

**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),

**Quinn-Perkins Sand & Gravel, Inc.**

is authorized to discharge from a facility located at:

**6 Adams Street  
Burlington, MA 01863**

to receiving water named:

**Vine Brook to Butterfield Pond -Shawsheen Watershed (Basin Segment MA83-06)**

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

This permit shall become effective sixty days from the date of signature.

This permit and the authorization to discharge expire at midnight, 5 years from the effective date.

This permit supersedes the permit issued on June 24, 1974.

This permit consists of six (6) pages in Part I including effluent limitations, monitoring requirements, etc. and 35 pages in Part II including General Conditions and Definitions.

Signed this 22<sup>nd</sup> day of March, 2005

/s/ SIGNATURE ON FILE

Linda M. Murphy, Director  
Office of Ecosystem Protection  
Environmental Protection Agency  
Boston, MA

Glenn Haas, Director  
Division of Watershed Management  
Massachusetts Department of Environmental  
Protection  
Boston, MA

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1.a. During the period beginning on the effective date and lasting through expiration the permittee is authorized to discharge from outfall 002 treated process waste water.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirement</u>	
	<u>Avg.Monthly</u>	<u>Max. Daily</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Total Daily Flow	Report	Report	1/month	Estimate
pH - Standard Units (S.U.)	6.5 - 8.3 range (See Part I.A.2.a)		1/month	1 grab sample in one day
Oil and Grease (mg/l)	---	15	1/month	1 grab sample in one day
Total Suspended Solids (mg/l)	20	45	1/month	3 grab composites in one day <sup>e,c</sup>
Turbidity (NTU)	Report	Report	1/month	3 grab composites in one day <sup>e,c</sup>
Turbidity, Downstream (NTU)	Report	Report	1/month	3 grab composites in one day <sup>e,c</sup>
Turbidity, Upstream (NTU)	Report	Report	1/month	3 grab composites in one day <sup>e,c</sup>
Turbidity, Difference (NTU)	Report	Report	1/month	3 grab composites in one day <sup>e,c</sup>

- b. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: discharge through a concrete pipe (outfall 002) which is located at the south end of settling pond #2 into Vine Brook.
- c. On the same day a water sample for turbidity analysis is collected of the effluent discharged from outfall 002, two (2) additional water samples for turbidity analyses shall be collected from the receiving water, Vine Brook, one upstream and one downstream of outfall 002. The upstream sample shall be collected at a location near the permittee's upstream property boundary while the downstream sample shall be collected at a location that represents the turbidity in Vine Brook after complete mixing with the effluent discharged from outfall 002 and just prior to entering Butterfield Pond. In addition, the downstream sample of Vine Brook (below outfall 002) shall be collected from approximately the same slug of water as was the upstream turbidity sample by allowing for the travel time from the upstream to the downstream location. Individual turbidity results shall be reported in the appropriate columns on the monthly Discharge Monitoring Reports (DMRs). For Vine Brook, the "Turbidity, Difference" is calculated as "Turbidity, Downstream" (of outfall 002) minus "Turbidity, Upstream" (of outfall 002) with all positive results being reported as calculated and all minus results being reported as zero in the appropriate column on the DMRs.
- d. The monitoring for this permit shall result in the reporting of an average monthly discharge limit as defined in 40 CFR Part 122.2.
- e. Permittee shall report the results of the three grab composite samples as the maximum daily result.
- f. To ensure that unknown contaminants do not enter the waste water system at the site, the permittee shall only wash clean rock, stone or gravel in its crushing/washing/sorting operation.
- g. No material classified as Asphalt-Brick-Concrete (ABC) rubble may be washed as part of the crushing operation.
- h. The permittee shall notify the regulatory agency in writing of any changes in the operations at the facility that may have an effect on the permitted discharge of wastewater from the facility.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS(cont.)

2.
  - a. The pH shall not be less than 6.5 standard units nor greater than 8.3 standard units and not more than 0.5 units outside of the normally occurring range and shall be monitored one day per month. Report range of three grabs.
  - b. There shall be no discharge of floating solids or visible foam in other than trace amounts.
  - c. The effluent shall not cause a visible oil sheen nor an objectionable discoloration of the receiving water.
  - d. The discharge shall not cause violations of water quality standards of the receiving water which have been or may be promulgated.
  - e. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to human health, aquatic life of the receiving water or which would impair the uses designated by its classification.
3. This permit shall be modified, or revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the CWA, if the effluent standard or limitation so issued or approved:
  - (1) contains different conditions or is otherwise more stringent than any effluent limitation in this permit; or
  - (2) controls any pollutant not limited by this permit.

If the permit is modified or reissued, it shall be revised to reflect all currently applicable requirements of the CWA.

4. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
  - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 ug/l);
    - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2, 4-dinitrophenol and for 2- methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

- (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7); or
  - (4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).
- b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (1) Five hundred micrograms per liter (500 ug/l);
  - (2) One milligram per liter (1 mg/l) for antimony;
  - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 C.F.R. §122.21(g)(7); or
  - (4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).
- c. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

#### **B. MONITORING AND REPORTING**

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the month following the effective date of the permit.

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director at the following address:

Environmental Protection Agency  
Water Technical Unit ( SEW )  
P.O. Box 8127  
Boston, Massachusetts 02114

Signed and dated copies of all monitoring reports shall be submitted to the state at:

Massachusetts Department of Environmental Protection  
Northeast Regional Office, Bureau of Waste Prevention  
1 Winter Street  
Boston, MA 02108

In addition, signed and dated copies of all monitoring reports, other notifications and reports required herein by this permit shall also be submitted to the state at:

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
Surface Water Discharge Permit Program  
627 Main Street, 2<sup>nd</sup> Floor  
Worcester, Massachusetts 01608

**D. STATE PERMIT CONDITIONS**

This discharge permit is issued jointly by the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MA DEP) under federal and state law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the MA DEP pursuant to M.G.L. Chap. 21 §43.

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 an 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.

