## AGENCY OF NATURAL RESOURCES DEPARTMENT OF ENVIRONMENTAL CONSERVATION WATERSHED MANAGEMENT DIVISION ONE NATIONAL LIFE DRIVE, MAIN BUILDING, 2<sup>nd</sup> FLOOR MONTPELIER, VT 05620-3522

 Permit No.:
 3-1242

 PIN:
 NS97-0153

 NPDES No.:
 VT0100064

Name of Applicant:

Town of Brattleboro 211 Fairground Road Brattleboro, VT 05301

**Expiration Date:** 

September 30, 2021

#### DISCHARGE PERMIT

In compliance with the provisions of the Vermont Water Pollution Control Act as amended (10 V.S.A. chapter 47), the Vermont Water Pollution Control Permit Regulations as amended, and the federal Clean Water Act as amended (33 U.S.C. § 1251 *et seq.*), the Town of Brattleboro, Vermont (hereinafter referred to as the "Permittee") is authorized by the Secretary of Natural Resources (Secretary) to discharge from the Brattleboro Wastewater Treatment Facility to the Connecticut River in accordance with the following conditions.

This permit shall become effective on October 1, 2016.

Alyssa B. Schuren, Commissioner Department of Environmental Conservation

By: <u>Mary L. Borg</u>, Deputy Director

Mary L. Borg, Deputy Director Watershed Management Division

Date:

PERMIT No. 3-1242 Page 2 of 22

## I. SPECIAL CONDITIONS

# A. EFFLUENT LIMITS

1. Until September 30, 2021, the Permittee is authorized to discharge from outfall serial number S/N 001 of the Brattleboro Wastewater Treatment Facility to the Connecticut River, an effluent for which the characteristics shall not exceed the values listed below:

	DISCHARGE LIMITATIONS							
EFFLUENT	Annual	Monthly	Weekly	Maximum	Monthly	Weekly	Maximum	Instantaneous
CHARACTERISTICS	Average	Average	Average	Day	Average	Average	Day	Maximum
			Mass (lbs/	day)	Co	oncentration	( <b>mg/L</b> )	
Flow	3.0 MGD							
Biochemical Oxygen Demand (5-day, 20° C) (BOD <sub>5</sub> )		751	1126		30	45	50	
Total Suspended Solids (TSS)		751	1126		30	45	50	
Total Phosphorus (TP)							Monitor only	
Total Nitrogen (TN) <sup>1,2</sup>	See Section I.B						Monitor only	
Total Kjeldahl Nitrogen (TKN)							Monitor only	
Nitrate/Nitrite Nitrogen (NO <sub>x</sub> )							Monitor only	
Settleable Solids								1.0 mL/L
Escherichia coli								77/100 mL
Total Residual Chlorine						1.0 mg/L		2.0 mg/L
рН					Betwee	n 6.5-8.5 St	andard Units	

 $^{1}$  TN = TKN + NO<sub>x</sub>

<sup>2</sup> See Total Nitrogen Form WR-43-TN

- 2. The effluent shall not have concentrations or combinations of contaminants including oil, grease, scum, foam, or floating solids which would cause a violation of the Vermont Water Quality Standards.
- 3. The effluent shall not cause visible discoloration of the receiving waters.
- 4. The monthly average concentrations of Biochemical Oxygen Demand (BOD<sub>5</sub>) and Total Suspended Solids (TSS) in the effluent shall not exceed 15 percent of the monthly average concentrations of BOD<sub>5</sub> and TSS in the influent into the Permittee's wastewater treatment facility. For the purposes of determining whether the Permittee is in compliance with this condition, samples from the effluent and the influent shall be taken with appropriate allowance for detention times.
- **5.** If the effluent discharged for a period of 90 consecutive days exceeds 80 percent of the permitted flow limitation, the Permittee shall submit to the Agency projected loadings and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.
- 6. Any action on the part of the Agency in reviewing, commenting upon or approving plans and specifications for the construction of wastewater treatment facilities shall not relieve the Permittee from the responsibility to achieve effluent limitations set forth in this permit and shall not constitute a waiver of, or act of estoppel against any remedy available to the Agency, the State of Vermont or the federal government for failure to meet any requirement set forth in this permit or imposed by state or federal law.

## **B. TOTAL NITROGEN**

### 1. Optimization Plan

By **December 31, 2016** the Permittee shall develop and submit to the Agency of Natural Resources (Agency) for review and approval a Nitrogen Removal Optimization Evaluation Plan for the evaluation of alternative methods of operating the existing wastewater treatment facility to optimize the removal of nitrogen. The methods to be evaluated include: operational, process, equipment changes designed to enhance nitrification and denitrification (seasonal and year-round); incorporation of anoxic zones; septage receiving policies and procedures; and side stream management. The Permittee shall implement these recommended operational changes to maintain the existing mass discharge loading of total nitrogen (TN). The baseline annual average daily TN load discharge from this facility is estimated to be **approximately 455 lbs/day**.

