

State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: 4952	NAICS Code:	221320	SPDES Number:	NY-0022144
Discharge Class (CL):	05		DEC Number:	3-3324-00011/00003
Toxic Class (TX):	N		Effective Date (EDP):	EDP
Major-Sub Drainage Basin:	13 - 01		Expiration Date (ExDP):	ExDP
Water Index Number:	H-89 portions	Item No.: 862 - 77	Modification Dates (EDPM):	
Compact Area: -			Tino amouson Batos (EBT ini).	

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

PERMITTEE NAME AND ADDRESS						
Name:	Town of Cornwall		Town			
Street:	183 Main Street		Town			
City:	Cornwall	State:	NY	Zip Code:	12518	
Email:	supervisor@cornwallny.gov	Phone:				

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL													
Name:	Name: Cornwall Wastewater Treatment Plant												
Address / Location:	360 Sh	ore Road							County:		Ora	nge	
City:	Cornw	all					State:	NY	Zip Code	e:	125	18	
Facility Location:		Latitude:	41 °	27	,	11	" N	& Longitude	74	0	1	['] 11	"W
Primary Outfall No.:	001	Latitude:	41 °	27	,	13	" N	& Longitude	74	0	1	, 5	" W
Outfall Description:	Treate	d Sanitary	Receivin	g Wate	er. N	/loc	odna C	reek	Class:	С	Sta	ndard:	-

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.

Permit

DISTRIBUTION:

BWP Permit Coordinator (<u>permit.coordinator@dec.ny.gov</u>)
BWP Permit Writer

RWE RPA

EPA Region II (<u>Region2_NPDES@epa.gov</u>)
NYSEFC (<u>Nancy.mvers@efc.nv.gov</u>)

Administrator:					
Address:	625 Broadway Albany, NY 12233-1750				
Signature		Date			

SPDES Number: **NY-0022144** Page 2 of 17 v.1.24

Contents

DEFINITIONS	3
PERMIT LIMITS, LEVELS AND MONITORING	
STORMWATER POLLUTION PREVENTION REQUIREMENTS	6
MERCURY MINIMIZATION PROGRAM (MMP) - Type IV	7
DISCHARGE NOTIFICATION REQUIREMENTS	g
CAPACITY, MANAGEMENT, OPERATION AND MAINTENANCE PLAN	10
SCHEDULE OF COMPLIANCE	11
MONITORING LOCATIONS	12
GENERAL REQUIREMENTS	13
RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS	15
E. Schedule of Additional Submittals:	15

SPDES Number: **NY-0022144**Page 3 of 17 v.1.24

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

SPDES Number: **NY-0022144**Page 4 of 17 v.1.24

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	LIMITATIONS APPLY	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All year unless otherwise noted	Moodna Creek	EDP	ExDP

	EFFI	LUENT L	IMITATIO	ON		MONITORING REQUIREMENTS				
PARAMETER						_		Loca	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Monthly Average	1.5	MGD			Continuous	Meter		Х	
- 11	Daily Minimum	6.0	011			0/4	Onah		, , , , , , , , , , , , , , , , , , ,	
рН	Daily Maximum	9.0	SU			2/day	Grab		Х	
BOD₅	Monthly Average	30	ma/l	380	lbs/d	1/week	24 hr Comp	Х	Х	1
BOD5	7-Day Average	45	mg/L	560	IDS/U	i/week	24-hr. Comp.		Х	
Total Suspended Solids	Monthly Average	30	ma/l	380	lbs/d	1/week	24 hr. Comp	X	Х	1
(TSS)	7-Day Average	45	mg/L	560	IDS/U	1/week	24-hr. Comp.		Х	
Settleable Solids	Daily Maximum	0.3	mL/L			2/day	Grab		Х	
Ammonia (as N) June 1 st – October 31 st	Daily Maximum	Monitor	mg/L			1/week	24-hr. Comp.		Х	
Ammonia (as N) November 1 st – May 31 st	Daily Maximum	Monitor	mg/L			1/week	24-hr. Comp.		Х	
Biennial Pollutant Scan						1/Two Years	-		х	2
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				Grab		Х	
Coliform, Fecal	7-Day Geometric Mean	400	No./ 100 mL				Grab		Х	
Chlorine, Total Residual	Daily Maximum	0.1	mg/L				Grab		Х	3,4
WHOLE EFFLUENT TOXICI	TY (WET) TESTING	Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
WET - Acute Invertebrate	See footnote			1.8	TUa		See footnote		Х	5
WET - Acute Vertebrate	See footnote			1.8	TUa		See footnote		Х	5
WET - Chronic Invertebrate	See footnote			26.7	TUc		See footnote		Х	5
WET - Chronic Vertebrate	See footnote			26.7	TUc		See footnote		Х	5

Footnotes Continued on Next Page

FOOTNOTES:

1. Effluent shall not exceed 15% and 15% of influent concentration values for BOD₅ & TSS respectively.

SPDES Number: **NY-0022144**Page 5 of 17 v.1.24

2. Biennial Pollutant Scan: The permittee shall perform effluent sampling every two (2) years for all applicable pollutants identified in the NY-2A Application, Tables A - D. Sampling data shall be collected according to the guidance in the NY-2A application and maintained by the permittee. Monitoring results shall not be submitted on the DMR. Data shall be submitted with the next submission of the NY-2A form.

- 3. This is a final effluent limitation. See Schedule of Compliance for any applicable interim effluent limitations.
- 4. 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.

5. Whole Effluent Toxicity (WET) Testing:

Testing Requirements – Acute and if directed Chronic WET testing is required. Testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be Ceriodaphnia dubia (water flea - invertebrate) and Pimephales promelas (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24-hr composite samples with one renewal for Acute tests and three 24-hr composite samples with two renewals for Chronic tests). The appropriate dilution series should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test may be required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is 6:1 for acute, and 26.7:1 for chronic.

Monitoring Period - WET testing shall be performed quarterly (calendar quarters i.e., Q1 – January 1st to March 31st, Q2 – April 1st to June 30th; Q3 – July 1st to September 30th; Q4 – October 1st to December 31st) during calendar years ending in **0 and 5**.

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

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

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

SPDES Number: **NY-0022144**Page 6 of 17 v.1.24

STORMWATER POLLUTION PREVENTION REQUIREMENTS

NO EXPOSURE CERTIFICATION

The permittee submitted a Conditional Exclusion for No Exposure Form on 8/3/2023, certifying that all industrial activities and materials are completely sheltered from exposure to rain, snow, snowmelt, and/or stormwater runoff. The permittee must maintain a condition of no exposure for the exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to stormwater, the permittee must notify the Regional Water Engineer. The permittee must recertify a condition of no exposure every five years by completing the "No Exposure Certification Form" found on the NYSDEC website.



SPDES Number: **NY-0022144**Page 7 of 17 v.1.24

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MERCURY MINIMIZATION PROGRAM (MMP) - Type IV

On 8/3/2023, the permittee submitted a Conditional Exclusion Certification, certifying that the facility does not have any of the mercury sources listed in Part III.A.3. of DOW 1.3.10.

