



Construction Site Stormwater Compliance Assistance Program

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Department of Civil and Environmental Engineering, URI

Compliance Assistant Program

- Objective
- Current situation
- Motivation
- Compliance Assistance Program introduction
- Implications of non-compliance
- Self-Certification checklist
- Wrap up
- Open forum



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Objective

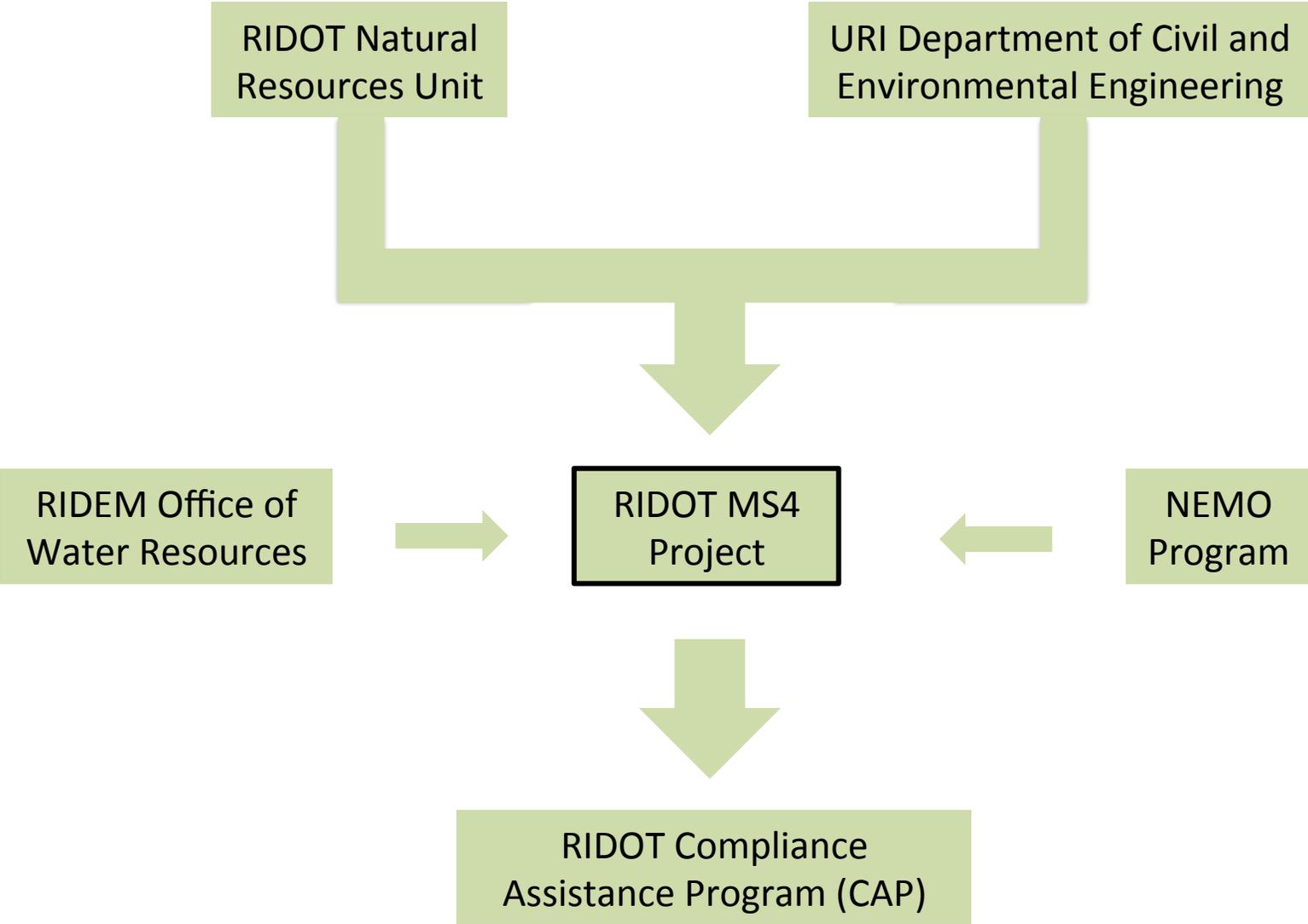
The RIDOT Compliance Assistance Program (CAP) seeks to increase the environmental compliance in RIDOT construction sites, through the optimal use of human and material resources

