



**SPECIAL NOTE FOR RIDOT’s MS4 ANNUAL REPORT**

RIDOT entered a Consent Decree with the United States Environmental Protection Agency (EPA) and the US Department of Justice for non-compliance findings with the RIPDES Small MS4 General Permit. The Consent Decree was entered by US Federal Court and became effective on December 22, 2015 and will continue until all Remedial Measures have been completed by RIDOT, estimated to be in the year 2026. The Consent Decree and all associated RIDOT documents may be found on the RIDOT Stormwater Management Webpage at: <http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Stormwater Management, Good Housekeeping, and Total Maximum Daily Loads (TMDLs).

As the Consent Decree also requires reporting, the Department of Environmental Management has agreed to allow RIDOT to reduce duplicative reporting and only report unique RIPDES Minimum Measure requirements in this Annual Report. Therefore, where Consent Decree Remedial Measures overlap with RIPDES Minimum Measures, the RIDOT will report in the Consent Decree Compliance Report only.

Table: RIDOT REPORTING MECHANISM

RIDEM Minimum Measure	RIPDES	EPA Consent Decree Remedial Measure	RIDOT Reporting Mechanism
1. Public Ed/Outreach		N/A	Report in RIPDES Annual Report
2. Public Involvement		N/A	Report in RIPDES Annual Report
3. IDDE		C. IDDE	<b>ONLY report in Consent Decree Compliance Reports</b> (due 3/10 and 8/1); Provide RIDEM with reports.
4. Construction Site Stormwater Management		N/A	Report in RIPDES Annual Report
5. Post Construction Stormwater Management		D. Housekeeping/ O&M	<b>ONLY report in Consent Decree Compliance Reports</b> (due 3/10); Provide RIDEM with reports.
6. Good Housekeeping		D. Housekeeping/ O&M	<b>Report in Consent Decree Compliance Reports</b> (due 3/10) for Catch Basin and Street Sweeping efforts; Provide RIDEM with reports. <b>Report in RIPDES Annual Report</b> for other elements (stabilization of Road Side Shoulders, reducing floatables, Maintenance Facility SWPPPs and SPCCs).
TMDLs		A & B. TMDLs and Impaired Waters	<b>ONLY report in Consent Decree Compliance Reports</b> (due 3/10); Provide RIDEM with reports.
SRPWs & Impaired Waters		A & B. TMDLs and Impaired Waters	<b>ONLY report in Consent Decree Compliance Reports</b> (due 3/10); Provide RIDEM with reports.



**MINIMUM CONTROL MEASURE #1:  
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS, AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** \*Heather Hamilton, Principal Environmental Scientist

**Phone:** \*401-921-2356 **Email:** \*heather.hamilton@dot.ri.gov

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.
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**BMP 1A, 1B – URI AGREEMENT** (Allison Hamel)

RIDOT's Office of Stormwater Management (OSM) is responsible for partnering with Rhode Island Department of Environmental Management (RIDEM) and the University of Rhode Island (URI), through their Nonpoint Education for Municipal Officials (NEMO) Program at the Cooperative Extension of the College of the Environment and Life Sciences, to provide training to State and Municipal officials, and to create a coordinated statewide public outreach message. The target audience consists of State and Municipal officials, watershed groups, residents, and RIDOT personnel.

Throughout 2013, RIDOT, RIDEM, and URI worked on drafting a new Agreement between these entities, which provides measurable goals, a five-year timeline, and a budget for implementation. The Agreement was finalized and signed by all parties in June 2014 and continued throughout 2019. The Agreement is structured to be funded for one (1) year, with the ability to extend the term to a total of five (5) years, pending funding availability. This Agreement is anticipated to constitute full compliance with Minimum Measure 1 of the current RIPDES General Permit during the term of the Agreement. **[ATTACHMENT 1A]**

A detailed summary of URI work has been provided for 2019. **[ATTACHMENT 1B]**

**RESPONSIBLE PARTIES** - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT's Public Education and Outreach Program with significant support & coordination from RIDOT and RIDEM. The RIDOT OSM is responsible for the Program Management of this Agreement.

**EFFECTIVENESS** - This Minimum Measure work has been extremely effective. Both Municipal officials and RIDOT personnel have received effective, appropriate, and useful training through this initiative. URI NEMO has continued to provide very high-quality training with support from RIDEM and RIDOT.

**YEAR 17 (2020) EXPECTED ACTIONS** - The NEMO grant ended on 12/31/19. In 2020, RIDOT will focus efforts on offering StormwaterONE construction stormwater training modules to RIDOT staff, all RI Municipalities, and private consultants/contractors. RIDOT will also work to facilitate additional training for municipalities and RIDOT staff (i.e. stormwater BMP construction and maintenance, IDDE) through collaborations with the Providence Stormwater Innovation Center (PSIC). Part of the PSIC will offer a public education section in the Roger Williams Park proposed visitor center. The focus will be on water quality and stormwater pollution.

**BMP 1C – RIDOT STORMWATER PROGRAM WEBSITE** (RIDOT OSM & Communications Office)

RIDOT has continued to maintain the Stormwater Program web page on the RIDOT website.

In 2014, RIDOT completely redesigned the Department's website, including the Stormwater Program web page. The new page is located at <http://www.dot.ri.gov/about/stormwater.php>

Throughout 2019, RIDOT continued to update the page as necessary to include new information from the EPA Consent Decree compliance efforts and MS4 compliance.

The primary on-line resource for Public Education and Outreach information will continue to be the “*Know Where It Goes*” website, created under the original RIDOT/RIDEM/URI Public Education and Outreach Agreement. Although the agreement ended 12/31/19, RIDEM will continue regular website maintenance of the “*Know Where It Goes*” campaign.

**RESPONSIBLE PARTIES** - The RIDOT Office of Communications, working with support from the OSM, is the primary RIDOT entity responsible for the updating of the RIDOT Stormwater Program web page. The RIDEM is the primary entity responsible for the updating of the “*Know Where It Goes*” website.

**EFFECTIVENESS** - This Minimum Measure is an effective tool to provide general information about storm water issues and RIDOT’s efforts to manage stormwater.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT will update the RIDOT Stormwater Program page. RIDEM will maintain the RI Stormwater Solutions website.

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.
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**PUBLIC EDUCATION PROGRAM**

URI NEMO provides Annual Reports each year to RIDOT & RIDEM, which includes the measurable goals set and agreed upon by RIDOT, RIDEM, and URI in the contract agreement, and the success towards each. **[ATTACHMENT 1B]**

**RHODE ISLAND GREEN INFRASTRUCTURE COALITION COLLABORATION** (Joseph Baker)

RIDOT’s OSM continued to collaborate with the RI Green Infrastructure Coalition (GIC) to fund, prepare, and print interpretive stormwater signs. The signs are intended to increase public awareness and education about the benefits of properly managing stormwater. Any member organization of the GIC may request the signs that spread the “Nature at Work” stormwater message **[ATTACHMENT 1C]**. During 2019, 39 signs were provided to the following organizations (quantity in parentheses): Woonasquatucket River Watershed Council (2), Green Infrastructure Coalition (20), Eastern RI Conservation District (9), The Trust for Public Land (2), Clean Ocean Access (2), and Town of Warren Conservation Commission (4). Signs are currently available in both English and Spanish.