This plan shall be developed by a qualified professional with experience in the operation and/or design of municipal wastewater treatment facilities in conjunction with the Chief Operator of the facility.

This plan shall be provided to the Agency for review and approval prior to implementation and shall be revised by the Permittee upon the Agency's request to address equipment or operational changes.

Implementation of the plan shall commence within 30 days of its approval by the Agency.

# 2. Plan Evaluation

After implementing the plan for one year, the Permittee shall evaluate the effectiveness of the plan. The evaluation shall be conducted by a qualified professional with experience in the operation and/or design of municipal wastewater treatment facilities in conjunction with the Chief Operator of the facility. The results of the evaluation shall be submitted to the Agency for review and approval within one year and six months following the implementation of the plan and shall be revised at the Agency's request. Actions to implement the approved nitrogen removal optimization practices, if any, shall be initiated within 90 days of the Agency's approval.

# 3. Reporting

**Annually,** the Permittee shall submit a report to the Agency as an attachment to the **December** Discharge Monitoring Report (DMR) form WR-43 that documents the annual average TN discharged (in pounds per day) from the facility, summarizes nitrogen removal optimization and efficiencies, and tracks trends relative to the previous year. The first annual report shall include data collected during 2017, and shall be attached to the December 2017 DMR form WR-43.

TN = Total Kjeldahl Nitrogen (TKN) + Nitrite/Nitrate (NO<sub>x</sub>).

TN pounds per day, annual average, shall be calculated as follows:

1. Calculate the pounds of TN discharged on each sample date:

## TN (lbs/day) = TN (mg/L) $\times$ volume discharged (million gallons) on day of sample $\times$ 8.34

2. Calculate the TN, pounds per day, annual average:

TN (lbs/day, annual average = (Sum of all TN [lbs/day])/(count of TN samples)

## 4. Wasteload Allocation

This permit does not establish a formal Wasteload Allocation for the facility nor does it convey any right to ownership of the facility's estimated baseline annual average TN load.

The Agency reserves the right to reopen and amend this permit, pursuant to Section II.B.4 of this permit, to include an alternate TN limitation and/or additional monitoring requirements based on the monitoring data, the results of nitrogen optimization activities, or a formal Wasteload Allocation promulgated under Vermont's Wasteload Allocation Rule for Total Nitrogen in the Connecticut River Watershed based on the Long Island Sound Total Nitrogen Total Maximum Daily Load.

### C. WASTE MANAGEMENT ZONE

In accordance with 10 V.S.A. § 1252, this permit hereby establishes a waste management zone that extends from the outfall of the Brattleboro Wastewater Treatment Facility in the Connecticut River west of the New Hampshire/Vermont border downstream one mile.

## **D. REAPPLICATION**

If the Permittee desires to continue to discharge after the expiration of this permit, the Permittee shall reapply on the application forms then in use at least 180 days before this permit expires.

Reapply for a Discharge Permit by: March 31, 2021

## **E. OPERATING FEES**

This discharge is subject to operating fees as required by 3 V.S.A. § 2822.

## F. TOXICITY TESTING

### 1. WHOLE EFFLUENT TOXICITY (WET) TESTING.

- a) During August or September 2017, the Permittee shall conduct a two-species (*Pimephales promelas* and *Ceriodaphnia dubia*) acute WET test on a composite effluent sample collected from S/N 001. The results shall be submitted to the Agency by December 31, 2017.
- **b**) During **January or February 2019**, the Permittee shall conduct a two-species (*Pimephales promelas* and *Ceriodaphnia dubia*) acute WET test on a composite effluent sample collected from S/N 001. The results shall be submitted to the Agency by **March 31, 2019**.

The WET tests shall be conducted according to the procedures and guidelines specified in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (October 2002 or, if a newer edition is available, the most recent edition) U.S. EPA document.

2. By December 31, 2018, September 30, 2019 and December 31, 2020, the Permittee shall conduct an effluent analysis of S/N 001 for the pollutants included in Appendix J, Table 2 of 40 CFR Part 122 (see Attachment A) and submit the results to the Agency.

Based upon the results of these tests or any other toxicity tests conducted, the Agency reserves the right to reopen and amend this permit, pursuant to Section II.B.4 of this permit, to require additional WET testing or a Toxicity Reduction Evaluation be conducted.

### G. MONITORING AND REPORTING

#### 1. Sampling and Analysis

The sampling, preservation, handling, and analytical methods used shall conform to the test procedures published in 40 C.F.R. Part 136.

The permittee shall use sufficiently sensitive test procedures (i.e., methods) approved under 40 C.F.R. Part 136 for the analysis of the pollutants or pollutant parameters specified in Condition I.A. above.

Samples shall be representative of the volume and quality of effluent discharged over the sampling and reporting period. All samples are to be taken during normal operating hours. The Permittee shall identify the effluent sampling location used for each discharge.

