MassCentral Rail Trail (MCRT)
Stormwater Management System
Operation and Maintenance Plan (O&M)
and
Long Term Pollution Prevention Plan (LTPPP)

June 2020

This Stormwater Management System Operation and Maintenance Plan provides for the inspection and maintenance of structural Best Management Practices (BMPs) and for measures to prevent pollution associated with the Stormwater Management System on the MassCentral Rail Trail.

This document has been prepared in accordance with the requirements of the Stormwater Regulations included in the Massachusetts Wetlands Protection Act Regulations (310 CMR 10).

Responsible Party

Department of Conservation and Recreation (DCR) office will be responsible for the maintenance of the shared-use facility and associated stormwater management features, in accordance with DCR standards. The facility will be maintained by DCR maintenance staff from:

DCR's Maintenance Facility
Hopkinton Complex
164 Cedar St,
Hopkinton MA 01748
Jeff Cate
Field Operation Team Leader
(508) 435-4303

Maintenance Measures

The stormwater management system covered by this Operation and Maintenance Plan consists of the following components:

- Swales – Dry with check dams
- Vegetated filter strips > 25 feet
- Areas of increased infiltration
- Drainage structures
    - Sta. 530+80 – Catch basin (Str 9)
    - Sta. 533+46 – Flared End Section (Str 10)
    - Sta. 713+63 Lt – Headwall (Str 12)
    - Sta. 713+63 Rt – Headwall (Str 13)

DCR Operations to maintain swales, vegetated filter strips, and the drainage culverts that will require periodic maintenance.

DCR Engineering to maintain listed catch basin, flared end section, and headwalls. Engineering can assist with blocked culverts if major blockage or structural concern.

Maintenance of these components will be conducted annually in accordance with DCR standard maintenance practices, as noted in the attached Operation and Maintenance table summarizing the pertinent inspection and maintenance activities.

If inspection indicates the need for major repairs of structural surfaces, the inspector should contact the DCR maintenance supervisor to initiate procedures to effect repairs in accordance with DCR standard construction practices.

Practices for Long Term Pollution Prevention

In general, long term pollution prevention and related maintenance activities will be conducted consistent with DCR's NPDES Stormwater MS4 Permit(s), and the measures outlined in the Stormwater Management Plans (SWMP). Information about the DCR permit and the SWMP are available at the following website:

http://www.mass.gov/eea/agencies/dcr/conservation/stormwater-mgmnt/

For the facilities covered by this Operation and Maintenance Plan, long term pollution prevention includes the following measures:

Litter Pick-up
DCR will conduct litter pick-up from the stormwater management facilities in conjunction with routine maintenance activities.

Routine Inspection and Maintenance of Stormwater BMPs
DCR will conduct inspection and maintenance of the stormwater management practices in accordance with the guidelines discussed above.

Spill Prevention and Response
DCR will implement response procedures for releases of significant materials such as fuels, oils, or chemical materials onto the ground or other areas that could reasonably be expected to discharge to surface or groundwater.

- Reportable quantities will immediately be reported to the applicable Federal, State, and local agencies as required by law. The applicable DCR office should also be notified.
- Applicable containment and cleanup procedures will be performed immediately. Impacted material collected during the response must be removed promptly and disposed of in accordance with Federal, State, and local requirements. A licensed emergency response contractor may be required to assist in cleanup of releases depending on the amount of the release and the ability of the responsible party to perform the required response.
- Reportable quantities of chemical, fuels, or oils are established under the Clean Water Act and enforced through MassDEP.

Maintenance of Landscaped Areas

DCR will mow and/or weed whack the shoulders adjacent to the rail trail biweekly or as needed between Memorial Day and Columbus Day. Outside of the 2-foot shoulders on either side of the rail trail, DCR will mow the 5-foot herbaceous area over the duct bank no more than once annually. Outside of the 19-foot maintained area (paved rail trail, 2-foot shoulders on either side and 5-foot area over the duct bank) woody vegetation will be allowed to naturally revegetate and DCR will not implement vegetation management unless it poses a risk to MCRT users or to the underground transmission line. The swales and areas of increased infiltration outside of the 19-foot area will be inspected and mowed as needed or annually at a minimum to maintain proper water quality treatment function.

Eversource inspection vehicles will use the paved MCRT to access the transmission line facility approximately once every three years, or as needed for maintenance of the transmission line.

Within the Priority Habitat areas, the vegetation will not be trimmed lower than 10 inches along the shoulders or over the duct bank.