**RESPONSIBLE PARTIES** – The GIC gathers the member organizations’ requests. The OSM serves as the Department’s point of contact and clearinghouse for any new sign requests received by the GIC. RIDOT’s Division of Highway & Bridge Maintenance Sign Shop fulfills the sign requests by fabricating them and the GIC distributes the signs back to the organizations.

**EFFECTIVENESS** - This Minimum Measure work has been extremely effective. Organizations have noted positive responses from communities where signs are installed.

**YEAR 17 (2020) EXPECTED ACTIONS** – RIDOT OSM will continue to fund and fabricate these signs to improve public stormwater education.

**WOONASQUATUCKET RIVER WATERSHED COUNCIL AGREEMENT** (Alisa Richardson)

RIDOT’s OSM collaborated with the Woonasquatucket River Watershed Council (WRWC) to initiate, fund, and manage stormwater improvement projects throughout the Woonasquatucket Watershed. This Construction and Maintenance Agreement is for five years (signed in 2018). Part of the agreement includes stormwater education for the public and so far, has funded public green infrastructure tours to areas improved by the collaborative water quality projects and their River Ranger Program. The C & M agreement is included as **ATTACHMENT 1D**.

In 2019 RIDOT collaborated with WRWC through this agreement to:

- Complete the Citizens Bank Olneyville project. WRWC and State staff were given an educational tour and WRWC is now adding this project to its educational suite of tours for the public and children. WRWC is also showcasing the project in its presentations and on its website.
- Initiate the 10-year plan (to be completed in March of 2020)
- Design and construct the Pleasant Valley Parkway trees project, along with Providence Parks Department. Construction began in the fall of 2019 and will be completed in the spring of 2020.
- Design and permit a parking lot retrofit for the Greystone Social Club, which abuts the Woonasquatucket River. The project is expected to go out to bid in February of 2020.
- Provide match for a \$500,000 SNEP grant that approves more retrofitted parking lots along the Woonasquatucket River. This project will begin to implement the 10-year plan.

**RESPONSIBLE PARTIES** – WRWC (Alicia Lehrer) is the primary entity responsible for the implementation of the public education portion of this Agreement. The RIDOT OSM is responsible for the Program Management of this Agreement.

**EFFECTIVENESS** - This Minimum Measure work has been effective in the short time it has been active, by providing stormwater education within the urban neighborhoods where WRWC has completed projects.

**YEAR 17 (2020) EXPECTED ACTIONS** – Two projects will be completed, and the 10-year plan will be completed and initiated. We anticipate additional projects being funded, designed, and implemented during 2020.

**RHODE ISLAND STATE CONSERVATION COMMITTEE AGREEMENT** (\*Susan Votta)

RIDOT's OSM collaborated with the RI State Conservation Committee (RISCC) during 2018, including a Construction and Maintenance Agreement between the two agencies (which became active in early 2019). This agreement [**ATTACHMENT 1E**] will not only yield projects that will improve stormwater/water quality but will afford opportunities for public education/involvement. The first project, between the Eastern Rhode Island Conservation District and Melville School, was to address pollutant removal, stormwater infiltration and create an outdoor learning environment. Phase I of this project was completed in the Fall of 2019.

**RESPONSIBLE PARTIES** – RISCC (Maria Mack) is the primary entity responsible for the implementation of the public education portion of this Agreement. The RIDOT OSM is responsible for the Program Management of this Agreement.

**EFFECTIVENESS** - This Minimum Measure work has been effective in the short time it has been active, by providing stormwater education to children in the outdoor classroom, as well as educating the larger school community.

**YEAR 17 (2020) EXPECTED ACTIONS** – Phase II of the Melville School project will be undertaken in 2020. We also anticipate additional projects being funded, designed, and implemented during the same time.

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input checked="" type="checkbox"/> Construction Sites	sediment, total suspended solids, phosphorus, nitrogen, toxics (concrete washout, fuel leaks, etc.)
<input checked="" type="checkbox"/> Pesticide and Fertilizer Application	nitrogen and phosphorus
<input checked="" type="checkbox"/> General Stormwater Management Information	trash, grass clippings (nutrients), toxics (auto care)
<input checked="" type="checkbox"/> Pet Waste Management	bacteria
<input checked="" type="checkbox"/> Household Hazardous Waste Disposal	toxics
<input type="checkbox"/> Recycling	
<input checked="" type="checkbox"/> Illicit Discharge Detection and Elimination	bacteria (sanitary waste connections)
<input checked="" type="checkbox"/> Riparian Corridor Protection/Restoration	thermal pollution, phosphorus, nitrogen, bacteria
<input checked="" type="checkbox"/> Infrastructure Maintenance	TSS, Nitrogen, phosphorus, TSS, pathogens, metals
<input checked="" type="checkbox"/> Trash Management	bacteria (pet waste)
<input type="checkbox"/> Smart Growth	
<input checked="" type="checkbox"/> Vehicle Washing	toxics (soap, oil, metals)
<input checked="" type="checkbox"/> Storm Drain Marking	trash, bacteria (pet waste), toxics (paint, oil)
<input type="checkbox"/> Water Conservation	
<input checked="" type="checkbox"/> Green Infrastructure/Better Site Design/LID	nitrogen, phosphorus, TSS, bacteria, runoff volume (impervious cover)
<input checked="" type="checkbox"/> Wetland Protection	thermal pollution, phosphorus, nitrogen, bacteria
<input type="checkbox"/> Other:	

**Specific audiences targeted during this reporting period:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Public Employees | <input checked="" type="checkbox"/> Contractors    |
| <input checked="" type="checkbox"/> Residential      | <input checked="" type="checkbox"/> Developers     |
| <input checked="" type="checkbox"/> Businesses       | <input checked="" type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants                 | <input type="checkbox"/> Industries                |
| <input type="checkbox"/> Other:                      | <input checked="" type="checkbox"/> Agricultural   |

Please list all stormwater training attended by your staff during the 2019 calendar year and list the names and municipal position of all staff who attended the training.

**Office of Stormwater Management Training 2019**

1/17/2019	Intro to GIS	Alisa Richardson AR, Heather Hamilton, Trevor . Susan Votta, John Preiss
1/29/2019	Improving Resilience of Urban Street Trees Renewal of Stormwater Systems Using Trenchless	Allison Hamel, Brendan Cunha
3/6/2019	Technologies	Brian Moore
3/15/2019	Smart Island Series	AR, BC, TJ, Joseph Baker, HH
4/3/2019	Geosynthetics Engineering Design & Implementation of Erosion & Sediment	SV
4/10/2019	Control (2 day)	AR, TJ, JB
4/15/2019	OSHA 30	AH
5/7/2019	SFPUC Green Infrastructure Maintenance Model	

5/10/2019	Strategies for Addressing Impaired Waters & Achieving Project Delivery	AR, JP
5/16/2019	RIDOT Stormwater Control Plan Training	AH, JP
6/1/2019	AutoCAD 2019 Fundamentals	SV, TJ
6/3/2019	ESRI Field Data Collection and Management using ArcGIS	AH
8/2/2019	Community Resiliency Workshop	AH, Nicole Lineberry
8/14/2019	Quantifying Rainfall Interception in the Urban Canopy	SV
8/15/2019	Stormwater Workshop	HH
8/21/2019	Construction Stormwater Management	HH
9/10/2019	Landscape Architect in the Nursery, Tagging Trees & Enforcing Specs	SV
9/11/2019	LID Workshop	HH
10/1/2019	Overview of EPA's NPDES Permit Application Forms	HH
10/2/2019	Saltmarsh Restoration	HH, JB
10/3/2019	Erosion Control Field Day	Frank Perri, MN
10/15/2019	FHWA-NEPA-EJ, ESA Training	AR, NL
10/25/2019	Acting Now for a Resilient Southeast Coastal New England (SNEP Forum)	HH
11/18/2019	Stormwater One	Ian Kirby
11/19/2019	Health Benefits of City Trees	SV
12/5/2019	Construction to Maintenance Handoff	HH, AH, AR, BM, JB
12/12/2019	Implementing Your Stormwater Program	HH, AH, Mark Nimiroski

**Maintenance Division Training 2019:** The OSM continued with individualized training of Maintenance staff regarding IDDE, pollution prevention, and environmental topics. OSM met with the Drainage Superintendent quarterly to review environmental and drainage issues.

