

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Kathleen A. Theoharides Secretary

> Martin Suuberg Commissioner

July 29, 2020

Amy Lowell Town of Falmouth 59 Town Hall Square Falmouth, Massachusetts 02540

Dear Ms. Lowell:

RE: FALMOUTH: BRPWP12, Falmouth WWTF, 154 Blacksmith Shop Road. Permit No.: 168 - 6
Transmittal No. X284436

The Massachusetts Clean Water Act (M.G.L. c.21, s.21-53) was amended by Chapter 246 of the Acts of 1973 to authorize the Massachusetts Department of Environmental Protection (the MassDEP), to regulate discharges into all waters of the Commonwealth, including groundwaters. The MassDEP regulates discharges through the issuance of discharge permits, which impose limitations on the amount of pollutants that may be discharged in the effluent, together with monitoring and reporting requirements and other conditions to insure adequate treatment of all liquid wastes prior to discharge.

The MassDEP has completed its technical review of your application submitted on behalf of the Town of Falmouth, to discharge treated wastewater from the facility located at: Falmouth WWTF, 154 Blacksmith Shop Road, Falmouth to the ground, and has developed the conditions contained in the enclosed draft permit. Within fourteen (14) days of receipt of the draft permit, you should indicate to this agency, in writing, either the acceptability of the permit conditions or any problem areas.

The proposed draft permit can only be considered in draft form because of provisions in the Law regulating public notice of the proposed issuance of the permit and opportunity for public comments and public hearing. Following receipt of comments on the public notice, and public hearing, if held, the MassDEP will issue its final determination to issue or deny the permit.

Enclosed herewith is a copy of the public notice for your groundwater discharge permit. If you have **no** comments concerning the draft permit, the enclosed public notice should be published to start the thirty (30) day public comment period.

In accordance with 314 CMR 2.06(4) and M.G.L. c.30A, the applicant or permittee, as applicable, shall publish public notice of the permit proceedings in *The Environmental Monitor*, a publication of the Massachusetts Executive Office of Energy and Environmental Affairs. For instructions on filing this notice with MEPA please refer to MEPA's website at http://www.env.state.ma.us/mepa/submittingnotices.htm

The applicant or permittee shall submit to the Department a copy of the public notice as published in the *Environmental Monitor*, within <u>seven</u> days after the date of publication or at such other time as the Department requires. This information should be sent to the attention of Christos Dimisioris at the above letterhead address. The mandatory thirty day public comment period will commence with the date of publication of the public notice.

If you should have any questions on any information provided with this letter please contact Christos Dimisioris at (508) 946-2736.

Sincer

Gerard M. R. Martin

Brian A. Dudley, Chief

Wastewater Management – Cape and Islands

D/CD/lg Enclosure

ecc:

Falmouth Board of Health 59 Town Hall Square Falmouth, Massachusetts 02540 (with enclosure)

DEP/Boston

168 - 6 - Falmouth - Falmouth WWTF public comment letter.docx

PUBLIC NOTICE

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER RESOURCES /WASTEWATER MANAGEMENT PROGRAM 20 RIVERSIDE DRIVE

LAKEVILLE, MASSACHUSETTS 02347

TEL#: (508) 946-2736

Notice is hereby given that the following application for an Individual Groundwater Discharge Permit is being processed and the following actions being proposed thereon pursuant to Section 43 of Chapter 21 of the General Laws, and 314 CMR 5.00 and 2.06:

CITY/TOWN:

Falmouth

PROJECT NAME:

Falmouth WWTF

APPLICANT:

Town of Falmouth

FACILITY LOCATION:

154 Blacksmith Shop Road

TYPE OF DISCHARGE:

Treated sanitary wastewater

QUANTITY OF DISCHARGE:

710,000 gallons per day annual average and 1,270,000

gallons per day maximum day

PERMIT NO:

168 - 6

TRANSMITTAL NO:

X284436

PROPOSED ACTION:

Tentative determination to issue individual groundwater

discharge permit

A copy of the application, draft permit, and statement of basis or fact sheet relative to the draft permit may be obtained from the MassDEP's Wastewater Management Program at the above address and telephone number or online at:

http://www.mass.gov/eea/agencies/massdep/news/comment/

Comments on the proposed action or requests for a public hearing thereon pursuant to 314 CMR 2.07 must be filed with MassDEP at the above address within thirty (30) days of this notice. For information on the process for formally intervening in adjudicatory proceedings, please refer to 310 CMR 1.00: Adjudicatory Proceedings, Section (7) Intervention and Participation. http://www.mass.gov/eea/agencies/massdep/water/regulations/310-cmr-1-00-adjudicatory-proceedings.html

Brian A. Dudley, Chief Wastewater Management – Cape and Islands



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Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Kathleen Theoharides Secretary

> Martin Suuberg Commissioner

INDIVIDUAL GROUNDWATER DISCHARGE PERMIT

Name and Address of Applicant: Town of Falmouth, 59 Town Hall Square, Falmouth,

Massachusetts 02540.

