

CONSTRUCTION STORMWATER UPDATES

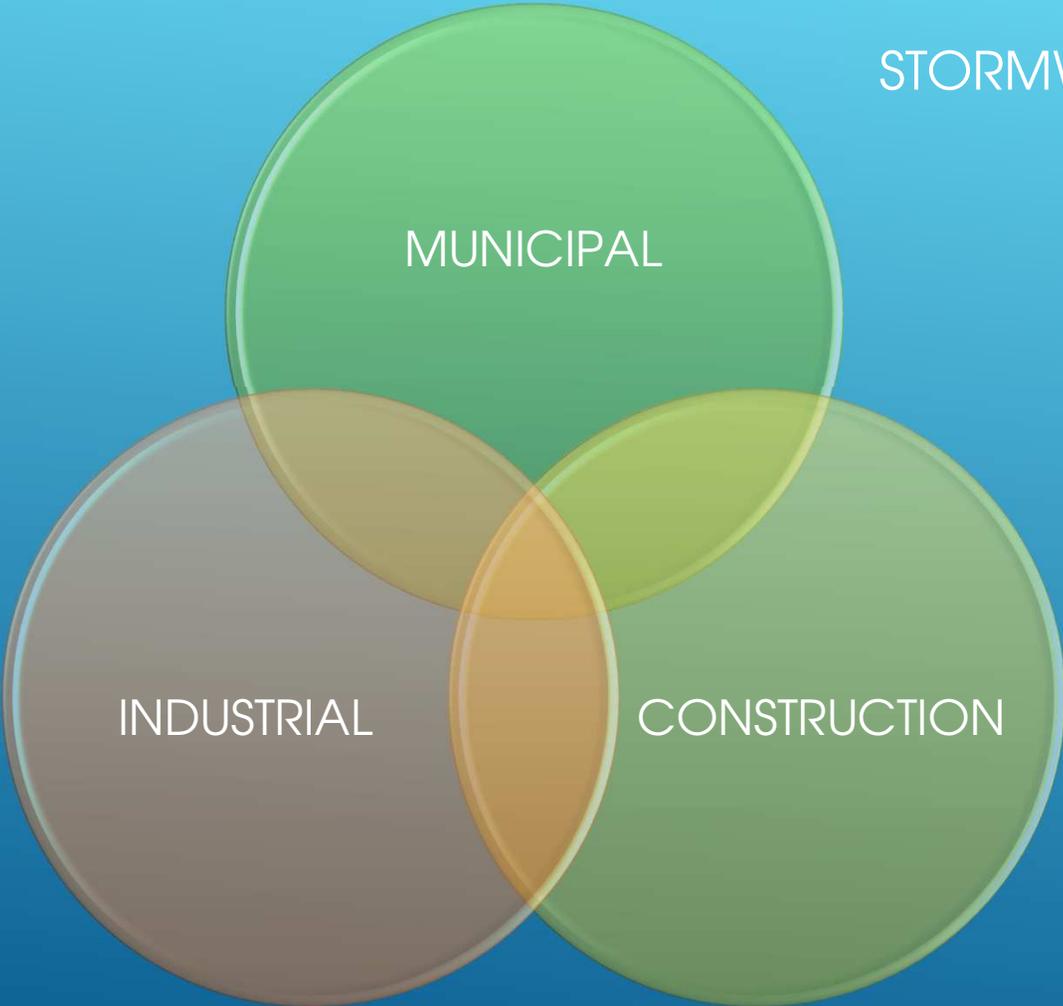
Alisa Richardson, MS PE

Supervising Sanitary Engineer

Stormwater Engineering and 401 WQC

Office of Water Resources

STORMWATER REGULATION?



