

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WASTEWATER MANAGEMENT DIVISION
103 SOUTH MAIN STREET
WATERBURY, VERMONT 05671-0405

FACT SHEET

July 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

FILE NO.: 14-08

PROJECT ID NO.: NS93-0043

PERMIT NO.: 3-1225

NPDES NO.: VT0101010

NAME AND ADDRESS OF APPLICANT:

Town of Hartford
173 Airport Road
White River Junction, VT 05001

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

White River Junction Wastewater Treatment Facility
Latham Works Lane
White River Junction, Vermont

RECEIVING WATER AND CLASSIFICATION: Connecticut River: Class B with a waste management zone. Class B waters are suitable for bathing and recreation; irrigation and agricultural uses; good fish habitat; good aesthetic value; acceptable of public water supply with filtration and disinfection. A waste management zone is 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.

I. Proposed Action, Type of Facility, and Discharge Location

The above named applicant has applied to the Vermont Department of Environmental Conservation for renewal of a permit to discharge into the designated receiving water. The facility is engaged in the treatment of domestic and industrial wastewater from White River Junction and the Wilder area within the Town of Hartford. The discharge is from the Hartford wastewater treatment facility outfall to the Connecticut River.

II. Description of Discharge

This permit authorizes the discharge of 1.215 MGD of treated municipal wastewater. The treatment system consists of an extended aeration process for secondary treatment and chlorine addition for disinfection.

A quantitative description of the discharge in terms of significant effluent parameters is presented in section IV. below.

III. Limitations and Conditions

The effluent limitations of the permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:

Effluent Limitations: Page 2
 Monitoring Requirements: Pages 4, 5, and 6

IV. Permit Basis and Explanation of Effluent Limitation Derivation ***History & Summary***

On June 26, 2006 the Town submitted an application for renewal of their discharge permit for the White River Junction WWTF. Having completed its review of the application, the Department has made a determination to renew the discharge permit for the wastewater treatment facility's discharge. Following is a discussion of the specific factors considered in the renewal of this permit.

The WWTF provides wastewater treatment capacity for residential, commercial, and industrial properties within its sewer service area in the Town of Hartford including White River Junction and the Wilder area.

Effluent Limitations

Flow

This permit includes a flow limitation of 1.215 MGD, annual average, based on the design capacity of the facility. This is unchanged from the previous permit. Flow monitoring is required daily. This facility maintains a constant discharge.

Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS)

The BOD and TSS mass limitations are 304 lbs/day, monthly average, and 456 lbs/day, weekly average, and are unchanged from the previous permit. These mass limitations are based on concentration limitations and the permitted flow from the WWTF of 1.215 MGD. The BOD and TSS effluent concentration limits are 30 mg/l, monthly average, and 45 mg/l, weekly average. These limitations are set in accordance with the limitations specified for secondary treatment in 40 CFR Part 133.102.

In addition, the permit contains a 50 mg/l, maximum day, BOD and TSS limitation. This is a limitation which the Agency implements to supplement the federal technology based limitations to prevent a gross one-day permit effluent violation to be offset by multiple weekly and monthly sampling events which would enable a discharger to comply with the weekly average and monthly average permit limitations. These limitations are unchanged from the previous permit.

The sampling frequency for BOD and TSS is once per week and is unchanged from the previous permit.

Escherichia coli bacteria

The *E. coli* limitation is 77/100ml, instantaneous maximum and is based on Section 3-04.B.3 of the Vermont Water Quality Standards effective July 2, 2000. This limitation is unchanged from the previous permit. Sampling is required once per week and is unchanged from the previous permit.

Settleable Solids

The Settleable Solids limitation is 1.0 ml/l, instantaneous maximum and is established in support of the narrative standard in Section 3-01.B.5 of the Vermont Water Quality Standards effective July 2, 2000. This limitation is unchanged from the previous permit. Sampling is required once per day and is unchanged from the previous permit.

Total Residual Chlorine

The Total Residual Chlorine limitation is 1.0 mg/l, weekly average and 2.0 mg/l, daily maximum. This limitation is based on the Chlorine Policy dated March 1988 and will ensure that the instream water quality criteria of chlorine of 0.019 mg/l (acute) and 0.011 mg/l (chronic) of the Vermont Water Quality Standards effective July 2, 2000 is met. This limitation is unchanged from the previous permit. Total residual chlorine sampling is required once per day and is unchanged from the previous permit.

pH

The pH limitation of 6.5 to 8.5 SU, daily maximum is based on Section 3-01.B.9 of the Vermont Water Quality Standards effective July 2, 2000. This limitation is unchanged from the previous permit. Sampling is required once per day and is unchanged from the previous permit.

Waste Management Zone

The previous permit established a waste management zone in Vermont waters beginning at the outfall of the White River Junction WWTF and extending downstream for 1.0 miles in the Connecticut River. The draft permit will maintain this waste management zone.

Toxicity Testing and Additional Pollutant Testing

Previous Whole Effluent Toxicity (WET) tests conducted on this discharge have indicated that this discharge does not have a reasonable potential to cause an instream toxic impact. However to ensure compliance with 40 CFR 122.21.j, at the time of permit renewal, a requirement (Condition I.E) to conduct WET testing has been included in the draft permit. This Condition requires two species acute WET test to be done in 2008, and 2010. The species to be tested are fathead minnow and daphnia and the time of year the test will be conducted will alternate between winter and late summer to ensure representative sampling is done. In addition, per the requirements of 40 CFR 122.21.j, annual monitoring for temperature, Dissolved Oxygen, Oil & Grease, Nitrate/Nitrite, Total Dissolved Solids, Total Phosphorus, Ammonia and Total Kjeldahl Nitrogen, has been included in the draft permit.

Engineering Evaluation and Report

Since this wastewater treatment facility has reached its 20 year design life, an engineering evaluation condition is included in the permit (Part I.G.). This condition requires the permittee to conduct an in-depth engineering inspection and report of the treatment facility to identify currently needed repairs as well as equipment, processes, and other possible deficiencies which may adversely affect effluent quality or the proper operation of the treatment facility. This report must be submitted to the Department by December 31, 2010.

Combined Sewer Overflows

The Town partially completed a combined sewer separation project to eliminate the combined sewer overflows associated with the collection system in the mid-1990s but has yet to complete the final phase of the separation project or conduct an effectiveness study to verify compliance

with the Vermont Combined Sewer Overflow Policy. To ensure that this project is completed and an effectiveness study conducted, the Agency and the Town entered into a "Stipulated Emergency Order" on December 16, 2005. This Order mandates that the remaining construction for the final phase of the combined sewer overflow separation project be completed by December 31, 2008 and a final effectiveness study submitted for review by December 31, 2010. The Order also requires that the "Nine Minimum Controls" for combined sewer overflow abatement be implemented.

VI. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from July 31, 2006 through August 30, 2006 during which time interested persons may submit their written views on the draft permit. All written comments will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department.

Written comments should be sent to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division - Sewing Building
103 South Main Street
Waterbury, VT 05671-0405

Comments may also be faxed to: 802-241-2596.

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the draft discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Wastewater Management Division, Waterbury Office. Copies will be made at a cost based on the previous Secretary of State Official Fee Schedule for Copying Public Records from 8:00 am to 4:30 pm, Monday through Friday.

The draft permit and this fact sheet may also be viewed on the Wastewater Management Division's web site at www.anr.state.vt.us/dec/ww/wwmd.cfm.

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USGS 1 km SE of White River Junction, Vermont, United States 12 May 1992



0 200M

0 200yd

Image courtesy of the U.S. Geological Survey

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