Date of Application:

October 6, 2014

Application/Permit No.

168-6

Date of Issuance:

DRAFT

Date of Expiration:

DRAFT

Effective Date:

DRAFT

AUTHORITY FOR ISSUANCE

Pursuant to authority granted by Chapter 21, Sections 26-53 of the Massachusetts General Laws, as amended, 314 CMR 2.00, and 314 CMR 5.00, the Massachusetts Department of Environmental Protection (the Department) hereby issues the following permit to: Town of Falmouth (hereinafter called "the Permittee" or "the Town") authorizing discharges from the Town's wastewater treatment facility located at 154 Blacksmith Shop Road, Falmouth, Massachusetts to the ground such authorization being expressly conditional on compliance by the permittee with all terms and conditions of the permit hereinafter set forth.

DRAFT	DRAFT	
Brian A. Dudley, Chief	Date	
Wastewater Management – Cape and Islands		

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:

Effluent Characteristics	Discharge Limitations
Flow to sand beds 1-13	450,000 GPD annual average
	800,000 GPD maximum day
Flow to sand beds 14-15	260,000 GPD annual average
	470,000 GPD maximum day
Oil and grease	15 mg/l
Total Suspended Solids (TSS)	30 mg/l
Total Nitrogen (NO ₂ + NO ₃ + TKN)	10 mg/l daily maximum and best efforts to meet an annual average concentration of 3 mg/l
Nitrate-Nitrogen	10 mg/l and best efforts to meet an annual average concentration of 3 mg/l
Cumulative Nitrogen Annual Load within the West Falmouth Harbor watershed	4,109 pounds per calendar year
Biochemical Oxygen Demand, 5-day @20°C (BOD ₅)	30 mg/l
Fecal Coliform	200 colonies/100mL

- a. Annual average flow shall be determined as the average of the daily flows for the calendar year measured from January 1 to December 31.
- b. Annual load shall be cumulative amount of nitrogen discharged from the wastewater treatment facility during the calendar year measured from January 1 to December 31. The obligation to exercise best efforts to limit the annual nitrogen load to 4,109 pounds assumes that the sewer is not extended within the West Falmouth Harbor Watershed.

- c. The pH of the effluent shall not be less than 6.5 nor greater than 8.5 at any time or not more than 0.2 standard units outside the naturally occurring range.
- d. 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.
- e. The monthly average concentration of BOD and TSS in the discharge shall not exceed 15 percent of the monthly average concentrations of BOD and TSS in the influent into the permittee's wastewater treatment facility.
- f. When the average annual flow exceeds 80 percent of the permitted flow limitations, the permittee shall submit a report to the Department describing what steps the permittee will take in order to remain in compliance with the permit limitations and conditions, inclusive of the flow limitations established in this permit.
- g. The Town shall submit semi-annually a list of all new or increased wastewater discharges to the facility permitted by the Town over the previous six month period for sources located outside the West Falmouth Harbor Watershed as provided herein.

B. Monitoring and Reporting

1) **INFLUENT:**

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

Parameter	Minimum Frequency of Analysis	Sample Type
BOD ₅	Monthly	24-Hour Composite
Total Suspended Solids	Monthly	24-Hour Composite
Total Solids	Monthly	24-Hour Composite
Ammonia Nitrogen	Monthly	24-Hour Composite
Total Nitrogen (NO ₂ + NO ₃ + TKN)	Monthly	Calculated
Nitrate Nitrogen	Monthly	24-Hour Composite
Nitrite Nitrogen	Monthly	24-Hour Composite
Total Kjeldahl Nitrogen (TKN)	Monthly	24-Hour Composite

2) <u>EFFLUENT:</u>

The permittee shall monitor and record the quality and quantity of **effluent** at the effluent distribution structure to the leaching areas according to the following schedule and other provisions:

Parameter	Minimum Frequency of Analysis	Sample Type
Flow to sand beds 1-13	Daily	Meter reading
		Report: Min – Max - Average
Flow to sand beds 14-15	Daily	Meter reading
		Report: Min – Max - Average
Flow to Spray Irrigation	Daily	Meter reading
		Report: Min – Max - Average
pН	Daily	Grab
UV Intensity	Daily	Continuous
Total Suspended Solids	Monthly	24-Hour Composite
Total Solids	Monthly	24-Hour Composite
Oil & Grease	Monthly	Grab
BOD ₅	Monthly	24-Hour Composite
Nitrate Nitrogen	Weekly	24-Hour Composite
Nitrite Nitrogen	Weekly	24-Hour Composite
Total Kjeldahl Nitrogen (TKN)	Weekly	24-Hour Composite
Total Nitrogen (NO ₂ + NO ₃ + TKN)	Weekly	Calculated
Cumulative Nitrogen Annual Load	Annually	Calculated
Fecal Coliform	Monthly	Grab