MS4 PERMIT

MUNICIPAL

RIDOT
Cities and Towns
University of RI

INDUSTRIAL

Landfills
Auto recyclers
Loading docks

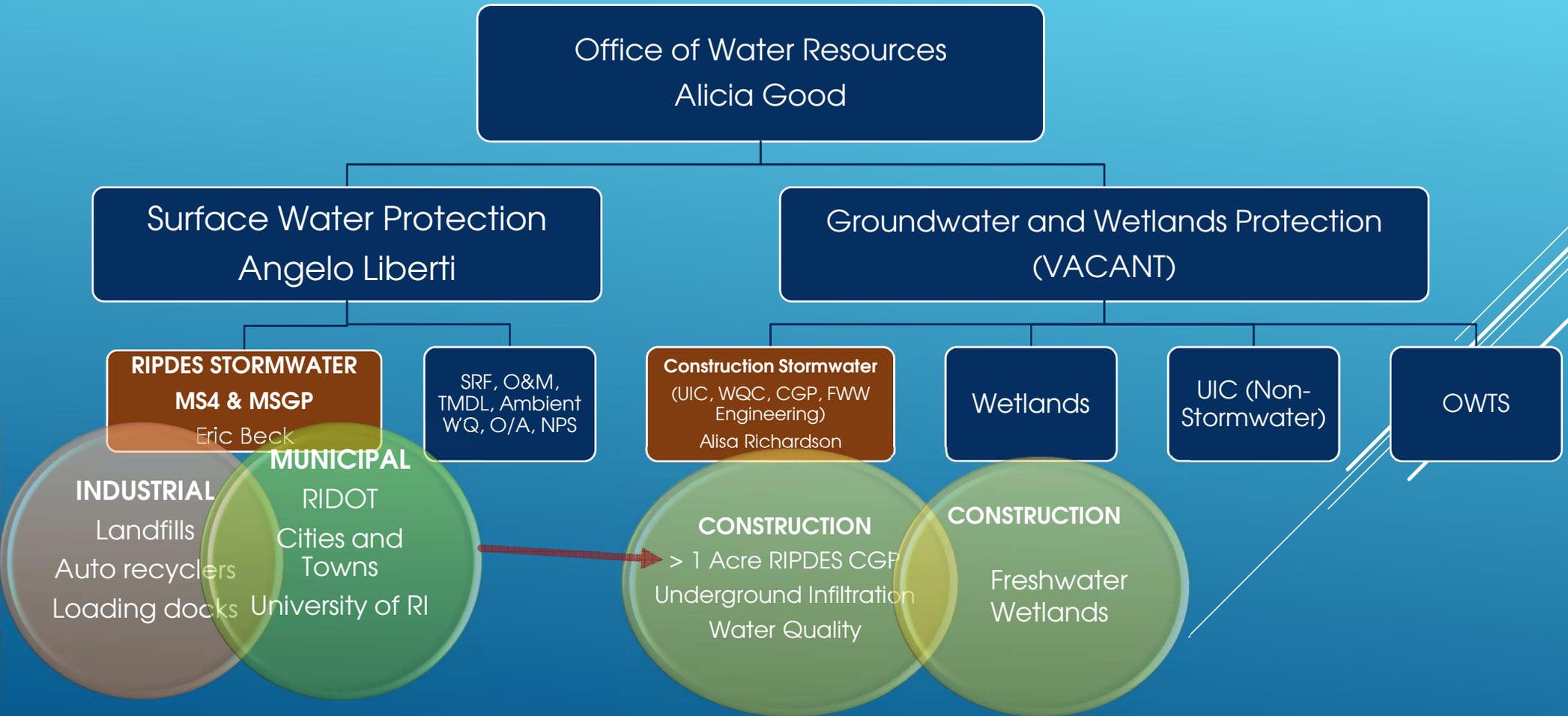
CONSTRUCTION

> 1 Acre
Underground
Infiltration
Freshwater Wetlands

MSGP PERMIT

WETLAND, UIC, WQC AND RIPDES CGP

2015 OFFICE OF WATER RESOURCES RESTRUCTURE

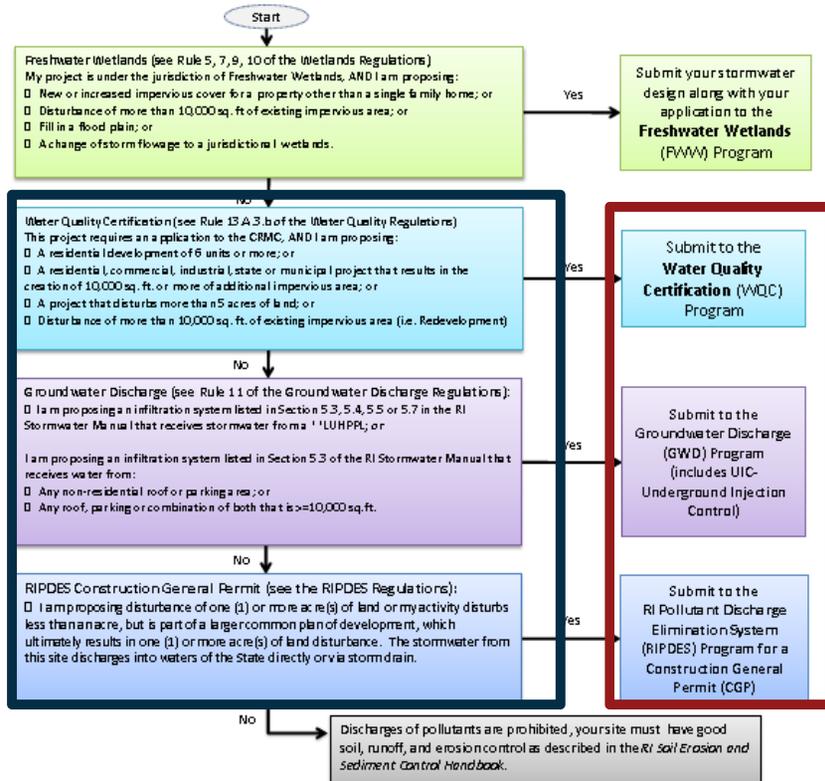




**RIDEM Office of Water Resources (OWR)
COORDINATED STORMWATER PERMITTING GUIDANCE**

To which programs should I submit a permit application and supporting Engineering Documentation?

