

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 Northampton e-mail nhuntley@nohodpw.org
Street/PO Box 125 Locust St City Northampton
State MA Zip Code 01060
Contact Person Ned Huntley Telephone Number 413-587-1570. X-4301

2. Facility Operator (if different from above):

Name Alex Roseweir e-mail (optional) aroseweir@nohodpw.org
Street/PO Box 137 Mountain St City Haydenville
State MA Zip Code 01039
Contact Person Alex Roseweir Telephone Number 413-268-9420, X-1

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

Name Northampton Water Treatment Plant e-mail (optional) _____
Street/PO Box _____ City Haydenville
State MA Zip Code 01039
Contact Person Alex Roseweir Telephone Number 413-268-9420, X-1
Facility Latitude 42deg. 24min. 29 sec. Facility Longitude 70 deg. 40 min. 23 sec.

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

SIC Code(s) 4941
Description(s) Water Supply

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

1. Has a prior NPDES permit been granted for the discharge? Yes (Permit Number: MAG640034)
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 MAG640034) No _____
4. Is there a pending application on file with EPA for this discharge? Yes _____ (Date of submittal: _____)
No _____

B. Discharge Information

MAR 24 2010

1. Name of Receiving Waterbody Mountain Street Reservoir
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Reservoir
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

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):

Two lagoons alternated yearly, each 3/4 acre in size. Each 155' x 225'

34,875 sq. ft. loading rate 150 baffle wall to create settling.

Backwash cycle changes seasonally.

Entry pipe elevation to lagoons 517'. Entry pipe size 24". Evaluation pipe at reservoir 459.9.

568 GPM flow to lagoons during backwash

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 # 1 Latitude 42 deg. 24 min. 20.419 sec. Longitude 72 deg. 40 min. 17.896 sec.
 OUTFALL # Latitude Longitude

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:
Sample collected @ lagoon outfall. Samples collected weekly on Wednesday's

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):

Sodium carbonate, polymer, aluminum sulfate, sodium hypochlorite

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

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:

<u>Characteristic (report if measured)</u>	<u>Average Monthly</u>	<u>Maximum Daily</u>
Discharge Flow (gpd)	<u>242,400 GPD</u>	<u>511,700 GPD</u>
TSS (mg/l)	<u>2.19 mg/l</u>	<u>5.40 mg/l</u>
pH (s.u.)	<u>(min) 6.62 SU</u>	<u>(max) 7.19 SU</u>
Total Recoverable Aluminum (ug/l)	<u>170 ug/l</u>	<u>270 ug/l</u>
Total Residual Chlorine (ug/l)	<u>9 ug/l</u>	<u>30 ug/l</u>

(continued on next page)

8. Continued

Characteristic (report if measured)

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

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 N/a cfs Dilution Factor 10:1

D. Endangered Species Act Eligibility

1. Using the instructions in Appendix I of the PWF 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.

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of the P WTF 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.

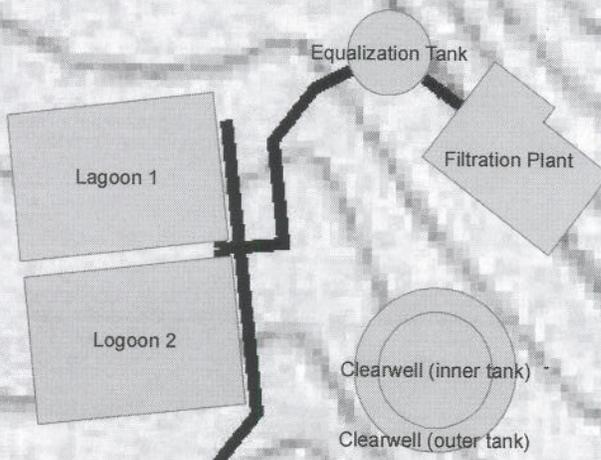
Signature Edward S. Huntley Date 3/22/10
Printed Name and Title EDWARD S. HUNTLEY DIRECTOR OF PUBLIC WORKS

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

WHATELY



WILLIAMSBURG

Lagoon Discharge

Northampton Water Filtration Plant

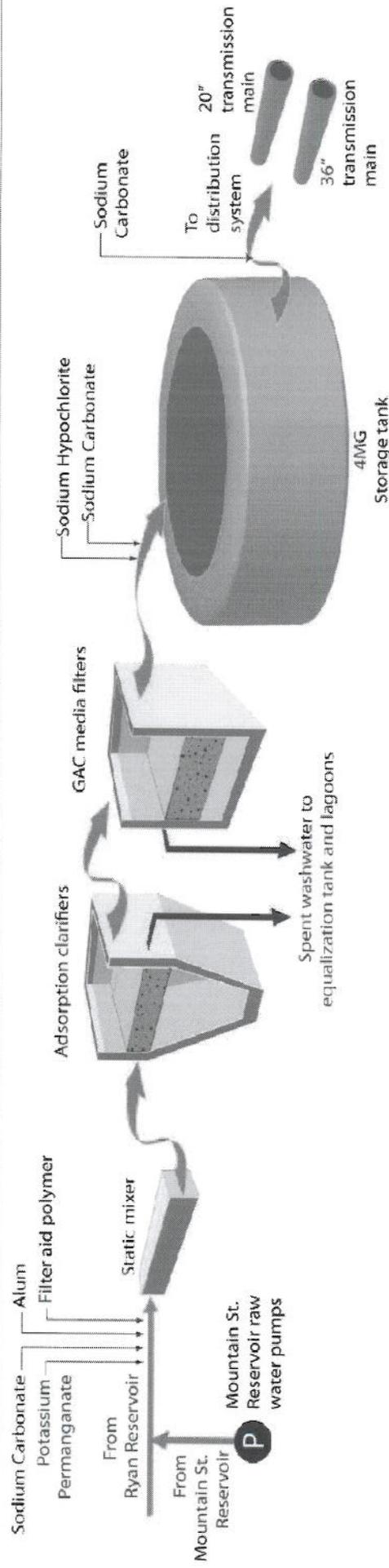
Northampton's Mountain Street Water Treatment Plant

