

MODIFICATION TO THE
AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. "1251 *et seq.*;
the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, "26-53),

Massachusetts Water Resources Authority

is authorized to discharge from the facility located at:

**Clinton Wastewater Treatment Plant
677 High Street
Clinton, MA 01510**

to receiving water named:

South Branch Nashua River (Class B Warm Water Fishery)

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

The Town of Clinton and the Lancaster Sewer District are co-permittees for Part D., Operation and Maintenance, which include conditions regarding the operation and maintenance of the collection systems owned and operated by the Towns; and Part E., Unauthorized Discharges.

Operation and maintenance of the sewer system shall be in compliance with the General Requirements of Part II and the terms and conditions of Part D. and Part E. of this permit. The permittee and each co-permittee are severally liable under Part D. and Part E. for their own activities and required reporting with respect to the portions of the collection system that they own or operate. They are not liable for violations of Part D and Part E committed by others relative to the portions of the collection system owned and operated by others. Nor are they responsible for any reporting that is required of other permittees under Part D and Part E.

The responsible Town Departments are:

**Town of Clinton
Department of Public Works
242 Church Street
Clinton, MA 01510**

**Lancaster Sewer District
P.O. Box 773
226 Main Street
South Lancaster, MA 01561**

This permit became effective on March 1, 2017. This permit and the authorization to discharge expire on February 28, 2022.

This permit supersedes the permit issued on September 27, 2000.

This permit consists of Part I including effluent limitations and monitoring requirements, Part II including General Conditions and Definitions, Attachment A. USEPA Region 1 Freshwater Acute Toxicity Test Procedure and Protocol, February 2011; Attachment B. USEPA Region 1 Freshwater Chronic Toxicity Test Procedure and Protocol, March 2013; Attachment C. Reassessment of Technically Based Industrial Discharge Limits; and Attachment D. Industrial Pretreatment Program Annual Report.

Permit modification signed this 23rd day of August, 2017

/S/SIGNATURE ON FILE

/S/SIGNATURE ON FILE

Arthur V. Johnson, III, Acting Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA

Lealdon Langley, Director
Massachusetts Wetlands and Wastewater Programs
Department of Environmental Protection
Commonwealth of Massachusetts, Boston, MA

PART I A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge treated effluent to the South Branch of the Nashua River from outfall serial number 001. Such discharge shall be limited and monitored by the permittee as specified below.

<u>EFFLUENT CHARACTERISTIC</u>	<u>EFFLUENT LIMITS</u>						<u>MONITORING REQUIREMENTS</u>		
	Mass Limits			Concentration Limits					
PARAMETER	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	MEASUREMENT FREQUENCY	SAMPLE TYPE ³	
FLOW ¹	***	***	***	Report MGD	***	Report MGD	CONTINUOUS	RECORDER	
FLOW – Rolling Average ²	***	***	***	3.01 MGD	***	***	CONTINUOUS	RECORDER	
BOD ₅ ⁴	500 lbs/Day	500 lbs/Day	Report	20 mg/L	20 mg/L	Report mg/L	3/WEEK	24-HOUR COMPOSITE ⁵	
TSS ⁴	500 lbs/Day	500 lbs/Day	Report	20 mg/L	20 mg/L	Report mg/L	3/WEEK	24-HOUR COMPOSITE ⁵	
pH RANGE ⁶	6.5 – 8.3 SU SEE PERMIT PAGE 6 OF 16, PARAGRAPH I.A.3.							1/DAY	GRAB
DISSOLVED OXYGEN	***	***	***	6.0 mg/L minimum			2/DAY	GRAB	
E. COLI ⁷	***	***	***	126 cfu/100 mL	***	409 cfu/100 mL	1/DAY	GRAB	
TOTAL RESIDUAL CHLORINE ^{7, 8, 9}	***	***	***	17.6 µg/L	***	30.4 µg/L	2/DAY	GRAB	
TOTAL PHOSPHORUS ^{10, 11, 12} (April 1- October 31) (November 1 – March 31)	3.8 lbs/Day 25.1 lbs/Day	*** ***	*** ***	150 µg/L 1,000 µg/L	*** ***	Report µg/L Report µg/L	3/WEEK 1/WEEK	24-HOUR COMPOSITE ⁵	