**RESPONSIBLE PARTIES** - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT's Public Education and Outreach Program with significant support & coordination from the RIDOT and RIDEM. RIDOT's Office of Professional Development and Training also supports training efforts.

The OSM is the primary RIDOT entity responsible for the implementation of stormwater management training within the RIDOT Construction Training Program and the RIDOT Maintenance Training Program.

**EFFECTIVENESS** - This Minimum Measure work has been extremely effective. Both municipal officials and RIDOT personnel have received effective, appropriate, and useful training through this initiative.

**YEAR 17 (2020) EXPECTED ACTIONS-** RIDOT expects to increase training efforts through a partnership with the PSIC. Maintenance related trainings proposed include GI/STU/BMP maintenance at Roger Williams Park and IDDE (RIDOT purchased and received one camera truck at the end of 2019).

The RIDOT OSM will continue to provide stormwater education to RIDOT Project Managers, Construction, Maintenance personnel and will continue to aid RIDEM and other State Agencies in stormwater education. StormwaterONE course offerings continue to be available to municipalities, RIDOT staff, and private consultants/contractors.

The Office of Professional Development and Training is committed to help meet RIDOT's professional development needs and will continue to offer learning opportunities and schedule training according to demand. The OSM has been coordinating with the Chief of the Office of Professional Development and Training to provide stormwater and environmental training to all RIDOT staff. Numerous RIDOT staff will attend the NHI Design and Implementation of Erosion and Sediment Control in February of 2020.



**MINIMUM CONTROL MEASURE #2:  
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS, AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** \*Heather Hamilton, Principal Environmental Scientist

**Phone:** \*401-921-2356    **Email:** \*heather.hamilton@dot.ri.gov

IV.B.2.b.2.ii	Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.
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**BMP 2B – PUBLIC INVOLVEMENT**

The RIDOT’s OSM is responsible for partnering with RIDEM and URI, through their NEMO Program at the Cooperative Extension of the College of the Environment and Life Sciences, to provide a coordinated, statewide public outreach and involvement program. The target audience consists of State and Municipal officials, environmental & watershed groups, residents, and educational organizations.

Throughout 2013 & 2014, RIDOT, RIDEM, and URI continued to work on drafting a new Agreement between these entities, which provides measurable goals, and a five-year timeline, and a budget for implementation. The Agreement was finalized and signed by all parties in June 2014. **[ATTACHMENT 1A]** The Agreement continued throughout 2018 and was extended until the end of 2019. This Agreement constituted full compliance with Minimum Measure 2 of the RIPDES General Permit, with exception of the requirement for Public Notice of the Annual Report, during the term of the Agreement.

A detailed summary of URI work has been provided for **2019**. **[ATTACHMENT 1B]**

**RESPONSIBLE PARTIES** - The University of Rhode Island is the primary entity responsible for the implementation of RIDOT’s Public Education and Outreach Program with significant support & coordination from the RIDOT and RIDEM. RIDOT’s OSM is responsible for the Program Management of the URI Agreement and Public Involvement.

**EFFECTIVENESS** - This Minimum Measure work has been extremely effective. Municipal officials, RIDOT personnel, and the general public have been given the opportunity to provide their input and insight on RIPDES requirements. URI NEMO has continued to provide very high-quality training with support from both RIDEM and RIDOT and the URI T2 Center.

**YEAR 17 (2020) EXPECTED ACTIONS** – Since the NEMO agreement ended at the end of 2019, RIDOT is proposing and working toward partnering with the Providence Stormwater Innovation Center at Roger Williams Park (RWP) to meet MM2, except the Public Notice Period requirement. RIDOT is currently working on the agreement details to fund stormwater outreach, education, and training, including the stormwater portion of the Visitor Information Center at RWP, proposed for construction in 2020.

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program Plan (SWMPP) during this reporting period. Check all that apply:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Cleanup Events     | <input type="checkbox"/> Storm Drain Markings            |
| <input type="checkbox"/> Comments on SWMPP Received    | <input checked="" type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines            | <input type="checkbox"/> Volunteer Monitoring            |
| <input checked="" type="checkbox"/> Community Meetings |  |

**Additional Measurable Goals and Activities**

The OSM staff actively attends statewide & municipal meetings provided by municipalities, RIDEM, conservation groups, community groups, watershed groups, and other State agencies as part of MS4 RIPDES compliance, TMDL/Impaired Water compliance etc. Additionally, RIDOT invites stakeholders to participate and comment on Consent Decree and MS4 compliance initiatives (Stormwater Control Plan development, RIDOT Linear Manual, Capital Improvement Program, etc.)

**2019 Coordination with RIDEM and other MS4s, Stakeholders, & Community Groups:**

- ABC, The Bachelorette
- Advancing Women in Transportation- RI
- Aquidneck Island Land Trust
- Aquidneck Island Planning Commission
- American Council of Engineering Companies
- Audubon Society of Rhode Island
- Clean Ocean Access
- Coastal Resources Management Council
- Construction Industries of Rhode Island
- Eastern RI Conservation District
- Farm Fresh RI
- Green Infrastructure Coalition
- Island Waters
- Narragansett Bay Commission
- Narragansett Bay Estuary Program
- National Parks Service
- New England Interstate Water Pollution Control Commission
- Pollinator Working Group
- Portsmouth School Department
- Providence Parks and Recreation, Roger Williams Park
- Providence Planning Department
- RI Dept. of Environmental Management
- RI Infrastructure Bank
- RI Land and Water Partnership
- RI MS4s – Barrington, Bristol, Cumberland, East Greenwich, Johnston, Middletown, Narragansett, Newport, North Kingstown, Pawtucket, Portsmouth, Providence, Smithfield, South Kingstown, Tiverton, Warren, Warwick
- RI Public Works Association
- RI Rivers Council
- RI State Conservation Committee
- Save the Bay
- Southern New England Clean Water Network
- The Nature Conservancy
- The University of Rhode Island Department of Civil and Environmental Engineering
- The University of Rhode Island Department of Natural Resource Sciences
- The University of Rhode Island Non-Point Education for Municipal Officials
- The University of Rhode Island Transportation Center
- Trust for Public Lands
- US EPA
- Warren Conservation Commission
- Water Resources Board
- Wood-Pawcatuck Watershed Association
- Woonasquatucket River Watershed Council

**BMP 2A – ADOPT-A-HIGHWAY PROGRAM**

In 2019, the RIDOT Maintenance Division continued to support both the Adopt-a-Highway and the Sponsor-a-Highway programs.

