

Standard Operating Procedure Detention Basins

I. PURPOSE

Detention basins are treatment Best Management Practices (BMPs) that are designed to collect, treat, and control the release rate of stormwater. They are often designed as 3 to 12 feet depressions with grass covering the entire basin other than the riprap inlets. Controlled release of stormwater is accomplished by using an outlet control structure.

II. INSPECTION

Regular inspections are important to prevent against premature failure of detention basins. <u>Detention basins should be inspected monthly</u> when regular maintenance/observance such as lawn care occur. All accumulated trash should be collected at this time. The basin shall be inspected for any side-slope erosion. Any outlet control structure or overflow structure shall be monitored for sediment accumulation in their sumps and if they are clogged with vegetation or debris.

III. MAINTENANCE

Regular maintenance shall be conducted at the following intervals to maintain detention Basins so they may operate efficiently and as designed.

Activity	Time of Year	Frequency
Inspect detention basin	Year Round	Bi-Annually and after major
		storms
Examine outlet structure for evidence of clogging or outflow release velocities that are greater than design flow	Spring and Fall	Bi-Annually
Mow the upper-stage, side slopes, embankment, and emergency spillway	Spring through Fall	At least Bi-Annually
Remove trash and debris	Year Round	Bi-Annually
Remove sediment from the basin	Spring or Fall	At least once every 5 years



IV. LOCATION OF DETENTION BASINS

- a. Harris M. Dolbeare School 340 Lowell Street Wakefield, MA 01880
- V. ATTACHMENTS:
 - a. Maintenance Report, Detention Basins
 - b. Plan, Harris M. Dolbeare School Detention Basin Plan,
 - c. Cross-Section Detail, DR-12A Detention Basin X-Section
- VI. REVISION

These procedures contained in the SOP are reviewed as part of the NPDES MS4 Annual Report development and updated as needed.

VII. EFFECTIVE:

June 2022

SIGNED:

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William J. Renault, Jr., P.E. Town Engineer Engineering Division Wakefield Department of Public Works



Engineering Division

POST-CONSTRUCTION OPERATION AND MAINTENANCE LOG – DETENTION BASIN

Inspector's Name:	or's Name:			
Location:				
Inspection Type:	□ Routine	🗆 Spill	Other:	

□ Post-Rainfall (Precipitation in Inches:_____)

Activity	Frequency	Comments	
Inspect detention basin	2x per year and after major storms		
Examine outlet structure for evidence of clogging or outflow release velocities that are greater than design flow	2x per year		
Remove trash and debris	As needed		
Remove sediment from the basin	Every 5 years or as needed		

Additional Comments:

Signature:







