CONSTRUCTION STORMWATER UPDATES

Alisa Richardson, MS PE
Supervising Sanitary Engineer
Stormwater Engineering and 401 WQC
Office of Water Resources
STORMWATER REGULATION?

- MUNICIPAL
- INDUSTRIAL
- CONSTRUCTION
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
2016 APPLICATION CONSOLIDATION

GOAL 1/1/2017

FRESHWATER WETLANDS [See Rule 5.7, 9.10 of the Water Quality Regulations]

Start

Submit your stormwater design along with your application to the Freshwater Wetlands (FWW) Program

Yes

No

Submit the Water Quality Certification (WQC) Program

Start

Submit the Groundwater Discharge (GWD) Program (includes WQC Underground Injection Control)

Yes

No

Submit the Riparian Buffer Discharge Elimination System (RBDES) Program for a Construction General Permit (CGP)

Yes

No

Submit the Single Construction Stormwater (UC/RIPDES) and WQC Application

Start

Submit the Single Construction Stormwater (UC/RIPDES) and WQC Application

Yes

No

Groundwater Discharge (see Rule 11 of the Groundwater Discharge Regulations)

I am proposing an infiltration system listed in Section 5.3, 5.4, 5.5 or 5.7 in the RI Stormwater Manual that receives stormwater from a **LUPPL**

a residential development of 6 units or more; or

b. a commercial, industrial, or municipal project that results in the creation of 10,000 sq. ft. or more of additional impervious area; or

c. a project that disturbs more than 5 acres of land; or

d. Disturbance of more than 25,000 sq. ft. of existing impervious area (i.e., road development)

No

No

Yes

Yes

No

Yes

No

Discharges of pollutants are prohibited, your site must have good soil, runoff, and erosion control as described in the RI Soil Erosion and Sediment Control Handbook.

**LUPPL** - land use with a higher potential for pollutant use as defined in the RI Stormwater Manual

RIPDES Construction General Permit (see the RIPDES Regulations):

I am proposing a construction general permit under the RI Stormwater Manual (RIPDES) Program for a Construction General Permit (CGP)

The content of the page is a flowchart that outlines the steps for submitting an application for stormwater management, including requirements and conditions for different types of projects. The page also includes references to specific regulations and permits, such as the Freshwater Wetlands program and the Water Quality Certification program. The goal is set for 1/1/2017.
APPLICATION FOR STORMWATER ENGINEERING AND WATER QUALITY CERTIFICATION

For New Permits and Permit Modifications

- 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

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 RI RIPDES NOI General Permit for Stormwater Discharge System (RIPDES NOI General Permit for Stormwater Discharge System)

Please fill all applicable information by completing the blue shaded areas:

<table>
<thead>
<tr>
<th>Project or Site Name</th>
<th>Site Disturbance Area</th>
<th>Total Site Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>City/Town</td>
<td>State/Zip</td>
</tr>
<tr>
<td>Assessor's Name</td>
<td>Assessor's Contact</td>
<td>Latitude/Longitude</td>
</tr>
<tr>
<td>RI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description of Project Location or Other Information</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Previous WQC #</th>
<th>Previous UCC #</th>
<th>Previous RIDES #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Owner/Applicant's Name</th>
<th>Phone</th>
<th>Email (required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>City/Town</td>
<td>State/Zip</td>
</tr>
<tr>
<td>Organization/Company</td>
<td>Contact Person</td>
<td>Owner/Applicant Type</td>
</tr>
</tbody>
</table>

Certification/Declaration: I hereby certify that the person authorized to complete this document, completion, and submission of the information in this form, contains the following statements: I have personally examined and do certify that this form was completed by me, and to the best of my knowledge, accuracy and completeness of the statements contained. I fully understand the requirements contained herein and certify that the application is complete, correct, and compliant with all requirements. I declare that I have not submitted this application in lieu of another application, that I have never submitted an application that may be denied, inappropriate, or that does not meet the requirements of the program guidelines. If so, I represent to the best of my knowledge that:

Applicant’s Signature | Title | Date |
Freshwater Wetlands Start and Completion of Construction (permit condition)

Water Quality Certification Start and Completion of Construction (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 02906-5507
Telephone: 401-222-6600; Rhode Island Relay: 711; FAX: 401-222-6777

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.