Total Phosphorus (as P)	Quarterly	Grab
Orthophosphate (as P)	Quarterly	Grab
Volatile Organic Compounds	Annually	Grab

- a. After one full year of monitoring the Total Phosphorus and Orthophosphate results, the Department may determine, upon the request of the permittee, that the frequency of monitoring may be reduced if, in the judgment of the Department, the results of the sampling indicate that existing phosphorus levels will not adversely impact downgradient receptors. If the Department reduces the frequency of monitoring for Total Phosphorus and Orthophosphate, the Department reserves the right to resume more frequent monitoring if the Department determines that phosphorus levels are impacting downgradient receptors.
- As set forth below, the permittee shall monitor, record and report the quality of water in the approved upgradient monitoring wells, MW-1a and GHD-1 and downgradient monitoring wells MW-2a, MW-P4, MW-10, MW-13, MW-19, GHD -4A, GHD-4B, GHD-5A, GHD5B, GHD-6A and GHD-6B. Additionally, the permittee shall monitor, record and report the quality of water in the following approved downgradient monitoring wells GHD-3A, GHD-3B, GHD-2 and MW-4. These wells shall be monitored in accordance with the procedures developed in the following approved reports:
 - a. Sampling and Analytical Procedures for Falmouth Wastewater Treatment Plant Sampling Program, Camp Dresser & McKee, Inc., One Center Plaza, Boston, MA 02108, May 1984, Revised November 1986.
 - b. Town of Falmouth Site 7, Hydrogeological Evaluation Report Modified Monitoring Plan. GHD, Inc., 1545 Iyannough Road, Hyannis, MA 02601, September 2, 2014.

according to the following schedule and other provisions:

Parameter	Frequency of Analysis
Static Water Level	Monthly
Specific Conductance	Monthly
рН	Monthly
Total Nitrogen (NO ₂ +NO ₃ +TKN)	Quarterly
Nitrate-Nitrogen	Quarterly

Total Phosphorus (as P)	Quarterly
Orthophosphate (as P)	Quarterly
Total Organic Carbon (TOC)	Annually
Volatile Organic Compounds	Annually

- a. Static Water Level shall be expressed as an elevation and shall be referenced to the surveyed datum established for the site. It shall be calculated by subtracting the depth to the water table from the surveyed elevation of the top of the monitoring well's PVC well casing/riser.
- b. After one full year of monitoring the Total Phosphorus and Orthophosphate results, the Department may determine, upon the request of the permittee, that the frequency of monitoring may be reduced if, in the judgment of the Department, the results of the sampling indicate that existing phosphorus levels will not adversely impact downgradient receptors. If the Department reduces the frequency of monitoring for Total Phosphorus and Orthophosphate, the Department reserves the right to resume more frequent monitoring if the Department determines that phosphorus levels are impacting downgradient receptors.
- 4) The Permittee shall monitor and sample water quality at Station PWF5 (Snug Harbor) as identified in the Massachusetts Estuaries Project technical report titled "Linked Watershed Embayment Model to Determine Critical Nitrogen Loading Thresholds for West Falmouth Harbor, Falmouth, Massachusetts" according to the following schedule:

	Parameter	Sample Type
Twice a month during July - September	Particulate Organic Nitrogen (PON), Dissolved Organic Nitrogen (DON), Dissolved Inorganic Nitrogen (DIN), Total Nitrogen, DO, Chlorophyll, Secchi Depth, salinity	Grab/Observation

- 5) 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. All composite samples shall be taken over the operating day.
- 6) The Town shall conduct the following testing for the purpose of monitoring any impact of the Site 7 discharge on groundwater that flows through Crocker Pond and flows toward Herring Brook.
 - a. Crocker Pond surface water sampling shall be performed in accordance with the following schedule:

7)

Parameter	Minimum Frequency of Analysis	Sample Type
Total Phosphorous, Total	3 times Annually: once during	Grab at 2 depths: (1) surface
Inorganic Nitrogen, Total	July, once during August, once	and (2) 5 to 7 meters below
Organic Nitrogen,	during September	surface
Chlorophyll a		
Secchi Depth	Same as above	Observation
Dissolved Oxygen,	Same as above	Through the pond profile at
temperature, pH, specific		2-meter intervals
conductance		

