SPDES Number: **NY0215112**Page 1 of 11 v.1.40



State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: 8999	NAICS Code:	611699		SPDES Number:	NY0215112
Discharge Class (CL):	02			DEC Number:	3-3724-00043/00001
Toxic Class (TX):	N			Effective Date (EDP):	
Major-Sub Drainage Basin:	13 - 02			Expiration Date (ExDP):	
Water Index Number:	H-31-P 44-24- 18 and trib	Item No.:	864.6 - 316	Modification Dates	
Compact Area:	-			(EDPM):	

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

PERMITTEE NAME AND ADDRESS						
Name:	Camp Re, LLC Attention:					
Street:	C/O Tarter, Krinsky & Drogin, 1350 Broadway		Lester A. Greenburg			
City:	New York	State:	NY	Zip Code:	10018	
Email:	lgreenburg@tarterkrinsky.com	Phone:		·	'	

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL													
Name:	Camp	RE											
Address / Location:	111 Ba	111 Ballyhack Road County: Putnam											
City:	Patters	son				State:	NY		Zip Co	de:	1	2563	
Facility Location:		Latitude:	41	° 27	36	" N	& Longitude:		73	o :	34	' 10	" W
Primary Outfall No.:	001	Latitude:	41	° 27	24.5	" N	& Longitude:		73	0	34	5.5	" W
Outfall Description:	Treate Sanita		Receivii Water:	ng		of Eas	t Branch er	Clas	ss:	C :	Sta	ındard:	С

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. The co-permittees subject to one or more conditions of this permit are listed on page 2.

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

DISTRIBUTION:

BWP Permit Coordinator (permit.coordinator@dec.ny.gov) RWE RPA

Permit	
Administrator:	
Address:	
Signature	Date

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DEFINITIONS

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

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PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	LIMITATIONS APPLY	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All year unless otherwise noted	Trib. of East Branch Croton River	EDP	ExDP

	EFF	EFFLUENT LIMITATION					MONITORING REQUIREMENTS			
PARAMETER								Loca	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Monthly Average	0.0295	MGD			Continuous	Recorder		Х	
	Daily Minimum	6.5	SU			Daily	Cuah			
рН	Daily Maximum	8.5	SU			Daily	Grab		Х	
Temperature	Daily Maximum	Monitor	°F			Daily	Grab		Х	
Dissolved Oxygen	Daily Minimum	7.0	mg/L			Monthly	Grab		X	
BOD ₅	Daily Maximum	5	mg/L	1.23	lbs/d	Monthly	Grab	X	Х	1
Total Suspended Solids (TSS)	Daily Maximum	10	mg/L	2.46	lbs/d	Monthly	Grab	X	Х	1
Settleable Solids	Daily Maximum	0.1	mL/L			Daily	Grab		Х	
Ammonia (as N) June 1 st – October 31 st	Daily Maximum	0.41	mg/L	0.10		Monthly	Grab		Х	
Ammonia (as N) November 1 st – May 31 st	Daily Maximum	0.59	mg/L	0.15		Monthly	Grab		Х	
Total Phosphorus (as P)	Monthly Average	1.0	mg/L			Monthly	Grab		Х	
EFFLUENT DISINFECTION Required All Year		Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
Coliform, Fecal	30-Day Geometric Mean	200	No./ 100 mL			Monthly	Grab		Х	
Coliform, Fecal	7-Day Geometric Mean	400	No./ 100 mL			Monthly	Grab		X	
Chlorine, Total Residual	Daily Maximum	0.03	mg/L			Daily	Grab		Χ	2,3

FOOTNOTES:

- 1. Effluent shall not exceed 15% and 15% of influent concentration values for BOD₅ & TSS respectively.
- 2. Sampling and reporting for total residual chlorine are only necessary if chlorine is used for disinfection, elsewhere in the treatment process, or the facility otherwise has reasonable potential to discharge chlorine. Otherwise, the permittee shall report NODI-9 on the DMR.
- 3. This is a Compliance Level. The calculated WQBEL is 0.005.
- 4. Refer to the Schedule of Compliance on Page 6 of this permit. The facility shall not commence operation until the Department has approved the Certificate of Compliance. The certification shall include the NYCDEP approval of the engineering report plans and specifications for the design of the disposal system and a P.E. certification indicating the existing system can comply with the final effluent limitation(s) described in this permit.