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CAP Development



Phases of RIDOT CAP

- Phase 1 (Spring 2013 - Present)
 - Coordination with other agencies
 - Gathering information
 - Baseline construction site inspections
- Phase 2 (Winter - Spring 2015)
 - Compliance Assistance Program (CAP)
 - RIDOT training
- Phase 3 (Summer - Fall 2015)
 - Evaluation of trainings impact on compliance



Initial RIDOT Inspections

- Site Selection
 - Greater than 1 acre
 - SESC (SWPP) plan in contract
 - Construction end date
- Sites Analyzed
 - Total = 12
- Periodically adding sites

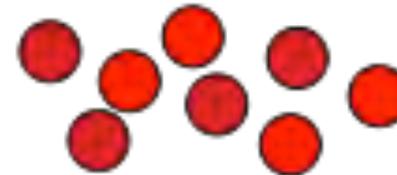
Before selection



After selection



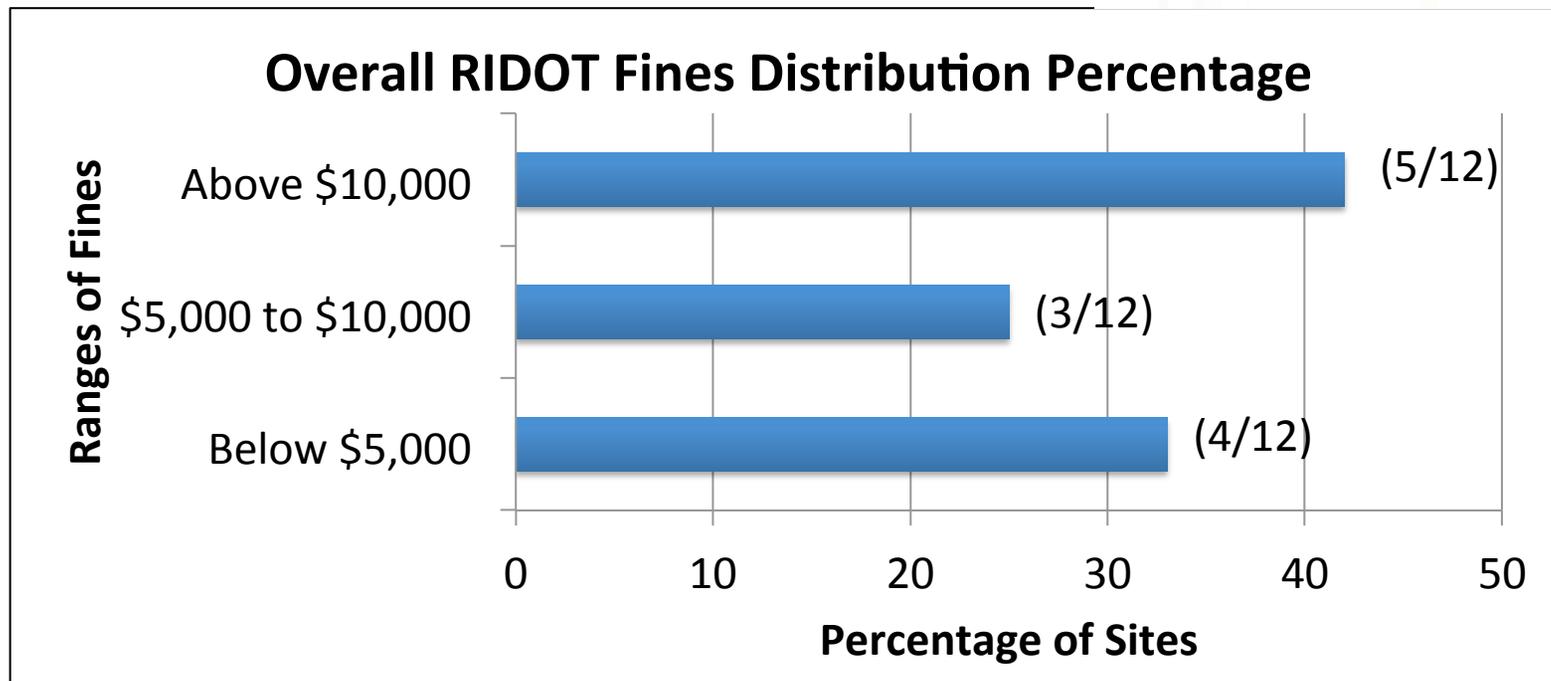
Final population



Results of EPA Checklist

- Minimum fine: \$2,050
- Maximum fine: \$60,550
- Total RIDOT fine: \$175,350

Non-compliance **Costs**



Results From Self-Certification Checklist

- Ranking of Compliance Results
 - Doing well (87% - 100%)
 - Doing “Ok” (74% - 86%)
 - Doing poorly (0% - 73%)
- Compliance Categories
 - Documentation kept on site
 - Proper documentation
 - Procedures
 - Prohibited discharges
 - Best management practices

