



To: Robert Lowell, DCR
Division of Engineering
10 Park Plaza
Boston, MA 02116

Date: September 13, 2023

Memorandum

Project #: 15722.00

From: Kelly Siry
Caroline Hampton

Re: Retrofit Opportunities for Stormwater Improvement
Requirement – Permit Year 5 Updates

The NPDES MA MS4 Permit requires that municipalities, including non-traditional permittees like DCR, “*identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs [and/or through the reduction of impervious cover] to reduce the frequency, volume, and pollutant loads of stormwater discharges to and from [DCR’s] MS4.*” (p. 47). This requirement was due in Permit Year 4, i.e. June 30, 2022. In each annual report submitted thereafter, DCR must report the properties where retrofits have been completed and add to the list of properties so an inventory of at least five BMPs is maintained “*until such a time as when the permittee has less than 5 sites remaining*” (p. 48).

The list below documents DCR’s inventory of properties that could be retrofitted for stormwater quality and quantity improvement and the status of location after Permit Year 5 as well as sites which have been retrofitted to include BMPs since Permit Year 4. This list was originally compiled for the Permit Year 4 requirement of documenting 5 facilities that can be retrofitted for BMPs. This memo will continue to be updated in future years as DCR completes projects and identifies new opportunities.

Properties with Retrofit Opportunities

1. Marsh Post Trail Connection – 5 Greenough Blvd, Cambridge – under construction

- The Marsh Post parking lot is being reconstructed and improvements are being made to the shared used path connections at the site.
- An infiltration basin and jellyfish filter unit are proposed to treat stormwater discharging to the Charles River.
- This project is currently in construction and has an estimated project completion date of Fall 2023.

2. Quincy Shore Drive – Quincy Shore Drive, Quincy - future improvements planned

- Improvements are planned for Quincy Shore Drive and DCR will include BMPs as part of future projects with a focus on promoting groundwater recharge. DCR will also look to eliminate drainage interconnections.
- Stormwater BMPs will treat discharges to Quincy Bay.

3. Christian A. Herter Park Master Plan – 1255 Soldiers Field Rd, Boston – design underway

- Stormwater improvements are being incorporated into the Herter Park Parking Lot Redesign project. The project will further evaluate the BMPs proposed in the Master Plan.
- The project is currently in the initial design stage and has a estimated target construction completed date of March 2025.
- Stormwater BMPs will treat discharges to the Charles River.

4. Memorial Drive Phase 3 – *Memorial Drive, Cambridge – design underway*

- DCR plans to incorporate infiltration BMPs as part of a current design project.
- Stormwater BMPs will treat discharges to the Charles River.

5. Horgan Skating Arena – *403 Oxford Street N., Auburn – design underway*

- DCR plans to incorporate BMPs to the Horgan Skating Arena parking lot to help meet the 24% phosphorus load reduction required by the Auburn Pond/Leesville Pond Phosphorus Control Plan.
- DCR has completed design of leaching basins and an infiltration basin to meet the required phosphorus reduction required by the PCP and will begin construction Fall 2023.
- Stormwater BMPs will treat discharges to Dark Brook.

6. George Spatcher Swimming Pool – *79 North Avenue, Attleboro – design underway*

- DCR is designing an infiltration BMP to treat the parking lot area of the George Spatcher Pool to meet the Ten Mile River Nutrient Source Identification Report requirement of having a structural demonstration BMP.
- The BMP is in design and planned to be constructed by June 2024 to meet the Permit Year 6 Appendix H requirement.
- The Stormwater BMP will treat discharges to Ten Mile River.

7. McVann – O’Keefe Memorial Skating Rink – *511 Lowell Street, Peabody – design underway*

- DCR is designing BMPs to treat a portion of the parking lot area of the McVann – O’Keefe Memorial Skating Rink to meet the Proctor Brook Nutrient Source Identification Report requirement of having a structural demonstration BMP.
- The BMP is in design and planned to be constructed by June 2024 to meet the Permit Year 6 Appendix H requirement.
- The Stormwater BMP will treat discharges to Proctor Brook.

8. Hammond Pond Parkway – *Hammond Pond Parkway, Newton – design underway*

- DCR is designing stormwater BMPs as part of an upcoming project
- The BMP is currently in design and planned to be constructed by June 2025.
- The Stormwater BMP will treat discharges to Hammond Pond.

Properties with BMPs installed since Permit Year 4:

**Sites with asterisks were included in the original Retrofit Opportunity List submitted in Permit Year 4*

1. **Nantasket Beach***, *Hull* - 27 leaching basins
2. **Arborway**, *Boston* - 2 leaching galleys
3. **Lawrence W. Llyod Swimming Pool**, *Melrose* - 1 leaching basin
4. **Waquoit Bay National Estuarine Research Reserve**, *Falmouth* - 1 infiltration swale
5. **Blue Hills Reservation**, *Milton* - 2 infiltration basins
6. **Gusctav A. - Swede - Johnson Swimming Pool**, *Fitchburg* - 1 bioretention swale
7. **Factory Hill Playground**, *Hyde Park* - 1 leaching basin
8. **Shannon Beach**, *Winchester* - 2 leaching basins