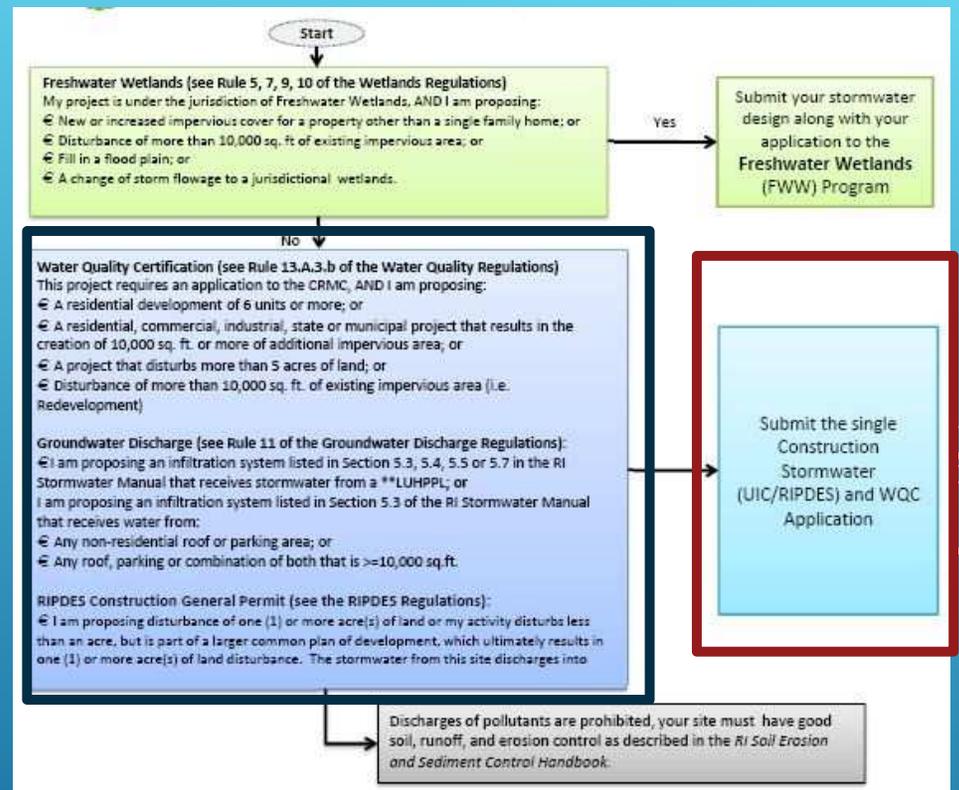
Only **ONE application** is needed, even if a project is subject to multiple* permits. Check **all** that apply and submit to the first applicable program:



*Note: The permit issued pursuant to this flowchart will include any additional authorizations that may be required under other pertinent regulations of the Office of Water Resources (OWR), except that for any industrial type project requiring a Multi-Sector (Stormwater) General Permit (MSGP), a separate MSGP application must also be filed with the RIPDES Program.