<http://www.dot.ri.gov/community/adopta/index.php>

The **Adopt-a-Roadway** Program (formerly Adopt-a-Highway) is geared for non-profit, volunteer groups such as environmental groups, students, boy/girl scouts, and civic minded businesses. RIDOT Maintenance provides advanced warning signs, safety vests, litter picks and trash bags. RIDOT Maintenance Division also fabricates and installs signs for this program (small signs are free to not-for-profit organizations; larger signs are a charge). The Sponsor is responsible to do a minimum of 4 cleanups per year. The segments in the AAR Program are on secondary roads (no high-speed routes or interstates).

The **Adopt-a-Highway** Program (formerly Sponsor-a-Highway) is geared toward businesses and there are currently two companies that the Department does business with, Adopt-a-Highway Maintenance Corporation (AAHMC) and Adopt-a-Highway Litter Removal Service of America, Inc. (AAHLRSA). AAHMC and AAHLRSA are both based out of California and they are active in many states. They both charge a monthly fee to each Sponsor for the sign panel (Catch the Wave- Ride with Pride) and they are obligated to clean each segment 19 times per year. There is a set schedule for each company to follow and the cleanups take place on Mondays throughout the year. All companies send electronic cleanup reports.

The **Adopt-a-Spot** Program is designed to encourage landscaping in small locations such as traffic islands, median strips, and other undeveloped areas near roads and intersections.

Measure Indicator	Data Source	Update Frequency	SFY19 Final Target	SFY20 Target	SFY20 July/Aug	SFY20 Sept/Oct	SFY20 Nov/Dec
# of active Adopt-a-Roadway adoptees	Vendor	Monthly	6.3	10	7/8	9/9	9/9
# of active Adopt-a-Highway sponsors	Vendor		20.8	25	20/20	20/20	20/21
# of Adopt-a-Highway litter bags collected during month	Sponsor		992	1100	175/150	80/65	101/90
# of Adopt-a-Roadway litter bags collected during month	Vendors		64	70	5/5	6/0	0/0
# Adopt-a-Spot Permits (New & Renewed)	Vendor	Monthly	93	100	8/3	4/2	1/0

**RESPONSIBLE PARTIES** - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT OSM is provided as needed.

**EFFECTIVENESS** - RIDOT considers this BMP very effective in both public involvement and the reduction of floatables/trash along RIDOT roadways.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT Maintenance will continue this BMP.

**BMP 2C – PRISON CREW CLEANUPS**

In 2019, the RIDOT Maintenance Division continued funding prison crew cleanups along RIDOT roadways.

- In 2019, RIDOT paid \$639,925 for prison crews and picked up 46,351 bags of litter.

**RESPONSIBLE PARTIES** - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program; support from RIDOT OSM is provided as needed.

**EFFECTIVENESS** - RIDOT considers this BMP very effective in both public involvement and the reduction of floatables/trash along RIDOT roadways.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT will continue this BMP. RIDOT also anticipates working to initiate a *roadside recycling program* to reduce the amount of trash sent to the landfill from "Adopt-A-" programs and DOC prison crew cleanup efforts. Heather Hamilton of OSM and William Whelan of Maintenance are responsible for this new initiative.

**BMP 2E – ENHANCEMENT PROGRAM PROJECTS**

See Minimum Control Measure #1 for information on new partnerships with community organizations, a State committee, and non-profit environmental organizations to address environmental quality-mainly stormwater improvement projects.

**RIDOT LINEAR STORMWATER MANUAL**

In February of 2019 RIDOT responded to comments from RIDEM, Coastal Resource Management Council (CRMC) and stormwater consultants and finalized the Linear Stormwater Manual. This manual outlines a standardized process and provide tools to streamline stormwater treatment design for RIDOT projects. The manual aligns RIDEM and CRMC stormwater permitting requirements and provides guidance for complying with stormwater treatment requirement per the Consent Decree between RIDOT, U.S. Department of Justice, and the Environmental Protection Agency.

In June of 2019 RIDOT initiated a phase II of the RIDOT Linear Stormwater Manual. This phase II will help to improve the permitting and standardization of environmental considerations for Design/Build Projects; will provide standardized ACAD files for consultants; will provide standardized templates for permit submittals; and will continue to streamline the development of STUs so that more money can be spent building more STUs.

**SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) \*Note: attach copy of public notice**

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If YES, Date of Public Notice: February 5, 2020 – March 6, 2020 <b>[ATTACHMENT 2A]</b>
How was public notified:	
<input type="checkbox"/> List-Serve (Enter # of names in List: _____)	<input checked="" type="checkbox"/> Newspaper Advertising (Providence Journal)
<input type="checkbox"/> TV/Radio Notices	<input type="checkbox"/> Town Hall posting
<input checked="" type="checkbox"/> Website	<input type="checkbox"/> Other:
Enter Web Page URL: <a href="http://www.dot.ri.gov/about/stormwater.php">www.dot.ri.gov/about/stormwater.php</a>	
Was public meeting held? <input type="checkbox"/> YES <input type="checkbox"/> NO	
Date:	Where:
Summary of public comments received:	
Planned responses or changes to the program:	



### **MINIMUM CONTROL MEASURE #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)**

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The RIDOT has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. US Federal Court entered the Consent Decree and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at:

<http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires Compliance Reporting. Where Consent Decree Remedial Measures cover RIPDES Minimum Measures, RIDOT will report in the Consent Decree Reports only.

**PLEASE SEE RIDOT CONSENT DECREE ANNUAL REPORT FOR INFORMATION ON THIS MINIMUM CONTROL MEASURE.**

***Minimum Measure 3, IDDE: The Consent Decree Remedial Measure C covers all RIPDES Minimum Measure 3 requirements.*** No data is provided in this section of the RIPDES Annual Report.



**MINIMUM CONTROL MEASURE #4:  
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL  
(Part IV.B.4 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections, and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** David Fish, PE, Administrator of Project Management & \*George Ley, Deputy Chief Engineer, Construction Management

**Phone:** 401-222-2468      **Email:** david.fish@dot.ri.gov \*george.ley@dot.ri.gov

IV.B.4.b.1	<p>Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was <b>not</b> developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.  <b>Date of Adoption:</b> N/A                      If the Ordinance was amended in 2018, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 <i>RI Stormwater Design and Installation Standards Manual</i>, and provide references to the amended portions of the local codes/ordinances.</p>
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RIDOT does not have authority to develop &/or adopt ordinances. RIDOT relies on the RIDOT Standard Specifications for Road and Bridge Design and Other Specifications, Contract Specific and Job Specific Specifications, and the RIPDES General Permit for Storm Water Discharge Associated with Construction Activity for compliance with this measure.

The RIPDES General Permit for Storm Water Discharge Associated with Construction Activity requires sediment and erosion control and other waste control at construction sites for sites with disturbance of one acre or greater. As the RIPDES permit requirement is met by the Construction General Permit, RIDOT created standardized construction site Soil Erosion & Sediment Control (SESC) Plan templates, which have been in use at RIDOT since 2008 and have been made available to all MS4s via a training session in August 2009. RIDOT created both a Large Site Soil Erosion & Sediment Control (SESC) Plan Template for projects with an acre or more of soil disturbance (required by the General Permit), and a Small Site SWPPP Template for projects with less than an acre of soil disturbance (not required by the General Permit, but enacted by RIDOT to further control erosion and sedimentation at our Construction sites).