#### 2. Effluent Monitoring

The Permittee shall monitor and record the quality and quantity of discharge(s) at outfall serial number S/N 001 of the Brattleboro Wastewater Treatment Facility, according to the following schedule and other provisions: until September 30, 2021

PARAMETER	MINIMUM FREQUENCY OF ANALYSIS	SAMPLE TYPE	
Flow	Continuous	Daily Total, Max., Min.	
Biochemical Oxygen Demand (BOD5)	$1 \times \text{week}$	Composite <sup>1</sup>	
Total Suspended Solids (TSS)	$1 \times \text{week}$	Composite <sup>1</sup>	
Total Phosphorus (TP)	$1 \times \text{week}$	Composite <sup>1</sup>	
Total Nitrogen (TN)	$1 \times \text{week}$	[Calculated <sup>2,3</sup> ]	
Total Kjeldahl Nitrogen (TKN)	$1 \times \text{week}$	Composite <sup>1,3</sup>	
Nitrate/Nitrite Nitrogen (NO <sub>x</sub> )	$1 \times \text{week}$	Composite <sup>1,3</sup>	
Settleable Solids	$1 \times day$	Grab <sup>4</sup>	
Escherichia coli	$1 \times \text{week}$	Grab	
Total Residual Chlorine	$1 \times day$	Grab <sup>5</sup>	
pH	$1 \times day$	Grab	

Samples collected in compliance with the monitoring requirements specified above shall be collected at the end of the chlorine contact tank.

<sup>1</sup> Composite samples for BOD<sub>5</sub>, TSS, TP, TKN and NO<sub>x</sub> shall, at a minimum, be taken during the hours 6:00 AM to 6:00 PM, unless otherwise specified. Eight hours is the minimum period for the composite, 24 hours is the maximum for the composite.

<sup>2</sup> TN = TKN + NO<sub>x</sub>

<sup>3</sup> Submit results each month on Total Nitrogen Monitoring Report Form WR-43-TN.

- <sup>4</sup> Settleable Solids samples shall be collected between 10:00 AM and 2:00 PM or during the period of peak flow.
- <sup>5</sup> The weekly *E. coli* sample shall be collected at the same time and location as a daily Total Residual Chlorine
- sample. Samples shall be collected between the hours of 6:00 AM and 6:00 PM.

<sup>6</sup> Total Residual Chlorine shall be monitored and recorded both prior to and following dechlorination.

**3.** Annually, by December 31, the Permittee shall monitor S/N 001 and submit the results, including units of measurement, as an attachment to the DMR form WR-43 for the month in which the samples were taken for the following parameters:

Temperature Ammonia (as N) Dissolved Oxygen Oil & Grease Total Dissolved Solids

Grab samples shall be used for Temperature, Ammonia, Dissolved Oxygen, and Oil & Grease; a composite sample shall be used for Total Dissolved Solids. Samples shall be representative of the seasonal variation in the discharge.

## 4. Influent Monitoring

The Permittee shall monitor the quality of the influent according to the following schedule and provisions.

PARAMETER	MINIMUM FREQUENCY OF ANALYSIS	SAMPLE TYPE
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Biochemical Oxygen Demand (BOD <sub>5</sub> )	$1 \times \text{month}$	composite <sup>1</sup>
Total Suspended Solids (TSS)	$1 \times \text{month}$	composite <sup>1</sup>
Total Nitrogen (TN)	$1 \times quarter$	[calculated <sup>2,3</sup> ]
Total Kjeldahl Nitrogen (TKN)	$1 \times quarter$	composite <sup>1,3,4</sup>
Nitrate/Nitrite Nitrogen (NO <sub>x</sub> )	$1 \times quarter$	composite <sup>1,3,4</sup>

<sup>1</sup> Composite samples for BOD<sub>5</sub>, TSS, TKN and NO<sub>x</sub> shall, at a minimum, be taken during the hours 6:00 AM to 6:00 PM, unless otherwise specified. Eight hours is the minimum period for the composite, 24 hours is the maximum for a composite.

 $^{2}$  TN = TKN + NO<sub>x</sub>

<sup>3</sup> Submit results each month on Total Nitrogen Monitoring Report Form WR-43-TN.

<sup>4</sup> The influent TKN and NO<sub>x</sub> sample shall be collected on the same day as an effluent TKN and NO<sub>x</sub> sample.

### 5. Reporting

The Permittee is required to submit monthly reports of monitoring results on DMR form WR-43. Reports are due on the 15th day of each month, beginning with the month

following the effective date of this permit. When the Permittee submits DMRs using an electronic system designated by the Agency, it is not required to submit hard copies of DMRs.

If, in any reporting period, there has been no discharge, the Permittee must submit that information by the report due date.