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FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR PATHOGEN REDUCTION IN THE NEW YORK CITY WATERSHED

OUTFALL	WASTEWATER DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
001	Treated Sanitary Sewage	Trib. of East Branch Croton River	EDP	ExDP

The discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

DADAMETED	EFFLUENT LIMITATION	ON	MONITORING REQUIREMENT			
PARAMETER	Monthly Average	Units	Sample Frequency	Sample Type		
Giardia Lamblia Cysts	Note 1	-	-	-		
Enteric Viruses	Note 1	-	-	-		
Turbidity	Note 2	NTU	Continuous	Recorder		
Chlorine, Total Residual	Note 3	mg/L	Daily	Grab		

Note 1: Giardia Lamblia Cysts and Enteric Viruses

The facility must be capable of achieving a 99.9% removal and/or inactivation of giardia lamblia cysts and 99.99% removal of enteric viruses. The capability shall be demonstrated by maintaining the turbidity and chlorine levels specified and operating the microfiltration unit and the disinfection system on a continuous basis, in accordance with the provisions set forth in the WWTP's Operation and Maintenance Manual.

Note 2: Turbidity

The turbidity levels shall be maintained at less than or equal to 0.5 NTU in 95% of the measurements taken each month and an instantaneous maximum of 5.0 NTU shall not be exceeded.

Note 3: Total Residual Chlorine

When chlorine is used for disinfection, a minimum residual of 0.2 mg/l shall be maintained in the chlorine contact tank prior to dechlorination.

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DISCHARGE NOTIFICATION REQUIREMENTS

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

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

N.Y.S. PERMITTED DISCHARGE POINT
SPDES PERMIT No.: NY
OUTFALL No. :
For information about this permitted discharge contact:
Permittee Name:
Permittee Contact:
Permittee Phone: () - ### - ####
OR:
NYSDEC Division of Water Regional Office Address:
NYSDEC Division of Water Regional Phone: () - ### - ####

- (e) Upon request, the permittee shall make available electronic or hard copies of the sampling data to the public. In accordance with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit, each DMR shall be maintained (either electronically or as a hard copy) on record for a period of five years.
- (f) The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

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SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Outfall(s)	Compliance Action	Compliance Date ¹			
	COMMENCE OPERATION				
	The permittee shall provide a Construction Completion Certification to the DEC (send to the Regional Water Engineer and NetDMR@dec.ny.gov) that the disposal system has been fully completed in accordance with the NYCDEP approved Design Document and an engineering report certified by a professional engineer , that identifies the facilities current operating conditions to achieve compliance with final effluent limitation(s) described in this permit.				
	Following receipt of DEC acceptance of the P.E. Certification of Compliance, the permittee shall comply with the final effluent limitation(s) described in this permit.	Upon Department Acceptance			
Unless noted otherwise, the above actions are one-time requirements.					
See next page for Interim Effluent Limits.					