In 2019, the Environmental Division (Natural Resources Unit, Office of MS4 Compliance, and Office of Stormwater Management) began creating a permit tracking system for environmental permits. This will improve compliance efforts and provide better information to those in Construction and Project Management as well.

The following BMPs listed are procedures/policies in RIDOT's SWMPP created to prohibit illicit discharges to the MS4.

**BMP 4A – REVIEW & REVISE RIDOT STANDARD SPECIFICATIONS IF NEEDED TO CREATE MORE CONTROLS DURING CONSTRUCTION**

OSM previously drafted revisions to Specification 212 to include new "Other Requirements" (212.03.2) (*Currently being used in our Design-Build Projects and we anticipate portions of the new Spec will be implemented into projects in 2020*). [ATTACHMENT 4A] Additions include: assigning SESC Plan/SWPPP inspection responsibility to contractors who work for RIDOT, requiring inspectors to be certified, additional charges for violations, and providing OSM staff the authority to verify, enforce (including assess charges), and specify maintenance corrective action activities. RIDOT continues to work on Job-Specific (JS pages) and Contract Specific (CS pages) for new RIDOT projects to create more control over Contractor activities on site as necessary.

**BMP 4B – MODIFY STANDARD SPECIFICATION – INSPECTION**

RIDOT has not modified a specific specification to require inspections on a specific timeline, however RIDOT does require weekly and post-storm inspections on all its sites that have potential to introduce pollutants into the MS4 or which have land disturbance (including sites with less than 1 acre of disturbance that are not under the RIPDES CGP). The RIPDES CGP and RIDOT's internal small-site stormwater pollution prevention plan does require weekly and post-storm inspections. Specification 212.03 states that erosion and pollution controls "shall be routinely inspected by the Engineer."

**BMP 4C – MODIFY STANDARD SPECIFICATION - ON-SITE EROSION & SEDIMENT CONTROL**

OSM continues to work on revisions to Specifications 206 (Perimeter and Erosion Controls) through 212 (Maintenance and Cleaning of Erosion and Pollution Controls) to improve use and maintenance of erosion and sediment control on RIDOT construction sites.

**BMP 4D – INSPECTION SCHEDULE**

RIDOT requires SESC/SWPP inspections to occur at least weekly and post-storms on all its sites that have potential to introduce pollutants into the MS4 or which have land disturbance (including sites with less than 1 acre of disturbance that are not under the RIPDES CGP). The RIPDES CGP and RIDOT's internal small-site stormwater pollution prevention plan requires weekly and post-storm inspections. Specification 212.03 does state that erosion and pollution controls "shall be routinely inspected by the Engineer."

**BMP 4E – REVISE WBS/DPM**

RIDOT Resident Engineers (RE)/Inspectors use a standard template for SESC Plan/SWPPP inspections. The SESC Plan inspection form includes specific BMPs by station/sensitive areas. RIDOT continually revises inspection templates to make them easier to understand and more efficient for inspectors.

**BMP 4F – INSPECTION PROGRAM ON PROJECT SPECIFIC BASIS**

RIDOT Construction Management staff conducts weekly/post storm inspections. During 2018, OSM began its own audits of many construction projects, regardless of whether they were "large" or "small" sites. OSM continued with audits but scaled back on formal documentation of audits in 2019 due to other initiatives and lack of inspectors.

**BMP 4G – EROSION AND SEDIMENT CONTROL INSPECTION TECHNIQUES**

Please see Minimum Measure 1 – StormwaterONE Training. RIDOT OSM also continued to conduct one-on-one training in the field for REs/Inspectors on an as-needed, as-requested basis, as permitted by Construction Management. In 2019, RIDOT OSM and Construction staff were invited to a URI Erosion Control Field Day to learn more about stormwater and erosion controls. Private contractors and inspectors began completing construction stormwater inspector training in order to be recognized as "qualified personnel" on RIDOT design-build projects.

In 2018, the OSM created a "Stormwater Resources for RIDOT Construction Projects" educational binder for distribution to REs within the Construction Management Division. The binder includes multiple stormwater factsheets (created in conjunction with URI NEMO), the RIPDES CGP, site specific SESC plan, inspection forms, JS and CS pages, RIDEM/CRMC permit information, general Consent Decree information, OSM memos related to construction stormwater issues, and OSM contact information. OSM continued to distribute these binders to REs and review them on a one-on-one basis after pre-construction meetings. OSM believes this smaller effort with individuals has improved both inspection completion/documentation and stormwater understanding by RIDOT REs.

In October of 2019, OSM sent out fact sheets to Construction Management for distribution to all REs, Inspectors, and Area Engineers to remind them of construction site winter shutdown and soil stabilization requirements [ATTACHMENT 4B].

**BMPs 4H, 4K, 4L – WASTE CONTROL & TRAINING**

RIDOT standard specifications require proper control and disposal of construction site waste. The RE is responsible for ensuring these specifications are met onsite; training is provided as part of Construction Winter Training Series, in person in the field, and in Stormwater Education Binders.

**BMP 4I – MODIFY RIDOT POLICY – SWPPPS INCLUDED IN CONSTRUCTION DOCUMENTS**

SWPPPs/SESC Plans are included in contract documents. OSM also reviews specific concerns in the plans with the assigned RIDOT Construction Management staff and Contractors at the Pre-Construction Meetings. Contractors, RIDOT REs, and RIDOT SWPPP Inspectors sign SWPPP/SESC Plan certification pages.

**BMP 4J – DEVELOP A CONTRACT ENFORCEMENT MECHANISM**

RIDOT has mechanisms in place to assess charges to Contractors if they do not maintain erosion and pollution prevention controls to the satisfaction of the site RE. In 2019 OSM proposed revisions to Specification 212.03.2 (Failure to Maintain Erosion and Pollution Controls **ATTACHMENT 4A**) to include a Stormwater Violation Schedule for Construction and Maintenance Activities. The revisions to the Specification provide OSM with the authority to assess these charges to Contractors in hopes of improving compliance. RIDOT anticipates continuing to fine tune this Spec. in 2020 to include in more projects beginning later in 2020.

**BMPs 4M, 4N, 4O – MEETINGS WITH CONTRACTOR PRIOR TO CONSTRUCTION**

The OSM attends meetings with construction contractors (i.e. “Operators”) prior to start of construction to review environmental constraints and permit conditions. OSM attended at least 24 pre-construction meetings during 2019 and increased efforts to get Operators/Contractors to sign the SWPPPs/SESCs during pre-construction meetings. OSM more than doubled the number of signed SESC Plans/SWPPPs from 2018. OSM raised stormwater concerns during meetings and provided RIDOT REs with educational binders of construction stormwater information (from stormwater fact sheets and applicable Consent Decree requirements to updated inspection forms/instructions, project-specific SESC plans and failure to comply charges). RIDOT, as a department, meets with contractors prior to the start of construction for all projects.

**RESPONSIBLE PARTIES** - RIDOT Design, Construction, Project Management, and the OSM are the primary RIDOT entities responsible for the implementation of this program.

**EFFECTIVENESS** - RIDOT considers this effort effective and has seen improvement. However, SESC Plan/SWPPP compliance in the field remains inconsistent. We believe there has been some improvement overall.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT will continue this effort, including efforts with RIDEM and Construction Industries of Rhode Island to develop and offer contractor stormwater awareness and compliance training, implement RIDOT training on SESC Plans and inspection requirements through StormwaterONE online training and in person training in the field.