<u>EFFLUENT CHARACTERISTIC</u>	<u>EFFLUENT LIMITS</u>		<u>MONITORING REQUIREMENT</u>	
	<u>AVERAGE MONTHLY</u>	<u>MAXIMUM DAILY</u>	<u>MEASUREMENT FREQUENCY</u>	<u>SAMPLE TYPE³</u>
<u>TOTAL AMMONIA, as N</u> (April 1 – April 30) (May 1 – May 31) (June 1 – October 31) (November 1 – March 31)	10 mg/L 5 mg/L 2 mg/L 10 mg/L	Report mg/L Report mg/L 3.0 mg/L 35.2 mg/L	1/WEEK 1/WEEK 3/WEEK 1/WEEK	24-HOUR COMPOSITE ⁵
TOTAL RECOVERABLE COPPER	11.6 µg/L	14.0 µg/L	1/MONTH	24-HOUR COMPOSITE ⁵
<u>WHOLE EFFLUENT TOXICITY</u> ^{13, 14, 15, 16, 17, 18} LC50 CHRONIC NOEC Hardness pH Ammonia Total Cadmium Total Chromium Total Lead Total Copper Total Zinc Total Nickel Total Aluminum	*** *** Report mg/L Report S.U. Report mg/L Report µg/L Report µg/L Report µg/L Report µg/L Report µg/L Report µg/L Report µg/L Report µg/L	>100% 62.5% *** *** *** *** *** *** *** *** *** *** ***	4/YEAR	24-HOUR COMPOSITE ⁵

Footnotes:

1. The monthly average and maximum daily flows for each month shall be reported. An attachment reporting total flow and precipitation for each date shall be included with the DMRs.
2. This is an annual average limit, which shall be reported as a rolling average. The value will be calculated as the arithmetic mean of the monthly average flow for the reporting month and the monthly average flows of the previous eleven months.
3. Effluent samples shall be taken after appropriate treatment and prior to discharge to Outfall 001. All sampling shall be representative of the effluent that is discharged through Outfall 001 to the South Branch of the Nashua River. A routine sampling program shall be developed in which samples are taken at the same location, same time and same day(s) of every month. Any deviations from the routine sampling program shall be documented in correspondence appended to the applicable discharge monitoring report that is submitted to EPA. In addition, all samples shall be analyzed using the analytical methods found in 40 CFR §136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR §136.
4. Sampling required for influent and effluent.
5. A 24-hour composite sample will consist of at least twenty-four (24) grab samples, flow proportional, taken for a consecutive 24-hour period (e.g. 0700 Monday - 0700 Tuesday).
6. Required for State Certification.
7. *E. coli* and total residual chlorine limits and monitoring requirements are in effect year round. The average monthly limit for *E. coli* is expressed as the geometric mean. The samples for *E. coli* shall be taken at the same time as a sample for chlorine.
8. Chlorination and dechlorination systems shall include an alarm system for indicating system interruptions or malfunctions. Any interruption or malfunction of the chlorine or dechlorination dosing system that may have resulted in levels of chlorine that were inadequate for achieving effective disinfection or interruptions or malfunctions of the dechlorination system that may have resulted in excessive levels of chlorine in the final effluent shall be reported with the monthly DMRs. The report shall include the date and time of the interruption or malfunction, the nature of the problem, the estimated amount of time that the reduced levels of chlorine or dechlorination chemicals occurred, and measures taken to prevent future occurrences.
9. For every day that more than two chlorine grab samples are analyzed on the final effluent, the monthly DMR shall include an attachment documenting the individual final effluent grab sample results for that day, the date and time of each sample, the analytical method, and a summary of any operational modifications implemented in response to the sample results. This requirement applies to all samples taken on the final effluent, including screening level and process control samples. All final effluent test results utilizing an EPA approved analytical method shall be used in the calculation and reporting of the monthly average and maximum daily discharge values submitted on the DMR.
10. From the effective date of the permit until April 1, 2019, the permittee shall achieve the following total phosphorus limitations from April 1 – October 31 while working towards achieving compliance with the new 150 µg/L seasonal total phosphorus limitation (See Part I.B. of this