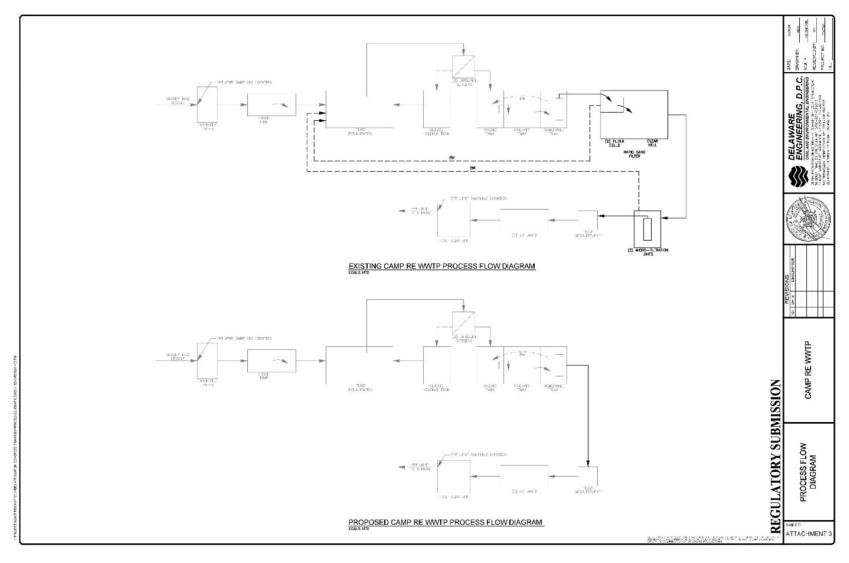
¹ 6 NYCRR 750-1.14 (a)

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: Influent sampling is at manhole MH-3

Effluent: Effluent sampling is at the post aeration tank outlet



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GENERAL REQUIREMENTS

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

B. General Conditions

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

C. Operation and Maintenance

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

D. Monitoring and Records

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

E. Reporting Requirements

1.	Reporting requirements	6 NYCRR 750-2.5, 2.7 & 1.17
2.	Anticipated noncompliance	6 NYCRR 750-2.7(a)
3.	Transfers	6 NYCRR 750-1.17
4.	Monitoring reports	6 NYCRR 750-2.5(e)
5.	Compliance schedules	6 NYCRR 750-1.14(d)
6.	24-hour reporting	6 NYCRR 750-2.7(c) & (d)
7.	Other noncompliance	6 NYCRR 750-2.7(e)
8.	Other information	6 NYCRR 750-2.1(f)
Ο.	Other information	011101111730-2.1(1)

F. Planned Changes

- 1. In accordance with 6 NYCRR 750-2.7, the permittee shall give notice to the DEC at least 45 days prior to planned physical alterations or additions to the permitted facility when:
 - a. The alteration or addition to the permitted facility may meet any of the criteria for determining whether facility is a new source in 40 CFR §122.29(b); or
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject either to effluent limitations in the permit, or to notification requirements under 40 CFR §122.42(a)(1); or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

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

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GENERAL REQUIREMENTS (continued)

G. Sludge Management

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

H. SPDES Permit Program Fee

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

I. Water Treatment Chemicals (WTCs)

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

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



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RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

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

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by DEC. Instructions on the use of NetDMR can be found at: How To Complete And Submit Discharge Monitoring Reports (DMRs) - NYSDEC. 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.

Phone: (518) 402-8111

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
220 White Plains Road, Suite 110, Tarrytown, New York, 10591
dow.r3@dec.nv.gov, Phone: (914) 803-8157

D. Schedule of Additional Submittals:

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

	SCHEDULE OF ADDITIONAL SUBMITTALS	
Outfall(s)	Required Action	Due Date
001	APPROVAL OF WATER TREATMENT CHEMICAL (WTC) AND ANNUAL REPORT FORM	
, ì	The permittee shall submit the completed WTC form for Department approval.	6 Months prior to start- up of the facility
	The permittee shall submit Annual Report Form each year that Water Treatment Chemicals are used. The annual report form shall be attached to the December DMR.	Every year upon Approval

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

E. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

SPDES Number: NY0215112

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F. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.

- G. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- H. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- I. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.



Permittee: Camp RE, LLC Facility: Camp RE

SPDES Number: NY0215112 USEPA Non-Major/Class 02 PCI Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy

Water Quality Reviewer: Aslam Mirza

Full Technical Review

SPDES Permit Fact Sheet Camp RE, LLC Camp RE NY0215112



USEPA Non-Major/Class 02 PCI

Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy Water Quality Reviewer: Aslam Mirza Full Technical Review

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Permittee: Camp RE, LLC Facility: Camp RE