IV.B.4.b.6	Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.
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RIDOT’s Executive Office includes a Customer Service Office. The purpose of the Customer Service Office is to keep information lines open between the citizens of Rhode Island and RIDOT. We hope to inform, assist, and coordinate our efforts with the general public, cities/towns, businesses, chambers of commerce, public and private organizations, and elected officials during all phases of transportation projects, from concept through completion, to lessen both construction inconveniences and economic impacts. We will strive to produce an effective public information program incorporating such tools as public meetings, project brochures and informational handouts concerning our roads and bridges. Our web site will continue to post up-to-date information on the progress of our projects. The Customer Service Office will also respond to any questions or concerns the public may have regarding the Department of Transportation. The Customer Service Office may be contacted via phone, email, or the RIDOT website: <http://www.dot.state.ri.us/custserv/index.html>.

RIDOT’s OSM received no public complaints relating to construction sites. RIDOT’s OSM and Maintenance Division did respond to and resolve dozens of drainage complaints from the public in 2019.

**RESPONSIBLE PARTIES** - RIDOT Office of Customer Service is the primary RIDOT entity responsible for the implementation of this program.

**EFFECTIVENESS** - RIDOT considers this effort effective, but not well measured. Construction is not yet integrated into VUEWorks.

<b>YEAR 17 (2020) EXPECTED ACTIONS - RIDOT will continue this effort.</b>	
IV.B.4.b.8	Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.
<p>As the owner, RIDOT does not refer its construction site operators to RIDEM for non-compliance issues. RIDOT must inspect its own sites and address non-compliance issues from within. RIDEM's RIDPES Program is responsible for inspecting RIDOT construction sites for compliance with the CGP and may also rely on RIDOT's documentation of SESC inspections.</p> <p>RIDEM submitted compliance concerns for OSM to investigate for 4 RIDOT construction sites during 2019:</p> <ol style="list-style-type: none"> <li>1. OC&amp;I Complaint No. <b>WP-19-182</b>: 2018-CH-064 (Rte. 44 Gloucester)- erosion and sedimentation due to roadsides being left unstable during winter shutdown. OSM provided info to Construction Management and Project Management to have contractor fix issues. Corrective action work began in January 2020. Contractor to fully stabilize site in the spring. OSM continues to work with Construction Management and Project Management to ensure compliance.</li> <li>2. OC&amp;I Case No. <b>FW-19-149</b>: Rte.138 erosion in right of way, issue discussed and forwarded to RIDOT Maintenance Division for investigation and corrective action.</li> <li>3. OC&amp;I Complaint No. <b>WP-19-93</b>: 2019-CT-024 (Statewide Pavement Striping East)- Mullin Hill Rd, Little Compton, paint chips, RE stated contractor would sweep a second time, provided documentation, RIDEM P. Hogan stated issue was resolved.</li> <li>4. Informal request from RIDEM, no complaint no.: 2018-CH-002 (Prov. Ped. Bridge Parks)- OSM staff investigated and provided inspection information to RIDEM in September 2019. OSM conducted a second inspection during the final inspection in November 2019 and noted areas of erosion to be addressed by the contractor (irrigation issue may be to blame as well). Contractor to rectify rain garden erosion and complete punch list items.</li> </ol>	

**SECTION II. A - Plan and SWPPP/SESC Plan Reviews during YEAR 16 (2019), Part IV.B.4.b.2:** Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre.

**Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

<p># of Construction Applications Received: RIDOT does not receive or review applications, we propose/initiate projects.</p> <p># of Construction Reviews Completed: OSM completed 90 reviews (this includes all projects, not just 1-5 acres of disturbance), including PAPA submission reviews, stormwater reviews for construction plans, other permitting, scoping, etc. Consultants create SWPPP/SESC plans based on RIDOT/RIDEM template.</p>
<p>Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.</p> <p>All RIDOT projects that require SESCOs due to land disturbance activities of at least an acre require RIDEM permitting; in 2019 RIDOT OSM reviewed 90 projects for Stormwater &amp; Consent Decree-related issues during various stages of design (from Scoping to PS&amp;E Contracts). See Section IV.B.4.b.1 above for details regarding policies/procedures for ensuring oversight, as RIDOT does not issue permits.</p> <p>Identify person(s)/Department and/or parties responsible for the implementation of this requirement: RIDOT OSM, Project Management (apply for permits), Natural Resources Unit (assist with permit applications)</p> <p>Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": See "Office of Stormwater Management Training 2019" in MCM #1, Section II. Private contractors have taken American Stormwater Institute, LLC Qualified Construction Stormwater Inspector training. Qualified private consultants create the SWPPPs and SESC Plans.</p>

**SECTION II.B - Erosion and Sediment Control Inspections during YEAR 16 (2019), Parts IV.G.2.n and IV.B.4.b.7:**

Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4 (the program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site). Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: approx. 143 (includes all sites, including those with <1acre disturbance, open projects)	
# of Site Inspections: Unknown	# of Complaints Received: 0
# of Violations Issued: Unknown	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions, include an evaluation of the effectiveness of the program.	
<p>RIDOT does not have the authority to take enforcement actions but has increased efforts to educate Construction Management field staff, document non-compliance and improve communication with REs and private contractors to take corrective actions on site in a timely manner. While the improvements to the program by OSM have shown an increase in understanding and submission of inspection reporting by Construction, Construction must take more of an active involvement with contractors to improve compliance.</p> <p><b>Large Site SESC Projects (&gt;1acre):</b> RIDOT Construction projects that disturb an area equal to or greater than one acre are required to have Soil Erosion &amp; Sediment Control (SESC) Plans under the RIPDES Construction General Permit. SESC Plans require erosion and sedimentation control inspections on a weekly basis, and after a storm event (&gt;/=0.25") until the site is stabilized at the end of the project. RIDOT REs and Construction Inspectors perform SESC Plan inspections on RIDOT construction projects and submit documentation to OSM. Several sites (including design-build projects) utilize contracted third-party inspectors (qualified personnel from private consulting firms) to document site conditions and required corrective actions. In 2019, OSM continued efforts to track inspections performed, audit construction sites themselves, improve communication between OSM and Construction Management, and improve site compliance.</p> <p>RIDOT OSM inspection staff completed informal inspections (audits) of multiple projects (both "large" and "small" sites) in 2019 (these are in addition to the required weekly/post storm inspections that RIDOT Construction Management performs).</p> <p>During 2019, OSM continued to use the new inspection format (from 2018) to better assign, inspect, track, compile, and report stormwater inspections. OSM uses iPads and an inspection application (iAuditor), specifically tailored for RIDOT SESC/SWPP plan inspections. Inspectors may now instantly document site conditions, email reports (including photos), and track corrective actions. Data is instantly compiled within the app to help OSM determine where to focus compliance efforts. This effort also provides faster communication between OSM and the Construction Management Division after construction site audits, with the hopes of improving site compliance.</p> <p>RIDOT OSM will work to document all inspections during 2020 and increase the number of large site inspections, those with SESC Plans, as well as site compliance.</p> <p><b>Small Site SWPP Projects (&lt;1acre):</b> RIDOT Construction projects that disturb an area less than one acre are required to have a Small Site Soil Erosion &amp; Sediment Control (Small SESC or SWPP) Plans and also require erosion and sedimentation control inspections on a weekly basis, and after a storm event. RIDOT REs (or a designated inspector) perform the inspections on RIDOT construction projects and submit documentation to OSM. RIDOT does not separate these small-site inspections from our large site inspections in a way that may be summarized for this report.</p> <p><b>Final Inspections:</b> RIDOT conducts Final Inspections on every construction project. Staff from the Finals, Maintenance, Design, Traffic, Materials, Construction, Stormwater, and Environmental sections attend, if applicable to their office. If any drainage work, pollution prevention, BMP, or proper stabilization issues are noted as not being correctly installed/established, the contractor is notified of this as part of a "Punch List" through Construction Management and must remedy the issue before Final Acceptance is granted. Final payment is based on this Final Acceptance.</p> <p>In 2019, there were 55 RIDOT Final Inspections. [ATTACHMENT 4C] RIDOT OSM attended and provided comments for the 35 highlighted applicable final inspections. RIDOT staff attended all 55 Final Inspections.</p>	