- permit, Schedule of Compliance): 1,000 µg/L average monthly, report maximum daily in µg/L and report average monthly loadings in pounds per day.
11. The 150 µg/L total phosphorus limit is a monthly average limit and applies to the period of April 1 – October 31 upon completion of the Compliance Schedule referenced above. In addition, the maximum daily concentration value must be reported for each month.
 12. The 1,000 µg/l limit for November 1 -- March 31 is a monthly average limit and goes into effect November 1, 2019. From November 1 – March 31 of each year until November 1, 2019, the permittee shall report the monthly average and maximum daily values on each month's discharge monitoring report. These permit limits may be modified, subject to public notice and comment, based upon revisions to the water quality standards, compliance with the requirements of a Total Maximum Daily Load (TMDL), or upon a demonstration that an alternative permit limit will achieve water quality standards and the goals of the Clean Water Act.
 13. The permittee shall conduct acute and chronic toxicity tests four (4) times per year using a single species, the daphnid, *Ceriodaphnia dubia*. Toxicity test samples shall be collected during the months of March, June, September and December. The test results shall be submitted by the last day of the month following the completion of the test. The results are due by April 30, July 31, October 31 and January 31, respectively. The tests must be performed in accordance with test procedures and protocols specified in Attachment A of this permit.
 14. Each toxicity test report shall include a map or GPS coordinates of discharge location and receiving water sample location.
 15. The LC50 is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore, a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a 50% mortality rate.
 16. C-NOEC (chronic-no observed effect concentration) is defined as the highest concentration of toxicant or effluent to which organisms are exposed in a life cycle or partial life cycle test which causes no adverse effect on growth, survival, or reproduction at a specific time of observation as determined from hypothesis testing where the test results exhibit a linear-dose relationship. However, where the test results do not exhibit a linear dose-response relationship, the permittee must report the lowest concentration where there is no observable effect. The "62.5 or greater" limit is defined as a sample which is composed of 62.5% (or greater) effluent, the remainder being dilution water. This is a maximum daily limit.
 17. If toxicity test(s) using receiving water as diluent show the receiving water to be toxic or unreliable, the permittee shall either follow procedures outlined in Attachments A and B (Chronic and Acute Toxicity Test Procedures and Protocols) Section IV., DILUTION WATER in order to obtain an individual approval for use of an alternate dilution water, or the permittee shall follow the Self-Implementing Alternative Dilution Water Guidance, which may be used to obtain automatic approval of an alternate dilution water, including the appropriate species for use with that water.
 18. For each whole effluent toxicity test the permittee shall report on the appropriate discharge monitoring report, (DMR), the concentrations of the hardness, pH, ammonia nitrogen as nitrogen, total recoverable aluminum, cadmium, chromium, copper, lead, nickel, and zinc found in the 100 percent effluent sample. All these aforementioned chemical parameters shall be determined to at least the minimum quantification level shown in Attachment A. Also the permittee should note that all

chemical parameter results must still be reported in the appropriate toxicity report.

Part I. A. (continued)

2. The discharge shall not cause a violation of the water quality standards of the receiving waters.
3. The pH of the effluent shall neither be less than 6.5 nor greater than 8.3 and not more than 0.5 units outside of the natural background range. There shall be no change from natural background conditions that would impair any use assigned to this water as a Class B Water.
4. The discharge shall not cause objectionable discoloration of the receiving waters.
5. The effluent shall not contain a visible oil sheen, foam, or floating solids at any time.
6. The permittee's treatment facility shall maintain a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand. The percent removal shall be based on monthly average values.
7. The results of sampling for any parameter above its required frequency must also be reported.
8. The use of aluminum in the treatment process is prohibited.
9. All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Director of the following:
 - a. Any new introduction of pollutants into that POTW from an indirect discharger in a primary industry category discharging process water; and
 - 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 purposes of this paragraph, adequate notice shall include information on:
 - (1) The quantity and quality of effluent introduced into the POTW; and
 - (2) Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
10. Prohibitions Concerning Interference and Pass Through:
 - a. Pollutants introduced into POTWs by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.
 - b. If, within 30 days after notice of an interference or pass through violation has been sent by EPA to the POTW and to persons or groups who have requested such notice, the POTW fails to commence appropriate enforcement action to correct the violation, EPA may take appropriate enforcement action.

11. Toxics Control

- a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.
- b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

12. Numerical Effluent Limitations for Toxicants

EPA or MassDEP may use the results of the toxicity tests and chemical analyses conducted pursuant to this permit, as well as national water quality criteria developed pursuant to Section 304(a)(1) of the Clean Water Act (CWA), state water quality criteria, and any other appropriate information or data, to develop numerical effluent limitations for any pollutants, including but not limited to those pollutants listed in Appendix D of 40 CFR Part 122.