SPDES Number: NY0215112

USEPA Non-Major/Class 02 PCI

Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy

Water Quality Reviewer: Aslam Mirza

Full Technical Review

Summary of Permit Changes

A new State Pollutant Discharge Elimination System (SPDES) permit has been drafted for the Camp RE. The facility was last upgraded in the early 2000's and was not activated upon the completion of construction and is currently not in operation. The changes to the permit are summarized below:

 Updated permit format, definitions, Monitoring Location, Recording, Reporting and Additional Monitoring Requirements

- Added General Requirements
- Added TSS mass loading limit from 2.46 lbs/d
- Removed CBOD₅ concentration-based limit and added BOD₅ limit of 5 mg/l
- Added BOD₅ mass loading limit of 1.23 lbs/d
- Added Percentage removal requirement for BOD₅ and TSS
- Updated Ammonia Nitrogen limit from 1.5 mg/l (as NH₃) to 0.41 mg/l (as N) from June 1st to October 31st and from 2.2 mg/l (as NH₃) to 0.59 mg/l (as N) from November 1st to May 31st
- Added Ammonia Nitrogen (as N) mass loading limit of 0.1 lbs/d from June 1st to October
- Added Ammonia Nitrogen (as N) mass loading limit of 0.15 lbs/d from November 1st to May 31st
- UpdatedTotal Residual Chlorine Limit from 0.02 mg/l to 0.03 mg/l
- Added influent monitoring requirements for BOD₅ and TSS
- Updated Footnotes
- Added NYC Watershed Monitoring Requirements
- Added a Schedule of Compliance for DEC acceptance of the Construction Completion Certification and an engineering report that identifies the facilities current operating conditions to achieve compliance with final effluent limitation(s)
- Added additional submittals for water treatment chemical approval

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

1/1/2012

The permit was initially issued on 4/16/1992. The last full technical review was performed and the SPDES permit became effective with a new five-year term. The permit was modified on 10/15/2012 with the expiration date of 12/31/2016. The 1/1/2012 permit, along with all subsequent modifications, has formed the basis of this permit.

10/15/2012 The modified permit includes ammonia limit from November 1- May 31 and monitoring locations.

12/31/2016 The SPDES permit expired.

7/4/2024 The Camp RE, LLC submitted a new PCI form to renew the expired permit. Permittee: Camp RE, LLC Facility: Camp RE

SPDES Number: NY0215112

USEPA Non-Major/Class 02 PCI

Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy

Water Quality Reviewer: Aslam Mirza

Full Technical Review

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

Facility Information

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

The current 0.0295 MGD treatment plant includes a trash trap, aerated flow equalization, fine screens, membrane bioreactor process, sand filtration, microfiltration, ultraviolet disinfection and post-aeration.

Sludge is aerobically digested and is directed from the holding tank back to the flow equalization tank

The primary outfall (Outfall 001) is an 8-inch diameter, PVC SDR pipe with an elevation of 531-feet discharge to a tributary of the East Branch Croton, a NYSDEC Class C stream.

The facility is planning the following upgrades/improvements:

