CAS No. 335-77-3	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorododecanesulfonic Acid (PFDoS) CAS No. 79780-39-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluorooctanesulfonamide (FOSA) CAS No. 754-91-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
N-Methyl Perfluorooctanesulfonamidoa cetic Acid (NMeFOSAA) CAS No. 2355-31-9	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	4,6
N-Ethyl Perfluorooctanesulfonamidoa cetic Acid (NEtFOSAA) CAS No. 2991-50-6	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	4,6
1H,1H,2H,2H-Fluorotelomer Sulfonic Acid (4:2 FTS) CAS No. 757124-72-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
1H,1H,2H,2H- Fluorotelomer Sulfonic Acid (6:2 FTS) CAS No. 27619-97-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		x	4,6
1H,1H,2H,2H- Fluorotelomer Sulfonic Acid (8:2 FTS) CAS No. 39108-34-4	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
N-ethyl Perfluoro- octanesulfon-amide (NEtFOSA) CAS No. 4151-50-2	Daily Maximum	Monitor	ng/L			1/quarter	Grab		х	4,6
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA) CAS No. 31506-32-8	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6

	EFF	LUENT L	IMITATIO	ON		MONITO	RING REQUIRE	MEN	TS	
PARAMETER								Loca	ation	FN
						Sample	Sample	LOGG	1	
	Type	Limit	Units	Limit	Units	Frequency	Type	Inf.	Eff.	
N-Methyl						-	-			
Perfluorooctanesulfonamido	Daily Maximum	N / a m i + a m	ng/L			1/quarter	Grab			4,6
Ethanol (NMeFOSE)		Monitor	119/1			1/quarter	Grab		Х	4,0
CAS No. 24448-09-7										
N-Ethyl										
Perfluorooctanesulfonamido Ethanol (NEtFOSE)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 1691-99-2	,		Ū							
9-Chlorohexadecafluoro-3-										
Oxanone-1-Sulfonic Acid										
(9CI-PF3ONS)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 756426-58-1										
Hexafluoropropylene Oxide										
Dimer Acid (HFPO-DA or	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
GenX)	Daily Maximum	Monitor	119/1			1/quarter	Sidb		^	7,0
CAS No. 13252-13-6										
11-Chloroeicosafluoro-3-										
Oxaundecane-1-Sulfonic Acid	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
(11CI-PF3OUdS) CAS No. 763051-92-9	-		_							
4,8-Dioxa-3h-										
Perfluorononanoic Acid										
(ADONA)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 919005-14-4										
3-Perfluoropropyl Propanoic										
Acid (3:3FTCA)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 356-02-5										
2H,2H,3H,3H-										
Perfluorooctanoic Acid (5:3FTCA)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
(3.3F1CA) CAS No. 914637-49-3										
3-Perfluoroheptyl Propanoic										
Acid (7:3FTCA)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 812-70-4	,	Wichitol	J.							, -
Nonafluoro-3,6-										
dioxaheptanoic Acid	Daily Maximum	Monitor	ng/L			1/quarter	Grab			4.6
(NFDHA)	Daily Waxiillalli	Monitor	⊓g/∟			1/quarter	Grab		Х	7.0
CAS No. 151772-58-6										
Perfluoro-4-Methoxybutanoic	Daily Marian					4/	Or - I-			4.0
Acid (PFMBA) CAS No. 863090-89-5	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
Perfluoro-3-										$\vdash \vdash \vdash$
Methoxypropanoic Acid										
(PFMPA)	Daily Maximum	Monitor	ng/L			1/quarter	Grab		Х	4,6
CAS No. 377-73-1										
Perfluoro(2-										
Ethoxyethane)Sulfonic Acid	Daily Maximum	Monitor	ng/L			1/quarter	Grab		~	4,6
(PFEESA)	Daily Waxiiiluill	Monitor	⊓g/L			1/quarter	Glab		Х	4,0
CAS No. 113507-82-7										

# **Footnotes Continued on Next Page**

#### **FOOTNOTES:**

1. Effluent shall not exceed 15% of influent concentration values for both CBOD<sub>5</sub> & TSS respectively.

SPDES Number: **NY 002 5429**Page 12 of 26 v.1.27

2. 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.

- 3. This is a Compliance Level. The calculated WQBEL is 0.017 mg/L.
- 4. Emerging Contaminants Action Levels: Upon each exceedance of the Action Level(s) for PFOA and/or PFOS, perform one (1) confirmatory sample within seven (7) days of receiving the results for the parameters(s) exceeded. If confirmed exceedance, notify DEC at <a href="mailto:emergingcontaminantsdow@dec.ny.gov">emergingcontaminantsdow@dec.ny.gov</a> and initiate minimization program and continuous reporting as outlined in the Schedule of Additional Submittals. If minimization program initiated, sampling can continue on a monthly basis with no confirmatory sampling required. If the reporting limit (RL) for PFOA and/or PFOS exceeds the Action Level(s) and no detection is reported, the sample result(s) shall not be considered an exceedance. However, the permittee must provide documentation from the laboratory supporting the RL, including the basis for any matrix interference or method limitations. All PFAS compound sampling shall use EPA Method 1633.

#### 5. <u>Temperature Action Level – Monitoring Program</u>

If the discharge temperature exceeds the Action Level of 70°F the permittee shall, within one week, undertake the following sampling program. Temperature shall be measured at the following three locations, all within one hour, on the same day, once in the morning and once in the afternoon:

- 1. Effluent sample as close as practical to the outfall without interference from the receiving water
- 2. Downstream receiving water sample approximately 200 feet downstream of Outfall 001
- 3. Upstream receiving water sample 0 to 10 feet upstream of Outfall 001 (as long as the sampling location is not affected by the effluent and the same location is monitored every time)

The permittee is exempt from this temperature monitoring program whenever conditions at or near the monitoring locations are unsafe due to weather.

Results shall be appended to the corresponding Discharge Monitoring Report (DMR) and emailed in spreadsheet format to <a href="mailto:spdes.temperaturedata@dec.ny.gov">spdes.temperaturedata@dec.ny.gov</a>.

Upon review of the data, it may be necessary that a Temperature Management Plan be developed and implemented. If the Action Level is routinely or excessively exceeded, the permit may be subject to modification to incorporate additional monitoring requirements or effluent limits. This requirement supersedes the Action level requirement on the Permit Limits, Levels and Monitoring Definitions page for Temperature.

- 6. Daily max shall be calculated based on the arithmetic mean of samples taken during any calendar day.
- 7. The seven-day average shall be calculated as the average of the results for each of the discharge days over the seven-day period. For example, if the ORF discharges for three days [or any part of a day] during the period, the average of the three days would constitute the seven-day average for the purposes of compliance.
- 8. The monthly average is the highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

SPDES Number: **NY 002 5429** Page 13 of 26 v.1.27

# MERCURY MINIMIZATION PROGRAM (MMP) - Type II

- 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.
- 2. MMP Elements The MMP must be a written document and must include any necessary drawings or maps of the facility and/or collection system. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP must include the following elements as described in detail below:
  - a. <u>Monitoring</u> Monitoring at Outfall 001, 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 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 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 DEC 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 semi-annually, in lieu of monitoring within the collection system, such as at *key locations*; and
    - b) Conduct effluent compliance sampling semi-annually.
  - 2) If a facility with reduced requirements reports discharges above 12 ng/L for two of four consecutive effluent samples, the DEC 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 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.
  - ii. Monitoring and Inventory/Inspections for Outfall -
    - 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.

