

4/13/10
Received

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
ONE CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

Request for General Permit Authorization to Discharge Wastewater
(Notice of Intent to be covered by the General Permit (NOI))

Potable Water Treatment Facility (PWTF)
NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information

1. Facility Owner:

Name City of Fitchburg e-mail dmeunier@ci.fitchburg.ma.us
Street/PO Box 1200 Rindge Rd. City Fitchburg
State MA Zip Code 01420
Contact Person Denis Meunier Telephone Number 978 345 9616

2. Facility Operator (if different from above):

Name _____ e-mail (optional) _____
Street/PO Box _____ City _____
State _____ Zip Code _____
Contact Person _____ Telephone Number _____

3. Facility Data (attach topographic map or other map showing facility and discharge location(s)):

Name Regional Water Filtration Facility e-mail (optional) _____
Street/PO Box 18 Hager Park City Westminster
State MA Zip Code 01473
Contact Person Denis Meunier Telephone Number 978 345 9616
Facility Latitude _____ Facility Longitude _____

4. Standard Industrial Classification (SIC Codes) and Descriptions of Processes:

SIC Code(s) _____
Description(s) Potable Water Treatment Facility

5. Current Permitting Status (please check yes or no):

1. Has a prior NPDES permit been granted for the discharge? Yes ☒ (Permit Number: MAG640039)
No _____
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes _____ No ☒
3. Is the facility covered by an individual NPDES permit? Yes _____ (Permit Number _____) No ☒
4. Is there a pending application on file with EPA for this discharge? Yes _____ (Date of submittal: _____)
_____) No ☒

B. Discharge Information

1. Name of Receiving Waterbody Wyman Pond
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Lake
3. State Water Quality Classification: class B Freshwater: ☒ Marine Water: _____
4. Describe the discharge activities for which the owner/applicant is seeking coverage, including process discharges not specifically authorized in the PWTF GP which need to be authorized for discharge (and which attain the

effluent limits and other conditions of the general permit). This description should include all treatment methods used on the wastewater prior to discharge including lagoons, baffles, filter presses etc. If lagoons are used at the facility, please include the number and size of lagoons; the size and elevation of the entry pipe; the time of travel from the entry point of the discharge into the lagoon to the entry point to the receiving water; and the length of backwash cycle for any combination of number of filters. (attach extra sheets if necessary):

See attached description.

5. Please provide a diagram depicting the treatment methods, outfalls, and receiving water.

6. Number of outfalls: 1 Latitude and Longitude for each outfall (attach additional pages if necessary)

OUTFALL # Latitude 42 32' 30" Longitude 71 54' 00"
OUTFALL # Latitude _____ Longitude _____

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:

C. Effluent Characteristics

1. List here and attach information on any water additives used at the facility (Including chemicals for pH adjustment, dechlorination, control of biological growth, and control of corrosion and scale in water pipes): _____

Poly-aluminum chloride, sodium Bicarbonate, Sodium Hydroxide, Chlorine, Soda Ash, Cationic Polymer

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.

3. Are aluminum-containing coagulants used at this facility? Yes ☒ No ☐

4. Does the discharge contain residual chlorine? Yes ☒ No ☐

5. Does the facility provide treatment to remove arsenic from the raw water source? Yes ☐ No ☒

6. Are phosphorus-containing chemicals added to the treated water at this facility? Yes ☐ No ☒

7. All applicants must attach a separate sheet listing all laboratory results (minimum of five) for total recoverable aluminum (in micrograms per liter) taken within the last six months. Do not include dilution when recording your results. See Section 4.4.5 of General Permit for more information.

8. Please include the following effluent data for each outfall:

Characteristic (report if measured)	Average Monthly	Maximum Daily
Discharge Flow (gpd)	<u>521,360</u>	<u>980,000</u>
TSS (mg/l)	<u>7.2</u>	<u>45</u>
pH (s.u.)	(min) <u>6.43</u>	(max) <u>7.37</u>
Total Recoverable Aluminum (ug/l)	<u>156</u>	<u>340</u>
Total Residual Chlorine (ug/l)	<u>3.33</u>	<u>7.0</u>

(continued on next page)

8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 na and/or C-NOEC na

9. If the discharge contains aluminum and/or residual chlorine, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water, the dilution factor, and attach any calculations used to support stream flow and dilution calculations (See Appendix VII for dilution calculations and additional information):

7Q10 cfs Dilution Factor 10:1 cfs

D. Endangered Species Act Eligibility

1. Using the instructions in Appendix I of the PWTF GP, under which criterion listed in Part II are you eligible for coverage under this general permit?