Double-click to select notification type:
- [ ] Freshwater Wetlands
- [ ] Water Quality Certification
- [ ] Stormwater Discharge System
- [ ] RIPDES Permit Authorization

Permit Type:
- Freshwater Wetlands: FWW File Numbers:
- Water Quality Certification: WQC File Numbers:
- Stormwater Discharge System: SWD File Numbers:
- RIPDES Permit Authorization: RIPDES File Numbers:

Enter Project or Site Name:
- [ ] Project or Site Name:
- [ ] City/Town:
- [ ] State:
- [ ] Zip:
- [ ] Facility ID:

Provide a brief description of work to be completed:
- Anticipated Start Date:

Describe any conditions encountered, during construction and installation, that may have resulted in changes or modifications to what was approved:
- Completion Date:

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

**FRESHWATER WETLAND, WATER QUALITY CERTIFICATION and STORMWATER ENGINEERING PERMIT APPLICATION**

Renewals and Transfers

Provide all applicable information by completing shaded areas.

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

<table>
<thead>
<tr>
<th>Permit Type</th>
<th>Permit Number</th>
<th>Approval Date</th>
<th>Expiration Date</th>
<th># of Previous Approvals</th>
</tr>
</thead>
</table>

**Permit History**

- **Double-click** if actual site work has commenced on this project.

<table>
<thead>
<tr>
<th>Project or Site Name</th>
<th>Site Disturbance Area</th>
<th>Total Site Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>acres</td>
<td>acres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
</table>

### CURRENT Permittee

- **Permittee's Name:**
- **Phone:**
- **Email:**

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Organization/Company</th>
<th>Contact Person</th>
<th>Title</th>
</tr>
</thead>
</table>

### NEW Permittee

- **Permittee's Name:**
- **Phone:**
- **Email (Required):**

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
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<thead>
<tr>
<th>Organization/Company</th>
<th>Contact Person</th>
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</tr>
</thead>
</table>
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

### APPENDIX A: STORMWATER MANAGEMENT CHECKLIST

<table>
<thead>
<tr>
<th>Project Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact for Stormwater Design Questions:</td>
</tr>
<tr>
<td>Company/Organization:</td>
</tr>
<tr>
<td>Mailing Address:</td>
</tr>
<tr>
<td>Phone Number:</td>
</tr>
<tr>
<td>Email Address:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Projected Construction Start Date</th>
<th>Projected Construction Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM/DD/YY</td>
<td>MM/DD/YY</td>
</tr>
</tbody>
</table>

### APPLICABILITY (check all that apply)

<table>
<thead>
<tr>
<th>Requires FWW6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requires WQC6</td>
</tr>
<tr>
<td>Requires UIC/GW6</td>
</tr>
<tr>
<td>Requires RIPDES #:</td>
</tr>
</tbody>
</table>

- There are Freshwater Wetlands on the property, AND the project proposes:
  - New or increased impervious cover for property other than a single family home; or
  - Disturbance of more than 10,000 sq. ft. of existing impervious cover; or
  - To fill in a floodplain or alter storm flowage to a river or stream or wetland on any lot

- The project requires an application to the CRMC, AND proposes:
  - A residential development of 6 units or more; or
  - A project that results in the disturbance or creation of 10,000 sq. ft. or more of impervious cover

- The project proposes an infiltration system that receives stormwater from:
  - Any non-residential road or parking facility; or
  - Any residential parking or roof computation that is more than 10,000 sq. ft.; or
  - Any Land Use with Higher Potential Pollutant Load (LUHPPL)

- The treatment system discharges:
  - Below the ground (UIC); or
  - Above the ground and infiltrates (GW6)

- The project proposes discharge of stormwater, directed to a water of the State (including a Separate Storm Sewer System (MSS),
  - Disturbance of less than 1 acre, but this activity is part of a larger common plan resulting in more than one acre of disturbance. If yes, fill Name:_____
  - Disturbance of more than 1 acre of property
  - Disturbance of more than 5 acres of property
### LOW IMPACT DEVELOPMENT (LID) SECTION