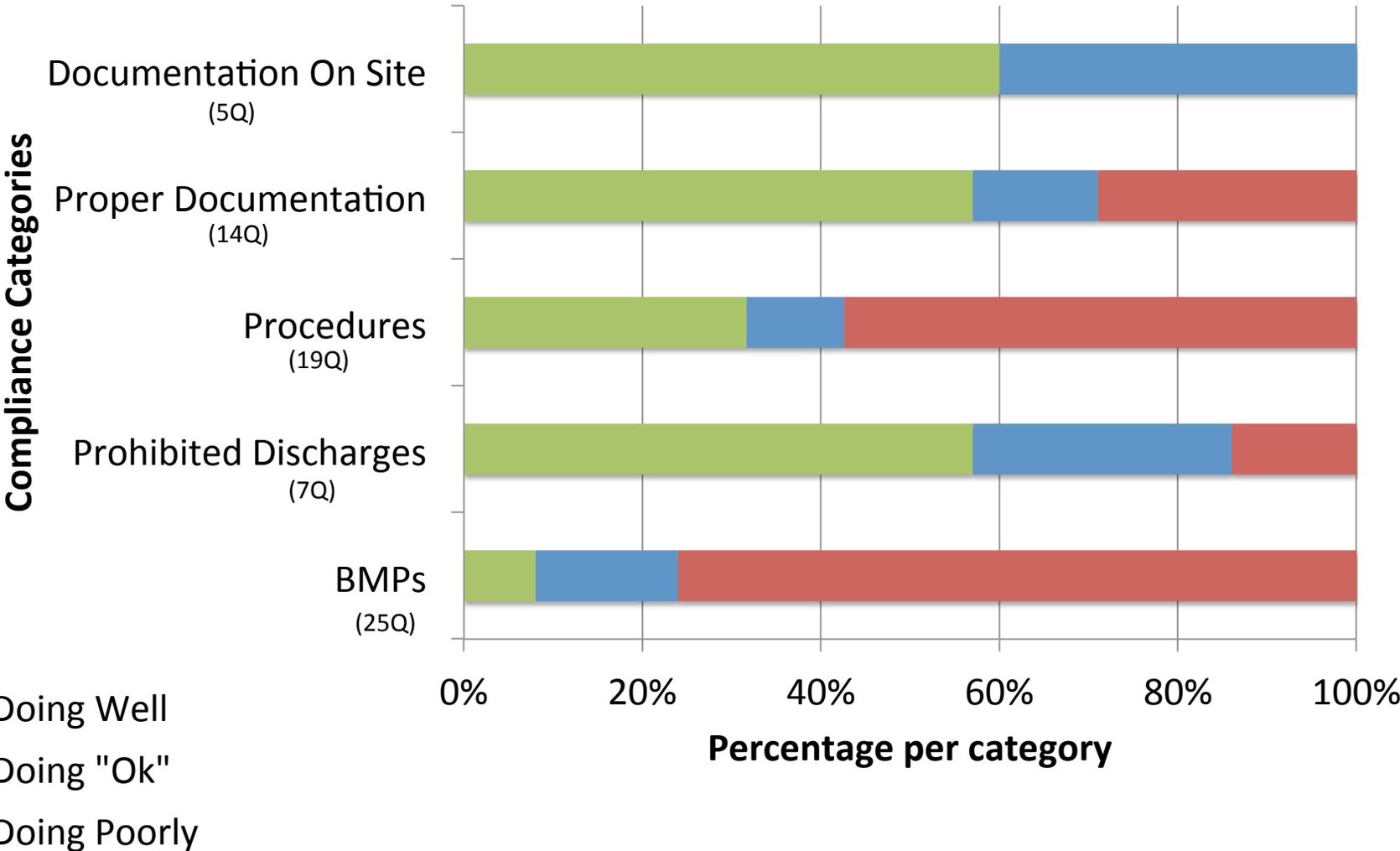


Compliance Categories

- Documentation kept on site
 - SESC Plan, Permits, etc.
- Proper documentation
 - Corrective actions, signatures, etc.
- Procedures
 - Permit requirements, inspections, etc.
- Prohibited discharges
 - Concrete washout, fuels, oils, etc.
- Best management practices
 - Erosion controls, maintenance, etc.