Signed copies of these, and all other reports required herein, shall be submitted to the Secretary at the following address:

Agency of Natural Resources Department of Environmental Conservation Watershed Management Division One National Life Drive, Main Building, 2<sup>nd</sup> Floor Montpelier, VT 05620-3522

All reports shall be signed:

- a) In the case of corporations, by a principal executive officer of at least the level of vice president, or his/her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the permit form originates and the authorization is made in writing and submitted to the Agency;
- **b**) In the case of a partnership, by a general partner;
- c) In the case of a sole proprietorship, by the proprietor; or
- **d**) In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

In addition to the monitoring and reporting requirements given above, daily monitoring of certain parameters for operational control shall be submitted to the Agency on the DMR form WR-43. Operations reports shall be submitted monthly.

### 6. Recording of Results

The Permittee shall maintain records of all information resulting from any monitoring activities required, including:

- a) The exact place, date, and time of sampling or measurement;
- **b**) The individual(s) who performed the sampling or measurements;
- c) The dates and times the analyses were performed;
- **d**) The individual(s) who performed the analyses;

- e) The analytical techniques and methods used including sample collection handling and preservation techniques;
- f) The results of such analyses;
- **g**) The records of monitoring activities and results, including all instrumentation and calibration and maintenance records; and
- **h**) The original calculation and data bench sheets of the operator who performed analysis of the influent or effluent pursuant to requirements of Section I.A of this permit.

The results of monitoring requirements shall be reported (in the units specified) on the DMR form WR-43 or other forms approved by the Agency.

## 7. Additional Monitoring

If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the DMR form WR-43. Such increased frequency shall also be indicated.

## **H. DRY WEATHER FLOWS**

Dry weather flows of untreated municipal wastewater from any sanitary or combined sewers are not authorized by this permit and are specifically prohibited by state and federal laws and regulations. If for any reason there is a discharge to waters of the State of dry weather flows of untreated municipal wastewater from any sanitary or combined sewer, the operator of the facility or the operator's delegate shall comply with the notice requirements outline in Section II.A.2 of this permit.

### I. OPERATION, MANAGEMENT, AND EMERGENCY RESPONSE PLANS

By **December 31, 2016**, the Permittee shall update and submit to the Agency for review and approval an Operation, Management, and Emergency Response Plan for the treatment facility, sewage pumping stations, and sewer line stream crossings, and sewage collection system. This plan shall comply with the provisions of 10 V.S.A. § 1278. Once approved, the Permittee shall immediately implement the plan.

During the term of this permit, the Permittee shall revise these plans within 30 days of any equipment or operational changes or upon the Agency's request. This plan shall be available to the Agency for review upon request.

## J. EMERGENCY ACTION - ELECTRIC POWER FAILURE

The Permittee shall indicate in writing to the Agency **within 30 days after the effective date of this permit** that the discharge shall be handled in such a manner that, in the event the primary source of electric power to the wastewater treatment facility (including pump stations) fails, any discharge into the receiving waters will attempt to comply with the conditions of this permit, but in no case shall the wastes receive less than primary treatment (or in the case of ultraviolet light disinfection systems, not less than secondary treatment) plus disinfection and dechlorination.

The Permittee shall either provide an alternative source of power for the operation of its wastewater treatment facility, or demonstrate that the treatment facility has the capacity to store the wastewater volume that would be generated over the duration of the longest power failure that would have affected the facility in the last five years, excluding catastrophic events.

The alternative power supply, whether from a generating unit located at the wastewater treatment facility or purchased from an independent source of electricity, must be separate from the existing power source used to operate the wastewater treatment facility. If a separate unit located at the wastewater treatment facility is to be used, the Permittee shall certify in writing to the Agency when the unit is completed and prepared to generate power.

The determination of treatment system storage capacity shall be submitted to the Agency upon completion.

## **K. SEWER ORDINANCE**

The Permittee shall have in effect a sewer use ordinance acceptable to the Agency which, at a minimum, shall

- 1. Prohibit the introduction by any person into the Permittee's sewerage system or wastewater treatment facility of any pollutant which:
  - a) Is a toxic pollutant in toxic amounts as defined in standards issued from time to time under Section 307(a) of the Clean Water Act;
  - **b**) Creates a fire or explosion hazard in the Permittee's treatment works;
  - c) Causes corrosive structural damage to the Permittee's treatment works, including all wastes with a pH lower than 5.0;
  - **d**) Contains solid or viscous substances in amounts which would cause obstruction to the flow in sewers or other interference with proper operation of the Permittee's treatment works; or
  - e) In the case of a major contributing industry, as defined in this permit, contains an incompatible pollutant, as defined in this permit, in an amount or concentration in excess of that allowed under standards or guidelines issued from time to time pursuant to Sections 304, 306, and/or 307 of the Clean Water Act.
- 2. Require 45 days prior notification to the Permittee by any person or persons of a:
  - a) Proposed substantial change in volume or character of pollutants over that being discharged into the Permittee's treatment works at the time of issuance of this permit;

- **b)** Proposed new discharge into the Permittee's treatment works of pollutants from any source which would be a new source as defined in Section 306 of the Clean Water Act if such source were discharging pollutants; or
- c) Proposed new discharge into the Permittee's treatment works of pollutants from any source which would be subject to Section 301 of the Clean Water Act if it were discharging such pollutants.
- **3.** Require any industry discharging into the Permittee's treatment works to perform such monitoring of its discharge as the Permittee may reasonably require, including the installation, use, and maintenance of monitoring equipment and monitoring methods, keeping records of the results of such monitoring, and reporting the results of such monitoring to the Permittee. Such records shall be made available by the Permittee to the Agency upon request.
- **4.** Authorize the Permittee's authorized representatives to enter into, upon, or through the premises of any industry discharging into the Permittee's treatment works to have access to and copy any records, to inspect any monitoring equipment or method required under subsection 3 above, and to sample any discharge into the Permittee's treatment works.