<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.

SPDES Number: **NY 002 5429** Page 14 of 26 v.1.27

# MERCURY MINIMIZATION PROGRAM (MMP) - Type II (Continued)

- 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" 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 DEC 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 DEC 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.
- 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 for Outfall 001
    - 1) If the permittee meets the criteria for MMP Type IV, the permittee must notify the DEC 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).

<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>&</sup>lt;sup>4</sup> The form, "Amalgam Waste Compliance Report for Dental Dischargers," can be found here:

SPDES Number: **NY 002 5429** Page 15 of 26 v.1.27

# MERCURY MINIMIZATION PROGRAM (MMP) - Type II (Continued)

- 3. MMP Modification 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 DEC identifies inadequacies in the MMP.

The DEC 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.



SPDES Number: **NY 002 5429** Page 16 of 26 v.1.27

#### 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.

# SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Outfall(s)	Compliance Action	Compliance Date⁵
	DESIGN DOCUMENTS The permittee shall submit approvable <sup>6</sup> Design Documents including a Basis of Design Report (BODR), Plans, Specifications, and Construction Schedule for the upgrade of the WWTP and removal of the ORF. Upgrade of the WWTP will ensure compliance with final effluent limitation(s) for Ammonia, and Total Residual Chlorine.	EDP + 6 months
	INTERIM PROGRESS REPORT <sup>7</sup> The permittee shall provide a status update for <i>Complete Construction</i> . This report can be submitted as an email.	EDP + 21 months, EDP + 33 months, EDP + 42 months, EDP + 51 months
	COMPLETE CONSTRUCTION  The permittee shall provide a Construction Completion Certification <sup>8</sup> to the DEC that the disposal system has been fully completed and the ORF removed in accordance with the approved Design Documents.	December 15, 2027
	COMMENCE OPERATION Following receipt of DEC acceptance of the Construction Completion Certification, the permittee shall comply with the final effluent limitation(s) described in this permit for Ammonia, and Total Residual Chlorine. Also, the ORF shall no longer be in use.	May 1, 2028
	INFLOW & INFILTRATION MANAGEMENT PROGRAM The permittee shall continue to monitor, survey, prioritize and repair sewers, manholes, and pump stations as necessary and in accordance with the I&I Program. The permittee shall submit an annual I&I program report to the DEC Region 3 office and to the Bureau of Water Permits for approval each year. The report shall: detail the repairs completed each year; detail the monitoring and surveying that was performed; list the repairs to be completed the next year by priority ranking; and evaluate the effect on the influent flow to the treatment plant. The list of repairs to be completed in each year shall become part of, and enforceable under, the SPDES permit.	February 1, Annually
	Unless noted otherwise, the above actions are one-time requirem	ents.

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

<sup>&</sup>lt;sup>5</sup> 6 NYCRR 750-1.14 (a)

<sup>6 6</sup> NYCRR 750 1.2 (a)(8)

<sup>&</sup>lt;sup>7</sup> 6 NYCRR 750-1.14 (b)

<sup>8 6</sup> NYCRR 750-2.10 (c)

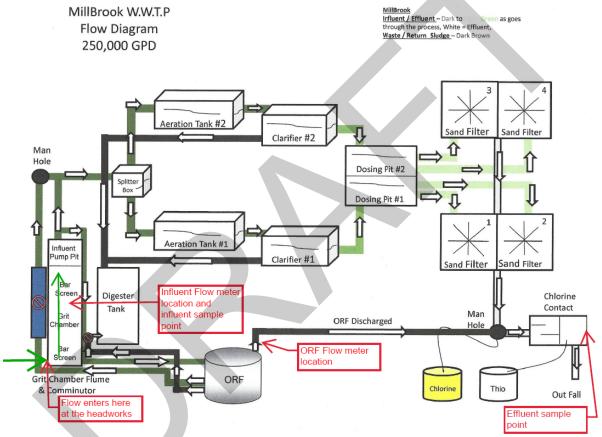
SPDES Number: **NY 002 5429**Page 18 of 26 v.1.27

#### 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:

Influent: At the influent flow meter location

Effluent: At the point where the flow from the chlorine contact chamber reaches the Outfall



#### Temperature Action Level – Monitoring Program

If the discharge temperature exceeds the Action Level of 70°F the permittee shall, within one week, undertake the following sampling program. Temperature shall be measured at the following three locations, all within one hour, on the same day, once in the morning and once in the afternoon:

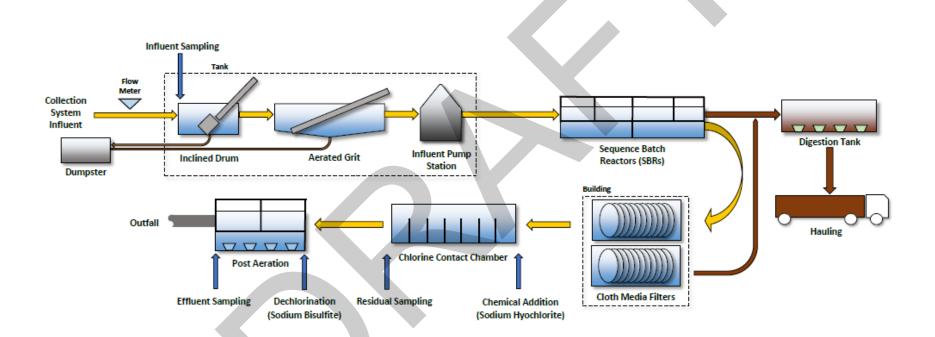
- 1. Effluent sample as close as practical to the outfall without interference from the receiving water
- 2. Downstream receiving water sample approximately 200 feet downstream of Outfall 001
  Upstream receiving water sample 0 to 10 feet upstream of Outfall 001 (as long as the sampling location is not affected by the effluent and the same location is monitored every time)
- 3. The permittee is exempt from this temperature monitoring program whenever conditions at or near the monitoring locations are unsafe due to weather. Results shall be appended to the corresponding Discharge Monitoring Report (DMR) and emailed in spreadsheet format to <a href="mailto:spdes.temperaturedata@dec.ny.gov">spdes.temperaturedata@dec.ny.gov</a>.