Overall RIDOT Construction Site Compliance



What RIDOT is Doing Poorly

Concrete Wastewater Washout Not Being Managed Properly on Multiple Sites



What RIDOT is Doing Poorly

Sediment Not Being Managed Properly On Many Sites



What RIDOT is Doing Poorly

Common Issues Found on Many Sites



Controls Surrounding Stockpiles



Maintenance of Inlet Protection



Properly Manage and Dispose of Waste



Properly Designed Entrances and Exits

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Motivation

- It is the Law!
 - Clean Water Act



Clean Water Act 1972

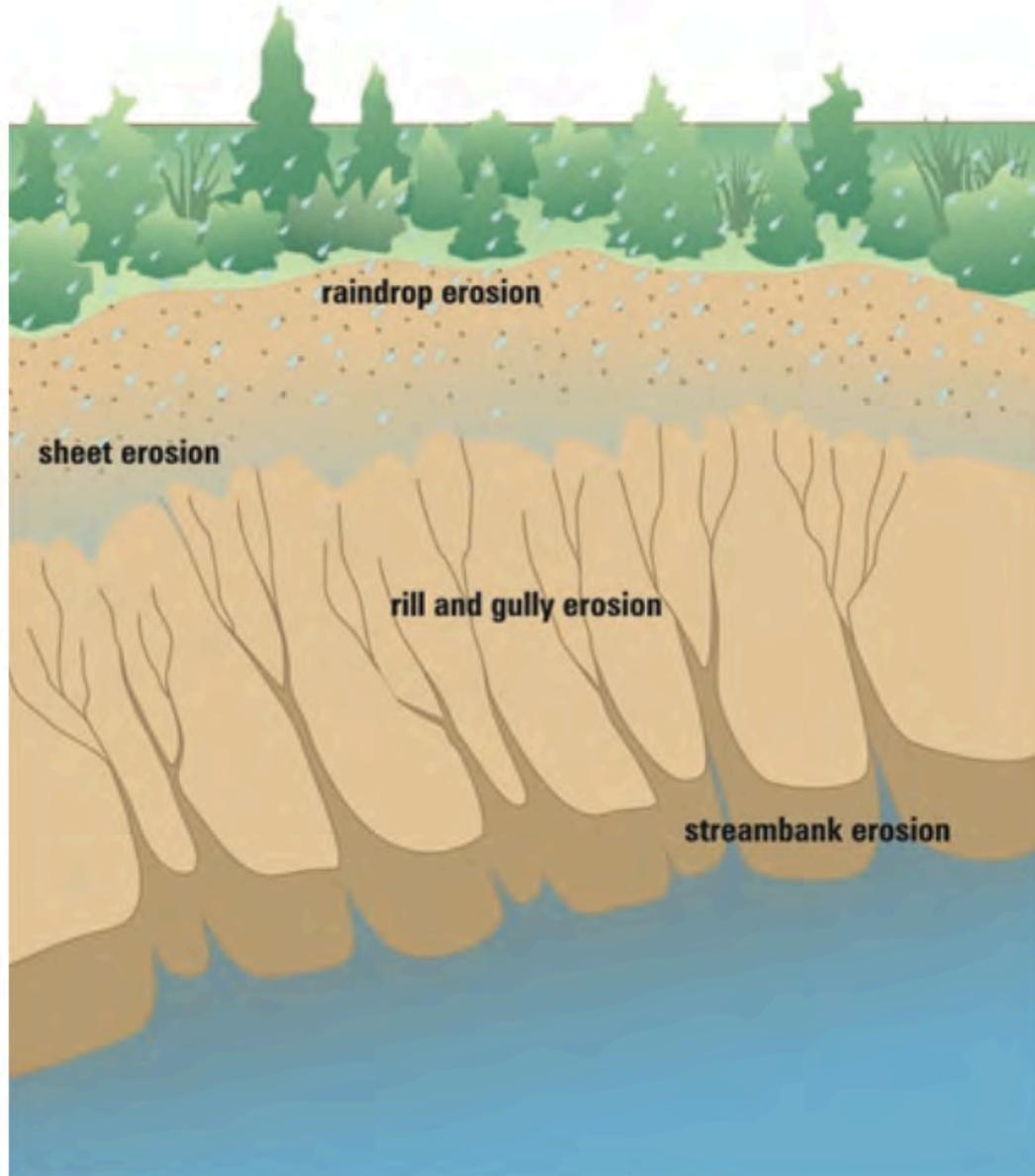


Clean Water Act Amendment 1987

- New source of pollution:
 - URBANIZATION
 - Stormwater Runoff



Stormwater Runoff



Sediment Contamination

- Sediments are the single most widespread pollutant affecting the water quality in rivers and streams *
- Physical, chemical, and biological damage from erosion and sedimentation in North America may exceed \$16 billion annually **

*Osterkamp, W.R., Heilman, P., & Lane, L.J. (1998). "Economic considerations of a continental sediment-monitoring program." *International Journal of Sediment Research*, 13(4), 12-24.

**U.S. Environmental Protection Agency (USEPA) (2000). *National Water Quality Inventory 1998 Report to Congress*' USEPA 841-R-00-001; USEPA, Office of Water, Washington, D.C

Construction Sites and Sediments



What is the contribution of construction sites in terms of sediment contamination?