- 1. <u>General</u> The permittee must develop, implement, and maintain a mercury minimization program (MMP), containing the elements set forth below.
- 2. <u>MMP Elements</u> The MMP must be a written document and must include any necessary drawings or maps of the facility and/or collection system. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP must include the following elements ¹ as described in detail below:
 - a. <u>Conditional Exclusion Certification</u> A certification (Appendix D of *DOW 1.3.10*), signed in accordance with 750-1.8 Signature of SPDES forms, must be submitted once every five (5) years for Outfall 001 to the Regional Water Engineer and to the Bureau of Water Permits certifying that Outfall 001 for the facility is neither a mercury source nor receives flows from a mercury source. Criteria to determine if a facility has a mercury source are as follows:
 - The facility is or receives discharge from 1) individually permitted combined sewer overflow (CSOs)² communities and/or 2) Type II sanitary sewer overflow (SSO)³ facilities;
 - One or more effluent samples which exceed 12 ng/L, including samples taken as a result of the SPDES application process;
 - Internal or tributary waste stream samples exceed the GLCA effluent limitation <u>AND</u> the final effluent samples are less than the GLCA due primarily to dilution by uncontaminated or less contaminated waste streams. Both components of this criterion may include samples taken as a result of the SPDES application process;
 - A permit application or other information indicates that mercury is handled on site and could be discharged through outfalls;
 - Outfalls which contain legacy mercury contamination;
 - The facility's collection system receives discharges from a dental and/or categorical industrial user (CIU)⁴ that may discharge mercury;
 - The facility accepts hauled wastes; or,
 - The facility is defined as a categorical industry that may discharge mercury. This may also include dentists, universities, hospitals, or laboratories which have their own SPDES permit.
 - b. <u>Control Strategy</u> The control strategy must contain the following minimum elements:
 - i. <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.
 - ii. <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.

¹Neither monitoring nor outreach is required for facilities meeting the criteria for MMP Type IV, but monitoring and/or outreach can be included in the permittee's control strategy.

²CSO permits are included under the 05 and 07 permit classifications.

³These are overflow retention facilities (ORFs) and are included under the 05 and 07 permit classifications.

⁴ClUs include those listed under Federal Regulation in 40 CFR Part 400.

SPDES Number: **NY-0022144**Page 8 of 17 v.1.24

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

- c. <u>Status Report</u> An **annual** status report must be developed and maintained on site, in accordance with the <u>Schedule of Additional Submittals</u>, summarizing:
 - i. Review of criteria to determine if the facility has a potential mercury source;
 - a. If the permittee no longer meets the criteria for MMP Type IV, the permittee must notify the Department for a permittee-initiated permit modification;
 - ii. All actions undertaken, pursuant to the control strategy, during the previous year; and
 - iii. Actions planned, pursuant to the control strategy, for the upcoming year.

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

- 3. MMP Modification The MMP must be modified whenever:
 - a. Changes at the facility, or within the collection system, increase the potential for mercury discharges;
 - b. A letter from the Department identifies inadequacies in the MMP.

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

DEFINITIONS:

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-0022144**Page 9 of 17 v.1.24

DISCHARGE NOTIFICATION REQUIREMENTS

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.

- (a) 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.
- (b) 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.
- (c) 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: () - ### - ####						

- (d) 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.
- (e) 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.

SPDES Number: **NY-0022144**Page 10 of 17 v.1.24

CAPACITY, MANAGEMENT, OPERATION AND MAINTENANCE PLAN

- 1. General Standards: The permittee shall develop, maintain and implement a Capacity, Management, Operation and Maintenance (CMOM) program. The program should be effective at reducing wet weather flows and eliminating separate sanitary sewer overflows (SSOs) that receive less than secondary treatment as required by the Clean Water Act to ensure the protection of public health, receiving water(s) and the environment during wet weather period from a separate sanitary sewer system serving public owned treatment works (POTW). The primary performance measures for the CMOM program are:
 - -Reductions in the number of backups and SSOs
 - -Reduction in peak wet weather flows in the system
 - -Minimization of pump station failures and overflows due to equipment malfunction
- 2. Compliance Due Date: In accordance with the Schedule of Submittals, the permittee shall submit an approvable CMOM Program, including an implementation schedule, to the Regional Water Engineer for review and approval. The permittee shall begin implementation of the approved CMOM program within 3 months of Departmental approval. The permittee shall review, update, and modify the CMOM plan annually and submit an annual report describing all actions taken in the preceding year. The submitted CMOM Program, once approved, shall supersede the requirements listed in this section for purposes of compliance with this Permit.
- 3. **Components of CMOM program:** The following components, at a minimum, shall be addressed in the development of the CMOM program. Note that while these components shall be addressed by the permittee, the permittee may address these, and any additional items using organizational and implementation methods applicable to and tailored to their specific system:

Goals
Organization
Legal Authority
Measures and activities
Design and Inspection Standards
Overflow Emergency Response Plan
System Evaluation and Capacity Assurance Plan
Monitoring and evaluation the effectiveness of the CMOM program

The permittee may include measures undertaken and completed as part of other ongoing programs, as well as Asset Management planning and principles, to satisfy any applicable CMOM program requirements. The permittee may also indicate "not applicable" for any portions of the CMOM Program that do not apply to its facility or collection system based upon its knowledge of the system. Guidance for developing and evaluating CMOM programs can be found at: https://www.epa.gov/npdes/sanitary-sewer-overflow-sso-additional-resources.

4. Compliance with CMOM Requirements: As stated in (2) above, compliance with the submitted and approved CMOM Program shall constitute compliance with the CMOM requirements in this permit. Any future CMOM requirements promulgated by either the Department or USEPA will not go into effect for this facility, and the facility shall not be required to comply with these additional requirements, until such time as the facility's permit and approved CMOM Program are modified to include the future CMOM requirements. As part of that modification, a schedule of compliance will be included to allow adequate time for the permittee to update its approved CMOM Program to address the future CMOM requirements.

SPDES Number: NY-0022144

Page 11 of 17 v.1.24

SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

INTERIM EFFLUENT LIMIT MONITORING REQUIRE						EME					
OUTFALL	PARAMETER								Loc	ation	N - 4
		Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.		Notes
001	Chlorine, Total Residual	Daily Max	0.5	mg/L			2/day	Grab		Х	1
Notes: 1	1. Interim limits expire EDP + 3 months.										

- b) The permittee shall submit a notice of non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2. All notifications shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of <u>non-compliance</u> 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 NYSDEC Regional Water Engineer and to the Bureau of Water Permits.



SPDES Number: **NY-0022144** Page 12 of 17 v.1.24

MONITORING LOCATIONS

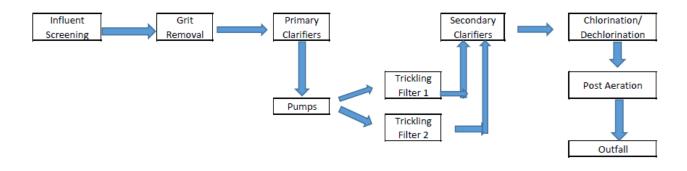
The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:

Influent: Headworks

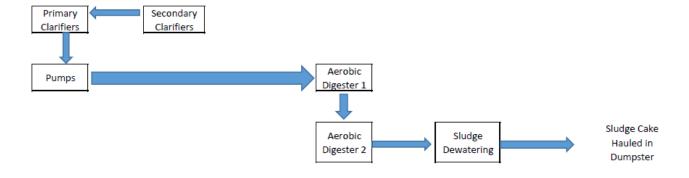
Effluent: After the post aeration tank

WASTEWATER FLOW DIAGRAM

*Screenings and Grit removed by Town sanitation department.