**Attachment 1 - Draft**

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal Low Impact Development (LID) Practices</td>
<td>Does the Municipality Require or State the LID Practice Listed in Column 1?</td>
<td>What (if any) are the Municipality's Specific Standards for the LID Practice Listed in Column 1?</td>
<td>Does the project comply with the LID practice that the municipality either requires or states?</td>
</tr>
<tr>
<td><strong>1. Conservation Development or other site design techniques to protect open space and pre-development hydrology.</strong></td>
<td>Click here to enter text.</td>
<td>Yes: Describe what was done to comply with the LID practice.</td>
<td>No: Describe why the project does not comply with the LID practice;</td>
</tr>
<tr>
<td><strong>4. Limits on lean area for residential lots.</strong></td>
<td>Click here to enter text.</td>
<td>Yes: Describe what was done to comply with the LID practice.</td>
<td>No: Describe why the project does not comply with the LID practice;</td>
</tr>
<tr>
<td><strong>5. Undisturbed vegetative areas on new lots as visual screens.</strong></td>
<td>Click here to enter text.</td>
<td>Yes: Describe what was done to comply with the LID practice.</td>
<td>No: Describe why the project does not comply with the LID practice;</td>
</tr>
<tr>
<td><strong>6. New lots exclude wetlands and their buffers.</strong></td>
<td>Click here to enter text.</td>
<td>Yes: Describe what was done to comply with the LID practice.</td>
<td>No: Describe why the project does not comply with the LID practice;</td>
</tr>
</tbody>
</table>

**APPENDIX A: STORMWATER MANAGEMENT CHECKLIST**

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*Image and text content adjusted for readability.*
# WHAT TO SUBMIT

## STORMWATER MANAGEMENT PLAN GUIDANCE

The three (3) key elements to include in a Stormwater Management Plan for any project subject to the RI Stormwater Design and Installation Standards Manual (RSDSM):

1. **Appendix A Checklist and LD Planning**
   - Project Description
   - LD Checklist (Attachment E) for new development
   - LD Site Planning Considerations (REDD, Collisions, etc.)
   - Low Impact Development and Green Roof Quality Criteria (Zoning)
   - Post Construction Maintenance Plan
   - RFOES BMP Rural Information Plan (RIPR) Certification
   - Regularity Appendix

2. **Stormwater Site Planning, Analysis, and Design Report**
   - Project Description
   - Hydrology and Hydraulic Analysis
   - Best Management Practice Volumes and supporting calculations
   - Calculations

3. **Post Construction Operation and Maintenance**
   - Post Construction Plan
   - Pre Construction Plan

### STORMWATER MANAGEMENT PLAN

**Accessories**
- Project Description
- LD Checklist (Attachment E) for new development
- LD Site Planning Considerations (REDD, Collisions, etc.)
- Low Impact Development and Green Roof Quality Criteria (Zoning)
- Post Construction Maintenance Plan
- RIPR Certification
- Regularity Appendix

**Guidance**
- Chapter 1 of the RSDSM Manual
- Attachment E - LD Checklist

**Stormwater Site Planning, Analysis, and Design Report**
- Project Description
- Hydrology and Hydraulic Analysis
- Best Management Practice Volumes and supporting calculations
- Calculations

**Post Construction Operation and Maintenance**
- Post Construction Plan
- Pre Construction Plan

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**Abbreviations and Abbreviations:**

- BMP - Best Management Practice
- RWEM - Rhode Island Department of Environmental Management
- DEP - Environmental Protection Agency
- LD Planning - Low Impact Development Planning
- RSDSM - Stormwater Design and Installation Standards Manual
- RIPR - Riparian Information Plan (RIPR)
- RFOES - Rhode Island Stormwater Department
- SMP - Stormwater Management Plan

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**Stormwater Site Planning, Analysis, and Design Report**

- Project Description
- Hydrology and Hydraulic Analysis
- Best Management Practice Volumes and supporting calculations
- Calculations

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**Post Construction Operation and Maintenance**

- Post Construction Plan
- Pre Construction Plan

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**Abbreviations and Abbreviations:**

- BMP - Best Management Practice
- RWEM - Rhode Island Department of Environmental Management
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- LD Planning - Low Impact Development Planning
- RSDSM - Stormwater Design and Installation Standards Manual
- RIPR - Riparian Information Plan (RIPR)
- RFOES - Rhode Island Stormwater Department
- SMP - Stormwater Management Plan
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

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