Construction Sites and Sediments

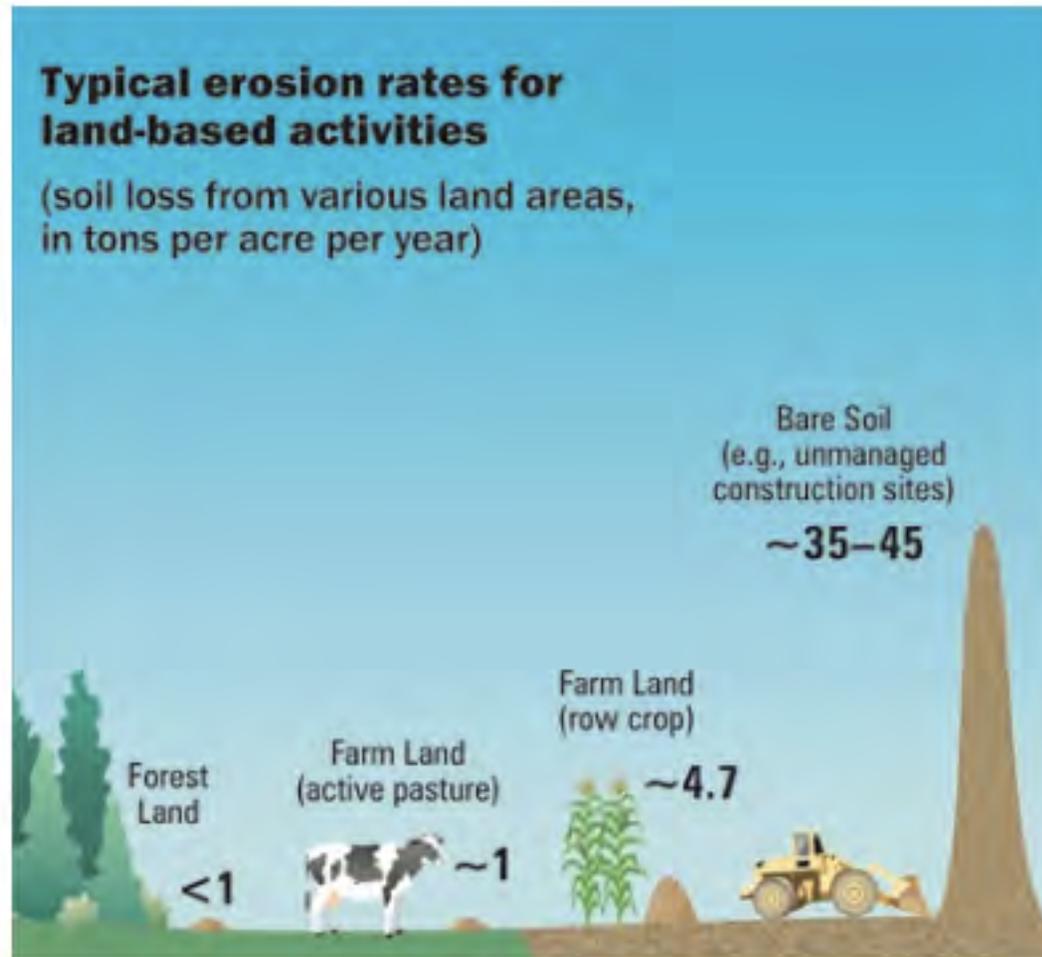


Construction activities are responsible for 50 to 90% of sediment entering surface waters*,**

*Burton G.A., & Pitt, R.E. (2002). Stormwater effects handbook: A toolbox for watershed managers, scientists, and engineers. Boca Raton: Lewis Publishers.

**Canning, D.J. (1988). Construction erosion control: Shorelands Technical Advisory Paper No. 3. Olympia, WA.: Shorelands and Coastal Zone Management Program, Washington Department of Ecology.

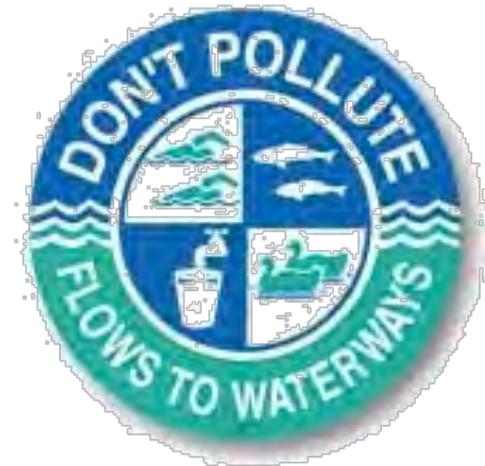
Soil Erosion Numbers



Construction Sites and Pollution

Pollutants associated with construction activities:

- Sediment
- Pesticides
- Fertilizers used for vegetative stabilization
- Petrochemicals
 - Oils, gasoline, and asphalt degreasers
- Construction chemicals and their wastewater
 - Concrete products, sealers, and paints
- Paper
- Wood
- Garbage
- Sanitary waste



Pollutants Impacts: Sediment

- On-site

- Losses of nutrients and nutrient-holding capacity
- Reduction the available water-holding capacity on-site
- Reduction of soil's natural organism ability to combat outbreaks of pests and diseases

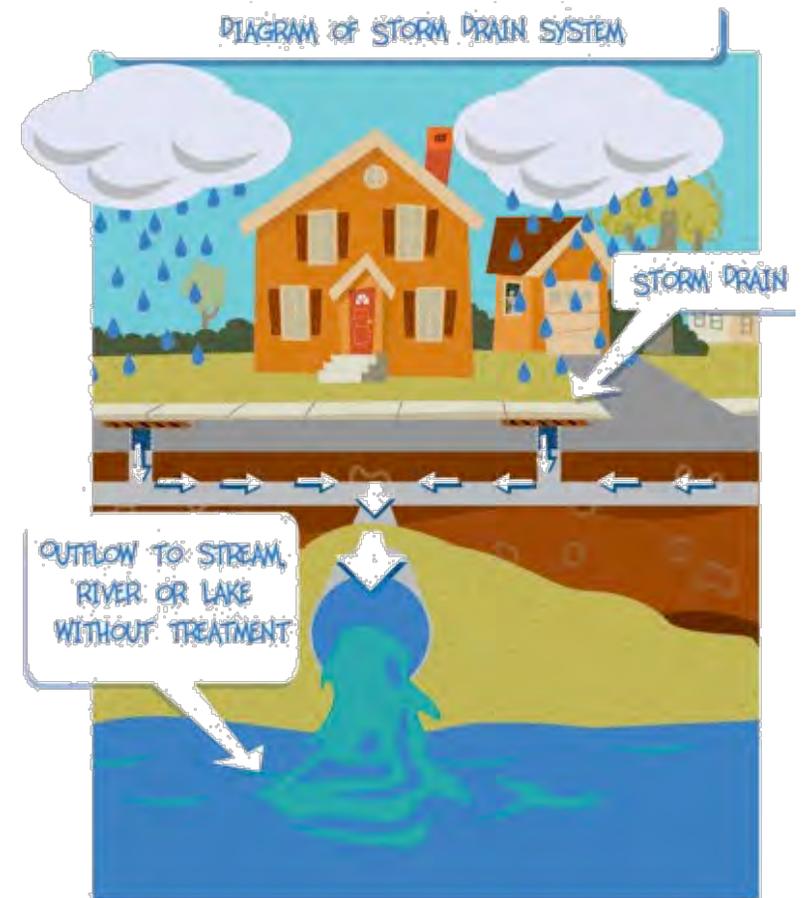
- Off-site

- Reduction of water quality by excess of nutrients and turbidity
- Increase build up in channels, reduction flow capacity, resulting in more flooding
- Reduction of reservoirs capacity



Pollutants Impacts: Construction Chemicals

- Paints
- Acids for cleaning masonry surfaces
- Cleaning solvents
- Asphalt products
- Soil additives used for stabilization
- Concrete-curing compounds
- Wastewater from concrete mixers
- Acid and alkaline solutions from exposed soil or rock
- Alkaline-forming natural elements



Pollutants Impacts: Concrete Washout

- Slurry containing toxic metals.
 - Aluminum, Barium, Chromium, Hexavalent Chromium (Chromium 6), Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Selenium, Sodium, Vanadium, and Zinc. The wastewater may also contain trace elements of petroleum products, admixtures and other materials from processing or treating the material
- Caustic and corrosive, with a pH near 12
- Can harm fish gills, eyes, and reproduction
- Inhibit plant growth and contaminate the groundwater