** LUHPPL = Land Use with a Higher Potential Pollutant Load as defined in the RI Stormwater Manual

2016 APPLICATION CONSOLIDATION



GOAL 1/1/2017



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources - Groundwater and Wetlands Protection
 235 Promenade Street, Providence, RI 02908-5767
 Telephone: 401-222-6820; Rhode Island Relay: 711; FAX: 401-222-6177

Application Received by PAC
 RIDEM Date Stamp Here

**Water Quality Certification and Stormwater Engineering
 Application for a New Permit or Permit Modification**

Application Received by OWR
 RIDEM Date Stamp Here

Use this form to request a **Water Quality Certification (WQC)** or **Stormwater Engineering Permit**. [This form replaces the formerly used WQC Program Application; Applications for a Stormwater Discharge System Registration and to Modify a Groundwater or Stormwater Discharge System; and the Rhode Island Pollutant Discharge Elimination System (RIPDES) Notice of Intent (NOI) Stormwater General Permit for Construction Activity.]

Provide all applicable information by completing the *blue shaded* areas:

Double-click to select one: **New Permit** **Permit Modification**

Project & Site	Project or Site Name:		Site Disturbance Area:		Total Site Area:	
			acres		acres	
	Address:		City/Town:	State:	Zip:	Pole #:
				RI		
	Assessor's Plat(s):	Assessor's Lot(s):	Latitude (nearest 15 sec):	Longitude (nearest 15 sec):		

Permit History	Previous FW/W #:	Previous WQC #:	Previous UIC #:	Previous RIPDES #:
	Any Enforcement Action File #:	CRMC File #:	US ACOE File #:	Was there a Pre-Application Meeting for this Project?
				<input type="checkbox"/> Yes <input type="checkbox"/> No

Owner / Applicant	Owner / Applicant's Name:		Phone:	Email (Required):		
	Address:		City/Town:	State:	Zip:	
	Organization/Company		Contact Person:	Owner / Applicant Type:		

Certification/Authorization: I hereby certify that I have requested and authorized the investigation, compilation, and submission of all the information, in whatever form, contained in this Application; that I have personally examined and am familiar with the information submitted herein; and that such information is true, accurate and complete to the best of my knowledge. I hereby authorize RIDEM personnel access to the property for purposes of observing conditions pertinent to this application and assessing compliance with any permit or determination resulting from this application, including any sampling, monitoring or surveying that may be deemed appropriate, consistent with the RIDEM Administrative Inspection Guidelines. Note any special concerns for access in the box below:

Applicant's Signature:	Title:	Date:

APPLICATION FOR STORMWATER ENGINEERING AND WATER QUALITY CERTIFICATION

- For New Permits and Permit Modifications
- Reduces (4 applications to 1)
 - RIPDES CGP NOI General Permit for Stormwater Discharge Associated with Construction Activity
 - Water Quality Certification Application
 - Application for a Stormwater Discharge System Registration
 - Application to Modify a Groundwater or Stormwater Discharge System

Freshwater Wetlands Start and Completion of Construction (permit condition)

Water Quality Certification Start and Completion of Construction (permit condition)

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources - Groundwater Discharge Program
235 Promenade Street, Providence, RI 02908-5767
Telephone: 401-222-6820; TCC Device for the Deaf: 401-831-5508; FAX: 401-222-6177

NOTIFICATION OF COMMENCEMENT OF A GROUNDWATER DISCHARGE

Note: This notification is required for all new or modified groundwater discharge systems. The owner must also submit with this form, the first round of compliance monitoring data required by a Groundwater Discharge System Approval or Temporary Approval.