- b. The Town shall sample groundwater monitoring wells GHD-1, GHD-4A and B, GHD-5A and B, GHD-6A and B, GHD-2, and GHD-3A and B as identified in the Town of Falmouth Site 7, Hydrogeological Evaluation Report Modified Monitoring Plan referenced in Modified Individual Groundwater Discharge Permit Special Condition I.B.2.b of this Permit.
- c. The Town shall install three groundwater monitoring wells, MW-A, MW-B, and MW-C, north west of Crocker Pond, the precise locations of which shall be selected for the purpose of intercepting the groundwater from Site 7 as it passes from Crocker Pond and flows toward Herring Brook. The Town shall install these wells when the quarterly monitoring of the groundwater monitoring wells GHD-3 A and B and GHD-2 show a Boron concentration of >6μM or a Nitrate concentration of >.75mg/L.
- d. Once the Town installs wells MW-A, MW-B, MW-C, the Town shall collect two years of quarterly, baseline water quality sampling from them and shall continue to sample them quarterly thereafter for the term of this Permit.
- e. The Site 7 discharge will be considered to have passed through Crocker Pond when the quarterly monitoring of the groundwater monitoring wells MW-A, MW-B, and MW-C show a Boron concentration of >6μM or a Nitrate concentration of >.75mg/L.
- 6) If the monitoring program described in paragraph 5, above shows an increase in nitrogen flowing toward Herring Brook as a result of the discharge at Site 7, the Town shall develop a nitrogen offset plan ("Nitrogen Offset Plan"), in connection with the "Amount of Nitrogen Added to Herring Brook" that shall be calculated as follows:
 - a. Calculate the "Nitrogen Increase." The Nitrogen Increase shall be the difference between (i) the average baseline nitrogen concentrations identified in wells MW-A, MW-B, and MW-C pursuant to the sampling identified in paragraph 5(d) above, and (ii) the average nitrogen concentration measured quarterly over a twenty-four month period after the Site 7 discharge is considered to have reached groundwater monitoring wells MW-A, MW-B, and MW-C pursuant to paragraph, 5(e) above.

- b. <u>Calculate the "Post Crocker Pond Nitrogen Load."</u> Multiply the Nitrogen Increase by 15% of the average daily wastewater discharge volume to Site 7 calculated over the most recent 12 months.
- c. <u>Calculate/Quantify the Amount of Nitrogen Added to Herring Brook.</u> Multiply the Post Crocker Pond Nitrogen Load by 60% to account for attenuation that results when the groundwater with the nitrogen from Site 7 travels from the wells identified in paragraph 5(c), above, to Herring Brook.

The Amount of Nitrogen Added to Herring Brook shall be calculated annually thereafter to account for changes in nitrogen concentration and wastewater volume discharge to Site 7.

- 8) If the monitoring program described in Paragraph 5, and the calculation of nitrogen increase described in paragraph 6, above shows an increase in nitrogen load to Herring Brook as a result of the discharge at Site 7, the Town, MassDEP shall undertake the following process:
 - a. First, the Town shall develop a plan for offsetting the Amount of Nitrogen Added to Herring Brook at a ratio at or greater than 1:1 ("Nitrogen Offset Plan"), shall make the Nitrogen Offset Plan available for comment, and shall submit the Nitrogen Offset Plan to MassDEP for review and, if appropriate, approval, within twelve months after the Amount of Nitrogen Added to Herring Brook is first calculated/quantified.
 - b. Second, MassDEP will consider comments and determine, at its discretion, a schedule and process for the Town to implement of and comply with the Herring Brook Nitrogen Offset Plan, either through amendment of the then current Groundwater Discharge Permit or in future permits for the WWTF.

The permittee shall submit all monitoring reports within 30 days of the last day of the reporting month to MassDEP and to the Falmouth Board of Health, 59 Town Hall Square, Falmouth, Massachusetts 02540. All discharge monitoring reports submitted to MassDEP must be submitted through eDEP. To register for electronic submission go to: http://www.mass.gov/eea/agencies/massdep/service/online/edep-online-filing.html

C. Supplemental Conditions

- 1. A staffing plan for the facility shall be submitted to the Department once every two years and whenever there are staffing changes. The staffing plan shall include the following components:
 - a. The operator(s)'s name(s), operator grade(s) and operator license number(s);
 - b. The number of operational days per week;
 - c. The number of operational shifts per week;
 - d. The number of shifts per day;
 - e. The required personnel per shift;
 - f. Saturday, Sunday and holiday staff coverage;