SLUDGE FLOW DIAGRAM



SPDES Number: **NY-0022144**Page 13 of 17 v.1.24

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	se6 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	

F. Planned Changes

- 1. The permittee shall give notice to the Department as soon as possible of planned physical alterations or additions to the permitted facility when:
 - a. The alteration or addition to the permitted facility may meet any of the criteria for determining whether facility is a new source in 40 CFR §122.29(b); or
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject either to effluent limitations in the permit, or to notification requirements under 40 CFR §122.42(a)(1); or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

In addition to the Department, the permittee shall submit a copy of this notice to the United States Environmental Protection Agency at the following address: U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866.

SPDES Number: **NY-0022144**Page 14 of 17 v.1.24

GENERAL REQUIREMENTS (continued)

2. Notification Requirement for POTWs

All POTWs shall provide adequate notice to the Department and the USEPA of the following:

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

POTWs shall submit a copy of this notice to the United States Environmental Protection Agency, at the following address:

U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866

G. Sludge Management

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

H. SPDES Permit Program Fee

The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.

I. Water Treatment Chemicals (WTCs)

New or increased use and discharge of a WTC requires prior Department review and authorization. At a minimum, the permittee must notify the Department in writing of its intent to change WTC use by submitting a completed WTC Notification Form for each proposed WTC. The Department will review that submittal and determine if a SPDES permit modification is necessary or whether WTC review and authorization may proceed outside of the formal permit administrative process. The majority of WTC authorizations do not require SPDES permit modification. In any event, use and discharge of a WTC shall not proceed without prior authorization from the Department. Examples of WTCs include biocides, coagulants, conditioners, corrosion inhibitors, defoamers, deposit control agents, flocculants, scale inhibitors, sequestrants, and settling aids.

- 1. WTC use shall not exceed the rate explicitly authorized by this permit or otherwise authorized in writing by the Department.
- 2. The permittee shall maintain a logbook of all WTC use, noting for each WTC the date, time, exact location, and amount of each dosage, and, the name of the individual applying or measuring the chemical. The logbook must also document that adequate process controls are in place to ensure that excessive levels of WTCs are not used.
- 3. The permittee shall submit a completed WTC Annual Report Form each year that they use and discharge WTCs. This form shall be submitted in electronic format and attached to either the December DMR or the annual monitoring report required below. The WTC Notification Form and WTC Annual Report Form are available from the Department's website at: http://www.dec.nv.gov/permits/93245.html

SPDES Number: NY-0022144

Phone: (518) 402-8111

Page 15 of 17 v.1.24

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- A. The monitoring information required by this permit shall be retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent.
- B. <u>Discharge Monitoring Reports (DMRs)</u>: Completed DMR forms shall be submitted for each **one (1)** month reporting period in accordance with the DMR Manual available on Department's website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by NYSDEC. Instructions on the use of NetDMR can be found at https://www.dec.ny.gov/chemical/8461.html. 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 addresses:

Department of Environmental Conservation Division of Water, Bureau of Water Permits 625 Broadway, Albany, New York 12233-3505

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

- D. <u>Bypass and Sewage Pollutant Right to Know Reporting</u>: In accordance with the Sewage Pollutant Right to Know Act (ECL § 17-0826-a), Publicly Owned Treatment Works (POTWs) are required to notify DEC and Department of Health within two hours of discovery of an untreated or partially treated sewage discharge and to notify the public and adjoining municipalities within four hours of discovery. Information regarding reporting and other requirements of this program may be found on the Department's website. In addition, POTWs are required to provide a five-day incident report and supplemental information to the DEC in accordance with Part 750-2.7(d) by utilizing the Division of Water Report of Noncompliance Event form unless waived by DEC on a case-by-case basis.
- 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-0022144**Page 16 of 17 v.1.24

	SCHEDULE OF ADDITIONAL SUBMITTALS	age 16 01 17 V.1.24
Outfall(s)	Required Action	Due Date
	EMERGING CONTAMINANT SHORT-TERM MONITORING PROGRAM The permittee shall collect grab samples of both the influent and effluent from the facility's treatment system(s) associated with the identified outfall for Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane (1,4-D), unless permittee receives written notification from the Department during this time that sampling can be discontinued. Samples must be analyzed utilizing EPA draft analytical method 1633 and EPA Method 8270D SIM or 8270E SIM, respectively. The samples must represent normal discharge conditions and treatment operations and shall be obtained on a quarterly basis for at least 4 consecutive quarters, unless written notification from the Department indicates otherwise. The results shall be reported through the "Emerging Contaminants Survey for POTWs" found at: https://www.dec.ny.gov/chemical/127939.html .	EDP + 18 months
	The permittee shall initiate track down of potential sources by completing the "Emerging Contaminants Investigation Checklist for POTWs" available at the above link. The Department may periodically request updates and/or additional monitoring to check progress on track down investigations. Elements of the checklist may be used as permit conditions in future permit modifications.	Within 90 days of DEC written notification
	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.	December DMR (January 28 th)
	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 th)
	BIENNIAL POLLUTANT SCAN The permittee shall implement an ongoing monitoring program and perform effluent sampling every two years as specified in footnote of the permit limits table.	Retain and submit with next NY-2A Application
	SHORT-TERM HIGH-INTENSITY MONITORING PROGRAM The permittee shall collect 12 samples representative of normal discharge conditions and treatment operations over 12 months for total copper, nitrite and bis(2-ethylhexyl) phthalate. The permittee shall use approved EPA analytical method with the lowest possible detection limit as promulgated under 40CFR Part 136 for the determination of the concentrations of parameters listed. The permittee shall submit a summary of the results.	EDP + 14 months
	WHOLE EFFLUENT TOXICITY (WET) TESTING WET testing shall be performed as required in the footnote of the permit limits table. The toxicity test report including all information requested of this permit shall be attached to your WET DMRs and sent to the WET@dec.ny.gov email address.	Within 60 days following the end of each monitoring period
	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 NYSDEC website.	August 3, 2028 and every 5 years thereafter

SPDES Number: NY-0022144

Page 17 of 17 v.1.24

	SCHEDULE OF ADDITIONAL SUBMITTALS												
Outfall(s)	Required Action												
	MERCURY - CONDITIONAL EXCLUSION CERTIFICATION Permittee must submit a mercury conditional exclusion certification every five years in order to maintain MMP Type IV status. As part of the certification the permittee will be required to sample the effluent and measure <12 ng/L.	August 3, 2028 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.

