November 18, 2008

Environmental Protection Agency - NE
Office of Ecosystem Protection (CMU)
Attn: Olga Vergara
1 Congress Street, Suite 1100
Boston, MA 02114-2023

DEP Division of Watershed Management
627 Main Street, 2nd Floor
Worcester, MA 01608

Re: General Permit for Construction Site Dewatering - MAG070000 and BRP WM 10 for Rehabilitation of Water Pumping Stations - Arlington, Boston and Brookline, Massachusetts

Dear Environmental Reviewer:

This is a resubmittal for MAG070238 – Rehabilitation of Water Pumping Stations, MWRA Contract No. 6375, which was previously permitted in December 2005, as required in a letter dated October 6, 2008 from Mr. David M. Webster of EPA to Mr. Francis DePaola of MWRA concerning the Notice of Dewatering General Permit Availability and the New Application Process.

Enclosed is a request for General Permit Coverage for the above referenced project under the NPDES General Permit MAG070000 and the state discharge permit BRP WM 10. The Massachusetts Water Resources Authority (MWRA) is continuing to rehabilitate the following four drinking water pumping stations under the above mentioned contract:

1. Brattle Court Pumping Station (BCPS): 18 Brattle Court, Arlington, MA 02176 (see attached Drawing C-1 & C-2).

2. Hyde Park Pumping Station (HPPS): 761 Hyde Park Avenue, Boston, MA 02136 (see attached Drawing C-6).

3. Reservoir Road Pumping Station (RRPS): Reservoir Road and Boylston Street, Brookline, MA 02146 (see attached Drawing C-10).

4. Spring Street Pumping Station (SSPS): Spring Street & Jason Street, Arlington, MA 02174 (see attached Drawing C-8).

At this time, work at one pumping station, the Belmont Pumping Station, is complete and has been removed from this submittal. The rehabilitation work will modernize these pumping
facilities, replace yard piping and appurtenance structures, establish reliable emergency backup provisions in the event of a mechanical or power failure, improve overall system redundancy within each service area, and provide capability to monitor, control and operate each station unstaffed, remotely, from the Operations and Control Center (OCC) at Chelsea via MWRA’s Supervisory Control and Data Acquisition (SCADA) system.

The rehabilitation work also entails replacing mechanical and electrical equipment nearing the end of its useful life, so that the pumping stations will be secure and properly equipped to meet MWRA’s needs for the next 20 to 30 years. Construction will be undertaken in stages, while the stations remain in service to ensure an adequate water supply is maintained throughout the construction period. Work on this contract began in October 2006 and will be completed in June 2010.

Table 1 summarizes pumping station locations that will require construction dewatering, and Sheet G-1 is attached as a general Locus Plan. Table 1 provides the latitude and longitude, anticipated maximum discharge, and duration information for the access areas. Reduced drawings are attached showing the excavation locations as referenced previously by station. It is anticipated at the locations listed in Table 1, that geotechnical testing may be needed to confirm groundwater depths and knowledge of required excavation locations for appurtenance replacement.

Except for Mill Brook at Brattle Court Pumping Station, all other pump station work is outside of riverfront areas. All discharges will comply with the limitations established in general permits MAG070000 and BRP WM 10. Dewatering pumps will discharge to on-site portable frac-tation-tanks or temporary sediment basins to allow for settling of sediment. Settled water will discharge directly to the public storm water collection system at each site. Drawing C-27 (attached) provides details on sedimentation and erosion control.

A limited Geotechnical exploratory program was conducted for the BPS, HPPS, and SSPS by GZA GeoEnvironmental, Inc. (GZA) in February 1998, which consisted of ten borings. No borings were performed at RRPS. Boring soil samples were screened in the field for volatile organic compounds with no volatile organics detected. Therefore, no laboratory chemical analyses were performed. Ground water levels were observed during drilling. Here too, since no signs of volatiles were indicated during drilling no samples were collected or submitted for laboratory chemical analyzes.