- g. Emergency operating personnel
- 2. The permittee is responsible for the operation and maintenance of all sewers, pump stations, and treatment units for the permitted facility, which shall be operated and maintained under the direction of a properly certified wastewater operator.
- 3. Operation and maintenance of the proposed facility must be in accordance with 314 CMR 12.00, "Operation and Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Discharges", and, 257 CMR 2.00, "Rules and Regulations for Certification of Operators of Wastewater Treatment Facilities".
 - a. The facility has been rated (in accordance with 257 CMR 2.00), to be a Grade 6 facility. Therefore, the permittee shall provide for oversight by a Massachusetts Certified Wastewater Treatment plant operator (Chief Operator) Grade 6 or higher. The permittee will also provide for a backup operator who shall possess at least a valid Grade 6 license.
 - b. The date and time of the operator's inspection along with the operator's name and certification shall be recorded in the log book on location at the treatment facility. All daily inspection logs consistent with the O&M Manual requirements shall be kept at the facility for a period of three (3) years.
 - c. Records of operation of wastewater treatment facilities or disposal systems required by the Department shall be submitted on forms supplied by the Department or on other forms approved by the Department for such use. Monthly reports shall be certified by the wastewater treatment plant operator in charge and shall be included in the discharge monitoring reports submitted each month.
- 4. If the operation and maintenance of the facility is to be contracted to a private concern, the permittee shall submit a copy of the contract, consistent with what is required by the approved Operation & Maintenance manual and signed only by the contractor, to the appropriate MassDEP Regional Office for review and approval ninety (90) days **prior** to the start up of the facility. Along with the contract, a detailed listing of all contract operation obligations of the proposed contractor at other facilities shall also be submitted. The permittee shall not begin operation of the treatment facility until the Department approves the contract.
- 5. All tests or analytical determinations to determine compliance with permit standards and requirements shall be done using tests and procedures found in the most recent version of *Standard Methods for the Examination of Water and Wastewater* and shall be performed by a Massachusetts Certified laboratory.
- 6. The permittee shall contract to have any and all solids and sludges generated by the treatment system for which this permit is issued removed off site by a properly licensed waste hauler for disposal at an EPA/MassDEP approved facility. The name and license number of the hauler along with the quantity of wastes removed and the date(s) of removal shall be reported by the permittee in writing to the appropriate MassDEP Regional Office.

- 7. Prior to 2020 the permittee shall submit two reports to the Department for its review and approval:
 - a. An engineering report, prepared by a registered professional engineer, that outlines in sufficient detail what modifications (if any) to the facility or other changes are required to insure that the facility can remain in compliance with its GWDP and other applicable requirements through the next 5 year permit term (year 2025) and beyond; and
 - b. A financial plan that contains the cost estimates for implementing the facility modifications or other changes identified in the engineering report, and describes and demonstrates, how and when the permittee will finance the needed facility modifications or other changes.
- 8. In the event that effluent limits are not met, or the discharge is determined to impair groundwater quality in accordance with 314 CMR 5.16(1), the permittee may be obligated to modify, supplement or replace the permitted treatment process so as to ensure that the discharge does not impair the ability of the groundwater to act as an actual or potential source of potable water.

D. Appeal Rights

During the thirty (30) day period following issuance of this permit, a Notice of Claim for an Adjudicatory Appeal may be sent by any person aggrieved (the "Petitioner") by the issuance to:

Case Administrator
Office of Appeals and Dispute Resolution
Department of Environmental Protection
One Winter Street/2nd Floor
Boston, MA 02108

310 CMR 1.01(6)(b) requires the Notice of Claim to: include sufficient facts to demonstrate aggrieved person status; state the facts which are grounds for the appeal specifically, clearly and concisely; and, state relief sought. The permit shall become or remain effective at the end of the 30 day appeal period unless the person filing the Notice of Claim requests, and is granted, a stay of its terms and conditions. If a permit is modified under 314 CMR 2.10, only the modified terms and conditions may be subject to an Adjudicatory Appeal. All other aspects of the existing permit shall remain in effect during any such Adjudicatory Appeal.

Per 310 CMR 4.06, the hearing request to the Commonwealth will be dismissed if the filing fee is not paid. Unless the Petitioner is exempt or granted a waiver, a valid check payable to the Commonwealth to Massachusetts in the amount of \$100.00 must be mailed to:

Commonwealth of Massachusetts Department of Environmental Protection P.O. Box 4062 Boston, MA 02211 The filing fee is not required if the Petitioner is a city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority effective January 14, 1994, or any municipal housing authority; or, per MGL 161A s. 24, the Massachusetts Bay Transportation Authority. The Department may waive the adjudicatory hearing filing fee for a Petitioner who shows that paying the fee will create an undue financial hardship. A Petitioner seeking a waiver must file, along with the hearing request, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

E. Section 61 Findings

The Draft Targeted Watershed Management Plan (TWMP) for Great pond, which is anticipated to be filed in 2022, shall include draft Section 61 Findings for each permit or other approval to be issued by State Agencies.