FACILITY INFORMATION:

(Facility Name) (Facility ID/File)
(Facility Address) (City/Town) (Zip Code)
(Facility Owner) (Area Code & Telephone Number)
(Mailing Address) (City/Town) (Zip Code)

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources - Groundwater Discharge Program
235 Promenade Street, Providence, RI 02908-5767
Telephone: 401-222-6820; TCC Device for the Deaf: 401-831-5508; FAX: 401-222-6177

NOTIFICATION OF COMPLETION OF CONSTRUCTION AND INSTALLATION

Construction of Groundwater Discharge System Approval
 Construction of Groundwater Discharge System Approval
Facility Name or Approval No. (Facility ID/File)
 Automatic Registration of Stormwater Discharge System (See RIDEM Account Number)

(Facility Street Address) (City/Town) (Zip Code)
(Facility Address) (City/Town) (Zip Code)
Date the groundwater discharge system was installed or modified to the greatest extent practicable

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources

NOTICE OF TERMINATION (NOT)

STORMWATER GENERAL PERMIT
FOR CONSTRUCTION ACTIVITY
(Revised - September 2013)

RIPDES Permit Authorization to be terminated No. _____

OWNER
Name: _____
Mailing Address: _____
City: _____ State: _____ (Project #) _____
Contact Person: _____ Title: _____

State of Rhode Island Consent
Date: _____
Contact Person: _____ Title: _____

RIPDES CGP (Permit Condition)

ONE START OF CONSTRUCTION NOTICE AND COMPLETION OF CONSTRUCTION NOTICE



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources - Groundwater and Wetlands Protection
235 Promenade Street, Providence, RI 02908-5767
Telephone: 401-222-6820; Rhode Island Relay: 711; FAX: 401-222-6177

Notification Received by
PAC
RIDEM Date Stamp here

FRESHWATER WETLAND, WATER QUALITY CERTIFICATION and STORMWATER ENGINEERING NOTIFICATION FORM Start or Completion of Construction and Installation

Provide all applicable information by completing the **blue shaded areas**.

Notification Received by
OWR
RIDEM Date Stamp here

[Click HERE to Select Notification Type](#)

Permit Type	Double-click to choose all Permit Type(s) for the project and provide all File Numbers			
	<input type="checkbox"/> Freshwater Wetlands	FWW File Numbers:		
<input type="checkbox"/> Water Quality Certification	WQC File Numbers:			
<input type="checkbox"/> Stormwater Discharge System**	SWD File Numbers:			
<input type="checkbox"/> RIPDES Permit Authorization	RIPDES File Numbers:			
Start of Construction	Provide a brief description of work to be completed:		Anticipated Start Date:	
Completion of Construction & Installation	Describe any conditions encountered, during construction and installation, that may have resulted in changes or modifications to what was approved.		Completion Date:	
Project or Site	Project or Site Name:			Facility ID:
Street Address:		City/Town	State:	Zip:
			RI	

** Attach construction and installation details for monitoring wells and associated well boring logs.



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Office of Water Resources - Groundwater and Wetlands Protection
 235 Promenade Street, Providence, RI 02908-5767
 Telephone: 401-222-6820; Rhode Island Relay: 711; FAX: 401-222-6177

DRAFT

Application Received by PAC
 RIDEM Date Stamp Here

FRESHWATER WETLAND, WATER QUALITY CERTIFICATION and STORMWATER ENGINEERING
 PERMIT APPLICATION
Renewals and Transfers

Application Received by OWR
 RIDEM Date Stamp Here

Provide all applicable information by completing **shaded** areas.

Double-click to select one: **Renewal** **Transfer**

Permit History	Permit Type:	Permit Number:	Approval Date:	Expiration Date:	# of Previous Approvals:
	Click HERE to Select				
<input type="checkbox"/> Double-click if actual site work has commenced on this project.					

Project & Site	Project or Site Name:	Site Disturbance Area:	Total Site Area:		
		acres		acres	
Address:		City/Town:	State:	Zip:	
			RI		

CURRENT Permittee	Permittee's Name:	Phone:	Email:		
	Address:		City/Town:	State:	Zip:
	Organization/Company		Contact Person:	Title:	

NEW Permittee	Permittee's Name:	Phone:	Email (Required):		
	Address:		City/Town:	State:	Zip:
	Organization/Company		Contact Person:	Title:	

RENEWALS AND TRANSFERS

APPENDIX A: STORMWATER MANAGEMENT CHECKLIST

Project Name:	
Contact for Stormwater Design Questions:	
Company/Organization:	
Mailing Address:	
Phone Number:	
Email Address:	
Projected Construction Start Date MM/DD/YY	Projected Construction Completion Date MM/DD/YY