Permittee: Town of Cornwall Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

SPDES Permit Fact Sheet Town of Cornwall Cornwall Wastewater Treatment Plant NY0022144



Permittee: Town of Cornwall Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry Full Technical Review

Contents

Summary of Permit Changes	3
Administrative History	3
Facility Information	4
Site Overview	5
Reach Overview	6
Enforcement History	6
Existing Effluent Quality	7
Receiving Water Information	7
Impaired Waterbody Information	7
Critical Receiving Water Data & Mixing Zone	7
Permit Requirements	8
Whole Effluent Toxicity (WET) Testing	8
Anti-backsliding	8
Antidegradation	8
Discharge Notification Act Requirements	8
Stormwater Pollution Prevention Requirements	8
Capacity, Management, Operation and Maintenance (CMOM) Program	9
Mercury	9
Biennial Pollutant Scan	9
Schedule(s) of Compliance	9
Emerging Contaminant Monitoring	9
Schedule(s) of Additional Submittals	10
OUTFALL AND RECEIVING WATER SUMMARY TABLE	11
POLLUTANT SUMMARY TABLE	11
Outfall 001	11
Appendix: Regulatory and Technical Basis of Permit Authorizations	17
Regulatory References	17
Outfall and Receiving Water Information	17
Existing Effluent Quality	18
Permit Requirements	18

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) EBPS permit renewal has been drafted for the Cornwall Wastewater Treatment Plant. The changes to the permit are summarized below:

- Updated permit format, definitions, and general conditions
- Updated outfall coordinates
- Updated effluent BOD₅ and TSS loading limits for rounding purposes.
- Added Biennial Pollutant Scan requirement
- Updated ammonia sampling frequency to once per week
- Updated ammonia sample type to 24-hr. composite
- Updated the disinfection season from May 15th through October 15th to May 1st through October 31st.
- Reduced the total residual chlorine limit from 0.5 mg/L to 0.1 mg/L.
- Added WET action levels of 1.8 TUa and 26.7 TUc for acute and chronic, respectively.
- Added stormwater pollution prevention requirements.
- Added Mercury Minimization Plan Type IV requirements.
- Replaced the Inflow and Infiltration Management Program with a Capacity, Management, Operation and Maintenance Plan.
- Updated the Schedule of Compliance
- Updated the monitoring locations and site schematic.
- Added a Schedule of Additional Submittals, including new short-term monitoring requirements for emerging contaminates.

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 Appendix linked throughout this fact sheet.

Administrative History

10/3/2008

The last full technical review was performed and the SPDES permit was modified. The expiration date of 5/1/2009 remained. The 2008 permit, along with all subsequent modifications, has formed the basis of this permit.

The permit was modified to update permit format, definitions, and general conditions, decrease the Total Residual Chlorine (TRC) effluent limit, add an Ammonia monitoring requirement, increase the percent removal requirements for BOD and TSS, add two compliance schedules for Short-Term High-Intensity Monitoring (STHIM) and meeting the new TRC limit, and add an Inflow and Infiltration Management Program.

The permit was administratively renewed in 2009 and again in 2013. The current permit administrative renewal is effective until 11/30/2018.

1/7/2009

The permit was modified to update permit footnotes for BOD and TSS, correct the EPA Method of Analysis listed in the STHIM for Toluene and Carbon Tetrachloride. and update the Monitoring Locations diagram.

11/30/2018 The current permit was allowed to stay in effect pursuant to SAPA¹.

¹ State Administrative Procedures Act Section 401(2) and 6 NYCRR 621.11(*I*)

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

4/26/2019 Department issued a Request for Information (RFI) to modify and renew the

SPDES permit due to the facility's EBPS score².

7/26/2019 The Town of Cornwall submitted a NY-2A permit application.

4/14/2023 The Department issued a Request for Additional Information (RFAI) to supplement

the NY-2A that was submitted in 2019.

8/4/2023 The Town of Cornwall submitted an updated NY-2A permit application.

The Notice of Complete Application, published in the Environmental Notice Bulletin 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 sewage. The collection system consists of separate sewers. The facility does not have any significant industrial users (SIUs).

The current 1.5 MGD treatment plant consists of:

- Preliminary Treatment: Screening and grit removal
- Primary Treatment: Primary clarification
- Secondary Treatment: Trickling filters and secondary clarification
- Disinfection: Chlorination, dechlorination and post-aeration

Sludge is digested aerobically, dewatered, and then hauled offsite for disposal.

The primary outfall (Outfall 001) is a 21" corrugated metal pipe that runs from a manhole on the WWTP site into the Moodna Creek, then bends and runs parallel with the Moonda Creek for approximately 300'. The pipe then bends at a 45-degree angle and runs for approximately 100'. The pipe emerges from the bottom of the stream channel in which there is a 21" x 15" wye where the effluent is discharged.

The facility is planning the following upgrades/improvements:

- Construction of sludge holding tanks for aerobic digestion
- Construction of sludge dewatering building

The facility accepts wastewater from the following municipalities:

-	•		
	Municipality	POSS # or SPDES #	Collection System
	Town of Cornwall	NY0022144	Separate
ı	Village of Cornwall-on-Hudson	Not Registered	Separate

² Pursuant to 6 NYCRR 750-1.18 and NYS Environmental Benefit Permit Strategy (EBPS)

Permittee: Town of Cornwall Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry Full Technical Review

Site Overview



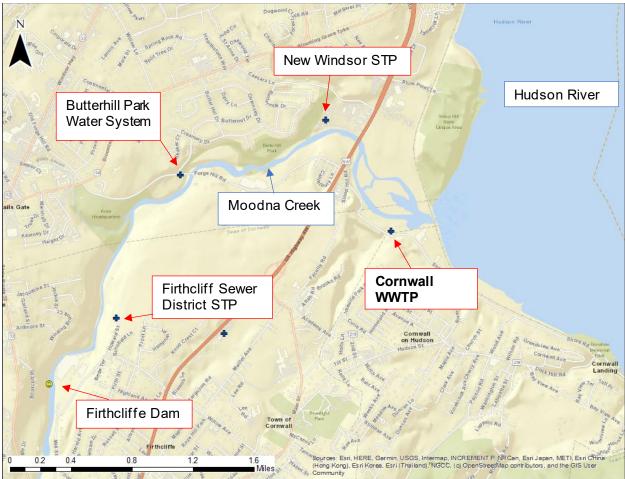
Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

Reach Overview



Enforcement History

The facility is operating under Order on Consent R3-20120619-76 dated 12/29/2014, which was modified on 10/20/2016. The Order requires the following compliance actions:

- 1. Process Optimization and Preliminary Treatment
 - a. Submit to the Department an approvable Process Control Optimization Report (including Preliminary Treatment Units) and schedule for proposed actions, certified by a NYS Licensed Professional Engineer for the Cornwall plant to eliminate plant effluent violations of TSS percent removal, BOD percent removal, Fecal Coliform and Total Residual Chorine, and recommendations for process performance enhancement.
 - b. Implement proposed actions in the approved Process Control Optimization Report.
- 2. Sludge Processing, Storage and Disposal Facilities
 - a. Properly store and dispose of sludge.
 - b. Include in the Process Control Optimization Report, certified by a NYS Licensed Profession Engineer, a section with a description of its sludge processing, storage, and disposal.
- 3. Dechlorination System and Additional WWTP Upgrade
 - a. Submit approvable plans and specifications certified by a NYS Licensed Professional Engineer for the Dechlorination System and Additional WWTP Upgrade for Department approval.

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

- b. Solicit bids, award construction, and issue a Notice to Proceed to Construction of the Dechlorination System and Additional Upgrades.
- c. Complete the construction of Dechlorination System and Additional WWTP Upgrade in accordance with the Department's approved Engineering Report and Plans and submit a Certification of Completion to the Department.
- 4. Inflow and Infiltration Management Program
 - a. Submit a schedule of implementation that satisfies all recommendations in the Respondent's 2012 and 2013 Annual Inflow and Infiltration Management Reports.
 - b. Implement the Inflow and Infiltration Reduction Work immediately and in accordance with the approved schedule.