II. GENERAL PERMIT CONDITIONS

5.16: General Conditions

The following conditions apply to all individual and general permits:

- (1) No discharge authorized in the permit shall cause or contribute to a violation of 314 CMR 4.00: Massachusetts Surface Water Quality Standards. Upon promulgation of any amended standard, the permit may be modified to comply with such standard in accordance with the procedures in 314 CMR 2.10: Modification, Suspension, Revocation and Renewal of Permits and General Permit Coverage and 314 CMR 5.12. Except as otherwise provided in 314 CMR 5.10(3)(c), 5.10(4)(a)2. and 5.10(9), no discharge authorized in the permit shall impair the ability of the ground water to serve as an actual or potential source of potable water. Evidence that a discharge impairs the ability of the ground water to serve as an actual or potential source of potable water includes, without limitation, analysis of samples taken in a downgradient well that demonstrates one or more exceedances of the applicable water quality based effluent limitations set forth in 314 CMR 5.10. In those cases where it is shown that a measured parameter exceeds the applicable water quality based effluent limitations set forth in 314 CMR 5.10 at the upgradient monitoring well, evidence that a discharge impairs the ability of the ground water to serve as an actual or potential source of potable water is deemed to exist if a measured parameter in any downgradient well exceeds the level of that same measured parameter in the upgradient well for the same sampling period. A statistical procedure approved by the
- (2) <u>Duty to Comply.</u> The permittee shall comply at all times with the terms and conditions of the permit, 314 CMR 5.00, M.G.L. c. 21, §§ 26 through 53, and all applicable state and federal statutes and regulations.

Department shall be used to determine when a measured parameter exceeds the allowable level.

- (3) <u>Standards and Prohibitions for Toxic Pollutants</u>. The permittee shall comply with effluent standards or prohibitions established by § 307(a) of the Federal Act, 33 U.S.C. § 1317(a), for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (4) <u>Proper Operation and Maintenance</u>. The permittee shall at all times properly operate and maintain all facilities and equipment installed or used to achieve compliance with the terms and conditions of the permit, 314 CMR 12.00: *Operation and Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Discharges*, and 257 CMR 2.00: *Certification of Operators of Wastewater Treatment Facilities*. All equipment shall be maintained in an acceptable condition for its intended use.
- (5) Duty to Halt or Reduce Activity. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production, discharges, or both, until the facility is restored or an alternative method of treatment is provided. A permittee may not raise as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

- (6) <u>Power Failure</u>. In order to maintain compliance with the effluent limitations and prohibitions of the permit, the permittee shall either:
 - (a) provide an alternative power source sufficient to operate the wastewater control facilities; or
 - (b) halt, reduce or otherwise control production or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
- (7) <u>Duty to Mitigate</u>. The permittee shall take all reasonable steps to minimize or prevent any adverse impact on human health or the environment resulting from non-compliance with the permit. Additionally, the permittee shall take all necessary steps to prevent an operational upset of the PWTF or POTW.
- (8) <u>Duty to Provide Information</u>. The permittee and any operator of the permitted facility shall furnish to the Department within a reasonable time as specified by the Department any information which the Department may request to determine whether cause exists for modifying, suspending, revoking and reissuing, or terminating the permit, or to determine whether the permittee is complying with the terms and conditions of the permit.
- (9) <u>Inspection and Entry</u>. The permittee shall allow the Department or its authorized representatives to:
 - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records required by the permit are kept;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (c) Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit; and
 - (d) Sample or monitor at reasonable times for the purpose of determining compliance with the terms and conditions of the permit.
- (9A) The permittee shall physically secure the treatment works and monitoring wells and limit access to the treatment works and monitoring wells only to those personnel required to operate, inspect and maintain the treatment works and to collect samples.
- (9B) The permittee shall identify each monitoring well by permanently affixing to the steel protective casing of the well a tag with the identification number listed in the permit.
- (10) <u>Monitoring</u>. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 unless other test procedures are specified in the permit.
- (11) <u>Recordkeeping</u>. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and all records of all data used to complete the application for the permit, for a period of at least five years from the

date of the sample, measurement, report or application. This period may be extended by request of the Department at any time. Records of monitoring information shall include without limitation:

- (a) The date, exact place, and time of sampling or measurements;
- (b) The individual(s) who performed the sampling or measurement;
- (c) The date(s) analyses were performed;
- (d) The individual(s) who performed the analyses;
- (e) The analytical techniques or methods used; and
- (f) The results of such analyses.
- (12) <u>Prohibition of Bypassing</u>. Except as provided in 314 CMR 5.16(13), bypassing is prohibited and the Department may take enforcement action against a permittee for bypassing unless:
 - (a) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notice of the bypass to the Department:
 - 1. In the event of an anticipated bypass, at least ten days in advance, if possible; or
 - 2. In the event of an unanticipated bypass, as soon as the permittee has knowledge of the bypass and no later than 24 hours after its first occurrence.
- (13) <u>Bypass not Exceeding Limitations</u>. The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if necessary for the performance of essential maintenance or to assure efficient operation of treatment facilities.
- (14) <u>Permit Actions</u>. The permit may be modified, suspended, or revoked for cause. The filing of a request by the permittee for a permit modification, reissuance, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition.
- (15) <u>Duty to Reapply</u>. If the permittee wishes to continue an activity regulated by the permit after the expiration date of the permit, the permittee must apply for and obtain a new permit. The permittee shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department in writing.
- (16) <u>Property Rights</u>. The permit does not convey any property rights of any sort or any exclusive privilege.
- (17) Other Laws. The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, nor does it relieve the permittee of its obligation to comply with any other applicable Federal, State, or local law, or regulation.
- (18) Oil and Hazardous Substance Liability. Nothing in the permit shall be construed to

preclude the institution of any legal action or relieve the permittee of any responsibilities, liabilities, or penalties to which the permittee is or may be subject under § 311 of the Federal Act, 33 U.S.C. § 1321, and M.G.L. c. 21E.

(19) <u>Removed Substances</u>. Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed in a manner consistent with applicable Federal and State laws and regulations including, but not limited to, the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26 through 53, and the Federal Act, 33 U.S.C. § 1251 *et seq.*, the Massachusetts Hazardous Waste Management Act, M.G.L. c. 21C, and the Federal Resource Conservation and Recovery Act, 42 U.S.C. § 6901, *et seq.*, 310 CMR 19.000: *Solid Waste Management* and 310 CMR 30.000: *Hazardous Waste*.

(20) Reporting Requirements.

- (a) Monitoring Reports. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) at the intervals specified in the permit. If a permittee monitors any pollutant more frequently than required by the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Beginning on December 2, 2017, a permittee shall submit all DMRs electronically, using the electronic reporting system designated by the Department. A permittee may seek a waiver of this requirement by submitting a written request for the Department's approval.
- (b) <u>Compliance Schedules</u>. Reports of compliance or non-compliance with, or any progress reports on interim and final requirements contained in any compliance schedule in the permit shall be submitted no later than 14 days following each schedule date.
- (c) <u>Planned Changes</u>. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility or activity which could significantly change the nature or increase the quantity of pollutants discharged. Unless and until the permit is modified, any new or increased discharge in excess of permit limits or not specifically authorized by the permit constitutes a violation.
- (d) <u>Anticipated Non-compliance</u>. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in non-compliance with permit requirements.
- (e) 24 Hour Reporting. The permittee shall report any non-compliance which may endanger health or the environment. Any information shall be communicated orally within 24 hours of the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance. The following shall be included as information which must be reported within 24 hours:
 - 1. Any unanticipated bypass which exceeds any effluent limitation in the permit; and
 - 2. Any violation of a maximum daily discharge limitation for any of the pollutants required by the permit to be reported within 24 hours.

- (f) Other Non-compliance. The permittee shall report all instances of non-compliance not reported under 314 CMR 5.16(20)(a), (b), or (e) at the time monitoring reports are submitted. The reports shall contain the information listed in 314 CMR 5.16(20)(e).
- (g) <u>Toxics</u>. All manufacturing, commercial, mining, or silvicultural dischargers must notify the Department as soon as they know or have reason to believe:
 - 1. That any activity has occurred, or will occur, that would result in the discharge of any toxic pollutant listed in 314 CMR 3.17: *Appendix B Toxic Pollutants* not limited by the permit, if that discharge will exceed the highest of the following notification levels:
 - a. 100 micrograms per liter (100 ug/l);
 - b. 200 micrograms per liter (200 ug/l) for acrolein and acrylonitrile, 500 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;
 - c. Five times the maximum concentration value reported for that pollutant in the permit application; or
 - 2. 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.
- (h) <u>Indirect Dischargers</u>. All Publicly Owned Treatment Works shall provide adequate notice to the Department of the following:
 - 1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to § 301 or § 306 of the Federal Act, 33 U.S.C. § 1311 or 1316, if it were directly discharging those pollutants; and
 - 2. Any substantial change in the volume or character of pollutants being introduced into the POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- (i) <u>Information</u>. Where a permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit the relevant facts or correct information.
- (j) The permittee shall notify the Department in writing within seven days of any change in contract operators.
- (21) <u>Signatory Requirement</u>. All applications, reports, or information submitted to the Department shall be signed and certified in accordance with 314 CMR 5.14 and 5.15.
- (22) <u>Severability</u>. The provisions of the permit are severable. If any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.
- (23) Reopener Clause. The Department reserves the right to make appropriate revisions to the permit to establish any appropriate effluent limitations, schedules of compliance, or other provisions, as authorized by the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26 through 53, or the Federal Act, 33 U.S.C. § 1251 et seq., to bring all discharges into compliance with these statutes.