Identify person(s)/Department and/or parties responsible for the implementation of this requirement:

**RESPONSIBLE PARTIES** - RIDOT OSM is the primary RIDOT entity responsible for the implementation of this program, with support by Construction Management for implementation of compliance and inspections.

**EFFECTIVENESS** - RIDOT considers this effort effective, however continued work is necessary to improve results. Although OSM has increased inspections during and after projects, and worked with Construction Management, RIDOT has failed to implement all the required procedures on its projects that require inspections.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT will continue these efforts and increase efforts to improve compliance in the field during construction.

Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": See "Office of Stormwater Management Training 2019" in MCM #1, Section II. Private contractors who took stormwater inspection training to be qualified for the design-build contracts utilized American Stormwater Institute, LLC Qualified Construction Stormwater Inspector training.



**MINIMUM CONTROL MEASURE #5:  
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND  
REVELOPMENT  
(Part IV.B.5 General Permit)**

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The RIDOT has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at:

**<http://www.dot.ri.gov/about/stormwater.php>**

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires Compliance Reporting. Where Consent Decree Remedial Measures cover RIPDES Minimum Measures, RIDOT will report in the Consent Decree Reports only.

**PLEASE SEE RIDOT CONSENT DECREE ANNUAL REPORT FOR INFORMATION ON THIS MINIMUM CONTROL MEASURE.**

***Minimum Measure 5, Post Construction Stormwater Management: the Consent Decree Remedial Measure D covers all RIPDES Minimum Measure 5 requirements.*** No data is provided in this section of the RIPDES Annual Report.



## **MINIMUM CONTROL MEASURE #6: POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS (Part IV.B.6 General Permit)**

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The RIDOT has signed a Consent Decree with the US Environmental Protection Agency and Department of Justice. The Consent Decree was entered by US Federal Court, and is effective as of December 22, 2015. The full Consent Decree may be viewed on the RIDOT Stormwater Management website at:

<http://www.dot.ri.gov/about/stormwater.php>

The Consent Decree requires RIDOT to comply with Remedial Measures identified for Illicit Discharge Detection and Elimination (IDDE), Post Construction Runoff Controls, Good Housekeeping, and Total Maximum Daily Loads (TMDLs). The Consent Decree also requires Compliance Reporting. Where Consent Decree Remedial Measures cover RIPDES Minimum Measures, RIDOT will report in the Consent Decree Reports only.

**PLEASE SEE CONSENT DECREE ANNUAL REPORT FOR INFORMATION ON: CATCH BASIN INVENTORY, INSPECTION, MAINTENANCE MINIMUM CONTROL MEASURE AND ANNUAL STREET SWEEPING MINIMUM CONTROL MEASURE**

*Minimum Measure 6, Maintenance Facility SWPPP/Pollution Prevention and Winter Operations: This report documents the RIDOT's measurable goals in 2019 that are NOT part of the EPA Consent Decree. RIPDES Applicable sections are highlighted in yellow.*

**SECTION I. OVERALL EVALUATION:**

<b>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:</b>	
<p>Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.</p> <p><b>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)</b></p> <p><b>Responsible Party Contact Name &amp; Title:</b> Joseph Bucci, Administrator Highway and Bridge Maintenance  <b>Phone:</b> 401-734-4800    <b>Email:</b> joseph.bucci@dot.ri.gov</p>	
IV.B.6.b.1.i	<p>Use the space below to describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.</p> <p><b>Do you have an inventory of MS4-owned/operated BMPs?</b>      <input type="checkbox"/> YES                      <input type="checkbox"/> NO  <b>Total # of MS4-owned/operated BMPs</b> (does not include CBs or MHs): _____</p>
<b>Reporting of this effort is part of the Consent Decree Compliance report.</b>	
IV.B.6.b.1.ii	<p>Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.</p> <p><b># of MS4-owned/operated BMPs inspected in 2019:</b> _____  <b># of MS4-owned/operated BMPs maintained/cleaned in 2019:</b> _____  <b># of MS4-owned/operated BMPs repaired in 2019:</b> _____</p> <p>Does your municipality/MS4 have a system for tracking:</p> <p>a. Inspection schedules of MS4-owned BMPs?                      <input type="checkbox"/> YES                      <input type="checkbox"/> NO  b. Maintenance/cleaning schedules of MS4-owned BMPs?      <input type="checkbox"/> YES                      <input type="checkbox"/> NO  c. Repairs, corrective actions needed?                              <input type="checkbox"/> YES                      <input type="checkbox"/> NO  d. Complaints?    <input type="checkbox"/> YES                      <input type="checkbox"/> NO</p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance?    <input type="checkbox"/> YES                      <input type="checkbox"/> NO</p>
<b>BMP IDs 6F, 6G, 6H, 6I, 6J, 6M, 6N, 6O, 6P, 6Q, 6R</b>	
<b>Reporting of this effort is part of the Consent Decree Compliance report.</b>	
IV.B.6.b.1.iii	<p>Use the space below to describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement.</p> <p><b>Total # of CBs within regulated area (including SRPW and TMDL areas):</b> _____  <b># of CBs inspected in 2019:</b> _____      <b>% of Total inspected:</b> _____  <b># of CBs cleaned in 2019:</b> _____      <b>% of Total cleaned:</b> _____</p> <p>Quantity of sand/debris collected by cleaning of catch basins: _____  Location used for the disposal of debris: _____</p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins?    <input type="checkbox"/> YES                      <input type="checkbox"/> NO</p>
<b>BMP ID 6K, 6L – ANNUAL CATCH BASIN CLEANING</b>	
<b>Reporting of this effort is part of the Consent Decree Compliance report.</b>	
IV.B.6.b.1.iv	<p>Use the space below to describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.</p>
<b>BMP ID 6S – STABILIZATION OF ROADSIDE SHOULDERS</b>	
<p>OSM continues to work with Construction Management to improve shoulder stabilization by attending Final Inspections and commenting on site stabilization for inclusion in RIDOT Punch Lists. These punch lists provide a directive for contractors to complete contract requirements if they have not been completed by the end of the project. OSM also works with Construction Management to stabilize disturbed areas during construction prior to the end of a project (such as prior to the winter shutdown period- See <b>ATTACHMENTS 6A and 4B</b> for a memo from the Administrator of OSM to Construction Management and a winter shutdown fact sheet provided to Construction Management). Regular involvement in Final Inspections has improved stabilization practices, however many projects continue to have a Final Inspection after the seeding date and therefore, are not stabilized until the following spring.</p>	



**EFFECTIVENESS** - RIDOT considers this measure effective, however completion and documentation of the inspections should be improved.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT Maintenance will continue this program. OSM will coordinate with Maintenance to update the SWPPPs and SPCCs as needed and to improve inspection reporting efforts. Since the MS4 permit will be reissued/revised for 2022, RIDOT will work towards MSGP requirements for the RIDOT highway maintenance facilities. OSM anticipates training Maintenance staff on SWPPPs/SPCCs and integrating documentation into VUEWorks during 2020/2021.