The Permittee shall notify the Agency of any discharge specified in subsection 2 above within 30 days of the date on which the Permittee is notified of such discharge. This permit may be modified accordingly.

## **II. GENERAL CONDITIONS**

## A. MANAGEMENT REQUIREMENTS

## 1. Facility Modification / Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties pursuant to 10 V.S.A. chapters 47, 201, and/or 211. Any anticipated facility alterations or expansions or process modifications which will result in new, different, or increased discharges of any pollutants must be reported by submission of a new permit application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the Agency of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

In addition, the Permittee shall provide notice to the Agency of the following:

a) Any new introduction of pollutants into the treatment works from a source which would be a new source as defined in Section 306 of the Clean Water Act if such source were discharging pollutants;

- **b**) Except for such categories and classes of point sources or discharges specified by the Agency, any new introduction of pollutants into the treatment works from a source which would be subject to Section 301 of the Clean Water Act if such source were discharging pollutants; and
- c) Any substantial change in volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into such works at the time of issuance of the permit.

The notice shall include:

- i. The quality and quantity of the discharge to be introduced into the system, and
- **ii.** The anticipated impact of such change in the quality or quantity of the effluent to be discharged from the wastewater treatment facility.

### 2. Noncompliance Notification

- **a**) The Permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- **b**) In the event the Permittee is unable to comply with any of the conditions of this permit due, among other reasons, to:
  - i. Breakdown or maintenance of waste treatment equipment (biological and physicalchemical systems including all pipes, transfer pumps, compressors, collection ponds or tanks for the segregation of treated or untreated wastes, ion exchange columns, or carbon absorption units);
  - **ii.** Accidents caused by human error or negligence;
- **iii.** Any unanticipated bypass or upset which exceeds any effluent limitation in the permit;
- iv. Violation of a maximum day discharge limitation for any of the pollutants listed by the Agency in this permit; or
- v. Other causes such as acts of nature,

the Permittee shall provide notice as specified in subdivisions (c) and (d) of this subsection.

- c) Pursuant to 10 V.S.A. §1295, notice for "untreated discharges," as defined.
  - i. Public notice. For "untreated discharges" an operator of a wastewater treatment facility or the operator's delegate shall as soon as possible, but no longer than one hour from discovery of an untreated discharge from the wastewater treatment

facility, post on a publicly accessible electronic network, mobile application, or other electronic media designated by the Secretary an alert informing the public of the untreated discharge and its location, except that if the operator or his or her delegate does not have telephone or Internet service at the location where he or she is working to control or stop the untreated discharge, the operator or his or her delegate may delay posting the alert until the time that the untreated discharge is controlled or stopped, provided that the alert shall be posted no later than four hours from discovery of the untreated discharge.

- **ii.** Agency notification. For "untreated discharges" an operator of a wastewater treatment facility shall within 12 hours from discovery of an untreated discharge from the wastewater treatment facility notify the Secretary and the local health officer of the municipality where the facility is located of the untreated discharge. The operator shall notify the Secretary through use of the Department of Environmental Conservation's online event reporting system. If, for any reason, the online event reporting system is not operable, the operator shall notify the Secretary via telephone or e-mail. The notification shall include:
  - (1) The specific location of each untreated discharge, including the body of water affected. For combined sewer overflows, the specific location of each untreated discharge means each outfall that has discharges during the wet weather storm event.
  - (2) Except for discharges from a wastewater treatment facility to a separate storm sewer system, the date and approximate time the untreated discharge began.
  - (3) The date and approximate time the untreated discharge ended. If the untreated discharge is still ongoing at the time of reporting, the entity reporting the untreated discharge shall amend the report with the date and approximate time the untreated discharge ended within three business days of the untreated discharge ending.
  - (4) Except for discharges from a wastewater treatment facility to a separate storm sewer system, the approximate total volume of sewage and, if applicable, stormwater that was released. If the approximate total volume is unknown at the time of reporting, the entity reporting the untreated discharge shall amend the report with the approximate total volume within three business days.
  - (5) The cause of the untreated discharge and a brief description of the noncompliance, including the type of event and the type of sewer structure involved.
  - (6) The person reporting the untreated discharge.
- **d**) For any non-compliance not covered under Section II.A.2.b. of this permit, an operator of a wastewater treatment facility or the operator's delegate shall notify the Agency

within 24 hours of becoming aware of such condition and shall provide the Agency with the following information, in writing, within five days:

- i. Cause of non-compliance;
- **ii.** A description of the non-complying discharge including its impact upon the receiving water;
- **iii.** Anticipated time the condition of non-compliance is expected to continue or, if such condition has been corrected, the duration of the period of non-compliance;
- iv. Steps taken by the Permittee to reduce and eliminate the non-complying discharge; and
- **v.** Steps to be taken by the Permittee to prevent recurrence of the condition of non-compliance.