The pump stations are primarily in residential & business districts. All work will be done in areas that have been previously disturbed during the original installation. No impacts to historical or archaeological resources are expected. According to the Massachusetts Natural Heritage Atlas (2000-2001 Edition), there are no Estimated Habitats of Rare Species Wildlife located at these pump stations.
Table 1 – MWRA Rehabilitation of Water Pumping Station

<table>
<thead>
<tr>
<th>No.</th>
<th>Pumping Station</th>
<th>City/Town</th>
<th>Drawing(s)</th>
<th>Latitude - N</th>
<th>Longitude - W</th>
<th>Estimated Maximum Discharge (gpm)</th>
<th>Duration (days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brattle Court</td>
<td>Arlington</td>
<td>C-1 &amp; C-2</td>
<td>42° 25’ 20”</td>
<td>71° 10’ 12”</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>Hyde Park</td>
<td>Boston</td>
<td>C-6</td>
<td>42° 16’ 27”</td>
<td>71° 07’ 14”</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>Reservoir Road</td>
<td>Brookline</td>
<td>C-10</td>
<td>42° 19’ 37”</td>
<td>71° 08’ 52”</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>4</td>
<td>Spring Street</td>
<td>Arlington</td>
<td>C-8</td>
<td>42° 24’ 27”</td>
<td>71° 10’ 02”</td>
<td>10</td>
<td>20</td>
</tr>
</tbody>
</table>
This pump station rehabilitation project is an important public service project, and we would appreciate your timely review of this Request for General Permit Coverage. Thank you for your assistance in this matter. If you have any questions or require additional information please contact me at (617) 305-5714.

Sincerely,

Edward Carpman, P.E.
Project Manager

Attachments: Drawings C-1, C-2, C-6, C-8, C-10, C-27, G-1 (reduced to 11” x 17”)
MA-DEP Transmittal Form X 225094
MA- DEP BRP WM10 Form

cc: David S. Belknap, Black & Veatch
Mary White, MWRA
A. Facility Information

1. Project owner:

Massachusetts Water Resources Authority (MWRA)

Name

2 Griffin Way

Street/PO Box:

Chelsea

City

MA

02150

State

Zip Code

Kevin O'Brien

Contact Person

617-305-5764

Telephone Number

2. Project operator (if different from above):

Name

Street/PO Box:

City

State

Zip Code

Contact Person

Telephone Number

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

MWRA - Rehabilitation of Five (5) Pumping Stations

Name

Various - (attached letter/drawings)

Street/PO Box

Arlington, Belmont, Boston, Brookline

City

MA

02150

State

Zip Code

617-305-5714

Email address (optional)

E. Carpman

Telephone Number

Contact Person

4. Standard Industrial Code (SIC) and description:

4941

Standard Industrial Code (SIC)

Water Pump Stations

Description

5. Describe any storage of petroleum and chemicals on site:

Gasoline will be present during construction to fuel generators for miscellaneous construction equipment. Gasoline will be stored inside facility, trailer or bermed/lined area. Fuel oil to power emergency generators is also on site.
Massachusetts Department of Environmental Protection  
Bureau of Resource Protection – Watershed Permitting Program  

BRP WM 10  
Request for General Permit Coverage  
Construction Site Dewatering  

A. Facility Information (continued)  

6. Describe the history of land use at the site:  

Land use at the site(s) provide access to MWRA’s pumping facilities. These facilities provide uninterrupted water service to MWRA’s customers.  