• the sand filters and the microfiltration units will be eliminated

Permittee: Camp RE, LLC Facility: Camp RE

SPDES Number: NY0215112

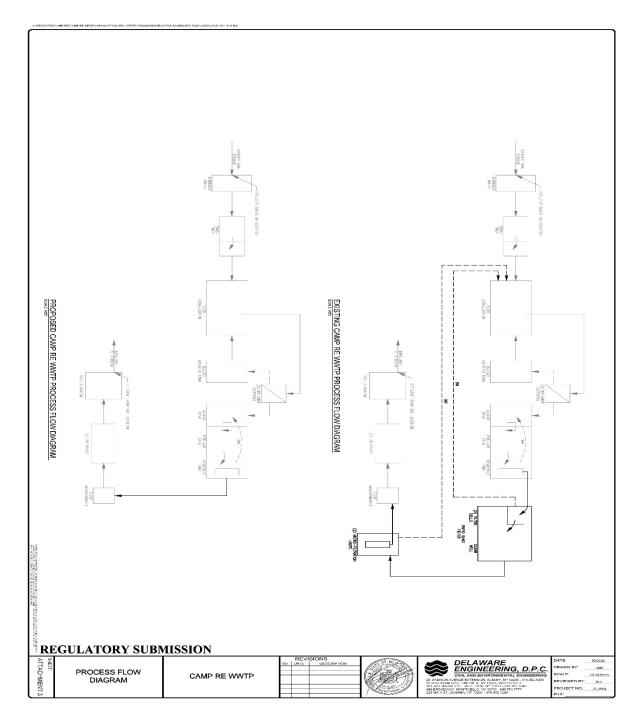
USEPA Non-Major/Class 02 PCI

Site Overview

Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy

Water Quality Reviewer: Aslam Mirza

Full Technical Review



Existing Effluent Quality

The WWTP was upgraded in the early 2000's and has never been in operation since the upgrade. There is no existing flow data to evaluate. The Pollutant Summary Table presents the effluent limitations. Appendix Link

Permittee: Camp RE, LLC Facility: Camp RE

SPDES Number: NY0215112

USEPA Non-Major/Class 02 PCI

Date: April 28, 2025 v.1.28 Permit Writer: Aparna Roy

Water Quality Reviewer: Aslam Mirza

Full Technical Review

Additional Site-Specific Concerns

The facility is located within the New York City (NYC) Water Supply Watershed and is therefore subjected, but not limited to, the following regulations¹:

- Wastewater treatment plants with surface discharges into the watershed shall be capable of achieving 99.9 percent removal and/or inactivation of Giardia lamblia cysts and 99.99 percent removal and/or inactivation of enteric viruses.
- Wastewater treatment plants with either surface or subsurface discharges within the
 watershed shall provide phosphorus removal using the best treatment technology so that
 the wastewater treatment plant is designed to be operated and maintained to meet total
 phosphorus limits based on SPDES permitted total flow.

Additional information on the pathogen reduction requirements can be found in the <u>Pollutant Summary Table</u>. Additional information on required phosphorus removal can be found in the <u>Impaired Waterbody Information</u> section of this fact sheet.

Receiving Water Information

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
001	8999	Treated Sanitary Sewage	Trib. of East Branch Croton River, Class C

Reach Description: The discharge is at the headwater of the receiving waterbody and drainage area is negligible. There is no downstream discharges within the length of the stream. There are many classified ponds, such as, P89, P44-24-P83 and etc.

Impaired Waterbody Information

The Trib. of East Branch Croton River segment (PWL No. 1302-0057) is not listed on the Year 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

The Intermittent stream effluent limits (ISEL) have been applied because the discharge is at the head end of the stream. Consistent with TOGS 1.3.1, the water quality standards will be applied as end-of-pipe limitations with no mixing or dilution.

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

Permit Requirements

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

¹ As required by Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and Its Sources (May 1997; as amended November 2019).

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Total Residual Chlorine Limit is updated from 0.02 mg/l to 0.03 mg/l. The ML for TRC was recently increased during EPA's Method Update Rule for 40 CFR 136 from 0.02 mg/L to 0.03 mg/L. As such, the increase from 0.02 to 0.03 mg/L does not violate anti-backsliding requirements.

The other 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)² 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 new.

Schedule of Compliance

A Schedule of Compliance is being included³ for the following items (Appendix Link):

 DEC acceptance of the Construction Completion Certification and an engineering report that identifies the facilities current operating conditions to achieve compliance with final effluent limitation(s)

Schedule of Additional Submittals

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

• Water Treatment Chemical approval and Water Treatment Chemical Annual Report Form

² As prescribed by 6 NYCRR Part 617

³ Pursuant to 6 NYCRR 750-1.14

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OUTFALL AND RECEIVING WATER SUMMARY TABLE

					Water Index No. /	Major /					Critical	Dil	ution Ra	atio
Outfal I	Latitude	Longitude	Receiving Water Name	Water Class/Standard	Priority Waterbody Listing (PWL) No.	Sub Basin	Hardnes s (mg/l)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Effluent Flow (MGD)	A(A)	A(C)	HEW
001	41° 27' 24.5" N	73° 34' 5.5" W	Trib. of East Branch Croton River	C/C	H-31-P 44-24-18 and trib PWL: 1302-0057	13/02	-	Inter	<0.1 cfs mittent St	ream	0.0295		1:1	