## **3.** Operation and Maintenance

All waste collection, control, treatment, and disposal facilities shall be operated in a manner consistent with the following:

- a) The Permittee shall, at all times, maintain in good working order and operate as efficiently as possible all treatment and control facilities and systems (and related appurtenances) installed or used by the Permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the Permittee only when the operation is necessary to achieve compliance with the conditions of this permit.
- **b**) The Permittee shall provide an adequate operating staff which is duly qualified to carry out the operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit; and
- c) The operation and maintenance of this facility shall be performed only by qualified personnel. The personnel shall be certified as required under the Vermont Wastewater Treatment Facility Operator Certification Rule.

### 4. Quality Control

The Permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements, or shall ensure that both activities will be conducted.

The Permittee shall keep records of these activities and shall provide such records upon request of the Agency.

The Permittee shall demonstrate the accuracy of the effluent flow measurement device weekly and report the results on the monthly report forms. The acceptable limit of error is  $\pm 10\%$ .

The Permittee shall analyze any additional samples as may be required by the Agency to ensure analytical quality control.

### 5. Bypass

The bypass of facilities (including pump stations) is prohibited, except where authorized under the terms and conditions of an Emergency Pollution Permit issued pursuant to 10 V.S.A. § 1268. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the activity in order to maintain compliance with the conditions of this permit.

### 6. Duty to Mitigate

The Permittee shall take all reasonable steps to minimize or prevent any adverse impact to waters of the State, the environment, or human health resulting from non-compliance with any condition specified in this permit, including accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

#### 7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, all calibration and maintenance of instrumentation records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a minimum of three years, and shall be submitted to the Agency upon request. This period shall be extended during the course of unresolved litigation regarding the discharge of pollutants or when requested by the Agency.

#### 8. Solids Management

Collected screenings, sludges, and other solids removed in the course of treatment and control of wastewaters shall be stored, treated, and disposed of in accordance with 10 V.S.A. chapter 159 and with the terms and conditions of any certification, interim or final, transitional operation authorization, or order issued pursuant to 10 V.S.A. chapter 159 that is in effect on the effective date of this permit or is issued during the term of this permit.

#### 9. Emergency Pollution Permits

Maintenance activities, or emergencies resulting from equipment failure or malfunction, including power outages, which result in an effluent which exceeds the effluent limitations specified herein, shall be considered a violation of the conditions of this permit, unless the Permittee immediately applies for, and obtains, an emergency pollution permit under the

provisions of 10 V.S.A. § 1268. The Permittee shall notify the Agency of the emergency situation by the next working day.

10 V.S.A. § Section 1268 reads as follows:

When a discharge permit holder finds that pollution abatement facilities require repairs, replacement or other corrective action in order for them to continue to meet standards specified in the permit, he may apply in the manner specified by the secretary for an emergency pollution permit for a term sufficient to effect repairs, replacements or other corrective action. The permit may be issued without prior public notice if the nature of the emergency will not provide sufficient time to give notice; provided that the secretary shall give public notice as soon as possible but in any event no later than five days after the effective date of the emergency pollution permit. No emergency pollution permit shall be issued unless the applicant certifies and the secretary finds that:

(1) there is no present, reasonable alternative means of disposing of the waste other than by discharging it into the waters of the state during the limited period of time of the emergency;

(2) the denial of an emergency pollution permit would work an extreme hardship upon the applicant;

(3) the granting of an emergency pollution permit will result in some public benefit;

(4) the discharge will not be unreasonably harmful to the quality of the receiving waters;

(5) the cause or reason for the emergency is not due to wilful or intended acts or omissions of the applicant.

Application shall be made to the Secretary at the following address: Agency of Natural Resources, Department of Environmental Conservation, One National Life Drive, Main Building, 2<sup>nd</sup> Floor, Montpelier VT 05620-3522.

## **B. RESPONSIBILITIES**

## 1. Right of Entry

The Permittee shall allow the Secretary or authorized representative, upon the presentation of proper credentials:

- a) To enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- **b**) To have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;

- c) To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- **d**) To sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

## 2. Transfer of Ownership or Control

This permit is not transferable without prior written approval of the Agency. All application and operating fees must be paid in full prior to transfer of this permit. In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the Permittee shall provide a copy of this permit to the succeeding owner or controller and shall send written notification of the change in ownership or control to the Agency **at least 30 days in advance of the proposed transfer date**. The notice to the Agency shall include a written agreement between the existing and new Permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them. The Permittee shall also inform the prospective owner or operator of their responsibility to make an application for transfer of this permit.