SPDES Number: **NY 002 5429** Page 19 of 26 v.1.27

# MONITORING LOCATIONS (Continued)

**Following the complete construction of the new facility**, the permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:

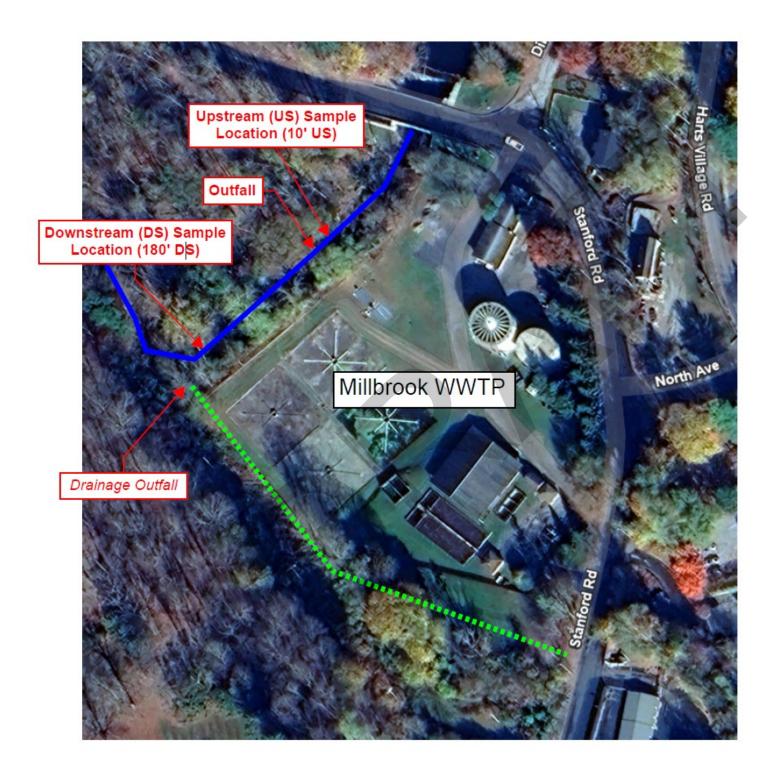
Influent: At the influent flow meter location Effluent: After the post aeration tank



#### <u>Temperature Action Level – Monitoring Program</u>

If the discharge temperature exceeds the Action Level of 70°F the permittee shall, within one week, undertake the following sampling program. Temperature shall be measured at the following three locations, all within one hour, on the same day, once in the morning and once in the afternoon:

- 1. Effluent sample as close as practical to the outfall without interference from the receiving water
- 2. Downstream receiving water sample approximately 200 feet downstream of Outfall 001
  Upstream receiving water sample 0 to 10 feet upstream of Outfall 001 (as long as the sampling location is not affected by the effluent and the same location is monitored every time)
- 3. The permittee is exempt from this temperature monitoring program whenever conditions at or near the monitoring locations are unsafe due to weather. Results shall be appended to the corresponding Discharge Monitoring Report (DMR) and emailed in spreadsheet format to spdes.temperaturedata@dec.ny.gov.





SPDES Number: **NY 002 5429** Page 22 of 26 v.1.27

#### GENERAL REQUIREMENTS

A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in paragraphs B through I as follows:

#### B. General Conditions

1.	Duty to comply	6 NYCRR 750-2.1(e) & 2.4
2.	Duty to reapply	6 NYCRR 750-1.16(a)
3.	Need to halt or reduce activity not a defense	6 NYCRR 750-2.1(g)
4.	Duty to mitigate	6 NYCRR 750-2.7(f)
5.	Permit actions	6 NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h)
6.	Property rights	6 NYCRR 750-2.2(b)
7.	Duty to provide information	6 NYCRR 750-2.1(i)
8.	Inspection and entry	6 NYCRR 750-2.1(a) & 2.3

#### C. Operation and Maintenance

1.	Proper Operation & Maintenance	6 NYCRR 750-2.8
2.	Bypass	6 NYCRR 750-1.2(a)(17), 2.8(b) & 2.7
3.	Upset	6 NYCRR 750-1.2(a)(94) & 2.8(c)

#### D. Monitoring and Records

1.	Monitoring and records	6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d)
2.	Signatory requirements	6 NYCRR 750-1.8 & 2.5(b)

#### E. Reporting Requirements

1.	Reporting requirements	6 NYCRR 750-2.5, 2.7 & 1.17
2.	Anticipated noncompliance	6 NYCRR 750-2.7(a)
3.	Transfers	6 NYCRR 750-1.17
4.	Monitoring reports	6 NYCRR 750-2.5(e)
5.	Compliance schedules	6 NYCRR 750-1.14(d)
6.	24-hour reporting	6 NYCRR 750-2.7(c) & (d)
7.	Other noncompliance	6 NYCRR 750-2.7(e)
8.	Other information	6 NYCRR 750-2.1(f)
9.	Additional conditions applicable to a POTW	6 NYCRR 750-2.9 (

#### F. Planned Changes

- 1. The permittee shall give notice to the DEC 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 DEC, 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.

SPDES Number: NY 002 5429

Page 23 of 26 v.1.27

# 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 DEC, 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 DEC review and authorization. At a minimum, the permittee must notify the DEC in writing of its intent to change WTC use by submitting a completed WTC Notification Form for each proposed WTC. The DEC 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 DEC. 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 DEC.
- 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 DEC's website at: <a href="http://www.dec.ny.gov/permits/93245.html">http://www.dec.ny.gov/permits/93245.html</a>

SPDES Number: **NY 002 5429** Page 24 of 26 v.1.27

# 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 DEC 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 DEC's website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by DEC. Instructions on the use of NetDMR can be found at <a href="https://www.dec.ny.gov/chemical/8461.html">https://www.dec.ny.gov/chemical/8461.html</a>. Hardcopy paper DMRs will only be accepted 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 Regional Water Engineer and Bureau of Water Permits at the following (electronic submission preferred):

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

Department of Environmental Conservation Regional Water Engineer, Region 3 dow.r3@dec.ny.gov 21 South Putt Corners Road, New Paltz, New York, 12561-1696 Phone: (845) 256-3000

Dutchess County Health Department 85 Civic Center Plaza, Suite 106, Poughkeepsie, NY 12601

- D. Bypass and Sewage Pollutant Right to Know Reporting: 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 DEC'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.
- E. Schedule of Additional Submittals:

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

SPDES Number: **NY 002 5429**Page 25 of 26 v.1.27

	SCHEDULE OF ADDITIONAL SUBMITTALS	age 25 01 26 V.1.27
Outfall(s)	Required Action	Due Date
	EMERGING CONTAMINANT (EC) MINIMIZATION PROGRAM The permittee shall initiate track down of potential sources by utilizing the "Emerging Contaminants Investigation Checklist for POTWs" available at Emerging Contaminants In NY's Waters - NYSDEC.	Confirmation of initial Action Level exceedance
	The permittee shall continue track down of potential sources and submit reports summarizing:  a. All EC monitoring results taken to date; b. A list of known and potential EC sources; c. All actions taken to reduce EC contaminants; and Proposed next steps, including a monitoring plan to identify/confirm EC sources, and ensure continued progress towards minimization/eliminating contaminants.	12 months after initiating track down and every 6 months thereafter until effluent falls below action levels for at least 12 months or until further notified by the Department
	TEMPERATURE MANAGEMENT FOR POTWs DISCHARGES TO TROUT WATERS The permittee is required to develop, maintain, and implement a temperature management plan. The purpose of this plan is to minimize the thermal impacts to the receiving water. The goal of the temperature management plan will be to reduce effluent temperature below the 70 degrees Fahrenheit Action Level. The permittee shall submit a plan which incorporates the following items:  1. Thermal Track Down - Permittee must conduct a thermal assessment of the current collection and treatment system. This is to include influent and effluent temperature monitoring data from the treatment system and each unit within the system. Any process or input source that adds heat to the system must be identified.  2. Passive Cooling Measures - Permittee shall assess passive cooling measures (e.g., shading of tankage, riparian shading, geothermal looping of discharge pipe) which may be implemented to reduce effluent temperature to the maximum extent practical. Such measures can he operational or physical modifications which the permittee believes will prove effective.  3. Implementation - The temperature management plan shall contain action items to address the assessments noted in 1 and 2 above as well as a schedule for implementation and shall be submitted to the Department for approval. The temperature management plan and schedule will become an enforceable part of the permit upon approval by the Department.  4. Compliance Deadlines - The permittee shall submit the temperature management plan to the Regional office listed on the Recording, Reporting and Additional Monitoring page of this permit in electronic format to spdes.temperaturedata@dec.ny.gov.	EDMP + 6 months
	WATER TREATMENT CHEMICAL (WTC) ANNUAL REPORT FORM The permittee shall submit a completed WTC Annual Report Form each year that Water Treatment Chemicals are used. The form shall be attached to the December DMR.	

