



MILLENNIUM ENGINEERING, INC.

Land Surveyors and Civil Engineers

**LONG-TERM POLLUTION
PREVENTION AND OPERATION AND
MAINTENANCE PLAN**

FOR THE

SITE PLAN

AT

**2 AND 13 MERRIMAC STREET
AMESBURY, MA**

PREPARED FOR:

**14 MERRIMAC STREET, LLC
2 MERRIMAC STREET
AMESBURY, MA**

DATE: JULY 24, 2024

REVISED: AUGUST 19, 2024

Massachusetts:

62 Elm Street-
Salisbury, MA 01952
Phone: 978-463-8980

New Hampshire:

13 Hampton Road
Exeter, NH 03833
Phone: 603-778-0528

This long-term Stormwater Management System Operations and Maintenance (O&M) Plan, filed with the City of Amesbury, shall be implemented for the proposed development at 2 & 13 Merrimac Street to ensure that the stormwater management system functions as designed. The Owner holds the primary responsibility for overseeing and implementing the O&M Plan and assigning a Property Manager who will be responsible for the proper operation and maintenance of the stormwater structures. In case of transfer of property ownership, future property owners shall be notified of the presence of the stormwater management system and the requirements for proper implementation of the O&M Plan. Included in the manual is a Stormwater Management O&M Plan identifying the key components of the stormwater system and a log for tracking inspections and maintenance.

The stormwater management system protects and enhances the stormwater runoff water quality through the removal of sediment and pollutants, and source control significantly reduces the number of pollutants entering the system. Preventive maintenance of the system will include a comprehensive source reduction program of regular vacuuming and litter removal, and prohibitions on the use of pesticides.

The purpose of the Stormwater Operations and Maintenance (O&M) plan is to ensure inspection of the system, removal of accumulated sediments, oils, and debris, and implementation of corrective action and record keeping activities.

The ongoing responsibility is the Owner, its successors, and assigns. Adequate maintenance is defined in this document as good working condition.

Contact information is provided below:

Responsibility for Operations and Maintenance
14 Merrimac St. LLC
2 Merrimac Street
Amesbury, MA

Illicit Discharge Compliance Statement

I, Michael C. Sanchez, verify that all illicit discharges to the stormwater management system are prohibited and no illicit discharges exist on the site.

POST-CONSTRUCTION BMPs

Snow and Snow Melt Management

Proper management of snow and snow melt, snow removal and storage, use of deicing compounds, and other practices can minimize major runoff and pollutant loading impacts. Snow will be stored in areas adjacent to the edge of the roadway. Use of alternative deicing compounds, such as calcium chloride and calcium magnesium acetate, will be investigated for use. Professional services will be used for snow management.

Deep Sump/Hooded Catch Basins

Deep sump/hooded catch basins are incorporated in the proposed development's stormwater management plan as pre-treatment for the proposed drainage system. The sump provides for settlement of suspended solids and a hood is provided to remove floatables and trapped hydrocarbons. It is not anticipated that the proposed roadway will become an area of high sediment loading. The sump should be inspected and cleaned at least four times per year; the more frequent the cleaning, the less likely sediment will be resuspended and subsequently discharged. Catch basin sediments and debris shall be disposed of at an approved DEP landfill. The owner shall be responsible for the catch basin cleaning operations.

Rain Garden

A Rain Garden is incorporated into the site design to provide treatment for stormwater runoff. After rainstorms, inspect the garden and make sure that drainage paths are clear and that ponding water dissipates over 4-6 hours. Inspect and repair erosion monthly. Use small stones to stabilize erosion along drainage paths. Re-mulch any void areas by hand as needed and every year, in the spring, add a fresh mulch layer. Immediately after the completion of garden construction, water plant material for 14 consecutive days unless there is sufficient natural rainfall. Twice a year remove and replace all dead and diseased vegetation. The property owner will be responsible for proper maintenance of the rain gardens.

CDS System

A CDS2015-4 is incorporated into the site design for treatment for the proposed underground infiltration system. At a minimum, the unit shall be inspected twice per year (spring and fall). The CDS unit should be vacuum cleaned when the level of sediment has reached 75% of capacity in the isolated sump. Sediments and debris shall be disposed of at an approved DEP landfill. The owner shall be responsible for the CDS cleaning operations.

Peastone Diaphragm

A Peastone diaphragm is proposed along the outer edge of the gravel parking lot at 13 Merrimac Street. The stone diaphragm shall be inspected twice per year (spring and fall). Any sediment

and debris should be removed manually before the stone is adversely impacted. The owner will be responsible for proper maintenance of the stone trenches.

Rip Rap

Inspect the rip rap outlets regularly, especially after major storm events. Notation of any low spots or erosion should be made.

