



COMMONWEALTH OF MASSACHUSETTS  
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 Central Regional Office, 627 Main Street, Worcester, MA 01608

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 Secretary

ROBERT W. GOLLEDGE, Jr.  
 Commissioner

RECEIVED

APR 1 2005

ACTON BOARD OF HEALTH

Don Johnson, Town Manager  
 Town Hall  
 472 Main Street  
 Acton, MA 01729

RE: ACTON-BRPWP12-#W053563  
 314 CMR 5.00 – Groundwater Discharge  
 GW#656-1 – Final Permit

Dear Mr. Johnson:

In response to your application for renewal of groundwater discharge permit #656-1 to discharge a treated effluent to the ground from a 299,000 gpd wastewater treatment facility (WWTF) on Adams Street in Acton, MA and after due public notice, I hereby issue the attached final permit.

No comments objecting to the issuance or terms of the permit were received by the Department during the public comment period. Therefore, in accordance with 314 CMR 2.08, the permit becomes effective upon issuance.

Parties aggrieved by the issuance of this permit are hereby advised of their right to request an Adjudicatory hearing under the provision of Chapter 30A of the Massachusetts General laws and 314 CMR 1.00, Rules for the Conduct of Adjudicatory proceedings. Unless the person requesting the adjudicatory hearing requests and is granted a stay of the terms and conditions of the permit, the permit shall remain fully effective. If you have any questions feel free to contact Margo Webber at (508) 767-2738.

Very truly yours,

April 13, 2005

Date

Robert A. Kimball, P.E.  
 Environmental Engineer V  
 Bureau of Resource Protection  
 Mw\gwpp656  
 Enc.

Cc: Acton BOH, Town Hall, Acton, MA  
 Dana Samuleson, PA-DEP  
 Marybeth Chubb, DEP-Boston

This information is available in alternate format. Call Debra Doherty, ADA Coordinator at 617-292-5565.

<http://www.mass.gov/dep> • Phone (508) 792-7650 • Fax (508) 792-7621 • TDD # (508) 767-2788

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## DISCHARGE PERMIT

Name and Address of Applicant: Town of Acton

Town Hall, 472 Main Street, Acton, MA 01720

Date of Application: August 24, 2004

Application/Permit No. 656-1

Date of Issuance: April 12, 2005

Date of Expiration: April 12, 2010

Effective Date: April 12, 2005

### **AUTHORITY FOR ISSUANCE:**

Pursuant to authority granted by Chapter 21, Sections 26-53 of the Massachusetts General Laws, as amended, the following permit is hereby issued to: The Town of Acton (hereinafter called 'the permittee') authorizing discharges to the ground from the Town of Acton wastewater treatment facility located at 20 Adams Street in Acton, MA such authorization being expressly conditional on compliance by the permittee with all terms and conditions of the permit hereinafter set forth.



Bureau of Resource Protection

April 13, 2005

Date

## I. SPECIAL CONDITIONS

### A. Effluent Limits

The permittee is authorized to discharge into the ground from the groundwater treatment facilities for which this permit is issued a treated effluent whose characteristics shall not exceed the following values:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>
Flow	299,000 gallons per day
BOD, 5 day, 20°C	20 mg/l
Total Suspended Solids	20 mg/l
Oil & Grease	15 mg/l
Fecal Coliform	200 org/100 ml
Nitrate-Nitrogen	10 mg/l
Total Nitrogen (TKN+NO3+NO2)	10 mg/l
Total Phosphorus	0.5/0.2 mg/l*

\*The Total Phosphorus shall be a maximum daily limit of 0.5 mg/l and a monthly average limit of 0.2 mg/l.

- a) The pH of the effluent shall not be less than 6.5 nor greater than 8.5 at any time.
- b) The discharge of the effluent shall not result in any demonstrable adverse effect on the groundwater or violate any water quality standards that have been promulgated.
- c) The monthly average concentration of BOD and total suspended solids in the discharge shall not exceed 15 percent of the monthly average concentrations of BOD and total suspended solids in the influent into the permittee's wastewater treatment facilities.
- d) When the effluent discharged for a period of 90 consecutive days exceeds 80 percent of the permitted flow limitations, the permittee shall submit to the permitting authorities projected loadings and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.