SPDES Number: NY 002 5429

Page 26 of 26 v.1.27

	SCHEDULE OF ADDITIONAL SUBMITTALS						
Outfall(s)	Required Action	Due Date					
	ANNUAL FLOW CERTIFICATION  The permittee shall submit an Annual Flow Certification form each year in accordance with 750-2.9(C)(4). The form shall be attached to the February DMR or submitted through nForm.	February DMR (March 28 <sup>th</sup> )					
	STORMWATER NO EXPOSURE CERTIFICATION  Permittee must recertify every five years a condition of no exposure to stormwater in order to continue to qualify for the no exposure exclusion. The No Exposure Certification Form can be found on the DEC website.	3/18/2024, and every 5 years thereafter					
	MERCURY MINIMIZATION PLAN The permittee must complete and maintain onsite an annual mercury minimization status report in accordance with the requirements of this permit.	Maintained Onsite EDP + 12 months, annually thereafter					

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

- F. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- G. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations, and recording of the data on the corresponding DMRs.
- H. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- I. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- J. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

# SPDES Permit Fact Sheet Village of Millbrook Millbrook Sewage Treatment Plant NY0025429



Permittee: Village of Millbrook Facility: Millbrook Sewage Treatment Plant SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

# Contents

Summary of Permit Changes	3
Administrative History	3
Facility Information	3
Site Overview	4
Enforcement History	4
Existing Effluent Quality	5
Receiving Water Information	5
Critical Receiving Water Data & Mixing Zone	5
Permit Requirements	6
Anti-backsliding	6
Antidegradation	6
Temperature Requirements for Municipal Discharges to Trout Streams	7
Mercury	7
Schedule of Compliance	8
Emerging Contaminant Monitoring	8
Schedule of Additional Submittals	8
OUTFALL AND RECEIVING WATER SUMMARY TABLE	10
POLLUTANT SUMMARY TABLE	10
Outfall 001	10
Outfall 001 [EMERGING CONTAMINANTS]	13
Appendix: Regulatory and Technical Basis of Permit Authorizations	
Regulatory References	19
Outfall and Receiving Water Information	19
Interstate Water Pollution Control Agencies	20
Existing Effluent Quality	20
Permit Requirements	20

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

# Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) permittee-initiated permit modification resulting in a full technical review has been drafted for the Millbrook Sewage Treatment Plant. The changes to the permit are summarized below:

- The permitted flow will go from 0.25 MGD to 0.37 MGD as a monthly average
- Added a limit for total dissolved solids of 1300 mg/l
- Added a limit for total phosphorus of 7.8 lb/day
- Changed the mass limits for both CBOD and TSS from 31/47 lbs/d to 46/71 lbs/d for the 7-day average and monthly average respectively
- Changed summer limit for ammonia (as N) from 5 mg/l to 1.6 mg/l
- Changed winter limit for ammonia from 5 mg/l to 3.5 mg/l
- Changed the TRC limit from 0.1 mg/l to 0.03 mg/l
- Added requirement for emerging contaminant monitoring and action levels for PFOS and PFOA of 10 ng/l each
- Added the following limits for the following when the ORF is discharging: CBOD5, TSS, SS, ammonia, TRC

This fact sheet 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 <a href="#">Appendix</a> linked throughout this fact sheet.

# Administrative History

7/1/2024

The last full technical review was performed and the SPDES permit became effective with a new five-year term and expiration date of 6/30/2029. The 2024 permit has formed the basis of this permit.

2/10/2025

The Village of Millbrook submitted a request to modify the permit to increase the permitted flow from 0.25 MGD to 0.37 MGD.

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 that receives flow from domestic users, with effluent consisting of treated sanitary water. The collection system consists of separate sewers. The facility does not have any significant industrial users (SIUs).

The 0.37 MGD treatment plant consists of:

- Preliminary Treatment: Influent screening and aerated grit removal
- Primary\Secondary Treatment: Sequence Batch Reactor
- Secondary Treatment: Equalization and extended aeration
- Tertiary Treatment: Cloth Media Filtration
- Disinfection: Chlorination and Dechlorination

The primary outfall (Outfall 001) is discharging treated water into the East branch of the Wappingers Creek. The 8" diameter Outfall pipe extends 10' from the bank into the waterbody with no diffuser.

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

#### The facility accepts wastewater from the following municipalities:

Municipality	POSS # or SPDES #	Collection System				
Village of Millbrook	NY0025429	Separate				
Town of Washington	-	Separate				

#### Site Overview



#### **Enforcement History**

The facility is operating under EPA Order on Consent CWA-02-2025-3002 dated 12/03/2024. The EPA Order requires the following compliance actions:

- 1. Remove vegetation, sediment, grease, floatables and solids ORF during dry weather
- 2. Weed and clean all sand filters
- 3. The manhole for the main sewage pump must be bolted down/gasketed to prevent manhole overflows
- 4. Submit written certification for the projects listed above along with a summary of the work completed
- 5. Submit a routine inspection, maintenance and cleaning SOPs for ORF and sand filters.
- 6. Certify that monitoring equipment for permit compliance has been calibrated records will be maintained
- 7. Monitor the internal Outfall 002 (ORF), report and comply with the interim effluent limitations set by the order instead of the July 2024 Permit until the modified SPDES Permit becomes effective
- 8. Edit and resubmit modified DMRs to the NYSDEC from January 2020 to present for all sampling results for the Outfall 001 combined ORF flow effluent when the ORF was and was not discharging

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

9. Submit quarterly reports with a summary of the progress on the Schedule of Compliance items in the 2024 permit, compliance issues and measures, and the status of projects listed above #4.

