

DISCHARGE PERMIT

Name and Address of Applicant: Town of Falmouth Utilities  
Department, 59 Town Hall Square, Falmouth , Massachusetts 02540

Date of Application: May 5, 2000

Permit No.: SE #3-168

Date of Issuance: February 15, 2002

Date of Expiration: February 15, 2003

Effective Date: February 15, 2002

AUTHORITY FOR ISSUANCE

Pursuant to authority granted by Chapter 21, Sections 26-53 of the Massachusetts General Laws, as amended, the following permit hereby issued to:

Town of Falmouth Utilities Department  
59 Town Hall Square  
Falmouth, Massachusetts 02540

(hereinafter called "the permittee), authorizing discharges from the Town of Falmouth's municipal wastewater treatment facility to the ground, located at 154 Blacksmith Shop Road, West Falmouth, Massachusetts such authorization being expressly conditional on compliance by the permittee with all terms and conditions of the permit hereinafter set forth.

\_\_\_\_\_  
Brian A. Dudley  
Bureau of Resource Protection

\_\_\_\_\_  
Date

## I. SPECIAL CONDITIONS

### A. **Effluent Limits**

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

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>	
Flow (Total) Daily Ave.	810,000 gallons per day	Maximum 2.9 MGD
Flow (to Spray Irrigation)	700,000 gallons per day	maximum
Biochemical Oxygen Demand 5-Day 20@ C	85.0	mg/l
Total Suspended Solids	85.0	mg/l
Oil & Grease	15.0	mg/l
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN)	50.0	mg/l
Nitrate-Nitrogen	50.0	mg/l
Total Chlorine Residual	1.0	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 ground water or violate any water quality standard that has been promulgated.
- (c) 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, record and report the quality and quantity of **effluent** prior to discharge to the sand beds and spray irrigation system 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-Ave
pH	Daily	grab
BOD <sub>5</sub>	Weekly	8-hour composite
Total Suspended Solids	Weekly	8-hour composite
Total Solids	Weekly	8-hour composite
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN)	Monthly	8-hour composite
Nitrate-Nitrogen	Monthly	8-hour composite
Total Chlorine Residual	Monthly	grab
Oil & Grease	Monthly	grab
Phosphorus	Monthly	grab
Sodium	Monthly	grab
Volatile Organic Compounds*	Semi-Annually	grab

\*(USEPA Method #624)

- (2) The permittee shall monitor, record and report the quality of groundwater upgradient and downgradient of the wastewater discharge in accordance with the procedures developed in the report submitted by Camp, Dresser & McKee and approved by the Department titled:

Sampling and Analytical Procedures  
For  
Falmouth Wastewater Treatment Plant Sampling Program

Camp, Dresser & McKee, Inc.  
One Center Plaza  
Boston, MA 02108

May, 1984

- a) For monitoring wells 1, 1A, 2, 2A, 3, 4, 5, 6, 7, 8, 9, 9A, 10, 11, 11A, 12, 12A, 13, 14, 14A, 15, 16, 17, P4, and P10 water table elevations shall be determined between the 21<sup>st</sup> and 25<sup>th</sup> of the month on a quarterly basis.

- b) For monitoring wells 1, 1A, 2, 2A, 3, 4, 5, 6, 7, 8, 9, 9A, 10, 11, 11A, 12, 12A, 13, 14, 14A, 15, 16, 17, P4, and P10:

Ammonia	Semi-Annually
Surfactants	Semi-Annually
Chloride	Semi-Annually
Nitrate-Nitrogen	Semi-Annually
Total Nitrogen	Semi-Annually
Total Phosphorus	Semi-Annually
Total Coliform	Semi-Annually
Copper	Semi-Annually
Manganese	Semi-Annually
Sodium	Semi-Annually
Sulfates	Semi-Annually
pH	Semi-Annually
Specific Conductance	Semi-Annually

- b) Monitoring wells 1, 1A, 2, 2A, 3, 4, 5, 6, 7, 8, 9, 9A, 10, 11, 11A, 12, 12A, 13, 14, 14A, 15, 16, 17, P4, and P10 shall be sampled between the 15<sup>th</sup> and 30<sup>th</sup> of each September for volatile organic compounds utilizing E.P.A. Method 624 procedures.

- (3) 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. Eight-hour composite and 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.
- (4) The permittee shall submit all reports on an acceptable form, properly filled and signed, on the fifteenth day of every month, beginning thirty days after the issuance of this permit, to the Department of Environmental Protection, Southeast Regional Office, 20 Riverside Drive, Lakeville, Massachusetts 02347 and to the Program Manager, Wastewater Management, One Winter Street, Boston, Massachusetts 02108 and to the Board of Health, 59 Town Hall Square, Falmouth, Massachusetts 02540.

### C. Supplemental Conditions

- (1) The permittee shall notify the Department at least thirty (30) days in advance of any proposed transfer of

ownership of the facility for which this permit is issued. Said notification shall include a written agreement between the existing and new permittees containing a specific date for transfer of the permit, responsibility, coverage and liability between them.

- (2) Prior to the expiration date of this permit, the Town of Falmouth shall provide to the Department a proposed schedule for the construction of sewers proposed as part of the "Wastewater Facilities Plan and Final Environmental Impact Report" dated January 2001 and as required by the Certificate of the Secretary of Environmental Affairs on the Final Environmental Impact Report dated March 16, 2001.
- (3) Prior to the expiration date of this permit, the Town of Falmouth shall have initiated and substantially completed a study to identify additional sewage disposal sites at the existing treatment works to provide a maximum infiltration capacity of 1 million gallons per day (mgd). This study shall include, but not be limited to, all necessary field work, hydrogeological analysis, groundwater modeling and recommendations for appropriate disposal areas. The Town shall also provide a Scope of Work (SOW) for a study to identify and evaluate additional disposal sites outside the West Falmouth Harbor watershed. The SOW shall include, but not be limited to, proposals for all necessary field work, hydrogeological analysis, groundwater modeling and recommendations for appropriate disposal areas.

#### **D. Section 61 Findings**

This permit incorporates by reference the applicable portions of the Section 61 Finding attached hereto and filed by the Department with the MEPA office. Based upon its review of the current project proposal and the documents submitted in connection with the application for the permit, the Department finds that implementation of the terms and conditions of this permit constitute all feasible measures to avoid damage to the environment and will minimize and mitigate such damage to the maximum extent practicable. Implementation of the mitigation measures will occur with the terms and conditions set forth in the permit.

#### **E. Appeal Rights**

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 Permit issuance

date. 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 the 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.