B. Effluent Characteristics (Refer to general permit in Federal Register Volume 67, Number 184, September 28, 2002, page 59503-59519)  

<table>
<thead>
<tr>
<th>No. of Discharge Points</th>
<th>Duration</th>
<th>Volume</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 3 &amp; 4</td>
<td>20-days (ea.)</td>
<td></td>
<td>10-gpm</td>
</tr>
<tr>
<td>Outfall No.</td>
<td></td>
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<tr>
<td>Outfall No.</td>
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<tr>
<td>Outfall No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated start and completion dates for construction:</td>
<td>October 2006</td>
<td>June 2010</td>
<td></td>
</tr>
</tbody>
</table>

Description of any wastewater treatment:  

Wastewater will be treated by settling/filtration to remove TSS to meet permit standards (50/100 mg/L). No other pollutants are known or suspected in the groundwater.  

Receiving waterbody:  

Discharges will be directed to public storm water collection system if available, or temporary sedimentation basins or sedimentation tanks  

Is the site located within Indian country?  

☐ Yes  ☒ No  

Are any listed or proposed threatened or endangered species or designated critical habitat in proximity to the discharge site?  

☐ Yes  ☒ No  

Was the US Fish & Wildlife Service and/or the National Marine Fisheries Service contact in determining eligibility under the Endangered Species Act requirements? If yes, submit copy of written concurrence, where applicable.  

☐ Yes  ☒ No
B. Effluent Characteristics (continued)

Is any historic property listed or eligible for listing on the National Register of Historic Places located on the facility or in proximity to the discharge?  
☐ Yes  ☐ No

Was the State Historic Preservation Officer or Tribal Historic Preservation Officer contacted in determining eligibility?  
☐ Yes  ☐ No

C. Certification

I certify that each discharge for which I am seeking coverage under the general permit consists solely of effluent from discharges from the construction dewatering activities; and, based on the instruction at 1.C.1.c, Limitations of Coverage, I have met the eligibility criteria under the Endangered Species Act and the National Historic Preservation Act. 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  
Kevin F. O'Brien, Director, Wastewater Engineering, MWRA

Printed Name and Title

NOI Preparer:

MWRA

Name

2 Griffin Way

Address

MA 02150

City

State

Edward Carpmen

Contact Person

Chelsea

City

617.305.5714

Telephone Number
1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

   MassDEP
   P.O. Box 4062
   Boston, MA 02211

* Note: For BWSC Permits, enter the LSP.

A. Permit Information

   BRP WM 10
   1. Permit Code: 7 or 8 character code from permit instructions
   2. Name of Permit Category
   3. Type of Project or Activity
   4. DEWATERING GENERAL PERMIT

B. Applicant Information – Firm or Individual

   Massachusetts Water Resources Authority (MWRA)
   1. Name of Firm - Or, if party needing this approval is an individual enter name below:
   2. Last Name of Individual
   3. First Name of Individual
   4. MI
   5. Street Address
   6. City/Town
   7. State
   8. Zip Code
   9. Telephone #
   10. Ext. #
   11. Contact Person
   12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

   MWRA-Rehabilitation of Water Pumping Stations
   1. Name of Facility, Site Or Individual
   2. Street Address
   3. City/Town
   4. State
   5. Zip Code
   6. Telephone #
   7. Ext. #
   8. DEP Facility Number (if Known)
   9. Federal I.D. Number (if Known)
   10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

   MWRA
   1. Name of Firm Or Individual
   2. Griffin Way
   3. Address
   4. State
   5. Zip Code
   6. Telephone #
   7. Ext. #
   8. Edward G. Carpenter
   9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

   1. Is this project subject to MEPA review? ☐ yes ☒ no
   2. If yes, enter the project’s EOA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

F. Amount Due

   DEP Use Only
   1. ☐ Fee Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
   2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
   3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
   4. ☐ Homeowner (according to 310 CMR 4.02).

   Permit No:
   1. ☐ Fee Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
   2. There are no fee exemptions for BWSC permits, regardless of applicant status.
   3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
   4. ☐ Homeowner (according to 310 CMR 4.02).

   Reviewer: 217315
   Check Number
   $385.00
   Date: 11/13/08
   Dollar Amount
   NPDESdewateringGP5pumpstations-formw • rev. 1/07