This request for transfer application must include as a minimum:

- **a**) A properly completed application form provided by the Agency and the applicable processing fee.
- **b**) A written statement from the prospective owner or operator certifying:
  - **i.** The conditions of the operation that contribute to, or affect, the discharge will not be materially different under the new ownership;
  - **ii.** The prospective owner or operator has read and is familiar with the terms of the permit and agrees to comply with all terms and conditions of the permit; and
  - **iii.** The prospective owner or operator has adequate funding to operate and maintain the treatment system and remain in compliance with the terms and conditions of the permit.
- c) The date of the sale or transfer.

The Agency may require additional information dependent upon the current status of the facility operation, maintenance, and permit compliance.

### 3. Confidentiality

Pursuant to 10 V.S.A. § 1259(b):

Any records, reports or information obtained under this permit program shall be available to the public for inspection and copying. However, upon a showing satisfactory to the secretary that any records, reports or information or part thereof, other than effluent data, would, if made public, divulge methods or processes entitled to protection as trade secrets, the Secretary shall treat and protect those records, reports or information as confidential. Any records, reports or information accorded confidential treatment will be disclosed to authorized representatives of the State and the United States when relevant to any proceedings under this chapter.

Claims for confidentiality for the following information will be denied:

- a) The name and address of any permit applicant or Permittee.
- **b**) Permit applications, permits, and effluent data.
- c) Information required by application forms, including information submitted on the forms themselves and any attachments used to supply information required by the forms.

#### 4. Permit Modification, Suspension, and Revocation

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including the following:

- a) Violation of any terms or conditions of this permit;
- **b**) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance shall not stay any permit condition.

The Permittee shall provide to the Agency, within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

### 5. Toxic Effluent Standards

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Clean Water Act for a toxic pollutant which is present in the Permittee's discharge and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, then this permit shall be modified or revoked and reissued in accordance with the toxic effluent standard or prohibition and the Permittee so notified.

## 6. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject under 10 V.S.A. § 1281.

## 7. Other Materials

Other materials ordinarily produced or used in the operation of this facility, which have been specifically identified in the application, may be discharged at the maximum frequency and maximum level identified in the application, provided:

- **a**) They are not:
  - **i.** Designated as toxic or hazardous under provisions of Sections 307 and 311, respectively, of the Clean Water Act, or
  - **ii.** Known to be hazardous or toxic by the Permittee, except that such materials indicated in (a) and (b) above may be discharged in certain limited amounts with the written approval of, and under special conditions established by, the Secretary or his/her designated representative, if the substances will not pose any imminent hazard to the public health or safety;
- **b**) The discharge of such materials will not violate the Vermont Water Quality Standards; and
- c) The Permittee is not notified by the Agency to eliminate or reduce the quantity of such materials entering the watercourse.

### 8. Navigable Waters

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

## 9. Civil and Criminal Liability

The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Except as provided in "Emergency Action – Electric Power Failure" (Section I.J), "Bypass" (Section II.A.5), and "Emergency Pollution Permits" (Section II.A.9), nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance. Civil and criminal penalties for non-compliance are provided for in 10 V.S.A. Chapters 47, 201, and 211.

#### **10. State Laws**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act.

## **11. Property Rights**

Issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

### **12. Other Information**

If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Agency, it shall promptly submit such facts or information.

### 13. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

### 14. Authority

This permit is issued under authority of 10 V.S.A. §§1258 and 1259 of the Vermont Water Pollution Control Act, the Vermont Water Pollution Control Permit Regulation, and Section 402 of the Clean Water Act, as amended.

### **15. Definitions**

For purposes of this permit, the following definitions shall apply.

Agency – The Vermont Agency of Natural Resources

**Annual Average** - The highest allowable average of daily discharges calculated as the sum of all daily discharges (mg/L, lbs or gallons) measured during a calendar year divided by the number of daily discharges measured during that year.

**Average** - The arithmetic means of values taken at the frequency required for each parameter over the specified period.

**Bypass** – The intentional diversion of waste streams from any portion of the treatment facility.

**The Clean Water Act** - The federal Clean Water Act, as amended (33 U.S.C. § 1251, *et seq.*).

**Composite Sample** - A sample consisting of a minimum of one grab sample per hour collected during a 24-hour period (or lesser period as specified in the section on Monitoring and Reporting) and combined proportionally to flow over that same time period.

**Daily Discharge** - The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.

For pollutants with limitations expressed in pounds the daily discharge is calculated as the total pounds of pollutants discharged over the day.

For pollutants with limitations expressed in mg/L the daily discharge is calculated as the average measurement of the pollutant over the day.

**Discharge** – Any wastes, directly or indirectly, that are placed, deposited or emitted into waters of the state.

Grab Sample - An individual sample collected in a period of less than 15 minutes.

