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 fracation-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,

[Signature]

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
   MA 02150
   City
   State
   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
   Email address (optional)
   617-305-5714
   Telephone Number
   E. Carpman
   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.
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>
<td></td>
<td></td>
</tr>
<tr>
<td>Outfall No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outfall No.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Estimated start and completion dates for construction:

- Start Date: October 2006
- Completion Date: June 2010

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.1c, 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

State

Edward Carpman

Contact Person

Chelsea

City

02150

Zip Code

617.305.5714

Telephone Number
**Massachusetts Department of Environmental Protection**

Transmittal Form for Permit Application and Payment

---

### A. Permit Information

<table>
<thead>
<tr>
<th>BRP WM 10</th>
<th>Dewatering General Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Permit Code: 7 or 8 character code from permit instructions</td>
<td></td>
</tr>
<tr>
<td>2. Name of Permit Category</td>
<td></td>
</tr>
<tr>
<td>3. Type of Project or Activity</td>
<td></td>
</tr>
</tbody>
</table>

---

### 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:

<table>
<thead>
<tr>
<th>2. Last Name of Individual</th>
<th>3. First Name of Individual</th>
<th>4. MI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Griffin Way</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chelsea</td>
<td>MA</td>
<td>02150</td>
<td>(617) 305-5784</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Kevin O’Brien

<table>
<thead>
<tr>
<th>11. Contact Person</th>
<th>12. e-mail address (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### C. Facility, Site or Individual Requiring Approval

**MWRA-Rehabilitation of Water Pumping Stations**

1. Name of Facility, Site or Individual

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arlington,Belmont,Boston,Brookline</td>
<td>MA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chelsea</td>
<td>MA</td>
<td>02150</td>
<td>(617) 570-5714</td>
<td></td>
</tr>
</tbody>
</table>

Edward Carpman

<table>
<thead>
<tr>
<th>8. Contact Person</th>
<th>9. LSP Number (BWSC Permits only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### E. Permit - Project Coordination

1. Is this project subject to MEPA review? □ yes ☒ no

If yes, enter the project’s EOEIA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEIA File Number

---

### F. Amount Due

**DEP Use Only**

**Special Provisions:**

1. □ Fee Exempt (city, town or municipal housing authority or state agency if fee is $100 or less).

2. □ Hardship Request - payment extensions according to 310 CMR 4.04(6)(c).

3. □ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).

4. □ Homeowner (according to 310 CMR 4.02).

**Reviewer:**

<table>
<thead>
<tr>
<th>217315</th>
<th>$385.00</th>
<th>11/13/08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Number</td>
<td>Dollar Amount</td>
<td>Date</td>
</tr>
</tbody>
</table>

NPDESdewateringGP5pumpstations-formw • rev. 1/07

Page 1 of 1
NOTES:
1. DEMOLITION OF EXISTING TRANSFORMERS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
2. EXCAVATE NEW BENCHMARK PRIOR TO DEMOLITION OR ALTERATION OF EXISTING BENCHMARK.
3. ELEVATIONS ARE BASED ON BOSTON CITY BASE DATUM.
4. REMOVE AND DISPOSE OF EXISTING DRIVEWAY PAVEMENT TO LIMITS OF REPAIRED ELEVATIONS ON DRAWING C-2.
5. HUNTING BLOCKS ASSOCIATED WITH EXISTING PIPELINES TO BE REMOVED.
6. PLUG EXISTING SD LINE AT POINT WHERE IT ENDS THE BUILDING.
7. THE EXISTING PIPING IN THE YARD IS UNRELIABLE. EXISTING DRAINAGE DITCHES OR DEVICES WILL BE REPLACED WITH NEW DRAINAGE DITCHES OR DEVICES.

MASSACHUSETTS
WATER RESOURCES AUTHORITY

REHABILITATION OF
WATER PUMPING STATIONS

BRATTLE COURT PUMPING STATION
FIFTH
DEMOLITION SITE PLAN

CONTRACT NO. 6375
ACCESSION NO. 512819
DRAWING NO. C-1

DESIGNED BY: LAL-DSP
DRAWN BY: SAM
CHECKED BY: JAF
APPROVED BY: DJS

DATE: JULY 2005
SCALE: 1"="10'

6 168
MASSACHUSETTS WATER RESOURCES AUTHORITY

REHABILITATION OF WATER PUMPING STATIONS

BRATILE COURT PUMPING STATION
SITE PLAN - 1

CONTRACT NO. 1 6375
DRAWING NO. C-2

ACCESSION NO. 1 512820

DATE: JULY 2005
SCALE: 1"=10'

DESIGNED BY: UNK
DRAWN BY: UNK
CHECKED BY: UNK
APPROVED BY: UNK

BLACK & VEATCH
BOSTON, MASSACHUSETTS