B. COMPLIANCE SCHEDULE

1. 150 µg/l Total Phosphorus Limitation (April 1st - October 31st)

This limit shall be achieved in accordance with the following schedule:

- a. Complete construction of necessary upgrades and submit a status report to EPA no later than October 31, 2017.
- b. From April 1, 2018 through October 31, 2018, operate the facility to optimize phosphorus removal using ferric salts.
- c. Submit a status report to EPA regarding phosphorus removal optimization no later than October 31, 2018.
- d. The 150 µg/L (0.15 mg/L) total phosphorus limitation shall become effective April 1, 2019.

2. 1,000 µg/L Total Phosphorus Limitation (November 1 - March 31)

- a. From the effective date of the permit through March 31, 2017, report the average monthly and maximum daily total phosphorus concentrations in the discharge.
- b. From November 1, 2017 through March 31, 2018, operate the facility to optimize phosphorus removal relative to the 1.0 mg/L limit. Report the average monthly and maximum daily total phosphorus concentrations in the discharge.
- c. The 1,000 µg/L (1 mg/L) total phosphorus limit for the winter period (November 1 - March 31) shall become effective November 1, 2019.

C. INDUSTRIAL PRETREATMENT PROGRAM

1. Pollutants introduced into POTWs by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.

2. The permittee shall develop and enforce specific effluent limits (local limits) for Industrial User(s), and all other users, as appropriate, which together with appropriate changes in the POTW Treatment Plant's Facilities or operation, are necessary to ensure continued compliance with the POTW's NPDES permit or sludge use or disposal practices. Specific local limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond.
3. Within 180 days of the effective date of this permit, the permittee shall prepare and submit a written technical evaluation to the EPA analyzing the need to revise local limits. As part of this evaluation, the permittee shall assess how the POTW performs with respect to influent and effluent of pollutants, water quality concerns, sludge quality, sludge processing concerns/inhibition, biomonitoring results, activated sludge inhibition, worker health and safety and collection system concerns.
4. In preparing this evaluation, the permittee shall complete and submit the attached form (Attachment C) with the technical evaluation to assist in determining whether existing local limits need to be revised. Justifications and conclusions should be based on actual plant data if available and should be included in the report. Should the evaluation reveal the need to revise local limits, the permittee shall complete the revisions within 120 days of notification by EPA and submit the revisions to EPA for approval. The Permittee shall carry out the local limits revisions in accordance with EPA's Local Limit Development Guidance (July 2004).
5. The permittee shall implement the Industrial Pretreatment Program in accordance with the legal authorities, policies, procedures, and financial provisions described in the permittee's approved Pretreatment Program, and the General Pretreatment Regulations, 40 CFR 403. At a minimum, the permittee must perform the following duties to properly implement the Industrial Pretreatment Program (IPP):
 - a. Carry out inspection, surveillance, and monitoring procedures, which will determine independent of information supplied by the industrial user, whether the industrial user is in compliance with the Pretreatment Standards. At a minimum, all significant industrial users shall be sampled and inspected at the frequency established in the approved IPP but in no case less than once per year and maintain adequate records.
 - b. Issue or renew all necessary industrial user control mechanisms within 90 days of their expiration date or within 180 days after the industry has been determined to be a significant industrial user.
 - c. Obtain appropriate remedies for noncompliance by any industrial user with any pretreatment standard and/or requirement.
 - d. Maintain an adequate revenue structure for continued implementation of the Pretreatment Program.
6. The permittee shall provide the EPA (and State) with an annual report describing the permittee's pretreatment program activities for the previous pretreatment program reporting year in accordance with 403.12(i). The annual report shall be consistent with the format described in Attachment D of this permit and shall be submitted no later than October 31 of each year.
7. The permittee must obtain approval from EPA prior to making any significant changes to the industrial pretreatment program in accordance with 40 CFR 403.18.