(24) <u>Approval of Treatment Works</u>. All discharges and associated treatment works authorized in 314 CMR 5.00 shall remain in compliance with the terms and conditions of the permit. Any modification of the approved treatment works shall require written approval of the Department prior to the construction of the modification.

(25) Transfer of Permits.

- (a) <u>RCRA Facilities</u>. Any permit which authorizes the operation of a RCRA facility subject to the requirements of 314 CMR 8.07: *Standards for all other RCRA Facilities* shall be valid only for the person to whom it is issued and may not be transferred.
- (b) <u>Transfers by Modification</u>. Except as provided in 314 CMR 5.16(25)(a) and (c), a permit may be transferred by the permittee to a new permittee if the permit has been modified or revoked and reissued in accordance with 314 CMR 5.12(2), or a minor modification is made to identify the new permittee in accordance with 314 CMR 5.12(3) and (4).
- (c) <u>Automatic Transfers</u>. For facilities other than Privately Owned Wastewater Treatment Facilities (PWTFs) that treat at least some sewage from residential uses, hospitals, nursing or personal care facilities, residential care facilities, or assisted living facilities, PWTFs that have been required to establish, fund and maintain financial assurance mechanism(s) pursuant to 314 CMR 5.15(6), and RCRA facilities subject to the requirements of 314 CMR 8.07: *Standards for all other RCRA Facilities*, a permit may be automatically transferred in accordance with 314 CMR 5.12(5).
- (26) Permit Compliance Fees and Inspection Information. Except as otherwise provided, any permittee required to obtain a ground water discharge permit pursuant to M.G.L. c. 21, § 43, and 314 CMR 5.00 shall submit the annual compliance assurance fee established in accordance with M.G.L. c. 21A, § 18 and 310 CMR 4.00: *Timely Action Schedule and Fee Provisions*, as provided in 314 CMR 2.12: *Applications, Fees and Inspection Information*. The requirement to submit the annual compliance fee does not apply to any local government unit other than an authority. Any permittee required to obtain a ground water discharge permit pursuant to M.G.L. c. 21, § 43 and 314 CMR 5.00, may be required to submit inspection information annually, as provided in 314 CMR 2.12.

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Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Kathleen Theoharides Secretary

> Martin Suuberg Commissioner

Individual Groundwater Discharge Permit Fact Sheet

I. APPLICANT, FACILITY INFORMATION, and DISCHARGE LOCATION

Name and Address of Applicant:

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

Name and Address of Facility where discharge occurs:

154 Blacksmith Shop Road, Falmouth, Massachusetts

Discharge Information:

Groundwater Discharge Permit Number: 168 - 6

The Groundwater Discharge Permit will allow the applicant to continue to discharge 710,000 gallons per day annual average and 1,270,000 gallons per day maximum day of treated sanitary wastewater. The discharge is not within the Zone II wellhead protection area of a public water supply.

II. LIMITATIONS AND CONDITIONS

Discharge permit limitations are as listed in the ground water permit and are in conformance with 314 CMR 5.00, the Groundwater Discharge Permit Program.

III. PERMIT BASIS AND EXPLANATION OF EFFLUENT LIMITATIONS

An Individual Groundwater Discharge permit is required for this discharge in accordance with the Massachusetts Clean Water Act, M.G.L. c. 21, s. 26-53 and 314 CMR 5.03.

Effluent limitations are based upon the location of the discharge, the level of treatment, consideration of human health protection criteria and protection of the groundwaters of the Commonwealth.

IV. COMMENT PERIOD, HEARING REQUESTS, AND PROCEDURES FOR FINAL DECISIONS

The public comment period for this permit is thirty (30) days following public notice in *The Environmental Monitor*. The public notice for this Individual Groundwater Discharge Permit occurred on {DATE}.

Requests for an adjudicatory hearing must be submitted within thirty (30) days of the issuance/denial of the permit, by any person who is aggrieved by such issuance/denial.

A final decision on the issuance/denial of this permit will be made after the public notice period, and review of any comments received during this period.

V. STATE CONTACT INFORMATION

Additional information concerning the draft permit may be obtained between the hours of 9:00 a.m. and 5:00 p.m. Monday through Friday excluding holidays, from:

Christos Dimisioris DEP /SERO 20 Riverside Drive Lakeville, MA 02347 (508) 946-2736

DRAFT	DRAFT
Brian A. Dudley, Chief	Date
Wastewater Management - Cape and Islands	

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