

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 Town of Hudson - DPW e-mail hudh20@verizon.net  
Street/PO Box 1 Municipal Dr. City Hudson  
State MA Zip Code 01749  
Contact Person Peter Ferrantino Telephone Number 978 568-9629

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 Gates Pond WTP e-mail (optional) See Pg 8 of 10  
Street/PO Box 172 Gates Pond Rd City Berlin  
State MA Zip Code 01503  
Contact Person Peter Ferrantino Telephone Number 978 568-9629  
Facility Latitude 42° 23.499' N Facility Longitude 071° 35.41' W

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

SIC Code(s) 4941  
Description(s) Water Supply (Municipal) - Potable

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

1. Has a prior NPDES permit been granted for the discharge? Yes  (Permit Number: MAG 40014)  
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 Tributary to Hog Brook (Assabet River Basin)  
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Stream  
3. State Water Quality Classification: \_\_\_\_\_ 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

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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):

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5. Please provide a diagram depicting the treatment methods, outfalls, and receiving water. SEE Pg 7 of 10

6. Number of outfalls: 1 Latitude and Longitude for each outfall (attach additional pages if necessary)  
 OUTFALL # Latitude 42° 23.499' N Longitude 071° 35.411' W  
 OUTFALL # Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:  
Settling Lagoon Outfall. All parameters sampled weekly. Discharge flow Totalized monthly

**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): Alum, Polymer, Sodium Hypochlorite, Potassium Hydroxide, Fluorosilicic Acid

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.  
None known.

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 N/A

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. See Pg 9 of 10

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

<u>Characteristic (report if measured)</u>	<u>Average Monthly</u>	<u>Maximum Daily</u>
Discharge Flow (gpd)	<u>680,000</u>	<u>950,000</u>
TSS (mg/l)	<u>0.3</u>	<u>1.4</u>
pH (s.u.)	(min) <u>6.5</u>	(max) <u>8.3</u>
Total Recoverable Aluminum (ug/l)	<u>0.78 mg/l</u>	<u>1.5 mg/l</u>
Total Residual Chlorine (ug/l)	<u>0</u>	<u>0</u>

(continued on next page)

8. Continued

Characteristic (report if measured)

Not measured

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

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 0.0139 cfs Dilution Factor 1.01 cfs (using maximum discharge of 0.95 mgd)

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. See Pg 10 of 10

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.

**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 Peter Ferrantino Date 1/5/2010  
Printed Name and Title Peter Ferrantino Ch. Op.

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](http://www.epa.gov/region1/npdes/pwtfgp.html)

Town of Hudson, MA  
NPDES General Permit NOI Current Permit No. MAG40014

Sec. B, Item 4

This Permit is for the Town of Hudson, MA Drinking Water Treatment Lagoon Discharge. The following describes our treatment method and lagoon information requested in Section B, Item 4, Appendix IV – NPDES Potable Water Treatment Facility General Permit.

Raw water from Gates Pond Reservoir flows by gravity to the Gates Pond Water Treatment Plant (GPWTP).

Aluminum sulfate and a polymer are mixed with the raw water, which then flows into three (3) Advent Clarifiers for clarification and filtration. Filtered water flows through a common header and is treated with sodium hypochlorite (for disinfection), potassium hydroxide (pH adjustment) and fluorosilicic acid (fluoridation). Treated water then flows into a finished water clearwell. Finished water is pump into the distribution system for consumption by our customers.

Finished water is also used to backwash the filter section of the clarifiers. Backwash water is fed to three (3) settling Lagoons in series via a 16 inch diameter pipe with an invert elevation of 272.33 feet. These lagoons have a volume of 55,320 gallons each. At the maximum flow through the lagoons of 950,000 gallons/day, the backwash waters' travel time through the lagoons to the receiving stream is 5 hours. (Note this is the minimum travel time through the lagoons.)

Town of Hudson, MA NPDES General Permit NOI Current Permit No. MAG40014  
 The following is a schematic of our treatment process and lagoon discharge requested in Section B, Item 5,  
 Appendix IV - NPDES Potable Water Treatment Facility General Permit.