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

2. If you selected criteria D or F, has consultation with the federal services been completed? Yes ☐ No ☐

3. If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Yes ☐ No ☒

4. Attach documentation of ESA eligibility as described below and required at Part 3.4.1 and Appendix I, Part III, Step 4, of the General Permit.

Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present: A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

Criterion B - Section 7 consultation completed with the Service(s) on a prior project: A copy of the USFWS's and/or NMFS's, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

Criterion C - Activities are covered by a Section 10 Permit: A copy of the USFWS's and/or the NMFS's, as appropriate, letter transmitting the ESA Section 10 authorization.

Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

Criterion E - Activities are covered by certification of eligibility: A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I: A copy of the USFWS and/or the NMFS, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

Attachment

B 4. Discharge information:

We are seeking coverage under the general permit to cover the discharge from backwash and filter rinse water generated in the treatment of potable water. The current operations generates an average flow of 521,360 gallons per day of rinse and back wash water generated by the cleaning of six filters and two clarifiers. The filter and clarifier backwash water is treated to remove solids by passing through two 200,000 gallon lined lagoons. Each basin measures 122 feet long by 68 feet wide by 7 feet deep with 3:1 sloping side walls. The flow enters the basins through a 16" diameter pipe that is at the same elevation as the bottom of the basin. Each basin contains a decant outlet structure consisting of an adjustable weir and an emergency overflow assembly. Peak influent flow rate for any backwash cycle is 4200 gpm. for seven minutes.

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of the PWTf GP, under which criterion listed in Part III are you eligible for coverage under this general permit? 1 ☒ 2 ☐ 3 ☐
2. Have any State or Tribal historic preservation officers been consulted in this determination? Yes ☐ No ☒
If yes, attach the results of the consultation(s).

F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date 4/10/10
Printed Name and Title Lisa Wong

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at www.epa.gov/region1/npdes/pwtfgp.html

CITY OF FITCHBURG
REGIONAL WATER FILTRATION FACILITY
HAGER PARK
WESTMINSTER MA

NPDES PERMIT MAG640039

TOTAL RECOVERABLE ALUMINUM

DATE	RESULTS; (ug/l)
Dec-09	275
Nov-09	165
Oct-09	246
Sep-09	245
Aug-09	70
Jul-09	27
Jun-09	280
May-09	110
Apr-09	30

D. Endangered Species Act Eligibility

4. Criterion A. No federally listed threatened or endangered species or federally-designated critical habitat is present: We believe that this facility is eligible for coverage under the general permit per this criterion. Attached is the most recent listing of threatened and endangered species in Massachusetts listed by Town. Blanding's Turtle is the only species listed for Fitchburg. As part of an environmental review of City owned watershed land completed in 2009 by MA Division of Fish and Wildlife in conjunction with a sale of a conservation restriction, on the subject property and discharge location no endangered species habitat were identified in the area affected by the proposed outfall.


MassWildlife

Massachusetts Division of Fisheries & Wildlife

Wayne F. MacCallum, Director


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Rare Species by Town

MESA (Massachusetts Endangered Species Act) and Federal Status

Quick Links

- » [Town Index](#)
- » [MESA List](#)
- » [Contact Us](#)

E = Endangered T = Threatened SC = Special Concern

Most Recent Observation

This field represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. Natural Heritage does not have the resources to be able to conduct methodical species surveys in each town on a regular basis. Therefore, the fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, Natural Heritage regards records older than twenty-five years historic.

Click on a town below to view MESA-listed species for that town. To print the species for a particular town, highlight the species using your mouse, go to Print under the File Menu, click on 'Selection' under 'Print Range' and click OK.

For more information about a particular species, view the list of [Natural Heritage Fact Sheets](#).

These data were extracted from the database of the Natural Heritage and Endangered Species Program in September 2009.

[Fairhaven](#) |
 [Fall River](#) |
 [Falmouth](#) |
 [Fitchburg](#) |
 [Florida](#) |
 [Foxborough](#) |
 [Framingham](#) |
 [Franklin](#) |
 [Freetown](#)

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
FAIRHAVEN	Bird	Botaurus lentiginosus	American Bittern	E		1993
FAIRHAVEN	Bird	Charadrius melodus	Piping Plover	T	T	2006
FAIRHAVEN	Bird	Sterna dougallii	Roseate Tern	E	E	2008
FAIRHAVEN	Bird	Sterna hirundo	Common Tern	SC		2008
FAIRHAVEN	Bird	Sternula antillarum	Least Tern	SC		2007
FAIRHAVEN	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		1988
FAIRHAVEN	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2005
FAIRHAVEN	Vascular Plant	Dichanthelium dichotomum ssp. mattamuskeetense	Mattamuskeet Panic-grass	E		1990
FAIRHAVEN	Vascular Plant	Polygonum glaucum	Sea-beach Knotweed	SC		2004