...Treatment for the 21st Century

The Mountain Street Water Treatment Plant uses advanced technology to treat water from the Ryan and Mountain Street Reservoirs. New processes provide consistent and reliable treatment to meet the stringent requirements of the Safe Drinking Water Act.

The City's water system was born in the early 1900's with the construction of the West Whately and Mountain Street Reservoirs. In 1970, the Ryan Reservoir, the largest of the City's reservoirs,

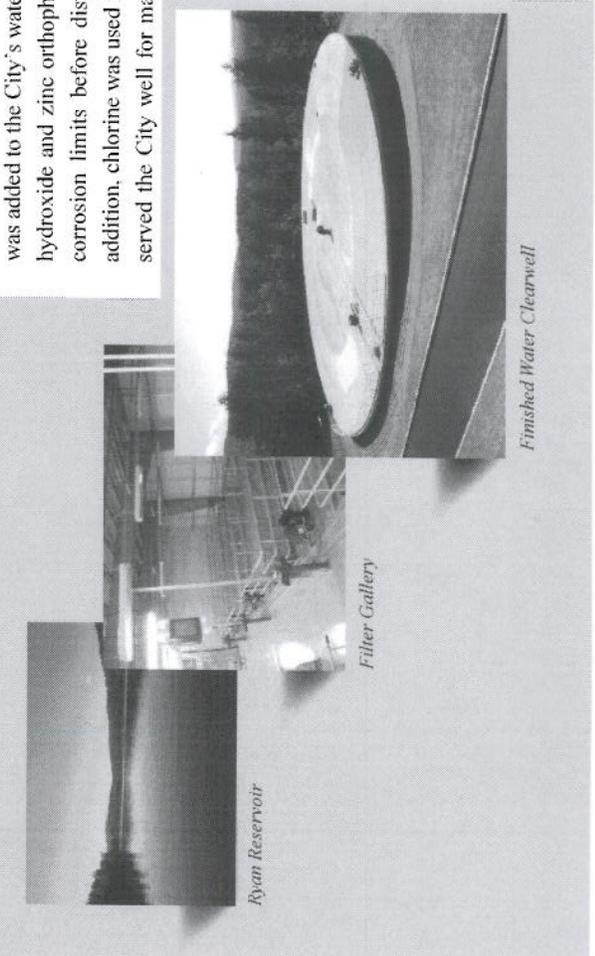
chemically treated water flows upward through buoyant media to remove flocculated particles in the raw water. The clarified water now flows through granular activated carbon (GAC)



was added to the City's water supply system. Historically, sodium hydroxide and zinc orthophosphate, were added to the water for corrosion limits before distribution to the City's customers. In addition, chlorine was used for disinfection. While this system has served the City well for many years, a higher level of treatment required to consistently meet new drinking water regulations.

To meet these regulations, the City of Northampton undertook the construction of the new water treatment plant in 2005. Water from the City's reservoirs enters the plant where it flows through a static mixer to disperse flocculating aids. In the adsorption clarifiers

filters, where the GAC removes suspended matter and organic compounds. The water is disinfected with liquid sodium hypochlorite and stored in the 4 million gallon concrete clearwell, prior to distribution to the City's customers. The new treatment processes are contained within a new operations building, which also houses a state of the art laboratory and a computerized control system that is used to monitor the treatment process from start to finish.



Transmittal #W068283

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cc: Spearin
Hoffman



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Watershed Management, 627 Main Street 2nd Floor, Worcester, MA 01608

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

STEPHEN R. PRITCHARD
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

September 22, 2005

George Andrikidis
Director of Public Works
City of Northampton
125 Locust Street
Northampton, MA 01060

Re: Northampton Water Treatment Facility
NPDES General Permit for Water Treatment Facility Discharges
Transmittal #W068283 MAG640034 Renewal

Dear Mr. Andrikidis:

The Department of Environmental Protection (DEP), Division of Watershed Management, has received your state permit application for the National Pollutant Discharge Elimination System Elimination System (NPDES) General Permit for Water Treatment Facility Discharges. We have reviewed the BRP WM 13 application for administrative completeness and determined that all the application requirements have been fulfilled.

NPDES/Surface Water Discharge Permits are issued jointly by DEP and the U. S. Environmental Protection Agency (US EPA). EPA has not yet issued a new general permit for water treatment plant discharges, however, your coverage will be administratively continued and remains in force as described in Section I.C.2.c of the permit. You will receive written confirmation from BPA.

If you have any questions, please feel free to call me at 508-767-2856 or email kathleen.keohane@state.ma.us.

Very truly yours,

Kathleen Keohane

Kathleen Keohane
Environmental Engineer

Cc: Paul Hogan
Olga Vergara/EPA
Thomas Spearin/Metcalf & Eddy