

Date Submitted:
Date Approved:
Permit #:

TOWN OF SUDBURY APPLICATION FOR STORMWATER MANAGEMENT PERMIT Major

Project / Site Information Project / Site Name:		
Project Street / Location:		
Assessor's Map:	Parcel(s):	
Plan Prepared by:		
Applicant	Owr (if differen	ner Contractor t from applicant)
Name:		
Address:		
Phone:		
E-Mail:		
Fax:		
Duniant Danswirting / Factoring (alice)	la all that annib A	
Project Description/Features: (chec • Single family Dwelling	к ан илат арргуј	Subdivision: # of Lots
Multi Family Development: #	of Units	O Subdivision. # Of Lots
New Commercial/Industrial Si		Redevelopment Site Plan
Re-grading or Land Disturbance		• Redevelopment Site Fidit
Other		
Total Lot Area:		
Estimated Area to be Disturbed	(ft²):	
Total Area of Impervious Surface	es: <u>Existing</u>	<u>Proposed</u>
(paved, parking, roofs, decks, etc	c.) (ft²):	
Existing Project Site includes the fol	lowing features:	
Detention Pond		
 Sub-surface Detention / Infiltr 		
Roof drains discharging overl	anu	
Perimeter drain Connection to municipal storm	a drainaga ayatara	
Connection to municipal storm Which storm water connection	i drainage system	
 Illicit stormwater connection Slopes greater than 10% 	Sauara Foot Disturba	ed:
Slopes greater than 10%Slopes greater than 15%	Square Feet Disturbe	
 Slopes greater than 20% 	· ·	

Other Jurisdictions:

- Wetlands Protection Act / Conservation Commission Jurisdiction
- Rivers Act / Conservation Commission Jurisdiction
- Board of Health permit
- Site Plan Review
- Planning Board WRPD permit
- o Earth Removal Board
- Driveway Permit
- Trench Permit

Certification

, ,	· ·	nditions listed above, and the info	•
Ü	<i>,</i> ,	•	dge. Further, I grant the Town of
, ,	ing and after construction.	permission to enter the property	to review this application and
Applicant	Date	Owner	 Date

Application Requirements

- 1. Applicants must submit a total of four (4) hard copies of the completed application, including;
 - Stormwater Management Plan
 - Erosion & Sediment Control Plan prepared by a professional engineer
 - All required documentation listed in the Town of Sudbury Stormwater Management Bylaw and Regulations plus;
 - Four (4) reduced sized 11 x 17 plans, two (2) additional full-size plans, and a PDF electronic submission sent via email to PCD@sudbury.ma.us

The full application package, including all required attachments, should be provided in four (4) separate sets. One (1) full application set with reduced sized 11×17 plans will be kept by the Town Clerk.

- 2. Applicants must have all four (4) full application packages, including all attachments stamped by the Town Clerk's office upon submission. The Town Clerk's office is located at, 322 Concord Road, Sudbury, MA. Once stamped the application materials should be delivered to the Planning & Community Development Department, 278 Old Sudbury Road, Sudbury, MA.
- 3. Fees to be included:
 - \$2,000 Peer Review Fee, Public Hearing Fee (if applicable), any additional necessary fees, plus;
 - Single Family Residential Lot \$100.00 non-refundable;
 - **Subdivision** The larger of \$100.00, or \$0.0030 per square foot of the total parcel size towhich the permit will be issued, up to a maximum of \$500.00, non-refundable;
 - **Commercial/Industrial** The larger of \$100.00, or \$0.0030 per square foot of the total parcel size to which the permit will be issued, up to a maximum of \$500.00, non-refundable;
 - **Multi-family projects** The larger of \$100.00, or \$0.0030 per square foot of the total parcel size to which the permit will be issued, up to a maximum of \$500.00, non-refundable;
 - Permit Extensions/Modifications \$50.00 non-refundable

Please make checks payable to "Town of Sudbury".



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals. This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Massachusetts Department of Environmental Protection

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Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature	
Signature and Date	
Checklist	
Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?	
☐ New development	
Redevelopment	
Mix of New Development and Redevelopment	



Checklist for Stormwater Report

Checklist (continued)

env	rironmentally sensitive design and LID Techniques were considered during the planning and design of project:
	No disturbance to any Wetland Resource Areas
	Site Design Practices (e.g. clustered development, reduced frontage setbacks)
	Reduced Impervious Area (Redevelopment Only)
	Minimizing disturbance to existing trees and shrubs
	LID Site Design Credit Requested:
	☐ Credit 1
	☐ Credit 2
	☐ Credit 3
	Use of "country drainage" versus curb and gutter conveyance and pipe
	Bioretention Cells (includes Rain Gardens)
	Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
	Treebox Filter
	Water Quality Swale
	Grass Channel
	Green Roof
	Other (describe):
Sta	ndard 1: No New Untreated Discharges
	No new untreated discharges
	Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
	$\label{thm:continuous} \textbf{Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.}$