Fertilizers will not be used. If DCR finds it necessary to use chemical treatment for vegetation control, this work will be done in compliance with MDAR regulations at 333 CMR 11.00, which will limit impacts to sensitive areas such as groundwater and drinking water wells. The MCRT is part of the DCR Yearly Operational Plan regarding vegetation maintenance along their bike path and recreational corridors.

Snow and Ice Management

There are no plans for snow and ice removal, nor de-icing (i.e., sanding, salting) of the bike path surface.

Prohibition of Illicit Discharges

The DEP Stormwater Management Standards prohibit illicit discharges to the storm water management system. Illicit discharges are discharges that do not entirely consist of stormwater, except for certain specified non-stormwater discharges.

Discharges from the following activities are not considered illicit discharges:

- firefighting
- water line flushing
- landscape irrigation
- uncontaminated groundwater
- potable water sources
- water used to clean residential buildings without detergents
- foundation drains
- footing drains
- individual resident car washing
- flows from riparian habitats and wetlands
- dechlorinated water from swimming pools
- water used for street washing
- air conditioning condensation

There are no known or proposed illicit connections associated with this project. If a potential illicit discharge to the facilities covered by this plan is detected (e.g., dry weather flows at any pipe outlet, evidence of contamination of surface water discharge by non-stormwater sources), the DCR shall be notified for assistance in determining the nature and source of the discharge, and for resolution through DCR's IDDE program.

Public Access

The MCRT Wayland Section is a public access facility. The facility is typically open dawn to dusk every day. Members of the Sudbury Planning Board or Conservation Commission are free to access the rail trail at any time the facility is open. Periodically the facility may be closed for maintenance construction (repairs, resurfacing, etc.) and for the safety of the public, access to the rail trail will be restricted.

Easements

The DCR holds an easement for construction and operation of the MCRT over the Massachusetts Department of Transportation – MBTA rail corridor. Within the rail corridor there are the following existing easements or license agreements by others:

- NSTAR Electric Company d/b/a Eversource Energy ("Eversource") to construct and operate the transmission powerline;
- Sudbury Lumber for access and storage of materials (off Union Avenue);
- Tennessee Gas Transmission Company to install and operate an underground natural gas transmission pipeline (east of Marlborough/Hudson town line);
- Town of Sudbury (east of Route 20 – building license);
- Douglas P. Webb lease for South Sudbury Station (off Union Avenue)

Appendix: Best Management Practices: Operation & Maintenance Measures

Best Management Practice*	Sweep	Mow	Inspect	Clean	Repair
Swales*	NA	Mow swales as needed or annually (minimum)	Annually	As needed	As needed
Check Dams	NA	String trim as needed (Not to be mowed) or annually (minimum)	Annually	As needed	As needed
Vegetated filter strip > 25 feet	NA	Mow as needed or annually (minimum)	Annually	As needed	As needed
Areas of increased infiltration*	NA	Mow as needed or annually (minimum)	Annually	As needed	As needed
Drainage structures	NA	NA	Annually	As needed	As needed

*If mowing occurs between April 1 and November 1, then areas within mapped habitat for state-listed turtles will require "turtle sweeps" by trained individuals ahead of the mower and mower deck heights shall be set lower than 10 inches above the ground or string trimmers can be used.

Best Management Practices – Maintenance/ Evaluation Checklist

Best Management Practice	Inspection Frequency	Date Inspected	Inspector	Minimum Maintenance and Key Items to Check	Cleaning/Repair Needed	Date of Cleaning/Repair	Performed by
Swales	Annually			• Accumulated sand and sediment • Accumulated debris • Erosion of swale	☐**yes** ☐**no** ☐**yes** ☐**no** ☐**yes** ☐**no**		
Check Dams	Annually			• Accumulated sand and sediment • Accumulated debris • Erosion of surface	☐**yes** ☐**no** ☐**yes** ☐**no** ☐**yes** ☐**no**		
Vegetated filter strip > 25 feet	Annually			• Accumulated sand and sediment • Erosion of surface	☐**yes** ☐**no** ☐**yes** ☐**no**		
Areas of increased infiltration	Annually			• Accumulated sand and sediment	☐**yes** ☐**no**		
Drainage structures	Annually			• Accumulated sand and sediment • Floatables • Inlets free of debris	☐**yes** ☐**no** ☐**yes** ☐**no** ☐**yes** ☐**no**		

Notes on Stormwater / Drainage Issues:

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Stormwater Control Manager _____

Project Plans Attached