8. The permittee must assure that applicable National Categorical Pretreatment Standards are met by all categorical industrial users of the POTW. These standards are published in the Federal Regulations at 40 CFR 405 et. seq.
9. The permittee must modify its pretreatment program, if necessary, to conform to all changes in the Federal Regulations that pertain to the implementation and enforcement of the industrial pretreatment program. The permittee must provide EPA, in writing, within 180 days of this permit's effective date proposed changes, if applicable, to the permittee's pretreatment program deemed necessary to assure conformity with current Federal Regulations. At a minimum, the permittee must address in its written submission the following areas: (1) enforcement response plan; (2) revised sewer use ordinances; and (3) slug control evaluations. The permittee will implement these proposed changes pending EPA Region 1's approval under 40 CFR 403.18. This submission is separate and distinct from any local limits analysis submission described in Part I.C.3.

D. OPERATION AND MAINTENANCE OF THE SEWER SYSTEM

Operation and maintenance of the collection system owned and operated respectively by the Town of Clinton ("Clinton") and the Lancaster Sewer District ("Lancaster") shall be in compliance with the General Requirements of Part II and the terms and conditions of Part D and Part E of this permit. Each of Clinton and Lancaster respectively shall only be responsible under Part II, Part D and Part E for only its own infrastructure, activities and required reporting with respect to the portions of the collection system that each owns or operates.

Operation and maintenance of that portion of the collection system and the entirety of the treatment system owned and operated by MWRA shall be in compliance with the General Requirements of Part II and the terms and conditions of Part D and Part E of this permit. MWRA shall only be responsible under Part II, Part D and Part E for its own infrastructure, activities and required reporting with respect to the portion of the collection and treatment system that it owns or operates. In no event shall Permittee Massachusetts Water Resources Authority be responsible for the acts or failure to act of Permittee Town of Clinton or Permittee Lancaster Sewer District, or for the failure to properly operate or maintain any collection system or portion of a collection system that it does not own or operate. No Permittee shall be responsible for violations of Part II, Part D and Part E committed by another Permittee relative to the portions of the collection system owned and operated by such other Permittee. In the event of any conflict between the above provisions and any other term or provision of this Permit, the above provisions shall control. The permittee and each co-permittee are required to complete the following activities for the respective portions of the collection system which they operate:

1. **Maintenance Staff**

The permittee and co-permittees shall each provide an adequate staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit. Provisions to meet this requirement shall be described in the Collection System O & M Plan required pursuant to Section D.5. below.

2. **Preventive Maintenance Program**

The permittee and co-permittees shall each maintain an ongoing preventive maintenance program to prevent overflows and bypasses caused by malfunctions or failures of the sewer system infrastructure. The program shall include an inspection program designed to identify all potential and actual unauthorized discharges. Plans and programs to meet this requirement shall be

described in the Collection System O & M Plan required pursuant to Section D.5. below.

3. Infiltration/Inflow

The permittee and co-permittees shall control infiltration and inflow (I/I) into the sewer system as necessary to prevent high flow related unauthorized discharges from their collection systems and high flow related violations of the wastewater treatment plant's effluent limitations. Plans and programs to control I/I shall be described in the Collection System O & M Plan required pursuant to Section D.5. below.

4. Collection System Mapping

Within 30 months of the effective date of this permit, the permittee and co-permittees shall each prepare a map of the sewer collection system it owns (see page 1 of this permit for the effective date). The map shall be on a street map of the community, with sufficient detail and at a scale to allow easy interpretation. The collection system information shown on the map shall be based on current conditions and shall be kept up to date and available for review by federal, state, or local agencies. Such map(s) shall include, but not be limited to the following:

- a. All sanitary sewer lines and related manholes;
- b. All combined sewer lines, related manholes, and catch basins;
- c. All combined sewer regulators and any known or suspected connections between the sanitary sewer and storm drain systems (e.g. combination manholes);
- d. All outfalls, including the treatment plant outfall(s), CSOs, and any known or suspected SSOs, including stormwater outfalls that are connected to combination manholes;
- e. All pump stations and force mains;
- f. The wastewater treatment facility(ies);
- g. All surface waters (labeled);
- h. Other major appurtenances such as inverted siphons and air release valves;
- i. A numbering system which uniquely identifies manholes, catch basins, overflow points, regulators and outfalls;
- j. The scale and a north arrow; and
- k. The pipe diameter, date of installation, type of material, distance between manholes, and the direction of flow.

5. Collection System Operation and Maintenance Plan

The permittee and co-permittees shall each develop and implement a Collection System Operation and Maintenance Plan.

- a. Within six (6) months of the effective date of the permit, the permittee and co-permittees shall each submit to EPA and MassDEP
 - (1) A description of the collection system management goals, staffing, information management, and legal authorities;
 - (2) A description of the collection system and the overall condition of the collection system including a list of all pump stations and a description of recent studies and construction activities; and
 - (3) A schedule for the development and implementation of the full Collection System O & M Plan including the elements in paragraphs b.1. through b.8. below.

- b. The full Collection System O & M Plan shall be submitted and implemented to EPA and MassDEP within twenty-four (24) months from the effective date of this permit. The Plan shall include:
- (1) The required submittal from paragraph 5.a. above, updated to reflect current information;
 - (2) A preventive maintenance and monitoring program for the collection system;
 - (3) Description of sufficient staffing necessary to properly operate and maintain the sanitary sewer collection system and how the operation and maintenance program is staffed;
 - (4) Description of funding, the source(s) of funding and provisions for funding sufficient for implementing the plan;
 - (5) Identification of known and suspected overflows and back-ups, including manholes. A description of the cause of the identified overflows and back-ups, corrective actions taken, and a plan for addressing the overflows and back-ups consistent with the requirements of this permit;
 - (6) A description of the permittee's and co-permittees' programs for preventing I/I related effluent violations and all unauthorized discharges of wastewater, including overflows and by-passes and the ongoing program to identify and remove sources of I/I. The program shall include an inflow identification and control program that focuses on the disconnection and redirection of illegal sump pumps and roof down spouts; and
 - (7) An educational public outreach program for all aspects of I/I control, particularly private inflow.
 - (8) An Overflow Emergency Response Plan to protect public health from overflows and unanticipated bypasses or upsets that exceed any effluent limitation in the permit.

6. Annual Reporting Requirement

The permittee and co-permittees shall each submit a summary report of activities related to the implementation of its Collection System O & M Plan during the previous calendar year. The report shall be submitted to EPA and MassDEP annually by March 31. The summary report shall, at a minimum, include:

- a. A description of the staffing levels maintained during the year;
- b. A map and a description of inspection and maintenance activities conducted and corrective actions taken during the previous year;
- c. Expenditures for any collection system maintenance activities and corrective actions taken during the previous year;
- d. A map with areas identified for investigation/action in the coming year;
- e. If treatment plant flow has reached 80% of the design flow (2.4 MGD) or there have been capacity related overflows, submit a calculation of the maximum daily, weekly, and monthly infiltration and the maximum daily, weekly, and monthly inflow for the reporting year; and
- f. A summary of unauthorized discharges during the past year and their causes and a report of any corrective actions taken as a result of the unauthorized discharges reported pursuant to the Unauthorized Discharges section of this permit.

7. Alternate Power Source

In order to maintain compliance with the terms and conditions of this permit, the permittee and co-permittees shall provide an alternative power source(s) sufficient to operate the portion of the publicly owned treatment works¹ it owns and operates.

E. UNAUTHORIZED DISCHARGES

The permittee and co-permittees are authorized to discharge only in accordance with the terms and conditions of this permit and only from the outfall listed in Part I.A.1. of this permit. Discharges of wastewater from any other point sources, including sanitary sewer overflows (SSOs) are not authorized by this permit and shall be reported in accordance with Section D.1.e. (1) of the General Requirements of this permit (Twenty-four-hour reporting).

Notification of SSOs to MassDEP shall be made on its SSO Reporting Form (which includes MassDEP Regional Office telephone numbers). The reporting form and instructions for its completion may be found online at <http://www.mass.gov/eea/agencies/massdep/service/approvals/sanitary-sewer-overflow-bypass-backup-notification.html>.

F. SLUDGE

The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices and with the CWA Section 405 (d) technical standards.

The permittee shall comply with the more stringent of either the state or federal (40 CFR Part 503) requirements.