FINAL STABILIZATION

Permanent Seeding

Loam and hydroseed any disturbed surfaces after the final design grades have been achieved. A minimum of 6" of loam shall be installed. Seed mix shall be a maximum of 10% rye grass and a minimum of 90% permanent bluegrass and/or fescue. Lime shall be applied at a rate of 2 tons/acre.

Construction debris, trash and temporary BMPs (including silt fences, material storage areas, and inlet protection) will also be removed and any areas disturbed during removal will be seeded immediately.

Long-term Operation and Maintenance Plan

Good Housekeeping

The site shall be regularly inspected for any trash and debris. Any trash or debris shall be picked up and placed into the waste containers.

Storing of materials and waste products inside or under cover

It is not anticipated that there will be storing of materials or waste products on site. If any materials are to be stored they shall be stored inside or under cover.

Spill Control/Notification Practices

In addition to the good housekeeping and material management practices discussed above, the following practices will be followed for spill control, notification, and cleanup.

- Manufacturer's recommended methods for spill cleanup will be clearly posted and project area personnel will be informed of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include, but will not be limited to, shovels, wheelbarrows, brooms, dust pans, mops, rags, gloves, goggles, kitty litter or Speedi-Dry,

sand, sawdust, and plastic and metal trash containers specifically designated for this purpose.

- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated, and personnel will wear protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material in excess of reportable quantities, as established in the Massachusetts Contingency Plan (MCP), will be reported to the Massachusetts Department of Environmental Protection Division of Hazardous Waste [(617) 292-5851 or (978) 661-7679].
- The construction superintendent responsible for the daily operations will be the spill prevention and cleanup coordinator. He will designate at least three other project area personnel to receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of the responsible spill personnel will be posted in the material storage area and in the on-site office trailer.

Lawn Care

All lawn clippings, leaves, mulch, and any other landscaping items shall be kept out of storm drains. The use of pesticides and fertilizers on the lawn shall never be applied before a rain event. Only approved aquatic safe herbicides shall be allowed. The application of any fertilizers or pesticides shall be in accordance with the Manufacturer's specifications.

Vehicle Washing

No harmful soaps or chemicals that are detrimental to the environment may be used in washing of cars or other items on the property.

Pet Waste Collection

Marina patrons and restaurant guests shall be responsible for picking up and disposing of all pet waste into waste containers.

Waste Collection

All trash and waste shall be placed in the dumpster on site. The cover to the dumpster shall remain closed at all times. Any trash or debris found on site shall be disposed on in the dumpster. Regular pickup of the dumpster shall occur to avoid the waste exceeding the dumpster capacity.

Snow and Snow Melt Management

Proper management of snow and snow melt, snow removal and storage, use of deicing compounds, and other practices can minimize major runoff and pollutant loading impacts. Snow will be stored in areas adjacent to the edge of the roadway. Use of alternative deicing compounds, such as calcium chloride and calcium magnesium acetate, will be investigated for use. Professional services will be used for snow management.

Street Sweeping:

The driveway and parking area shall be swept every spring season after the last snowfall. All sediment shall be removed and discarded off the property in accordance with all Local, State and Federal regulations.

Estimated Operations and Maintenance Budget

Any opinions of probable project cost or probable construction cost provided by Millennium Engineering, Inc.. are made on the basis of information available to Millennium Engineering, Inc. and on the basis of Millennium Engineering, Inc.'s experience and qualifications, and represents its judgment as an experienced and qualified professional engineer. However, since Millennium Engineering, Inc has no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor(s') methods of determining prices, or over competitive bidding or market conditions, Millennium Engineering, Inc does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost Millennium Engineering, Inc prepares.

1.1.1 Catch Basins

1.1.1.1 Engineer 4 hr @ \$175/hr. (1 time/yr.)

Subtotal - \$700

1.1.2 Rain Garden (2 times per year)

1.1.2.1 Excavator – 6hrs @ \$100/hr

1.1.2.2 Disposal - \$500

Subtotal - \$2200/year

Total Annual Estimated Operating Budget: \$2,900/year

Training

The individual who will be responsible for the inspection and maintenance of the stormwater system shall be trained by the previous person responsible or by contacting a local engineer for assistance.

Stormwater System Inspection Report

General Information			
Location:			
Date of Inspection		Start/End Time	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Purpose of Inspection			

Site-Specific Stormwater Devices

	Description	Installed and Operating Properly?	Corrective Action Needed	Date for Corrective Action/Responsible Person
1		☐ Yes ☐ No		
2		☐ Yes ☐ No		
3		☐ Yes ☐ No		
4		☐ Yes ☐ No		
5		☐ Yes ☐ No		

- No storing or maintenance of boats is allowed on site.
- Copies of the inspection reports will be sent to the City of Amesbury Planning Board on an annual basis

Certification Statement:

“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 gathered and evaluated the information submitted. Based on my 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.”

Print name: _____

Signature: _____

Date: _____