Checklist for Stormwater Report

Cł	necklist (continued)
Sta	ndard 2: Peak Rate Attenuation
	Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding. Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
	Calculations provided to show that post-development peak discharge rates do not exceed pre- development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24- hour storm.
Sta	indard 3: Recharge
	Soil Analysis provided.
	Required Recharge Volume calculation provided.
	Required Recharge volume reduced through use of the LID site Design Credits.
	Sizing the infiltration, BMPs is based on the following method: Check the method used.
	☐ Static ☐ Simple Dynamic ☐ Dynamic Field ¹
	Runoff from all impervious areas at the site discharging to the infiltration BMP.
	Runoff from all impervious areas at the site is <i>not</i> discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
	Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
	Recharge BMPs have been sized to infiltrate the Required Recharge Volume <i>only</i> to the maximum extent practicable for the following reason:
	☐ Site is comprised solely of C and D soils and/or bedrock at the land surface
	M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
	☐ Solid Waste Landfill pursuant to 310 CMR 19.000
	Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
	Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
	Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Cł	necklist (continued)
Sta	ndard 3: Recharge (continued)
	The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
	Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
Sta	ndard 4: Water Quality
The	E Long-Term Pollution Prevention Plan typically includes the following: Good housekeeping practices; Provisions for storing materials and waste products inside or under cover; Vehicle washing controls; Requirements for routine inspections and maintenance of stormwater BMPs; Spill prevention and response plans; Provisions for maintenance of lawns, gardens, and other landscaped areas; Requirements for storage and use of fertilizers, herbicides, and pesticides; Pet waste management provisions; Provisions for operation and management of septic systems; Provisions for solid waste management; Snow disposal and plowing plans relative to Wetland Resource Areas; Winter Road Salt and/or Sand Use and Storage restrictions; Street sweeping schedules; Provisions for prevention of illicit discharges to the stormwater management system; Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL; Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
	A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent. Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
	is within the Zone II or Interim Wellhead Protection Area
	is near or to other critical areas
	is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
	involves runoff from land uses with higher potential pollutant loads.
	The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if

applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Ch	Checklist (continued)		
Standard 4: Water Quality (continued)			
	The BMP is sized (and calculations provided) based on:		
	☐ The ½" or 1" Water Quality Volume or		
	☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.		
	The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.		
	A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.		
Sta	ndard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)		
	The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report. The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted <i>prior</i> (1997).		
	to the discharge of stormwater to the post-construction stormwater BMPs. The NPDES Multi-Sector General Permit does not cover the land use.		
	LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.		
	All exposure has been eliminated.		
	All exposure has <i>not</i> been eliminated and all BMPs selected are on MassDEP LUHPPL list.		
	The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.		
Sta	ndard 6: Critical Areas		
	The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.		
	Critical areas and BMPs are identified in the Stormwater Report.		



Checklist for Stormwater Report

Checklist (continued)

	andard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum tent practicable
	The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
	☐ Limited Project
	 Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area. Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
	☐ Bike Path and/or Foot Path
	Redevelopment Project
	Redevelopment portion of mix of new and redevelopment.
	Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report. The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.
Sta	andard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control
	Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the owing information:
	 Narrative; Construction Period Operation and Maintenance Plan; Names of Persons or Entity Responsible for Plan Compliance; Construction Period Pollution Prevention Measures; Erosion and Sedimentation Control Plan Drawings; Detail drawings and specifications for erosion control BMPs, including sizing calculations; Vegetation Planning; Site Development Plan; Construction Sequencing Plan; Sequencing of Erosion and Sedimentation Controls;

Operation and Maintenance of Erosion and Sedimentation Controls;

the information set forth above has been included in the Stormwater Report.

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing

Inspection Schedule; Maintenance Schedule;

Inspection and Maintenance Log Form.



Checklist for Stormwater Report

Checklist (continued)

	Indard 8: Construction Period Pollution Prevention and Erosion and Sedimentation ntinued)	Control
	The project is highly complex and information is included in the Stormwater Report that e it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevent Erosion and Sedimentation Control has <i>not</i> been included in the Stormwater Report but submitted <i>before</i> land disturbance begins.	on and
	The project is <i>not</i> covered by a NPDES Construction General Permit.	
	The project is covered by a NPDES Construction General Permit and a copy of the SWP Stormwater Report.	PP is in the
	The project is covered by a NPDES Construction General Permit but no SWPPP been surface SWPPP will be submitted BEFORE land disturbance begins.	bmitted.
Sta	ndard 9: Operation and Maintenance Plan	
	The Post Construction Operation and Maintenance Plan is included in the Stormwater Reincludes the following information:	port and
	☐ Name of the stormwater management system owners;	
	☐ Party responsible for operation and maintenance;	
	☐ Schedule for implementation of routine and non-routine maintenance tasks;	
	☐ Plan showing the location of all stormwater BMPs maintenance access areas;	
	☐ Description and delineation of public safety features;	
	☐ Estimated operation and maintenance budget; and	
	Operation and Maintenance Log Form.	
	The responsible party is not the owner of the parcel where the BMP is located and the Steport includes the following submissions:	ormwater
	A copy of the legal instrument (deed, homeowner's association, utility trust or other legal that establishes the terms of and legal responsibility for the operation and maintenan project site stormwater BMPs;	
	A plan and easement deed that allows site access for the legal entity to operate and BMP functions.	maintain
Sta	ndard 10: Prohibition of Illicit Discharges	
	The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;	
	An Illicit Discharge Compliance Statement is attached;	
	NO Illicit Discharge Compliance Statement is attached but will be submitted <i>prior to</i> the any stormwater to post-construction BMPs.	discharge of