1. The requirements and technical standards of 40 CFR Part 503 apply to facilities which perform one or more of the following use or disposal practices.
 - a. Land application - the use of sewage sludge to condition or fertilize the soil
 - b. Surface disposal - the placement of sewage sludge in a sludge-only landfill
 - c. Sewage sludge incineration in a sludge-only incinerator
2. The 40 CFR Part 503 conditions do not apply to facilities which place sludge within a municipal solid waste landfill. These conditions also do not apply to facilities which do not dispose of sewage sludge during the life of the permit but rather treat the sludge (e.g. lagoons- reed beds), or are otherwise excluded under 40 CFR 503.6.
3. The permittee shall use and comply with the sludge compliance guidance document² to determine appropriate conditions. Appropriate conditions contain the following elements.
 - a. General requirements

¹ As defined at 40 CFR §122.2, which references the definition at 40 CFR §403.3

² <http://epa.gov/region1/npdes/permits/generic/sludgeguidance.pdf>

- b. Pollutant limitations
- c. Operational Standards (pathogen reduction requirements and vector attraction reduction requirements)
- d. Management practices
- e. Record keeping
- f. Monitoring
- g. Reporting

Depending upon the quality of material produced by a facility, all conditions may not apply to the facility.

4. The permittee shall monitor the pollutant concentrations, pathogen reduction and vector attraction reduction at the following frequency. This frequency is based upon the volume of sewage sludge generated at the facility in dry metric tons per year
- a. less than 290 1/year
 - b. 290 to less than 1500 1/quarter
 - c. 1500 to less than 15000 6/year
 - d. 15000 + 1/month

The permittee shall sample the sewage sludge using the procedures detailed in 40 CFR 503.8.

5. The permittee shall submit an annual report containing the information specified in the 40 CFR Part 503 requirements (§ 503.18 (land application), § 503.28 (surface disposal), or § 503.48 (incineration)) by **February 19** (*see also* “EPA Region 1 - NPDES Permit Sludge Compliance Guidance”). Reports shall be submitted electronically using EPA’s Electronic Reporting tool (*see* “Monitoring and Reporting” section below).
- a. Name and address of contractor responsible for sludge disposal.
 - b. Quantity of sludge in dry metric tons removed from the facility by the sludge contractor.

G. MONITORING AND REPORTING

The monitoring program in the permit specifies sampling and analysis, which will provide continuous information on compliance and the reliability and effectiveness of the installed pollution abatement equipment. The approved analytical procedures found in 40 CFR Part 136 are required unless other procedures are explicitly required in the permit. The Permittee is obligated to monitor and report sampling results to EPA and the MassDEP within the time specified within the permit.

Unless otherwise specified in this permit, the permittee shall submit reports, requests, and information and provide notices in the manner described in this section.

1. Submittal of DMRs Using NetDMR

The permittee shall continue to submit its monthly monitoring data in discharge monitoring reports (DMRs) to EPA and MassDEP no later than the 15th day of the month electronically using NetDMR. When the permittee submits DMRs using NetDMR, it is not required to submit hard copies of DMRs to EPA or MassDEP.

2. Submittal of Reports as NetDMR Attachments

Unless otherwise specified in this permit, the permittee shall electronically submit all reports to EPA as NetDMR attachments rather than as hard copies. Permittees shall continue to send hard copies of reports other than DMRs to MassDEP until further notice from MassDEP. (See Part I.G.6. for more information on state reporting.) Because the due dates for reports described in this permit may not coincide with the due date for submitting DMRs (which is no later than the 15th day of the month), a report submitted electronically as a NetDMR attachment shall be considered timely if it is electronically submitted to EPA using NetDMR with the next DMR due following the particular report due date specified in this permit.

3. Submittal of Pre-treatment Related Reports

All reports and information required of the permittee in the Industrial Users and Pretreatment Program section of this permit shall be submitted to the Office of Ecosystem Protection's Pretreatment Coordinator in Region 1 EPA's Office of Ecosystem Protection (OEP). These requests, reports and notices include:

- a. Annual Pretreatment Reports,
- b. Pretreatment Reports Reassessment of Technically Based Industrial Discharge Limits Form,
- c. Revisions to Industrial Discharge Limits,
- d. Report describing Pretreatment Program activities, and
- e. Proposed changes to a Pretreatment Program

This information shall be submitted to EPA/OEP as a hard copy at the following address:

**U.S. Environmental Protection Agency
Office of Ecosystem Protection
Regional Pretreatment Coordinator
5 Post Office Square - Suite 100 (OEP06-03)
Boston, MA 02109-3912**

4. Submittal of Biosolids/Sewage Sludge Reports

By February 19 of each year, the permittee must electronically report their annual Biosolids/Sewage Sludge Report for the previous calendar year using EPA's NPDES Electronic Reporting Tool found on the internet at <https://www.epa.gov/compliance/npdes-ereporting>.