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

#### **Existing Effluent Quality**

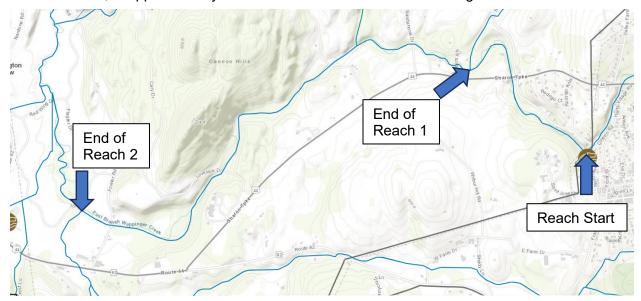
The <u>Pollutant Summary Table</u> presents the existing effluent quality and effluent limitations. The existing effluent quality was determined from Discharge Monitoring Reports submitted by the permittee for the period 6/1/2018 to 5/31/2023. <u>Appendix Link</u>

# **Receiving Water Information**

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
001	4952	Treated Sanitary Sewage	East Branch of Wappingers Creek, Class C(T)

**Reach Description:** The East Branch of the Wappinger Creek is a tributary of the Wappingers Creek. The Classification of the segment at the point of discharge is C(T) (6NYCRR 857.4 – Table I – Item 89, PWL ID: 1305-0022, WIN: H-101-21). The stream reach assessed for this permitting action is from the discharge to a confluence with a C(T) standard stream approximately 3.6 miles downstream of discharge. Wappingers Lake, a waterbody listed as impaired due to phosphorus in urban runoff, is approximately 27.3 miles downstream of the discharge.



See the Outfall and Receiving Water Summary Table and Appendix for additional information.

#### Critical Receiving Water Data & Mixing Zone

The low flow condition for the Wappingers Creek East Branch was obtained from a drainage basin ratio analysis with USGS gage station 01372100, East Branch Wappinger Creek located near

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

Clinton Corners. The 7Q10 flow and drainage area at the gage were found from the USGS/NYSDEC Bulletin 74, 1979. The 1Q10 flow was estimated as half the 7Q10 and the 30Q10 flow was estimated as  $1.2 \times 7Q10$ .

The low flows at the facility location were found from a drainage basin ratio analysis and are shown below.

DRAINAGE BASIN RATIO	1Q10	7Q10	30Q10							
Gage Name	East Branch Wappinger Creek near Clinton Corners									
Gage ID Number		01372100								
Low Flow at Gage (cfs)		2.4								
Drainage Area at Gage (mi <sup>2</sup> )		33.6								
Drainage Area at Facility (mi <sup>2</sup> )		13.1								
Drainage Basin Ratio (facility / gage)	#DIV/0!	0.4	#DIV/0!							
Calculated Flow at Facility (cfs)	#DIV/0!	0.94	#DIV/0!							

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) / Facility Flow

Outfall No.	Acute Dilution Ratio A(A)	Chronic Dilution Ratio A(C)	Human, Aesthetic, Wildlife Dilution Ratio (HEW)	Basis
001	1.8	2.6	3.0	TOGS 1.3.1

Critical receiving water data are listed in the <u>Pollutant Summary 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>.

#### 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.

#### Appendix Link

#### 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>1</sup> determination. Appendix Link

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<sup>&</sup>lt;sup>1</sup> As prescribed by 6 NYCRR Part 617

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

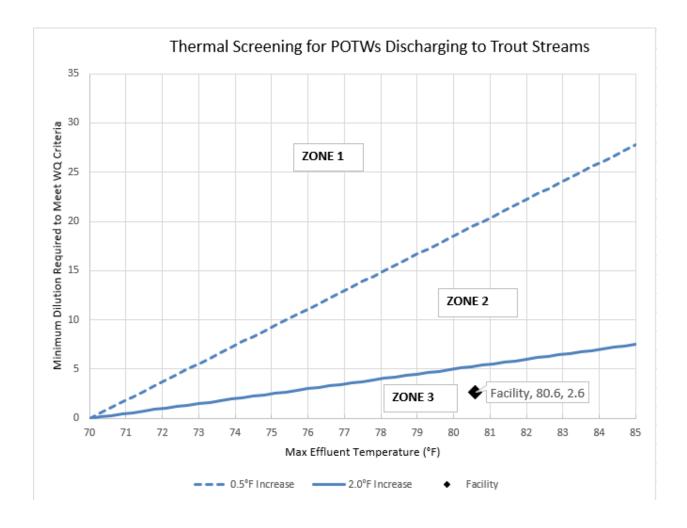
Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

#### Temperature Requirements for Municipal Discharges to Trout Streams

For municipal discharges to streams classified as trout (T), the Department has reviewed the dilution and maximum reported effluent temperature.

The facility is required to develop, maintain, and implement a temperature management plan (see permit for details). The purpose of this plan is to minimize the thermal impacts to the receiving water. The goal of the temperature management plan will be to reduce effluent temperature below the 70°F action level.



#### Mercury<sup>2</sup>

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

<sup>&</sup>lt;sup>2</sup> In accordance with DOW 1.3.10 Mercury – SPDES Permitting & Multiple Discharge Variance (MDV), December 30, 2020.

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

The facility is not located in the Great Lakes Basin, has a mercury source, and is a municipal facility with a design flow of less than 1 MGD. Therefore, the facility is a MMP Type II and the permit includes requirements for the implementation of MMP Type II.

Based on 1 data point of average daily mercury discharge of 5.7 ng/L collected as part of the application the facility is expected to meet the new daily max permit limit of 50 ng/L (with monthly sampling frequency). 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 of key locations, as defined in the MMP
- Control strategy for implementation of the MMP
- Annual status report (maintained onsite)

#### Schedule of Compliance

A Schedule of Compliance is being included<sup>3</sup> for the following items (<u>Appendix Link</u>):

- Compliance schedule for removal of the ORF and facility upgrade. The permittee has agreed to remove the ORF from the facility's treatment system as a part of their facility upgrade project after several ORF discharges due to heavy rainfall. The new permit limits will be put in effect following the completion of the upgrade and removal of the ORF.
- An Inflow/Infiltration Management Program. The ORF was incorporated into the treatment system in order to alleviate the I/I entering the facility. This plan serves to ensure that there will be continual control of I/I after the ORF is removed.

#### **Emerging Contaminant Monitoring**

**Background:** Emerging Contaminants, such as Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), and 1,4-Dioxane (1,4-D), have been used in a wide variety of consumer and industrial products as well as in manufacturing processes for decades. These contaminants do not break down easily, therefore their presence in wastewater can remain a concern for years following their discontinued use. As the science surrounding these contaminants is still evolving, additional monitoring is needed to better understand potential sources and background levels. For more information on emerging contaminants, please see the DEC Division of Water web page: <a href="Emerging Contaminants In NY's Waters - NYSDEC">Emerging Contaminants In NY's Waters - NYSDEC</a>.

Given the emerging nature of these contaminants; the USEPA's addition of PFOA and PFOS to the hazardous substance list under CERCLA; the USEPA's addition of PFOA and PFOS to the recommended contaminant monitoring list for state fish advisory programs; and pursuant to 6 NYCRR 750-1.14(f), the Department is imposing Action Levels, and minimization programs when there is confirmation those Action Levels are exceeded. This requirement is being imposed for the protection of the downstream receiving waterbody and to gather additional data needed to support establishment of TBELs.

Based on the available data and detections of PFOA and PFOS, Action Levels are specified with monitoring required for the remaining 38 PFAS compounds pursuant to 6 NYCRR Part 750-1.13(b). Monitoring requirements are also consistent with guidance released in EPA memos dated April 28, 2022, and December 5, 2022. Please see the Pollutant Summary Table below for more information.