IV.B.6.b.6	<p>Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.</p> <p>How many stormwater management trainings have been provided to <del>municipal</del> <b>RIDOT</b> employees during this reporting period? 4+</p> <p>What was the date of the last training? 11/18/19</p> <p>How many <del>municipal</del> <b>RIDOT</b> employees have been trained in this reporting period? 4 OSM, 12 Drainage</p> <p>What percent of <del>municipal</del> <b>RIDOT</b> employees in relevant positions and departments received stormwater management training? _____%</p> <p>Have <b>RIDOT</b> employees that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges? RIDOT Drainage and Maintenance Crews were provided with IDDE fact sheets [<b>ATTACHMENT 6C</b>]. These fact sheets were also provided in the “<i>Stormwater Resources for RIDOT Construction Projects</i>” binders provided to Construction REs. OSM field staff receive field training. Drainage crews have field training and report illicit connections in asset inspection reports.</p>
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**BMP ID 6C, 6D, 6E – EMPLOYEE TRAINING**  
Please see Minimum Measure 1.

IV.B.6.b.7	Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.
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N/A to RIDOT

**Additional Measurable Goals and Activities**

**DRAINAGE OPERATIONS**

The RIDOT Maintenance Division added an in-house statewide drainage crew in 2016. The in-house statewide drainage crew expands the Department’s resources to clean and repair (better maintain) the State’s drainage infrastructure (catch basins, manholes, drain pipe, BMPs, outfalls, etc.). Currently, the in-house statewide drainage crew consists of 14 personnel and they operate out of the RIDOT Scituate Facility. They have 6 Stetco trucks and 2 Vactor vacuum trucks in addition to their other standard equipment. Work performance is reported in the Consent Decree Annual Report. New equipment received in 2019 includes 14 poly tanks (can be mounted into our dump trucks to serve as water trucks to assist cleaning drainage structures) and 6 track loaders. In 2020, RIDOT expects to receive 5 mini excavators (for cleaning drainage swales and outfalls) and 3 backhoes. Depending on the FY 2021 budget, RIDOT anticipates purchasing the following in 2020 – 3 new Vactor vacuum trucks, road sweepers, and additional plow trucks.

**BMP ID 6A, 6B – WINTER OPERATIONS - ONGOING**

Starting in 2012, RIDOT began outfitting its winter fleet with new “closed loop” spreader controls that incorporated GPS and wireless technologies. This program required a significant investment by the Department but has resulted in financial savings and reduced our overall impact on the environment. With salt (sodium chloride) representing the most expensive part of snow and ice operations, we have been able to reduce our potential expenses. These closed-loop operation trucks significantly decrease the amount of roadway sand (and salt) applied to RIDOT roadways, thereby decreasing the amount of sediment needed to be swept and cleaned out of catch basins in the Spring, and ultimately decreasing the amount entering the environment.

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

Starting in 2013, RIDOT began using salt brine for anti-icing and pre-wetting applications. We currently have one brine production unit at our Midstate Facility in East Greenwich which can produce close to 5,000 gallons per hour with salt brine storage available at most of our storage facilities. In order to expand this initiative, which is a much-improved method of anti-icing versus using solid materials, we will be working to expand our production abilities in the coming years and will continue to have a need for assistance with application and perhaps hauling between storage sites.

For the 2014 season, the Department had 100% of the heavy-duty fleet outfitted with this equipment.

In 2013/2014, RIDOT introduced a "Green Incentive" for vendors which has increased the vendor use of closed loop systems and calibration. It continued to be offered in through 2018. Currently, RIDOT believes the incentive requires re-examination and needs to create alternatives.

RIDOT currently has 123 winter operation trucks (compared to 108 in 2018), all with closed-loop systems and is continuously replacing older, less efficient trucks (those 10 years old or older). RIDOT will receive 15 additional new Volvo plow truck with closed-loop systems in the spring of 2020 which will replace older trucks. RIDOT also recently advertised for 7 additional plow trucks with closed loop systems.

**2019 SALT BARN STATUS:**

Of the 20 RIDOT Primary Salt Stockpiles throughout the state, 17 are under permanent cover; 3 remain under temporary cover. There is 1 Strategic Salt Reserve that is under temporary cover. (RIDOT added a 20,000-ton strategic salt reserve stockpile to its winter operations plan for the first time prior to the 2016 season. It's an additional covered stockpile that is saved for situations when the salt demands are high (severe winters) and deliveries get delayed. The strategic salt reserve is 10,000 tons for 2020.)

- Portsmouth - The new salt storage facility was constructed during 2019.
- Pawtucket - RIDOT plans to construct a new salt storage building at this location. We anticipate advertising in 2020 and starting construction in 2021.
- East Providence - Warren Ave: A new salt storage facility was advertised in 2019, with construction planned during 2020.
- Newport - Route 138 off-ramp: RIDOT Maintenance is coordinating with Newport Pell Bridge Ramp Reconstruction Contract (RIDOT Project Management) to find a suitable location. Ramp Reconstruction Contract is currently scheduled for construction from 2020-2023, so RIDOT plans to fund the construction of a new salt storage building within that timeframe (probably after 2021). RIDOT is currently not pursuing a shared-use facility with the City.

Of note is that the environmental regulations which took effect in 2010 increased overall construction costs by about 25% thus reducing our ability to construct 2 new facilities per year. We now can only afford to build 2 facilities over 3 years based on current funding appropriations. The newer environmental regulations require the entire storage and loading process to occur under the same roof, within the structure, which forced us to expand the square footage of the facilities in order to continue to maintain adequate salt quantities to maintain safe and operable highways.

**RESPONSIBLE PARTIES** - RIDOT Maintenance is the primary RIDOT entity responsible for the implementation of this program.

**EFFECTIVENESS** - RIDOT considers this measure effective.

**YEAR 17 (2020) EXPECTED ACTIONS** - RIDOT Maintenance will continue to upgrade equipment & salt barns as funding allows. In 2020, RIDOT will also re-examine the "Green Incentive" for vendors to make it more feasible for vendors to obtain closed-loop equipment incentives. Currently, the incentive is not deemed effective. Construction on the East Providence Salt Facility will begin and be completed in 2020. RIDOT will advertise the Pawtucket salt storage facility project in 2020.

**SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)**

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
Reporting of this effort is part of the Consent Decree Compliance report.				

**SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)**

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
Reporting of this effort is part of the Consent Decree Compliance report.				

**SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).**

Reporting of this effort is part of the Consent Decree Compliance report.
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**SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).**

Reporting of this effort is part of the Consent Decree Compliance report.
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## TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

Reporting of this effort is part of the Consent Decree Compliance report.



## SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regs)*, on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link: <http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

Reporting of this effort is part of the Consent Decree Compliance report.