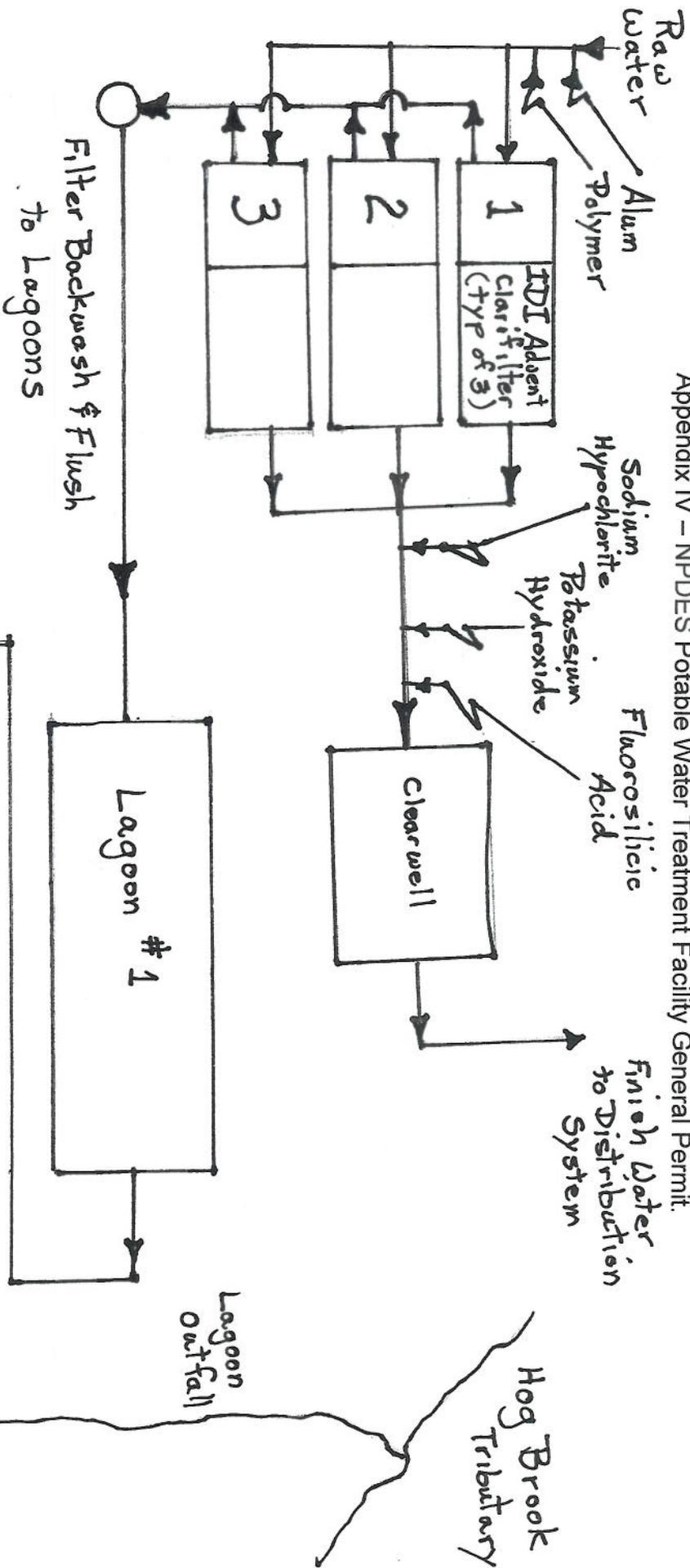




FIGURE 1

~~PROPOSED~~ LOCUS MAP  
GATES POND WATER TREATMENT FACILITY  
BERLIN, MASSACHUSETTS

571344

MAKEPEACE

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W&H

**Appendix IV - NPDES Potable Water Treatment Facility General Permit**  
**GATES POND WATER TREATMENT PLANT**      NPDES Permit No: MAG640014  
**HUDSON, MASSACHUSETTS**                      Discharge Number: 001A

2009 MONTH	Date	AI Total MG/L
December	3	0.160
November	25	0.170
	19	0.160
	12	0.094
	5	0.050
October	29	0.150
	22	0.093
	15	0.090
	8	0.079
	1	0.089



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New England Field Office  
70 Commercial Street, Suite 300  
Concord, New Hampshire 03301-5087  
<http://www.fws.gov/northeast/newenglandfieldoffice>

January 2, 2009

To Whom It May Concern:

This project was reviewed for the presence of federally-listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(<http://www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation.htm>)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes the review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Anthony Tur at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman  
Supervisor  
New England Field Office

**APPENDIX IV  
NOTICE OF INTENT INSTRUCTIONS  
AND SUGGESTED FORMS**

**I. Notice of Intent (NOI) Instructions**

**A. Required Information**

In order to be covered by the Potable Water Treatment Facility General Permit (PWTF GP) applicants must submit a written NOI to EPA and the appropriate state agency. The NOI consists of either the suggested NOI form included in this Appendix or another form of official correspondence that contains all of the required information listed in the General Permit and the suggested NOI form.

**B. Signature Requirements**

The Notice of Intent must be signed and dated in accordance with the signatory requirements of 40 CFR Section 122.22, including the certification statement shown on the suggested NOI form.

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.

**C. Submission of NOI to EPA**

Signed and completed NOI forms and attachments must be submitted to EPA at the address included in Appendix VI. A copy of the NOI form and any additional state required forms must also be submitted to the appropriate state agency at the addresses included in Appendix VI. See Part 4.2 and Appendix VI of the PWTF GP for additional State requirements.