5. Submittal of Requests and Reports to EPA/OEP

The following requests, reports, and information described in this permit shall be submitted to the EPA/OEP NPDES Applications Coordinator in the EPA Office Ecosystem Protection (OEP).

- a. Transfer of Permit notice
- b. Request for changes in sampling location
- c. Request for reduction in testing frequency
- d. Request for reduction in WET testing requirement
- e. Report on unacceptable dilution water / request for alternative dilution water for WET testing
- f. Notification of proposal to add or replace chemicals and bio-remedial agents including microbes

These reports, information, and requests shall be submitted to EPA/OEP electronically at R1NPDES.Notices.OEP@epa.gov or by hard copy mail to the following address:

**U.S. Environmental Protection Agency
Office of Ecosystem Protection
EPA/OEP NPDES Applications Coordinator
5 Post Office Square - Suite 100 (OEP06-03)
Boston, MA 02109-3912**

6. Submittal of Reports in Hard Copy Form

The following notifications and reports shall be submitted as hard copy with a cover letter describing the submission. These reports shall be signed and dated originals submitted to EPA.

- a. Written notifications required under Part II
- b. Notice of unauthorized discharges, including Sanitary Sewer Overflow (SSO) reporting
- c. Collection System Operation and Maintenance Plan (from co-permittee)
- d. Report on annual activities related to O&M Plan (from co-permittee)

This information shall be submitted to EPA/OES at the following address:

**U.S. Environmental Protection Agency
Office of Environmental Stewardship (OES)
Water Technical Unit
5 Post Office Square, Suite 100 (OES04-SMR)
Boston, MA 02109-3912**

7. State Reporting

Unless otherwise specified in this permit, duplicate signed copies of all reports, information, requests or notifications described in this permit, including the reports, information, requests or notifications described in Parts I.G.3, I.G.4, and I.G.5 also shall be submitted to the State at the following addresses:

**MassDEP – Central Region
Bureau of Resource Protection
8 New Bond Street
Worcester, Massachusetts 01606**

Copies of toxicity tests only shall be submitted to:

**Massachusetts Department of Environmental Protection
Watershed Planning Program
8 New Bond Street
Worcester, Massachusetts 01606**

8. Verbal Reports and Verbal Notifications

Any verbal reports or verbal notifications, if required in Parts I and/or II of this permit, shall be made to both EPA and to MassDEP. This includes verbal reports and notifications which require reporting within 24 hours. (As examples, see Part II.B.4.c. (2), Part II.B.5.c. (3), and Part II.D.1.e.) Verbal reports and verbal notifications shall be made to EPA's Office of Environmental Stewardship at:

617-918-1510

H. STATE PERMIT CONDITIONS

1. This authorization to discharge includes two separate and independent permit authorizations. The two permit authorizations are (i) a federal National Pollutant Discharge Elimination System permit issued by the U.S. Environmental Protection Agency (EPA) pursuant to the Federal Clean Water Act, 33 U.S.C. §§1251 et seq.; and (ii) an identical state surface water discharge permit issued by the Commissioner of the Massachusetts Department of Environmental Protection (MassDEP) pursuant to the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26-53, and 314 CMR 3.00. All of the requirements contained in this authorization, as well as the standard conditions contained in 314 CMR 3.19, are hereby incorporated by reference into this state surface water discharge permit.
2. This authorization also incorporates the state water quality certification issued by MassDEP under § 401(a) of the Federal Clean Water Act, 40 C.F.R. 124.53, M.G.L. c. 21, § 27 and 314 CMR 3.07. All of the requirements (if any) contained in MassDEP's water quality certification for the permit are hereby incorporated by reference into this state surface water discharge permit as special conditions pursuant to 314 CMR 3.11.
3. Each agency shall have the independent right to enforce the terms and conditions of this permit. Any modification, suspension or revocation of this permit shall be effective only with respect to the agency taking such action, and shall not affect the validity or status of this permit as issued by the other agency, unless and until each agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this permit is declared invalid, illegal or otherwise issued in violation of state law such permit shall remain in full force and effect under federal law as a NPDES Permit issued by the U.S. Environmental Protection Agency. In the event this permit is declared invalid, illegal or otherwise issued in violation of federal law, this permit shall remain in full force and effect under state law as a permit issued by the Commonwealth of Massachusetts.