

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

FACT SHEET
September 2006

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

FILE NO.: 01-12
PROJECT ID NO.: RU95-0364
NPDES NO: VT0001279
PERMIT NO.: 3-1519

NAME AND ADDRESS OF APPLICANT:

Pike Industries, Inc.
249 Granger Road-Berlin
Barre, VT 05641

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

"New Haven Quarry"
Campground Road
New Haven, VT

RECEIVING WATERS AND CLASSIFICATION: Unnamed tributary of Otter Creek: Class B. 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.

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

The above named applicant has applied to the Vermont Department of Environmental Conservation for a permit to discharge into the designated receiving water. The discharge is from the New Haven Quarry, New Haven, VT to an unnamed tributary of Otter Creek. The facility is a quarry and stone crushing operation.

II. Description of Discharge

This permit authorizes the discharge of a commingled wastewater consisting of quarry dewatering water, quarry process water from a stone crushing operation and stormwater runoff. 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: Page 2

IV. Permit Basis and Explanation of Effluent Limitation Derivation

History & Summary

Pike Industries, Inc. owns and operates the “New Haven Quarry” in New Haven, VT. The quarry process includes extraction and a stone crushing and produces product for a variety of uses such as road fill, subsurface wastewater systems, and construction material. Several sources of wastewater are generated on the site and commingle in the collection and treatment system prior to discharge. Specifically:

Quarry Dewatering Water

Stormwater and groundwater seepage must be removed from the quarry to allow for the removal of rock. The quarry is designed such that all water generated during mine construction activities flows into a sump at the south western end of the quarry for collection and primary treatment via settling. The water is then pump from the sump to “Old Quarry Pond” for treatment.

Stone Crushing Operation Waste water

Water is used for various purposes, including dust control, in the stone crushing operation. The crusher is located on the east side of “Old Quarry Pond” and the wastewater is conveyed via a swale to “Old Quarry Pond” for treatment. Water is also extracted from “Old Quarry Pond” for use as process water in the crushing operation.

Stormwater Runoff

Stormwater generated on the site from haul roads, storage piles, buildings, etc is conveyed to via swales, culverts and grading “Old Quarry Pond” for treatment.

The Agency has determined that the commingled discharges from the quarrying and stone crushing operations are subject to 40 CFR Part 436, Subpart B – Crushed Stone Subcategory. Subpart B defines process generated wastewater as follows:

“(e) The term “process generated waste water” shall mean any waste water used in the slurry transport of mined material, air emissions control, or processing exclusive of mining. The term shall also include any other water which becomes commingled with such waste water in a pit, pond, lagoon, mine, or other facility used for treatment of such waste water.”

Based on this definition the Agency has deemed the stone crushing operation wastewater as “process generated waste water”. Since the quarry dewatering water and the site stormwater runoff commingles with the stone crushing wastewater in the treatment facility (“Old Quarry Pond”) the entire commingled discharge from the “Old Quarry Pond” is defined as process wastewater and subject to the terms and condition of this permit.

In its application the applicant also applied for authorization to discharge stormwater runoff from an adjacent asphalt production facility. Since the stormwater runoff from the asphalt production facility does not commingle with the process generated wastewater in the “Old Quarry Pond” prior to discharge it is not authorized or covered by the terms and conditions of this permit.

Having completed its review of the application, the Department has made a determination to issue a discharge permit for this discharge. Following is a discussion of the specific factors considered in the renewal of this permit.

Effluent Limitations

Flow

Flow monitoring is required once per week. The discharge from this facility can be sporadic (i.e. a few days per month) and depends on the operation of the quarry, rainfall and groundwater seepage.

Turbidity

The permit contains a turbidity limitation of 10 N.T.U. This limitation is based on Section 3-01.B.1 of the Vermont Water Quality Standards effective July 2, 2000. Turbidity sampling is required twice per month during the spring dewatering period and once per month when quarry operations are in progress.

Total Suspended Solids

The permit contains a total suspended solids limitation of 10 mg/l. This limitation is based on the Agency's best professional judgement. Specifically, a properly operated and maintained settling system should be able to produce a wastewater with a total suspended solids concentration of 10 mg/l or less. TSS sampling is required twice per month during the spring dewatering period and once per month when quarry operations are in progress.

pH

The permit contains a pH limitation of 6.5 to 8.5 SU. This limitation is based on Section 3-01.B.9 of the Vermont Water Quality Standards effective July 2, 2000. pH sampling is required twice per month during the spring dewatering period and once per month when quarry operations are in progress.

Other Permit Conditions

Since metals are occasionally associated with rock formations in the state, Condition A.2. requires the permittee to conduct a total metals (antimony, arsenic, cadmium, chromium, copper, iron, lead, nickel, selenium, silver, and zinc) analysis of the discharge in the spring of 2007 and in August or September 2007.

Special Condition A.3.d. requires the permittee to maximize the water recycling to the extent feasible in order to reduce the volume of water discharged.

Special Condition A.3.f. requires the permittee to immediately implement a spill prevention and control plan and take all reasonable steps to prevent any equipment spills or leaks from entering the wastewater treatment system.

Special Condition A.3.g. prohibits this discharge from causing or contributing to violations of water quality standards.

VI. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from September 18, 2006 through October 18, 2006, during that 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.