Items 1 and 3 listed above have been completed.

Compliance and enforcement information can be found on the EPA's <u>Enforcement and</u> Compliance History Online (ECHO) 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 and the application submitted by the permittee for the period 10/1/2018 to 9/30/2023. <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	Moodna Creek, Class C

Reach Description: Moodna Creek (H-89 portions including P 226f, P 234f, P 236a) is a tributary of the Hudson River. The segment of Moodna Creek at the point of discharge is classified as C (6NYCRR 862.6 – Table I – Item 77). The confluence with the Hudson River is approximately 0.5 miles downstream of the Town of Cornwall WWTP discharge.

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

Impaired Waterbody Information

The Moodna Creek segment (PWL No. 1301-0003) is not listed on the 2018 New York State Section 303(d) List of Impaired/TMDL Waters, and therefore, there are no applicable wasteload allocations (WLAs) for this discharge.

Critical Receiving Water Data & Mixing Zone

Consistent with TOGS 1.3.1, the outfall information submitted in the application and detailed mixing zone form was used to develop a mixing zone model to establish dilution ratios for the water quality analysis. The model showed the mixing is dominated by either the negative buoyancy or the discharge or the downward vertical orientation of the discharge port leading to bottom interaction.

Outfall	Acute Dilution	Chronic Dilution	Human, Aesthetic,	Basis
No.	Ratio	Ratio	Wildlife Dilution Ratio	
INO.	A(A)	A(C)	(HEW)	

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

001	6:1	26.7:1	26.7:1	CORMIX

Critical receiving water data are listed in the Pollutant Summary Table at the end of this fact sheet. Appendix Link

Permit Requirements

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

Whole Effluent Toxicity (WET) Testing

An evaluation of the discharge indicates the potential for toxicity based on the following criteria: Appendix Link

• Treatment plants which equal or exceed a discharge of 1MGD. (#7)

The requirement for WET testing is new. No previous WET data was available to perform a reasonable potential analysis. Consistent with TOGS 1.3.2, given the dilution available and location outside of the Great Lakes basin, the permit requires acute and if directed chronic WET testing. WET testing action levels of 1.8 TUa and 26.7 TUc have been included in the permit for each species. The acute action level for each species represent the acute dilution ratio times a factor of 0.3. The chronic action levels represent the chronic dilution ratio. Samples will be collected quarterly once every five years.

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)³ determination. Appendix Link

Discharge Notification Act Requirements

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

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

Stormwater Pollution Prevention Requirements

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

On 8/3/2023, the permittee submitted a Conditional Exclusion for No Exposure Form, certifying that all industrial activities and materials are completely sheltered from exposure. This condition must be maintained for the exclusion to remain applicable. The schedule of submittals also

³ As prescribed by 6 NYCRR Part 617

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

includes a due date for re-certification every five years as required by 40 CFR 122.26(g)(iii). This requirement is new.

Capacity, Management, Operation and Maintenance (CMOM) Program

The permittee is required to develop and implement a CMOM program to reduce wet weather flows and eliminate SSOs. This requirement is necessary because the permittee has discharges from SSOs that do not comply with NYS regulations⁴.

Mercury⁵

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

The facility is an USEPA Major municipal facility (class 05) that is located outside of the Great Lakes Basin. On 8/3/2023, the permittee submitted a Conditional Exclusion Certification, certifying that the facility does not have any of the mercury sources listed in Part III.A.3. of DOW 1.3.10 and the effluent measured <12 ng/L. Therefore, consistent with DOW 1.3.10, the permit includes requirements for the implementation of MMP Type IV and does not include mercury effluent limitations. The <u>Schedule of Additional Submittals</u> includes a mercury minimization plan annual status report (maintained onsite), and re-certification of the exclusion every five years. As part of the re-certification, the effluent must be sampled and continue to measure <12 ng/L. This requirement is new.

Biennial Pollutant Scan

Three effluent samples for applicable parameters must be submitted with an NY-2A Application⁶. The permit includes a requirement to perform biennial sampling (once every two years) of the WWTP effluent for the parameters in the NY-2A Application, Tables A-D. This requirement ensures the data is representative of effluent conditions over the permit term and will be available for the next application submittal and permit review. This requirement is new.

Schedule(s) of Compliance

A Schedule of Compliance is being included for the following items (Appendix Link):

 Compliance period for attainment of final effluent limit at Outfall 001 for total residual chlorine. The limit was reduced and a major modification to the treatment facility or operations may be needed.

Emerging Contaminant Monitoring

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 product 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 NYSDEC Division of Water web page: https://www.dec.ny.gov/chemical/127939.html.

⁴ As specified in New York State Environmental Conservation Law section 17-0509 and 40 CFR Part 133

⁵ In accordance with DOW 1.3.10 Mercury – SPDES Permitting & Multiple Discharge Variance (MDV), December 30, 2020.

⁶ Pursuant to 40 CFR 122.21(j)(4)(vi).

⁷ Pursuant to 6 NYCRR 750-1.14

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

Pursuant to 6 NYCRR Part 750-1.13(b), the permit includes a short-term monitoring program listed in the Schedule of Additional Submittals to evaluate the influent and effluent discharge levels of Per-and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane. This monitoring program is consistent with PFAS guidance released in EPA guidance memos dated April 28, 2022, and December 5, 2022.

The Department will review the monitoring results and pursuant to 6 NYCRR 750-2.1(i) may notify the permittee of the need for further monitoring to identify potential sources as specified in the Emerging Contaminants Investigation Checklist for POTWs to determine whether cause exists to modify the permit to incorporate a pollutant minimization program per 6 NYCRR 750-1.14(f).

The Department will consider this information and progress made to track down and reduce or eliminate the source of the identified pollutants in determining if a permit modification is needed.

Schedule(s) of Additional Submittals

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

- Emerging Contaminant Short-Term Monitoring Program
- Water Treatment Chemical (WTC) Annual Report
- Annual Flow Certification
- Biennial Pollutant Scan
- Short-Term High-Intensity Monitoring Program for the following parameters:
 - o Nitrite
 - o Total Copper
 - o Bis(2-ethylhexyl) phthalate
- Whole Effluent Toxicity (WET) Testing
- Stormwater No Exposure Certification
- Mercury Conditional Exclusion Certification
- Mercury Minimization Plan Annual Report (maintained onsite)

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

OUTFALL AND RECEIVING WATER SUMMARY TABLE

					Water Index No. /	Major /					Critical	Dil	ution Ra	atio
Outfall	Latitude	Longitude	Receiving Water Name	Water Class	Priority Waterbody Listing (PWL) No.	Sub Basin	Hardness (mg/l)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Effluent Flow (MGD)	A(A)	A(C)	HEW
001	41° 27' 13" N	74° 1' 5" W	Moodna Creek	С	H-89 portions PWL: 1301-0003	13/01	136 ⁸	4.59	9.19	11.0	1.5	6:1	26.7 :1	26.7: 1