APPLICABILITY (check all that apply)

There are Freshwater Wetlands on the property, AND the project proposes: <input type="checkbox"/> New or increased impervious cover for property other than a single family home; or <input type="checkbox"/> Disturbance of more than 10,000 sq. ft. of existing impervious cover; or <input type="checkbox"/> To fill in a floodplain or alter storm flowage to a river or stream or wetland on <u>an any</u> lot.	Requires FWW#
The project requires an application to the CRMC, AND proposes: <input type="checkbox"/> A residential development of 6 units or more; or <input type="checkbox"/> A project that results in the disturbance or creation of 10,000 sq. ft. or more of impervious cover Date submitted CRMC Assent: _____ and the application # (if known): _____	Requires WQC#
The project proposes an infiltration system that receives stormwater from: <input type="checkbox"/> Any non-residential road or parking facility; or <input type="checkbox"/> Any residential parking or roof combination that is more than 10,000 sq. ft.; or <input type="checkbox"/> Any Land Use with Higher Potential Pollutant Load (LUHPPL) The treatment system discharges: <input type="checkbox"/> Below the ground (UIC); or <input type="checkbox"/> Above the ground and infiltrates (GWD)	Requires UIC/GWD#
The project proposes discharge of stormwater, directed to a water of the State (including a Separate Storm Sewer System (MS4)). <input type="checkbox"/> Disturbance of less than 1 acre, but the activity is part of a larger common plan resulting in more than one acre of disturbance. If yes, list Name: _____ <input type="checkbox"/> Disturbance of more than 1 acre of property <input type="checkbox"/> Disturbance of more than 5 acres of property	Requires RIPDES #

CHANGES IN THE FORMS RESULTED IN CHANGES TO THE APPENDIX A CHECKLIST

- Looks a lot like the RIPDES CGP NOI
- Contains the information required in the NOI
- Has some more calculations and tables – fewer checkboxes but more questions to answer
- LID

Column 1	Column 2	Column 3	Column 4
<i>Municipal Low Impact Development (LID) Practices</i> <i>(Numbers correspond to the numbering in the DEM Municipal Survey)</i>	<i>Does the Municipality Require or allow the LID Practice Listed in Column 1?</i>	<i>What (if any) are the Municipality's Specific Standards for the LID Practice Listed in Column 1?</i>	<i>Does the project comply with the LID practice that the municipality either requires or allows?</i>
1. Conservation Development or other site design technique to protect open space and pre-development hydrology.	<input type="checkbox"/> Required: Complete columns 3 & 4; <input type="checkbox"/> Allowed: Complete columns 3 & 4; <input type="checkbox"/> Not Allowed by municipality; <input type="checkbox"/> Not Applicable: Complete column 4.	Click here to enter text	<input type="checkbox"/> Yes: Describe what was done to comply with the LID practice; <input type="checkbox"/> No: Describe why the project does not comply with the LID practice; <input type="checkbox"/> Not Applicable: Describe why project is not applicable to the LID practice; <input type="checkbox"/> Applicant is seeking a variance(s) from municipality: Describe below. Click here to enter text.
4. Limits on lawn area for residential lots.	<input type="checkbox"/> Required: Complete columns 3 & 4; <input type="checkbox"/> Not Applicable: Complete column 4.	Click here to enter text	<input type="checkbox"/> Yes: Describe what was done to comply with the LID practice; <input type="checkbox"/> No: Describe why the project does not comply with the LID practice; <input type="checkbox"/> Not Applicable: Describe why project is not applicable to the LID practice; <input type="checkbox"/> Applicant is seeking a variance(s) from municipality: Describe below. Click here to enter text
5. Undisturbed vegetative areas on new lots as visual screens.	<input type="checkbox"/> Required: Complete columns 3 & 4; <input type="checkbox"/> Not Applicable: Complete column 4.	Click here to enter text	<input type="checkbox"/> Yes: Describe what was done to comply with the LID practice; <input type="checkbox"/> No: Describe why the project does not comply with the LID practice; <input type="checkbox"/> Not Applicable: Describe why project is not applicable to the LID practice; <input type="checkbox"/> Applicant is seeking a variance(s) from municipality: Describe below. Click here to enter text
6. New lots exclude wetlands and their buffers.	<input type="checkbox"/> Required: Complete columns 3 & 4; <input type="checkbox"/> Not Applicable: Complete column 4.	Click here to enter text	<input type="checkbox"/> Yes: Describe what was done to comply with the LID practice; <input type="checkbox"/> No: Describe why the project does not comply with the LID practice; <input type="checkbox"/> Not Applicable: Describe why project is not applicable to the LID practice; <input type="checkbox"/> Applicant is seeking a variance(s) from municipality: Describe below. Click here to enter text