Outfall 001

		Descriptio	n of Waste	water: Tre	ated Sanitary	y Sewage									
Outfall #	001	Type of Troaeration	eatment: tr	ap, aerated	l flow equaliz	ation, fine	screens, men	nbrane bio	reactor pro	cess, sand	filtration,	microfiltratio	on, ultraviol	let disi	nfection and post-
			Existi	ng Discharg	ge Data	Т	BELs		Wate	er Quality I	Data & WC	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
General Notes	s: The wa	stewater tre	atment sys	tem was up	ograded in the	e early 20	00's and has เ	never beer	n in operatio	on since th	e upgrade).			
Flow Rate	MGD	Monthly Avg	-	- Actual Average	-	0.0295	Design Flow	No alter	ations that b	will impair est usage:		s for their	<u>703.2</u>	-	Design Flow
	Consiste	ent with 40C	FR Part 13	3.102 and ⁻	TOGS 1.3.3,	a monthly	average flow	limitation	equal to the	average (daily desig	n capacity o	of the treatr	ment p	plant is specified.
рН	SU	Minimum	6.0	- Actual Min	-	6.0	40 CFR			6.5 – 8.5	Range	6.5 - 8.5	703.3	_	ISEL
		Maximum	9.0	- Actual Max	-	9.0	133.102	1	-	0.5 – 6.5	Range	0.5 - 6.5	<u>703.3</u>	_	ISEL
	As such		uality stand	lards will be											ailable for dilution. condary treatment

⁴ Existing Effluent Quality: Unless otherwise stated, Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

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		Descriptio	n of Waste	water: Tre	ated Sanitar	y Sewage									
Outfall #	001	Type of Traeration	eatment: tr	ap, aerated	l flow equaliz	ation, fine	screens, mer	nbrane bio	oreactor prod	cess, sand	filtration,	microfiltration	on, ultraviol	et disi	nfection and post-
			Existir	ng Discharg	je Data	Т	BELs		Wate	er Quality [Data & WC	BELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Temperature	°F	Daily Max	Monitor	- Actual Max	-	Monitor	750-1.13 Monitor	-	The water a stream st 90F at any or lowered temperaturaddition.	hall not be point and. to more th	raised to shall no an 5F ove	more than t be raised er the	<u>704.2</u>	-	Monitor
	Consiste permit.	ent with 6 N	/CRR 750-	1.13(a), mo	nitoring is re	quired an	d may be used	d to inform	future perm	nitting deci	sions. This	s requireme	nt is contin	ued fr	om the previous
Dissolved Oxygen	mg/L	Daily Min	7.0	-	-	7.0	TOGS 1.3.1	-	-	4.0 r	ng/L	7.0	703.3	-	ISEL
(DO)							SEL) are applications								ailable for dilution. ste.
5-day Biochemical Oxygen Demand	mg/L	Daily Max	5.0	-	-	5.0	TOGS 1.3.1		D	issolved C)xygen=4.	0	5.0		
	lbs/d	Daily Max	-	-	-	-	-	-		Surrogate 703			1.23] -	ISEL
	% Rem	Minimum	85	-	-	85	40 CFR Part 133.102				<u> </u>		-		
(BOD₅)	1.3.1, in These li	termittent st mits represe	ream efflue nt the high	nt limits (IS est degree	EL) are appl of treatment	ied to efflu that can r	nical error. CE uent discharge	s to strear	ms where litt	tle or no st	reamflow	is available	for dilution		istent with TOGS ete. These limits
	mg/L	Daily Max	10	-	-	10	TOGS 1.3.1		Name for a				10.0		
	lbs/d	Daily Max	-	-	-	-	-	_	None from other waste	es that will	cause de	position or	2.46]_	ISEL
Total Suspended	% Rem	Minimum	85	-	-	85	40 CFR Part 133.102		impair the	<u>700</u>	<u>3.2</u>		-		
Solids (TSS)	These li	mits represe	nt the high	est degree	of treatment	that can r		achieved l							ailable for dilution. ste. These limits