**Incompatible Substance** – Any waste being discharged into the treatment works which interferes with, passes through without treatment, or is otherwise incompatible with said works or would have a substantial adverse effect on the works or on water quality. This includes all pollutants required to be regulated under the Clean Water Act.

Instantaneous Maximum - A value not to be exceeded in any grab sample.

**Major Contributing Industry** - One that: (1) has a flow of 50,000 gallons or more per average work day; (2) has a flow greater than five percent of the flow carried by the municipal system receiving the waste; (3) has in its wastes a toxic pollutant in toxic amounts as defined in standards issued under Section 307(a) of the Clean Water Act; or (4) has a significant impact, either singly or in combination with other contributing industries, on a publicly owned treatment works or on the quality of effluent from that treatment works.

**Maximum Day** (maximum daily discharge limitation) - The highest allowable "daily discharge" (mg/L, lbs or gallons).

Mean - The mean value is the arithmetic mean.

**Monthly Average** (Average monthly discharge limitation) - The highest allowable average of daily discharges (mg/L, lbs or gallons) over a calendar month, calculated as the sum of all daily discharges (mg/L, lbs or gallons) measured during a calendar month divided by the number of daily discharges measured during that month.

NPDES - The National Pollutant Discharge Elimination System.

Secretary - The Secretary of the Agency of Natural Resources

State Certifying Agency	Agency of Natural Resources
	Department of Environmental Conservation
	Watershed Management Division
	One National Life Drive, Main Building, 2 <sup>nd</sup> Floor
	Montpelier, VT 05620-3522

**Untreated Discharge** – means (1) combined sewer overflows from a wastewater treatment facility; (2) overflows from sanitary sewers and combined sewer systems that are part of a wastewater treatment facility during dry weather flows, which result in a discharge to waters of the State; (3) upsets or bypasses around or within a wastewater treatment facility during dry or wetweather conditions that are due to factors unrelated to a wet weather storm event and that result in a discharge of sewage that has not been fully treated to waters of the State; and (4) discharges from a wastewater treatment facility to separate storm sewer systems.

**Waste** – Effluent, sewage or any substance or material, liquid, gaseous, solid or radioactive, including heated liquids, whether or not harmful or deleterious to waters.

**Waste Management Zone** – A specific reach of Class B waters designated by a permit to accept the discharge of properly treated wastes that prior to treatment contained organisms pathogenic to human beings. Throughout the receiving waters, water quality criteria must be achieved but increased health risks exist due to the authorized discharge.

**Weekly Average** - (Average weekly discharge limitation) - The highest allowable average of daily discharges (mg/L, lbs or gallons) over a calendar week, calculated as the sum of all daily discharges (mg/L, lbs or gallons) measured during a calendar week divided by the number of daily discharges measured during that week.

#### Testing Requirements for POTWs >1.0 MGD

#### Hardness

Metals (total recoverable), cyanide and total phenols Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Thallium Zinc Cvanide Total phenolic compounds Volatile organic compounds Acrolein Acrylonitrile Benzene Bromoform Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-chloroethylvinyl ether Chloroform Dichlorobromomethane 1.1-dichloroethane 1,2-dichloroethane Trans-1,2-dichloroethylene 1,1-dichloroethylene 1,2-dichloropropane 1,3-dichloropropylene Ethylbenzene Methyl bromide Methyl chloride Methylene chloride 1,1,2,2-tetrachloroethane Tetrachloroethylene Toluene 1,1,1-trichloroethane 1.1.2-trichloroethane Trichloroethylene Vinyl chloride *Acid-extractable compounds* P-chloro-m-creso 2-chlorophenol 2,4-dichlorophenol 2,4-dimethylphenol

4,6-dinitro-o-cresol 2,4-dinitrophenol 2-nitrophenol 4-nitrophenol Pentachlorophenol Phenol 2,4,6-trichlorophenol **Base-neutral** compounds Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene 3.4 benzofluoranthene Benzo(ghi)pervlene Benzo(k)fluoranthene Bis (2-chloroethoxy) methane Bis (2-chloroethyl) ether Bis (2-chloroisopropyl) ether Bis (2-ethylhexyl) phthalate 4-bromophenyl phenyl ether Butyl benzyl phthalate 2-chloronaphthalene 4-chlorophenyl phenyl ether Chrysene Di-n-butyl phthalate Di-n-octyl phthalate Dibenzo(a.h)anthracene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 3.3-dichlorobenzidine Diethyl phthalate Dimethyl phthalate 2.4-dinitrotoluene 2.6-dinitrotoluene 1,2-diphenylhydrazine Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclo-pentadiene Hexachloroethane Indeno(1.2.3-cd)pyrene Isophorone Naphthalene Nitrobenzene N-nitrosodi-n-propylamine N-nitrosodimethylamine N-nitrosodiphenylamine Phenanthrene Pyrene 1,2,4,-trichlorobenzene

Appendix J to 40 CFR 122.21 [65 FR 42469, August 4, 1999]