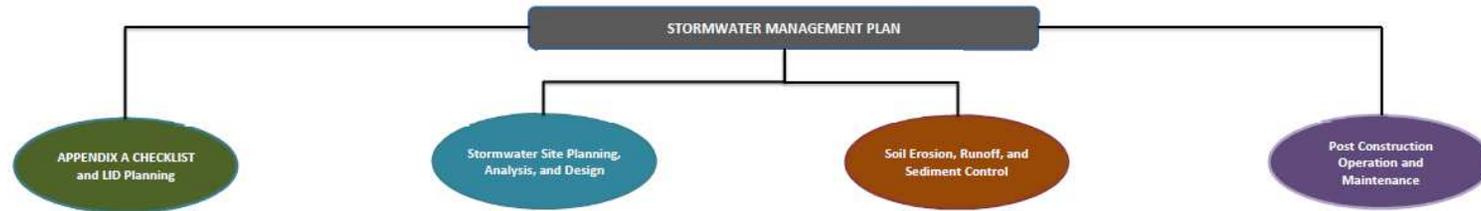
LOW IMPACT DEVELOPMENT (LID) SECTION

ATTACHMENT 1 - DRAFT

WHAT TO SUBMIT

STORMWATER MANAGEMENT PLAN GUIDANCE

The three (4) key elements to include in a Stormwater Management Plan for any project subject to the *RI Stormwater Design and Installation Standards Manual* (RISDISM)



Appendix A Checklist and LID Planning	Stormwater Site Planning, Analysis, and Design Report	Soil Erosion and Sediment Control (SESC) Plan (formerly known as a SWPPP-Stormwater Pollution Prevention Plan)	Operation and Maintenance (O&M) Plan
<p>Includes:</p> <ul style="list-style-type: none"> - Project Description - LID Checklist (Attachment 1) for new development - LID Site Planning Considerations (TMDLs, Coldwater etc.) - Low Impact Development LID Water Quality Credits (QPA) - Submittal Requirements - RIPDES CGP NOI critical information (like HNA certification) - Regulatory Applicability <p>Addresses:</p> <ol style="list-style-type: none"> 1. LID Site Planning 2. Groundwater Recharge 3. Water Quality Area Treatment Requirements 6. Redevelopment and Infill Supporting Documentation 8. LUHPL Identification 9. Illicit Discharge <p>Guidance:</p> <p>Chapter 1 of the RISDISM Manual Attachment 1 - LID Checklist</p>	<p>Includes:</p> <ul style="list-style-type: none"> - Project Narrative - Hydrologic and Hydraulic Analysis - Best Management Practice Volumes and supporting calculations - Calculations <p>Addresses: <u>RISDISM Minimum Standards (as Applicable):</u></p> <ol style="list-style-type: none"> 3. Water Quality Volume and Hydraulic Calculations 8. LUHPL specific BMPs and precautions (if necessary) 4. Conveyance and Natural Channel Protection 5. Overbank Flood Protection and Downstream Analysis <p>Guidance: <u>RISDISM Appendices:</u></p> <ul style="list-style-type: none"> B. Vegetation Guidelines and Planting List C. Retrofitting for Stormwater Management F. BMP Construction Specifications I. RI River and Stream Order K. Hydrologic and Hydraulic Modeling Guidance 	<p>Includes:</p> <ul style="list-style-type: none"> - Erosion, Runoff, and Sediment Control Practices - Construction Activity Pollution Prevention Practices - Control Practice Installation, Inspection, & Maint. Reqs - Site Plans <p>Addresses: <u>RISDISM 11 Minimum Standards:</u></p> <ol style="list-style-type: none"> 10. Construction Erosion and Sedimentation Control <p>Guidance: <u>Guidance Documents:</u></p> <ul style="list-style-type: none"> RI Soil Erosion & Sediment Control Handbook (RISESCH) RI Model Soil Erosion and Sediment Control (SESC) Plan <p>Regs: <u>Regulatory Requirements:</u></p> <ul style="list-style-type: none"> RIPDES Construction General Permit (CGP) (a.1.a) 	<p>Includes:</p> <ul style="list-style-type: none"> - Responsible party(s) and Maintenance Agreement - Long term O&M for each stormwater practice/BMP - Post-construction Pollution Prevention - 8-1/2' x 11" map (to scale) showing location of BMPs - Budget and Funding Source(s) <p>Addresses: <u>RISDISM Minimum Standards:</u></p> <ol style="list-style-type: none"> 7. Post Construction BMP Pollution Prevention 11. Operation and Maintenance <p>Guidance: <u>RISDISM Appendices:</u></p> <ul style="list-style-type: none"> E. Developing Operation and Maintenance Plans G. Pollution Prevention and Source Controls <p>Regs: <u>Regulatory Requirements:</u></p> <ul style="list-style-type: none"> RIPDES Multi-Sector General Permit (MSGP) (for Industrial Sites as defined in RIPDES Rule 31.b.15)