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		Description	on of Waste	water: Tre	ated Sanitar	/ Sewage									
Outfall #	001	Type of Tr aeration	eatment: tr	ap, aerated	l flow equaliz	ation, fine	screens, mer	nbrane bio	preactor pro	cess, sand	l filtration,	microfiltratio	on, ultraviol	et disi	nfection and post-
			Existir	ng Dischar	ge Data	Т	BELs		Wate	er Quality l	Data & WO	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
Settleable	mL/L	Daily Max	0.1	-	-	0.1	TOGS 1.3.1	-	other wast	e waters fo	l cause de or their bes	position or t usages.	<u>703.2</u>	-	ISEL
Solids	These li	mits represe	ent the high	est degree	of treatment	that can r		achieved l							ailable for dilution. te. These limits
Nitrogen, Ammonia (as N)	mg/L	Daily Max	1.5/2.2 (as NH ₃) 1.2/1.8 (as N)	-	-	-	-	-	-	1.2/1.8	A(C)	0.41/0.59	<u>703.5</u>	-	ISEL
SUMMER	lb/d	Daily Max	-	-	-	-	-	-	-	-	-	0.10/0.15			
6/1 – 10/31 WINTER 11/1 – 5/31	As such using Ba Reportin	, the water o asin 80 th per ng for Ammo	quality stand centile pH v onia has be	lards will b alue of 8.3 en change	e applied as S.U. and ter d from (as N	end-of-p̀ip nperature H₃) to (as	e limitations v s of 25°C and	vith no mix 10°C for s	king or diluti summer and	on. The ar d winter pe	nmonia sta riods.	andards wer	e develope	ed fror	ailable for dilution. n TOGS 1.1.1 ts. Values can be
Total Phosphorus	mg/L	Monthly Avg	1.0	-	-	-	-	growths o	amounts that of algae, we r the waters 703.2	eds and s	imes that	1.0	TOGS 1.3.6	-	WQBEL
	An efflue	ent limit of 1	.0 included	consist wit	h TOGS 1.3.	due pres	sence of class	ified pond	s/ See Read	ch descrip	ion.				
	#/100 ml	30d Geo Mean	200	-	-	200	TOGS 1.3.3	-		nthly geom			703.4	_	TBEL
		7d Geo Mean	400	-	-	400	TOGS 1.3.3	-		excee		,			
Coliform, Fecal					fection is reque to been specifi		-round during	the operat	tion of the c	amp beca	use it is ne	cessary to p	protect publ	ic hea	lth. Fecal coliform