POLLUTANT SUMMARY TABLE

Outfall 001

0 (6 !! !!	004	Description	of Wast	tewater: T	reated Sanit	ary Sewage									
Outfall #	001	Type of Tre	atment:	Screening	and grit rer	noval, prim	ary clarification,	trickling f	ilters, seco	ndary clar	rification, ch	nlorination an	ıd dechlori	natior	ı
			Existing Discharge Data			-	TBELs		Wa	ater Quality	y Data & Wo	QBELs			5
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁹	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
							3 was obtained t WQBEL shown I					ed by the perr	nittee. All a	pplica	ble water quality
	MGD	Monthly Avg	1.5	1.1 Actual Average	60 / 0	1.5	Design Flow	Narrative: No alterations that will impair the waters for their best usages.					1	TBEL	
	Consis	tent with 400	CFR Part	133.102 ar	nd TOGS 1.3	3.3, a month	nly average flow	limitation	equal to the	e average	daily desig	n capacity of	the treatme	ent pla	ant is specified.
	SU	Minimum	6.0	6.8 Actual Min	60 / 0	6.0	40 CFR	8.0 ¹⁰	10	6.5 – 8.5	Panga		702.2		TBEL
рН	8	Maximum	9.0	8.3 Actual Max	60 / 0	9.0	133.102	0.0	_	0.5 – 6.5	Range	-	<u>703.3</u>	-	IBEL
	Consist the WC		GS 1.3.3	for POTWs	s, TBELs refl	ectsecond	ary treatment sta	ndards. G	iven the ava	ailable dilu	ıtion, an effl	uent limitation	equal to th	e TBE	L is protective of
Dissolved Oxygen (DO) (DO)	mg/L	-	-		-	-	-	-	4.26 End of Reach DO	(Non- Trout) 4.0 mg/L		No Reasonable Potential	<u>703.3</u>	-	No Limitation

⁸ Ambient hardness was calculated from RIBs station 13-Mood-0.8, located ~0.9 miles upstream, using one sample collected July 2017.

⁹ Existing Effluent Quality: 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)

¹⁰ Ambient pH calculated from RIBs station 13-Mood-0.8, located ~0.9 miles upstream, using seven samples collected from August 1992 to July 2017.

Facility: Cornwall Wastewater Treatment Plant SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Outfall #	001	Description	of Wast	tewater: T	reated Sanit	ary Sewage	е												
Outrail #	001	Type of Tre	atment:	Screening	and grit rer	noval, prim	ary clarification,	trickling f	ilters, seco	ndary clar	ification, ch	nlorination ar	nd dechlori	natior	l				
			Existi	Existing Discharge Data			TBELs	Water Quality Data & WQBELs							Decis for				
Effluent Parameter	Units		Units			Averaging Period	Permit Limit	Existing Effluent Quality ⁹	# of Data Points Detects / Non- Detects		Basis	Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	l wd Type	WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	with T0 Reach	DGS 1.3.1D), Description: I located ~1.	Effluent The mo	$BOD_5 = 45$ del include	5 mg/L (preved the Firthc	ious permit liffe Dam Io	treeter-Phelps eq t limit), Effluent N cated ~3 miles u dsor WWTF loca	OD = 26 m pstream,	ng/L (maxim Firth cliff Se	um report wer Distri	ted ammoni ct STP loca	a result (21.4 ted ~2.5 mile	mg/L) conv s upstream	verted , Butte	to NOD). erhill Park Water				
	The mo	odel showed	that DO	standards	are maintai	ned and co	nsequently WQ	BELs for D	OO and BO	are unne	ecessary, ar	nd the TBELs	are protect	tive of	water quality.				
	ma/l	Monthly Avg	30	14	60 / 0	30	40 CFR 133.102				•	-							
5-day	mg/L	7 Day Avg	45	37	60 / 0	45	40 CFR 133.102					-							
Biochemical Oxygen Demand	lbs/d	Monthly Avg	375	164	60 / 0	380	-	-	See Dissolved (Oxygen	-	<u>703.3</u>	-	TBEL				
		7 Day Avg	563	491	60 / 0	560	-					-							
(BOD₅)	% Rem	Minimum	85	88 Actual Min	60 / 0	85	40 CFR 133.102					-							
	Consistent with 40 CFR Part 133.102 and TOGS 1.3.3 for POTWs, TBELs reflect secondary treatment standards. See justification for Dissolved Oxygen.																		
	m a /I	Monthly Avg	30	9.2	60 / 0	30	40 CFR 133.102												
	mg/L	7 Day Avg	45	21	60 / 0	45	40 CFR 133.102			Narrative: None from sewage, industrial wastes or other wastes that will cause deposition or impair the waters for their best									
Total Suspended	lbs/d	Monthly Avg	375	109	60 / 0	380	-	-				<u>703.2</u>	-	TBEL					
Solids (TSS)		7 Day Avg	563	246	60 / 0	560	-			us	sages.								
	% Rem	Minimum	85	92 Actual Min	60 / 0	85	40 CFR 133.102												
							Ws, TBELs refle		ary treatme	nt standar	ds. Given th	ie available di	lution, an e	ffluen	limitation equal				
Settleable Solids	mL/L	Daily Max	0.3	0.2	57 / 3	0.3	water quality sta	-	wastes	or other v or impair	om sewage vastes that vaters the waters		<u>703.2</u>	-	TBEL				
		tent with TO				s equal to th	ne TBEL of 0.3 mL	/L for PO	ΓWs provid	ing secon	dary treatme	nt without filtr	ation. Give	n that a	adequate dilution				

Facility: Cornwall Wastewater Treatment Plant SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Outfall #	001	Description	Description of Wastewater: Treated Sanitary Sewage													
Outfall #	001	Type of Treatment: Screening and grit removal, primary clarification, trickling filters, secondary clarification, chlorination and dechlorination														
			Existi	ng Discha	arge Data	TBELs			Wa	iter Quality	y Data & Wo	QBELs			D 1 6	
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁹	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement	
Nitrogen,	mg/L	Daily Max			25 / 0	-	-	0.082	1.12	1.2	A(C)	No Reasonable Potential	<u>703.5</u>	-	Monitor	
Ammonia (as N) SUMMER 6/1 – 10/31	upstrea of the p monito	The projected instream concentration was calculated using the maximum reported effluent concentration of 21.4 mg/L, a multiplier of 1.3, the chronic dilution ratio, and are upstream ambient concentration*. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number of samples. A comparisor of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation. Therefore, no WQBEL is specified. The monitor only limit will remain to inform future permitting decisions regarding effluent ammonia. *Ambient upstream concentration was assumed based on TOGS 1.3.1D, which specifies a background ammonia concentration of 0.1 mg/L (as NH3) if background is unknown.														
Nitrogen, Ammonia (as N) WINTER 11/1 – 5/31	mg/L	Daily Max	Monitor	29	35 / 0	-		0.082	0.98	1.9	A(C)	No Reasonable Potential	<u>703.5</u>	-	Monitor	
	upstrea of the p monito	am ambient corojected ins r only limit w nt upstream	concentra stream co vill remair	ntion*. The ncentratio n to inforn	multiplier wa n to the WQS n future perm	as selected S indicates aitting decis	no reasonable posions regarding	nical Sup otential to effluent an	port Docum cause or co nmonia.	ent Chapt ontribute to	er 3.3 to acc a WQS vio	count for the notation. There	number of s fore, no W(ample QBEL	tion ratio, and an es. A comparison is specified. The	
Total Mercury	ng/L	Daily Max	-	1.7 NY-2A	1/0		-	-	-	0.7	H(FC)	No Reasonable Potential	GLCA	-	No Limitation	
	See Me	ercury sectio	n of this	fact sheet												
	#/100	30d Geo Mean	200	14.8	30 / 0	200	TOGS 1.3.3	-	Narrative: The monthly geometric mea				703.4	1	TBEL	
Coliform, Fecal		7d Geo Mean	400	2,004	30 / 0	400	TOGS 1.3.3	-	not exceed		,					
		stent with TO FBEL are spe		effluent di	isinfection is	required se	easonally from Ma	y 1st - Oct	tober 31st, d	lue to the	class of the	receiving wat	erbody. Fe	cal co	liform limits equal	
Total Residual	mg/L	Daily Max	0.5	9.9	27 / 3	2.0	TOGS 1.3.3	-	0.09	0.005	A(C)	0.1	703.5	-	WQBEL	
Chlorine (TRC)							main a permit req e TBEL and an e						WQS by th	e chro	nicdilution ratio.	
Additional Poll	utants I	Detected														