ACRONYMS AND ABBREVIATIONS:

BMP - Best Management Practice
LID - Low Impact Development
MSGP - Multi-Sector General Permit (RIPDES)

RIDEM - Rhode Island Department of Environmental Management
RISDISM - *Rhode Island Stormwater Design and Installation Standards Manual*
SESC Plan - Soil Erosion and Sediment Control Plan

CGP - Construction General Permit (RIPDES)
LUHPLs - Land Uses with Higher Potential Pollutant Loads
O&M Plan - Operation and Maintenance Plan

RIPDES - Rhode Island Pollutant Discharge Elimination System
RISESCH - *Rhode Island Soil Erosion and Sediment Control Handbook*
SMP - Stormwater Management Plan

RI Stormwater Design & Installation Standards Manual

KEY RESOURCES

Draft Documents Pending to be effective 1/1/2017

-  Revised Appendix A Checklist – DRAFT
 -  Revised Soil Erosion and Sediment Control Plan – DRAFT
 -  Revised Stormwater Management Plan Guidance – DRAFT
 -  Revised Coordinated Stormwater Permitting – DRAFT
 -  Screenshot of the Construction Single Application Form – DRAFT
- (Send any comments to:  Alisa.richardson@dem.ri.gov)

-  2015 Stormwater Design Manual
-  RI Stormwater Manual Appendix A Checklist
 (pdf format)  (Word format)
-  Stormwater Technologies
-  Stormwater Permit Applications (Coordinated Stormwater Permitting Page)
-  RI Stormwater Management Guidance for Individual Single-Family Residential Lot Development
-  Appendix A Map Tutorial

LID Guidance Documents:

-  DEM Survey of Municipal Low Impact Development Ordinances
-  LID Fact Sheet
-  LID Site Planning and Design Guidance for Communities
-  Reducing Stormwater Costs through Low Impact Development (LID) Strategies and Practices
-  Addressing Barriers to LID (EPA)

Stormwater Analysis & Design Guidance Documents:

-  Water Quality Goals for Stormwater Discharges to Impaired Waters
-  Stormwater Technologies
-  Separation from Groundwater Guidance
-  Stormwater Treatment Area Calculator

REVISIONS RELATED TO APPENDIX A AND APPLICATION FORMS

Dec 1 – Comments closed on Appendix A checklist

Dec 10 – Post Appendix A checklist

Jan 1 – **NEW Appendix A checklist will be required**

To navigate the website:

Click - Offices and Divisions, Water Resources, Permitting, Stormwater Permitting, Stormwater Manual and Guidance

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The Office of Water Resources (OWR) has created an e-mail list to distribute guidance, policies and new regulations regarding the new RI Stormwater Design and Installation Standards Manual and stormwater permitting programs in OWR. You can subscribe by visiting the user-friendly webpage at <http://listserv.ri.gov/mailman/listinfo/owrinfo>. If you have difficulty subscribing or have other questions, email owner-owrinfo@listserv.ri.gov.