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		Descriptio	n of Waste	water: Tre	ated Sanitary	/ Sewage									
Outfall #	001	Type of Tr aeration	eatment: tr	ap, aerated	l flow equaliz	ation, fine	screens, men	nbrane bio	reactor pro	cess, sand	l filtration,	microfiltration	on, ultraviol	let disi	nfection and post-
			Existin	ng Discharg	ge Data	Т	BELs		Wate	er Quality [Data & WC	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality ⁴	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis	ML	Basis for Permit Requirement
	mg/L	Daily Max	0.02	-	-	2.0	TOGS 1.3.3	-	-	0.005	A(C)	0.005	703.5	0.03	ISEL
Total Residual Chlorine (TRC)	applied limitation The ML	to effluent ons with no m	discharges f nixing or dilu s recently ir	to streams ition. icreased di	where little our uring EPA's N	or no stre	amflow is ava	ilable for	dilution. As	s such, the	water qu	ality standa	ards will be	applie	t limits (ISEL) are ed as end-of-pipe 0.02 to 0.03 mg/L
Ciandia	% Rem	Minimum	99.9	-	-	99.9	NYC Rules & Regulations	-	-	-	-	-	-	-	TBEL
Giardia Lamblia Cysts	facility m	nust be capa	able of achie ified and op	eving a 99.9 erating the	9% removal a microfiltratio	and/or ina		ırdia lambl	ia cysts. Th	ne capabilit	y shall be	demonstrat	ed by mair	ntaining	ts Sources, the g the turbidity and to forth in the
Enteric		Minimum	99.99	-	-	99.99	NYC Rules & Regulations	-	-	-	-	-	-	-	TBEL
Viruses	facility m	nust be capa	able of achie ified and op	eving a 99.9 erating the	99% removal microfiltratio	and/or in	n Contamination activation of e the disinfection	nteric virus	ses. The ca	pability sh	all be dem	onstrated b	y maintaini	ng the	
	NTU	Monthly Avg	0.5	-	-	0.5	NYC Rules &	-	-	-	-	-	-	-	TBEL
Turbidity		Daily Max	5.0	-	-	5.0	Regulations	-	-	-	-	-	-	-	
		idity levels s be exceede		ntained at	less than or e	equal to 0	5 NTU in 95%	of the me	easurement	s taken ea	ch month	and an insta	antaneous	maxim	num of 5.0 NTU
Total Residual Chlorine (within the	mg/L	Minimum	0.2	Х	detects /non- detects	0.2	NYC Rules & Regulations	-	-	-	-	-	-	-	TBEL
chlorine contact tank)	When ch	nlorine is us	ed for disinf	ection, a m	inimum resid	lual of 0.2	mg/l shall be	maintaine	d in the chlo	orine conta	ıct tank pri	or to dichlo	rination.		

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

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to determine the existing capabilities of the wastewater treatment plants and to assure that 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, 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 law⁵ and USEPA interpretation⁶ 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. A WQBEL is designed

⁵ American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)

⁶ U.S. EPA, Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; 65 Fed. Reg. 31682, 31704 (May 18, 2000); Proposed Water Quality Guidance for the Great Lakes System, 58 Fed. Reg. 20802, 20837 & 20981 (April 16, 1993)

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to ensure that the water quality standards of receiving waters are met. In general, the CWA requires that the effluent limitations for a particular pollutant are the more stringent of either the TBEL or WQBEL.

Technology-based Effluent Limitations (TBELs)

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

Water Quality-Based Effluent Limitations (WQBELs)

In addition to the TBELs, permits must include additional or more stringent effluent limitations and conditions, including those necessary to protect water quality. CWA sections 101 and 301(b)(1)(C), 40 CFR 122.44(d)(1), and 6 NYCRR Parts 750-1.11 require that permits include limitations for all pollutants or parameters which are or may be discharged at a level which may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. Additionally, 6 NYCRR Part 701.1 prohibits the discharge of pollutants that will cause impairment of the best usages of the receiving water as specified by the water classifications at the location of discharge and at other locations that may be affected by such discharge. Water quality standards can be found under 6 NYCRR Parts 700-704. The limitations must be stringent enough to ensure that water quality standards are met at the point of discharge and in downstream waters and must be consistent with any applicable WLA which may be in effect through a TMDL for the receiving water. These and other requirements are summarized in TOGS 1.1.1, 1.3.1, 1.3.2, 1.3.5 and 1.3.6. The DEC considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

Mixing Zone Analyses

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

"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

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

Reasonable Potential Analysis (RPA)

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

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

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

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

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

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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 1.2.1. For municipal facilities, sampling frequency is based on guidance provided in TOGS 1.3.3.

Other Conditions

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,

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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.

Best Management Practices (BMP) for Industrial Facilities

BMP plans are authorized for inclusion in NPDES permits pursuant to Sections 304(e) and 402 (a)(1) of the Clean Water Act, and 6 NYCRR 750-1.14(f). The regulations pertaining to BMPs are promulgated under 40 CFR Part 125, Subpart K. These regulations specifically address surface water discharges.

As part of the mini pretreatment program, a WWTP must identify industrial users; determine whether legal authority controls (e.g. sewer use laws) are adequate; require, issue, and enforce industrial user permits; and, implement the program.