Facility: Cornwall Wastewater Treatment Plant SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Outfall #	001	Description	Description of Wastewater: Treated Sanitary Sewage													
		Type of Treatment: Screening and grit removal, primary clarification, trickling filters, secondary clarification, chlorination and dechlorination														
			Existi	ng Discha	arge Data	-	TBELs		Wa	iter Quality	y Data & Wo	QBELs			5 . (
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁹	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement	
	upstrea transla	am ambient o torof1.8 was	concentr s also ap	ation*. The	e multiplier w onvert betwee	vas selected en the total a	e maximum repo d from EPA's Tea and dissolved for o cause or contri	chnical Su min acco	upport Docu rdance with	ument Cha the TriBas	apter 3.3 to sin RIBs cald	account for t	he number mparison of	of sa	mples. A metals	
	with TC analys	OGS 1.3.3, sh is. See Speci	nort-term ial Condi	high-inter itions and	nsity monitori the Schedul	ing (STHIM) le of Additio	ce of this parame is being required onal Submittals.	l for this p	arameter to	generate t	the data ned	cessary to per	form a futur	e reas		
	*Ambie	nt upstream	concent	ration was I	calculated f	rom RIBs s	tation 13-Mood-0	0.8, locate	d ~0.9 miles	s upstrean	n, using 1 s	ample collect No	ed July 201	17.		
	μg/L	Daily Max	-	0.6 NY-2A	1 / 0	-	1	-	0.06	5.28	A(C)	Reasonable Potential	703.5	-	No Limitation	
Total Lead	The projected instream concentration was calculated using the maximum reported effluent concentration of 0.6 µg/L, a multiplier of 6.2, the chronic dilution ratio, and a assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number of samples. A metals translator of 2.5 was also applied to convert between the total and dissolved form in accordance with the TriBasin RIBs calculation. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation. Therefore, no WQBEL is specified.															
	μg/L	Daily Max	-	44.3 NY-2A	1/0	-	-	-	5.14	107	A(C)	No Reasonable Potential	703.5	-	No Limitation	
Total Zinc	assum sample	ed negligible es. A metals t	e upstrea ranslator	m ambient r of 2.0 was	t concentrati s also applie	ion. The mu d to conver	Itiplier was select to between the tota easonable potent	ted from Il and diss	EPA's Tech olved formi	nnical Sup in accorda	port Docun ance with the	nent Chapter e TriBasin RIB	3.3 to acco	unt fo n. A c	or the number o	
	mg/L	Daily Max	_	8.5 NY-2A	1/0	-	-	-	1.7	0.1	A(C)	2.7	703.5	-	WQBEL	
Nitrite	assumo sample WQBE	ed negligible es. A compar L is specified	e upstreatison of t	centration m ambient he project	t concentrati ed instream	ion. The muconcentrati	e maximum repor ultiplier was select on to the WQS in	cted from idicates a	EPA's Tech reasonable	nnical Sup potential	port Docun to cause or	nent Chapter contribute to	3.3 to acco a WQS vio	ount fo plation	or the number of and therefore a	
	with TC	OGS 1.3.3, sh	nort-term	high-inter	nsity monitori	ing (STHIM)	ce of this parame is being required onal Submittals.									
	ma ar /1	Daily May	l	7.2					1		I	Ī		I		
Nitrate	mg/L	ng/L Daily Max - $\frac{7.2}{NY-2A}$ 1 / 0 703.5 - No Limitation numeric water quality standard for nitrate does not exist for Class C waterbodies. Therefore, no limitation or monitoring is specified.													No Limitation	

Facility: Cornwall Wastewater Treatment Plant SPDES Number: NY0022144 USEPA Major/Class 05 Municipal

Outfall #	001	Description of Wastewater: Treated Sanitary Sewage														
Outrail#	001	Type of Tre	Type of Treatment: Screening and grit removal, primary clarification, trickling filters, secondary clarification, chlorination and dechlorination													
			Existi	ng Discha	arge Data	-	TBELs		Wa	ater Quality	/ Data & W	QBELs				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁹	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement	
	mg/L	Daily Max	-	410 NY-2A	1 / 0	-	-	-	95	500	A(C)	No Reasonable Potential	703.3	-	No Limitation	
Fotal Dissolved Solids	assume sample	ed negligible	upstreatison of t	m ambient	t concentrati	ion. The mu	e maximum repor Itiplier was selection to the WQS in	ted from	EPA's Tech	nnical Sup	port Docun	nent Chapter	3.3 to acco	ount fo	or the number of	
	μg/L	Daily Max	-	0.6 NY-2A	1 / 0	-	-	-	0.15	4.6	A(C)	No Reasonable Potential	703.5	-	No Limitation	
Selenium	assume sample	ed negligible	upstrea ison of th	m ambient	concentrati	on. The mu	emaximum report Itiplier was select In to the WQS inc	ted from I	EPA's Techr	nical Supp	ort Docum	ent Chapter 3	.3 to accou	ınt for	the number of	
	μg/L	Daily Max	-	25.7 NY-2A	1 / 0)	-	-	5.97	9,000	H(FC)	No Reasonable Potential	703.5	-	No Limitation	
Total Cyanide The projected instream concentration was calculated using the maximum reported effluent concentration of 25.7 µg/L, a multiplier of 6.2, the assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to samples. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQBEL is specified.									.3 to accou	ınt for	the number of					
	μg/L	Daily Max	-	9.96 NY-2A	1/0	-	-	-	2.31	5.0	E(WS)	No Reasonable Potential	TOGS 1.1.1	-	No Limitation	
Total Phenols	assume sample	ed negligible	upstrea ison of th	m ambient	concentrati	on. The mu	e maximum repor Itiplier was select In to the WQS inc	ted from l	EPA's Techr	nical Supp	ort Docum	ent Chapter 3	.3 to accou	ınt for	the number of	
Chloroform	μg/L	Daily Max	-	0.98 NY-2A	1/0	-	-	-	-	-	-	-	703.5	-	No Limitation	
	A nume	eric water qu	ality stan	dard for c	hloroform d	oes not exi	st for Class C wa	aterbodies	. Therefore	, no limita	tion or mor	nitoring is spe	ecified.			
Methylene Chloride	μg/L	Daily Max	-	0.3 NY-2A	1/0	-	-	-	0.07	200	H(FC)	No Reasonable Potential	703.5	-	No Limitation	

Facility: Cornwall Wastewater Treatment Plant SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