#### Schedule of Additional Submittals

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

-

<sup>&</sup>lt;sup>3</sup> Pursuant to 6 NYCRR 750-1.14

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

- Water Treatment Chemical Annual Report Form
- Annual Flow Certification
- Stormwater no exposure certification
- MMP Type II, maintain on site. See Mercury section of this factsheet.
- Temperature management plan

Permittee: Village of Millbrook Facility: Millbrook Sewage Treatment Plant SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

# **OUTFALL AND RECEIVING WATER SUMMARY TABLE**

					Water Index No. /	Major /					Critical	Dil	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
001	41° 47' 20.51" N	73° 41' 48.91" W	East Branch of Wappingers Creek	C(T)	H-101-21 PWL: 1305-0022	13/05	135 <sup>4</sup>	0.47	0.94	1.12	0.37	1.8	2.6	3.0

### POLLUTANT SUMMARY TABLE

#### Outfall 001

O.,46all #	004	Description	n of Was	stewater: T	eated S	Sanitary Se	ewage										
Outfall #	001	Type of Tr	eatment:	: Influent Sc	reening	, Grit Rem	noval, B	iological t	reatment (	SBR), CI	oth Media	filter, chlor	rination and d	echlorin	atior	1	
,		Existing Discharge Data						TBELs Water Quality Data and WQBELS									
Effluent Parameter	Units	Averaging Period	Current Permit Limit	Existing Effluent Quality	# Detects	# Nondetects	Limit	Basis	Ambient         Projected         WQ         WQ         Calc.           Background         Instream         Std.         Type         WQBEL           Conc.         Conc.         or GV         Type         WQBEL			Basis for WQBEL	ML	Permit Limit	Basis for Permit Requirement		
Flow	MGD	MO AVG	0.25	0.18 Actual Average	60	0	1		Narrative: No alterations that will impair the waters for their best usages.					703.2	1	0.370	Design Flow
The flow limit is set at the	design flow o	of the wastewater	treatment faci	lity.													
рН	SU	Minimum	6.5	7 Actual Min	60	0	6.0	40 CFR	7.97		6.5 - 8.5	Range	6.5 - 8.5	703.3		6.5 - 8.5	WOBEL
рН	SU	Maximum	8,5	8,5 Actual Max	60	0	9.0	133.102	7.57	-	6.5 - 6.5	nange	6.5 - 8.5	703.3	-	6.5 - 8.5	WUDEL
Consistent with TOGS 1.3		•															
Given the available dilutio	n, an effluent	t ilmitation equal t	otne WUSISa	ppropriate.										1			
Temperature	degF	DAILY MX	Monitor	81 Actual Max	60	0	1	-	-	Narrative (Trout): No discharge at a temperature over 70F (21C) shall be permitted at any time to streams classified for trout			704.2	1	70.0	WQBEL	
See the Temperature	Requireme	nts for Municip	al Discharge	s to Trout Strea	ams section	n of the fact	sheet for	a full discuss	sion.								

PAGE 10 OF 25

<sup>&</sup>lt;sup>4</sup> Ambient hardness was calculated from RIBs station 13-SHAB-0.3, located ~2.6 miles upstream, using 1 sample collected from 2022.

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

				Existing Disch	arge Data			TBELs			Water Quality	Data and WQ	BELS				
Effluent Parameter	ICIS Name	Averaging Period	Current Permit Limit	Existing Effluent Quality	# Detects	# Nondetects	Limit	Basis	Ambient Background Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Limit	Basis for Permit Requirement
Dissolved Oxygen	mg/L	DAILY MN	5	5 Minimum	10	0	-	-	-	5.22 (Critical Point)	(T) 5.0 mg/L	-	No Reasonable Potential	703.3	-	5.0	WQBEL
The downstream DO NOD), Efluent CBODS			_	Streeter-Phelps	s equation	s and the fol	owing as	sumptions : E	ffluent DO = 5	mg/L (exis	ting limit in per	mit).Effluent	JOD = 45.6870640	)171856m	g/L (C	alculation b	ased on CBOD5 a
The model includes to BOD and CBOD is su	ch that for a	given BOD, th	e correspo	nding CBOD wo	uld be low	er assuming	the BOD	value as the			_		•				orrelation betwee
The model showed to	nat a WQBEL	for [DO, CBO	D, and Amn	nonia] is necess	ary to mai	ntain downst	ream wat	er quality.									
5-Day	mg/L	MO AVG	15	11	60	0	30	40 CFR 133.102				15.0			15		
5 - 2.,	mg/L	7DA ARME	23	19	60	0	45	40 CFR 133.102			See Dissolved Oxygen		23.0			23	
Biochemical	lb/d	MO AVG	31	22	60	0	-	-	-	Se			46.0	703.3	-	46	WQBEL
Oxygen Demand	lb/d	7DA ARME	47	47	60	0	-	-				71.0			71		
(BOD5)	%	MO AV MN	85	86 Actual Min	60	0	85	40 CFR 133.102					85.0			85	
Consistent with 40 CFR	Part 133.102 an	id TOGS 1.3.3 fo	r POTWs , TBI	ELs reflect second	ary treatmer	nt standards. S	ee justificati	ion for Dissolve	d Oxygen.								
	mg/L	MO AVG	15	6.56	60	0	30	40 CFR 133.102								15	
	mg/L	MO AVG 7DA ARME	15 23	6.56 13.31	60	0	30 45			Novetive	Neve from so.	aa industri				15 23	
Total Suspended Solids (TSS)								133.102 40 CFR			at will cause d	•	al wastes or other mpair the waters	703.2	-		Anti-backsliding
•	mg/L	7DA ARME	23	13.31	60	0		133.102 40 CFR			at will cause d	eposition or i	mpair the waters	703.2	-	23	Anti-backslidin <u>ş</u>
Solids (TSS)	mg/L Ib/d Ib/d	7DA ARME  MO AVG  7DA ARME  MO AV MN	23 31 47 85	13.31 13.33 31.94 92 Actual Min	60 60 60	0 0 0 0		133.102 40 CFR			at will cause d	eposition or i	mpair the waters	703.2	-	23	Anti-backsliding
	mg/L Ib/d Ib/d %	7DA ARME  MO AVG  7DA ARME  MO AV MN d TOGS 1.3.3 fc	23 31 47 85 or POTWs, TBI	13.31 13.33 31.94 92 Actual Min ELs reflect second	60 60 60 ary treatmen	0 0 0 0 t standards.		133.102 40 CFR 133.102 - - 40 CFR			at will cause d	eposition or i	mpair the waters	703.2	-	23 31 47	Anti-backslidin <sub>i</sub>