B. Monitoring and Reporting

- 1) The permittee shall monitor and record the quality of the influent waste stream to the facility according to the following schedule and other provisions:

<u>Parameter</u>	<u>Minimum Frequency of Analysis</u>	<u>Sample Type</u>
BOD	2 x Monthly	24-hour composite
Total Suspended Solids	2 x Monthly	24-hour composite
pH	Daily	Grab
Ammonia Nitrogen	1 x Monthly	24-hour composite
Total Phosphorus	1 x Monthly	24-hour composite

- 2) The permittee shall monitor and record the quality and quantity of effluent according to the following schedule and other provisions:

<u>Parameter</u>	<u>Minimum Frequency of Analysis</u>	<u>Sample Type</u>
Flow	Daily	Min, Max, Avg
BOD	2 x Monthly	24-hour composite
Total Suspended Solids	2 x Monthly	24-hour composite
Fecal Coliform	2 x Monthly	Grab
UV Intensity	Daily	Reading
pH	Daily	Grab
Nitrate-Nitrogen	2 x Monthly	24-hr composite
Total Nitrogen (TKN+NO3+NO2)	2 x Monthly	24-hr composite
Volatile Organic Compounds (USEPA Method #624)	2 x Annually	Grab
Phosphorus*	2 x Monthly	Grab
Oil and Grease	Quarterly	Grab

\* Total and Dissolved

- 3) The permittee shall monitor, record and report the quality of water from upgradient monitoring well MW-1 and five downgradient wells MW-2, MW-3, MW-4, MW-5 and MW-6 according to the following schedule and other provisions:

Total and Dissolved Phosphorus	1 x quarterly
Nitrate-Nitrogen	1 x quarterly
pH	1 x monthly
Specific Conductance	1 x monthly
Static Water Level	1 x monthly
Volatile Organic Compounds (USEPA Method #624)	2 x annually

4) Any grab sample or composite sample required to be taken less frequently than daily shall be taken during the period of Monday through Friday inclusive. Grab samples shall be taken between 8:00 a.m. and 6:00 p.m. All composite samples shall be taken over the operating day.

5) The permittee shall monitor and record the quality of the surface water from two locations in the adjacent stream (Up-Stream near the road and Downstream near the Assabet River) and from the Assabet River according to the following schedule and other provisions:

<u>Total and Dissolved Phosphorus</u>	<u>1 x Quarterly</u>
<u>Nitrate-Nitrogen</u>	<u>1 x Quarterly</u>

The permittee shall submit all monitoring reports within fifteen days of the last day of the reporting month. Reports shall be on an acceptable form, properly filled and signed and shall be sent to the Bureau of Resource Protection, Department of Environmental Protection, 627 Main Street, Worcester, 01608, and to the Director, Department of Environmental Protection, Wastewater Management Program, One Winter Street, Boston, MA 02108, and to the Acton Board of Health, Town Hall, Main St, Acton, MA 01720.

### C. Supplemental Conditions

1. The permittee shall be responsible for the operation and maintenance of Municipally owned sewer lines and pump stations. A Town/Sewer Ordinance should be required to address privately owned sewers and pump stations.
2. The permittee shall maintain a set of local regulations and bylaws that will prohibit the dumping of toxic chemicals to the sewer lines.
3. The WWTF is approved to accept sanitary "tight tank" waste. Subject to submission to and approval by MADEP of a final plan, the WWTF may be authorized to accept limited amounts of septage under special conditions, but not grease.
4. On an annual basis the permittee shall conduct a baseline wetlands determination of the site. A report shall be submitted to the Department for review and approval and any appropriate measures shall be undertaken according to the Department approval.

5. On an annual basis the permittee shall conduct an evaluation of the slope stability and erosion at the site. A report shall be submitted to the Department for review and approval and any appropriate erosion control/stability measures shall be undertaken according to the Department approval.
6. The site shall be fenced and shall have limited access.

This Permit is an action of the Department. Any person aggrieved by this action may request an adjudicatory hearing. A request for a hearing must be made in writing and postmarked within thirty (30) days of the date the permit is issued. (314 CMR 2.08) Under 310 CMR 1.01(6) (b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. The hearing request along with a valid check payable to Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

Commonwealth of Massachusetts  
Department of Environmental Protection  
P.O. Box 4062  
Boston, MA 02211

The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

Gwp656-1