O.,46-11.#	001	Description	Description of Wastewater: Treated Sanitary Sewage													
Outfall #		Type of Treatment: Screening and grit removal, primary clarification, trickling filters, secondary clarification, chlorination and dechlorination														
			Existi	ng Discha	arge Data	-	ΓBELs		Wa	ater Quality	/ Data & W	QBELs			Dania for	
Effluent Parameter	Units	Averaging Period	Permit Limit	Quality	# of Data Points Detects / Non- Detects	Limit	Basis	Bkgd. Conc.	Conc.	0.0.	WQ Type		Basis for WQBEL	ML	Basis for Permit Requirement	
	The projected instream concentration was calculated using the maximum reported effluent concentration of 0.3 µg/L, a multiplier of 6.2, the HEW dilution ratio, and an assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number of samples. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation. Therefore, no WQBEL is specified.															
	μg/L	Daily Max	-	0.9 NY-2A	1/0	ı	-	-	0.21	6,000	H(FC)	No Reasonable Potential	703.5	-	No Limitation	
	The projected instream concentration was calculated using the maximum reported effluent concentration of 0.9 µg/L, a multiplier of 6.2, the HEW dilution rates assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the name samples. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation. The WQBEL is specified.									the number of						
	μg/L	Daily Max	-	9.9 NY-2A	1 / 0	-	-	-	2.3	0.6	A(C)	16	703.5	-	WQBEL	
Bis(2-	The projected instream concentration was calculated using the maximum reported effluent concentration of 9.9 µg/L, a multiplier of 6.2, the chronic dilution ratio, and an assumed negligible upstream ambient concentration. The multiplier was selected from EPA's Technical Support Document Chapter 3.3 to account for the number of samples. A comparison of the projected instream concentration to the WQS indicates a reasonable potential to cause or contribute to a WQS violation and therefore a WQBEL is specified. Very limited data is available to confirm the presence or absence of this parameter and evaluate reasonable potential to cause or contribute to a WQS violation. Consistent with TOGS 1.3.3, short-term high-intensity monitoring (STHIM) is being required for this parameter to generate the data necessary to perform a future reasonable potential analysis. See Special Conditions and the Schedule of Additional Submittals.									or the number of n and therefore a violation.						
Perfluorooctan	μg/L	Daily Max	-	5.6 NY-2A	1/0		-	-	1.3	160	A(C)	No Reasonable Potential	TOGS 1.1.1	-	No Limitation	
(PFOS)	assume sample	ed negligible	upstrear son of th	n ambient	concentration	on. The mu	emaximum report Itiplier was selec n to the WQS ind	ted from E	EPA's Techr	nical Supp	ort Docum	ent Chapter 3	.3 to accou	nt for	the number of	
Perfluorooctan oic Acid	μg/L	Daily Max	-	4.6 NY-2A	1/0	-	-	-	-	-	-	-	TOGS 1.1.1	-	No Limitation	
	A nume	eric water qua	ality stan	dard for P	FOA does n	ot exist for	Class C waterbo	dies. The	refore, no li	imitation c	r monitorir	ng is specified	d.			

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

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
 - 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 Department	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 WLA of an EPA-approved TMDL (6 NYCRR 750-1.11(a)(5)(ii)), if applicable. In accordance with 6 NYCRR 750-1.13(a), permittees discharging to waters which are on the list but do not yet have a TMDL developed may be required to perform additional monitoring for the parameters causing the impairment. Accurate monitoring data is needed to

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

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

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 95th (monthly average) and 99th (daily maximum) percentiles of the lognormal distribution of existing effluent data. When there are greater than three non-detects, a delta-lognormal distribution is assumed, and delta-lognormal calculations are used to determine the monthly average and daily maximum pollutant concentrations. Statistical calculations are not performed for parameters where there are less than ten data points. If additional data is needed, a monitoring requirement may be specified either through routine monitoring or a short-term high intensity monitoring program. The <u>Pollutant Summary Table</u> identifies the number of sample data points available.

Permit Requirements

Basis for Effluent Limitations

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

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

Anti-backsliding

Anti-backsliding requirements are specified in the CWA sections 402(o) and 303(d)(4), ECL 17-0809, and regulations at 40 CFR 122.44(*I*) and 6 NYCRR 750-1.10(c) and (d). Generally, the relaxation of effluent limitations in permits is prohibited unless one of the specified exceptions applies, which will be cited on a case-by-case basis in this fact sheet. Consistent with current case law¹¹ and USEPA interpretation¹² 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.

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. AWQBEL is designed

¹¹ American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)

¹² 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: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

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 Department considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

Mixing Zone Analyses

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

"EPA Technical Support Document for Water Quality-Based Toxics Control" (March 1991); EPA Region VIII's "Mixing Zones and Dilution Policy" (December 1994); NYSDEC TOGS 1.3.1, "Total Maximum Daily Loads and Water Quality-Based Effluent Limitations" (July 1996); "CORMIX v11.0" (2019).

Critical Flows

In accordance with TOGS 1.2.1 and 1.3.1, WQBELs are developed using dilution ratios that relate the critical low flow condition of the receiving waterbody to the critical effluent flow. The critical low flow condition used in the dilution ratio will be different depending on whether the limitations are for aquatic or human health protection. For chronic aquatic protection, the critical low flow condition of the waterbody is typically represented by the 7Q10 flow and is calculated as the lowest average flow over a 7-day consecutive period within 10 years. For acute aquatic protection, the critical low flow condition is typically represented by the 1Q10 and is calculated as the lowest 1-day flow within 10 years. However, NYSDEC considers using 50% of the 7Q10 to be equivalent to the 1Q10 flow. For the protection of human health, the critical low flow condition is typically

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144 USEPA Major/Class 05 Municipal Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

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

Reasonable Potential Analysis (RPA)

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

- 1) identify the pollutants present in the discharge(s) based upon existing data, sampling data collected by the permittee as part of the permit application or a short-term high intensity monitoring program, or data gathered by the Department;
- 2) identify water quality criteria applicable to these pollutants;
- 3) determine if WQBELs are necessary (i.e. reasonable potential analysis (RPA)). The RPA will utilize the procedure outlined in Chapter 3.3.2 of EPA's Technical Support Document (TSD). As outlined in the TSD, for parameters with limited effluent data the RPA may include multipliers to account for effluent variability; and,
- 4) calculate WQBELs (if necessary). Factors considered in calculating WQBELs include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources.

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

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

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

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments.

Whole Effluent Toxicity (WET) Testing:

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

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

Minimum Level of Detection

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

Monitoring Requirements

CWA section 308, 40 CFR 122.44(i), 6 NYCRR 750-1.13, and 750-2.5 require that monitoring be included in permits to determine compliance with effluent limitations. Additional effluent monitoring may also be required to gather data to determine if effluent limitations may be required. The permittee is responsible for conducting the monitoring and reporting results on Discharge Monitoring Reports (DMRs). The permit contains the monitoring 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 1.3.3.

Other Conditions

Mercurv

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

Facility: Cornwall Wastewater Treatment Plant

SPDES Number: NY0022144

USEPA Major/Class 05 Municipal

Date: March 11, 2024 v.1.21 Permit Writer: Kirsten Jedd-Barry

Water Quality Reviewer: Kirsten Jedd-Barry

Full Technical Review

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

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

Schedules of Compliance

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

Schedule(s) of Additional Submittals

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