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

				Existing Disch	isting Discharge Data TBELs Water Quality Data and WQBELS					BELS							
Effluent Parameter	ICIS Name	Averaging Period	Current Permit Limit	Existing Effluent Quality	# Detects	# Nondetects	Limit	Basis	Ambient Background Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Limit	Basis for Permit Requirement
Nitrogen, Ammonia (as N), Summer 6/1 - 10/31	mg/L	MO AVG	5	1.31	1	-	1	-	0.030	3.90	0.6	A(C)	1.6	1	1	1.6	WQBEL
Nitrogen, Ammonia (as N), Winter 11/1 - 5/31	mg/L	MO AVG	-	1.31	1	-	1	-	0.030	3.90	1.2	A(C)	3.5	1	1	3.5	WQBEL
The WQS for Ammon	data was sul	bmitted in the	form of Amr	monia as NH3. T	he existin	g effluent qu	ality show	n here in this	table was tra			_	•	ed value a	ind co	nsistent wi	th TOGS 1.3.1E.
Total Kjeldakl Nitroger	n is being rem	lovea from pe	rmits and re	piaced with lota	ai Nitroger	for consister	icy and rep	orting purpo:	ses.								
Total Phosphorus	mg/L	DAILY MX	Monitor	6.97	60	0	-	-	1		eds and slime		sult in growths of ir the waters for	703.2	-	-	Monitor
The Village of Millbroo found by taking the pr										converted t	rom gallons o	f water to lbs		in the form	nofa	mass load l	limit, which was
Total Phosphorus	lb/d	MO AVG	-	#N/A	-	-			-	result in g	None in amo rowths of alga It will impair t their best usag	e, weeds and he waters for	7.8	TOGS 1.3.6	-	7.8	WQBEL
The Village of Millbroom														horus abd	will b	e given a m	ass load limit, which
Total Mercury	ng/L	DAILY MX	-	5.70	1	-	1	-	-	-	0.7	H(FC)	50.0	GLCA	-	50.0	DOW 1.3.10
See Mercury Section o	f this fact she	et.															
Coliform, Fecal	#/100mL	30DA GEO	200	13.00	18	12	200	TOGS 1.3.3	-	The monthly geometric mean, from a minimum of fine examinations, shall not exceed 200.				703.4	•	200	TBEL
Coliform, Fecal	#/100mL	7 DA GEO	400	19.64	18	12	400	TOGS 1.3.3	-					705.4	-	400	TBEL
Consistent with 6 NYC	RR 703.4(c)(2	) and the class	s of the wate	rbody, the fecal	coliform s	tandards sha	ll be met d	uring all perio	ods because th	ne DEC dete	rmines it nec	essary to prote	ct human health.				

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

				Existing Disch	arge Data		1	TBELs		١	Water Quality	Data and WQE	BELS				
Effluent Parameter	ICIS Name	Averaging Period	Current Permit Limit	Existing Effluent Quality	# Detects	# Nondetects	Limit	Basis	Ambient Background Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Limit	Basis for Permit Requirement
Chlorine, total residual (TRC)	mg/L	DAILY MX	0.1	0.08	30	0	2.0	TOGS 1.3.3	-	0.046	0.005	A(C)	0.013	703.5	0.03	0.03	ML
Effluent disinfection is ou 0.030 mg/L is appropriate		seasonally and	will remain a p	ermit requirement.	Due to the l	ow dilution, the	calculated <sup>(</sup>	WQBEL is less	than the TBEL ar	nd less than ti	ne minimum lev	el of detection. T	herefore, an effluent	limitation e	qual to	the minimum	level of detection of
Total Dissolved Solids (TDS)	mg/L	DAILY MX	-	868.00	11	-			-	560	500	A(C)	1317	703.3		1300	WQBEL
A comparison of the pr	ojected instre	am concentral	tion to the W	QS indicates a re	easonable j	potential to ca	ause or cor	ntribute to a W	QS violation ar	nd therefore	a WQBEL is s	pecified.					

# Outfall 001 [EMERGING CONTAMINANTS]

Emerging Conta	minan	ts Outfall 00	01												
			Exis	ting Discha	arge Data		TBELs		Wa	ater Quality	y Data & W0	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Notes: See Eme	rging C	ontaminant l	Monitorin	g section a	above. Effluen	t samples	were analyzed fo	or the 40 P	FAS compo	ounds and	1,4-Dioxan	e.			
Perfluoro- butanoic Acid	ng/L	Daily Max	_	52.6	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFBA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- pentanoic Acid	ng/L	Daily Max	_	9.46	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFPeA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- hexanoic Acid	ng/L	Daily Max	_	11.1	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFHxA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- heptanoic Acid	ng/L	Daily Max	_	4.2	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFHpA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							

<sup>&</sup>lt;sup>5</sup> Existing Effluent Quality: Unless otherwise stated, Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Emerging Conta	minan	ts Outfall 00	01												
			Exist	ting Discha	arge Data		TBELs		Wa	iter Qualit	y Data & Wo	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Perfluoro-	ng/L	Daily Max	-	6.84 Actual Max	1/0	<b>10</b> Action Level	BPJ MCL	-	-	-	H(WS)	-	TOGS 1.1.1	-	Action Level
octanoic Acid (PFOA)	(MCL) the po	for finished tential prese	drinking v ence of a	water (10 n controllab	g/L) as a prox le source and	ky for back I the need	ground concentra	ations of Plack down r	FOA and Pl neasures. <i>I</i>	OS in the	facility's infels may be	luent. Discha set using bes	rges above t professior	the M	Contaminant Level CL would indicate Igement to gather
Perfluoro- nonanoic Acid	ng/L	Daily Max	-	2.75	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFNA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- decanoic Acid	ng/L	Daily Max	-	1.88	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFDA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- undecanoic Acid	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFUnA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- dodecanoic Acid	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFDoA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- tridecanoic Acid	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
(PFTiA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- tetradecanoic	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFTeA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- butanesulfonic	ng/L	Daily Max	-	4.78	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFBS)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- pentanesulfonic	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFPeS)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
	ng/L	Daily Max	-	1.34	1/0	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Emerging Conta	minan	ts Outfall 00	)1												
			Exis	ting Discha	arge Data		TBELs		Wa	iter Quality	/ Data & WC	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Perfluoro- hexanesulfonic Acid (PFHxS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- heptanesulfonic	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFHpS)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro-	ng/L	Daily Max	-	6.07 Actual Max	1/0	10 Action Level	BPJ MCL	-	45.56	180000	A(C)	-	TOGS 1.1.1	-	Action Level
octanesulfonic Acid (PFOS)	(MCL) the po	for finished tential prese	drinking vence of a	water (10 n controllab	ig/L) as a prox le source and	ky for back I the need	ground concentra	ations of P ack down r	FOA and Pl measures. <i>I</i>	OS in the	facility's infl els may be s	luent. Discha set using bes	rges above t professio	the M	ontaminant Level CL would indicate gement to gather
Perfluoro- nonanesulfonic	ng/L	,	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFNS)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro- decanesulfonic	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (PFDS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- dodecane-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
sulfonic Acid (PFDoS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro- octane-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
sulfonamide (FOSA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-methyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
octanesulfon- amidoacetic Acid (NMeFOSAA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-ethyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-		-	-	-	-	<b>Monitor</b> 750-1.13

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Emerging Conta	aminan	ts Outfall 00	01												
			Exist	ing Discha	arge Data		TBELs		Wa	ater Quality	y Data & W0	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
octanesulfon- amidoacetic Acid (NEtFOSAA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
4:2 Fluorotelomer	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Sulfonic Acid (FTS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
6:2 Fluorotelomer	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Sulfonic Acid (FTS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
8:2 Fluorotelomer	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Sulfonic Acid (FTS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-ethyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	_	-	<b>Monitor</b> 750-1.13
octanesulfon- amide (NEtFOSA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-methyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
octanesulfon- amide (NMeFOSA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-methyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
octanesulfon- amidoethanol (NMeFOSE)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
N-ethyl Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
octanesulfon- amidoethanol (NEtFOSE)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
9- Chlorohexadeca	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Emerging Conta	minan	ts Outfall 00	)1												
			Exis	ting Discha	arge Data		TBELs		Wa	ater Quality	y Data & Wo	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
-fluoro-3- oxanonane-1- sulfonic Acid (9CI-PF3ONS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Hexafluoro- propylene Oxide	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Dimer Acid (HFPO-DA or GenX)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
11- Chloroeicosaflu	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
oro-3- oxaundecane-1- sulfonic Acid (11CI- PF3OUdS)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
4,8-Dioxa-3H- perfluorononano	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
ic Acid (ADONA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
3- Perfluoropropyl	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	1	-	-	<b>Monitor</b> 750-1.13
Propanoic Acid (3:3 FTCA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
2H,2H,3H,3H- Perfluoro-	ng/L	Daily Max	-	-	0/1	-	-	-	_	-	-	-	-	-	<b>Monitor</b> 750-1.13
octanoic Acid (5:3 FTCA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
3- Perfluoroheptyl	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Propanoic Acid (7:3 FTCA)	Monito	oring has bee	en added	to suppor	establishmer	nt of future	standards or TB	ELs.							
Nonafluoro-3,6- dioxaheptanoic	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	-	<b>Monitor</b> 750-1.13
Acid (NFDHA)	Monito	oring has bee	en added	to support	t establishmer	nt of future	standards or TB	ELs.							
Perfluoro-4- methoxy-	ng/L	Daily Max	-	-	0/1	-	-	-	_	-	-	-	-	-	<b>Monitor</b> 750-1.13
butanoic Acid (PFMBA)		oring has bee	en added	to suppor	t establishmer	nt of future	standards or TB	ELs.							

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

<b>Emerging Conta</b>	minan	ts Outfall 00	)1												
			Exis	ting Discha	arge Data		TBELs		Wa	ter Quality	/ Data & Wo	QBELs			
Parameter Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>5</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Perfluoro-3- methoxy-	ng/L	Daily Max	-	-	0/1	-	-	-	-	-	-	-	-	•	<b>Monitor</b> 750-1.13
propanoic Acid (PFMPA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
Perfluoro(2- ethoxyethane)su	ng/L	Daily Max	ı	-	0/1	-	-	-	-	ı	-	-	-	-	<b>Monitor</b> 750-1.13
Ifonic Acid (PFEESA)	Monito	oring has bee	en added	to support	establishmer	nt of future	standards or TB	ELs.							
1,4-Dioxane	μg/L	Daily Max	-	-	0/1	-	-	-	-	18,000	A(C)	-	TOGS 1.1.1	-	No Limitation
1,1 210,10110															

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

# Appendix: Regulatory and Technical Basis of Permit Authorizations

The Appendix is meant to supplement the fact sheet 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
  - o 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 fact sheet:

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 Departmen	NYCRR 750-2.1(i)
Request for Additional Information	

## Outfall and Receiving Water Information

#### **Impaired Waters**

The NYS 303(d) List of Impaired/TMDL Waters 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 waste load allocation (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

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

to determine the existing capabilities of the wastewater treatment plants and to assure that 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 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 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, 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(/) 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 fact sheet. Consistent with current case law<sup>6</sup> and USEPA interpretation<sup>7</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>6</sup> American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)

<sup>&</sup>lt;sup>7</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)

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

#### **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. Additionally, 6 NYCRR Part 701.1 prohibits the discharge of pollutants that will cause impairment of the best usages of the receiving water as specified by the water classifications at the location of discharge and at other locations that may be affected by such discharge. 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 at the point of discharge and in downstream waters 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 DEC 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 DEC 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:

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

"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 DEC;
- 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 DEC 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

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

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 DEC 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.

The Division of Water has been using the TMDL approach in permit limit development for the control of toxic substances. Since the early 1980's, the loading capacity for specific pollutants has been determined for each drainage basin. Water quality-limiting segments and pollutants have been identified, TMDLs, wasteload allocations and load allocations have been developed, and permits with water quality-based effluent limits have been issued. In accordance with TOGS 1.3.1, the Division of Water implements a Toxics Reduction Strategy which is committed to the application of the TMDL process using numeric, pollutant-specific water quality standards through the Watershed Approach. The Watershed Approach accounts for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments.

## Water Quality-Based Effluent Limitations (WQBELs) for Discharges to Groundwater

The procedure for developing WQBELs includes identifying the pollutants present in the discharge(s), identifying water quality criteria applicable to these pollutants, determining if WQBELs are necessary (reasonable potential), and calculating the WQBELs. For groundwater discharges, if the expected concentration of the pollutant of concern in the receiving water may exceed the ambient groundwater quality standard or guidance value, then there is reasonable potential that the discharge may cause or contribute to a violation of the water quality, and a WQBEL for the pollutant is required.

WQBELs for groundwater discharges are based on the groundwater effluent limits set forth in 6 NYCRR Part 703 (Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations) except as noted in 6 NYCRR 702.21. TOGS 1.1.1 provides a listing of groundwater effluent limitations for substances having an ambient water quality standard or guidance value. Groundwater effluent limitations are applied at the point of discharge to the groundwater distribution system.

For land treatment systems with no accessible final sampling points, such as constructed wetland treatment systems or buried sand filters, permit limitations for groundwater discharges are typically based on ambient groundwater quality standards or guidance values applied at representative down gradient monitoring well(s). Limitations at the downgradient sampling point are set at the Class GA ambient groundwater standards, rather than at the groundwater effluent limits promulgated under 6 NYCRR 703.6, as compliance is determined based upon the concentrations present in the downgradient groundwater monitoring well at the groundwater interface.

Class GA standards are established for the protection of sources of drinking water designated as Health (Water Source) or H(WS) in TOGS 1.1.1. As such, effluent limitations based on aquatic life criteria and WET testing requirements are not applicable to groundwater discharges.

### 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.

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

- 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 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 DEC 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

Facility: Millbrook Sewage Treatment Plant

SPDES Number: NY0025429

USEPA Non-Major/Class 07 Municipal

Date: August 18, 2025 v.1.28 Permit Writer: Nicholas Mustico

Water Quality Reviewer: Nicholas Mustico

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.

## Pollutant Minimization Programs

Pollutant Minimization Programs are included when a pollutant is being discharged from the facility at detectable levels and the ML for the most sensitive method is greater than the calculated WQBEL. These programs typically include an on-going potential source identification, evaluation, and prioritization program to demonstrate progress towards meeting the goal of the WQBEL. Pollutant Minimization Plan requirements are based on 40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a) and 750-1.14(f), and TOGS 1.2.1.