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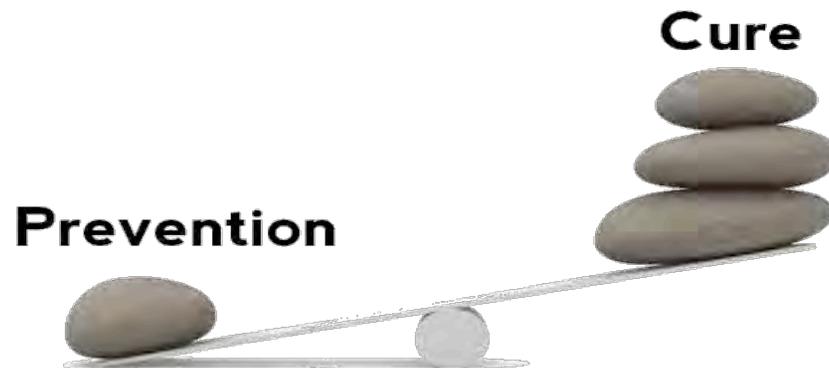
Compliance Assistance Program

- First stage of the program
 - Resident Engineers
- Next stage of the program
 - Inspectors
 - Contractors



What Are the Benefits?

- Preventive rather than restorative
- More efficient and expedite work
- Improve relationship with regulatory agencies
- Improve compliance and eliminate violations
- Enhance credibility with external stakeholders
- Cost saving
- Economic Incentives, Including Reduced Liability



Compliance Assistance Program

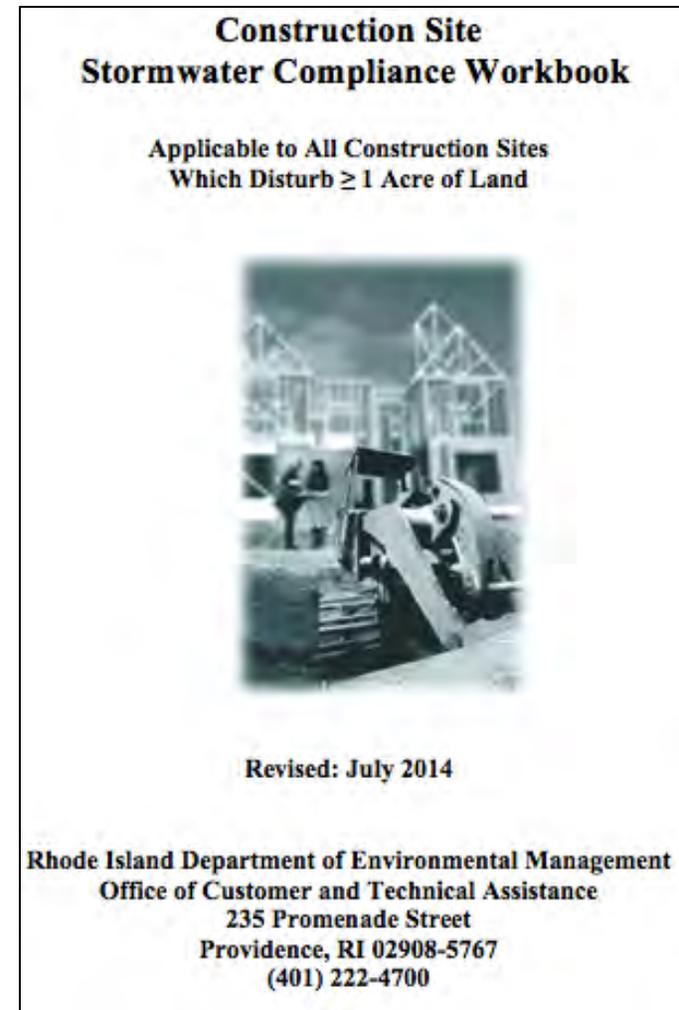
Help RIDOT construction sites stay compliant

- Existing resources
 - Stormwater compliance workbook
 - SESC Handbook
- New resources
 - CAP training
 - Self-Certification checklists
- Pre and Post assessment



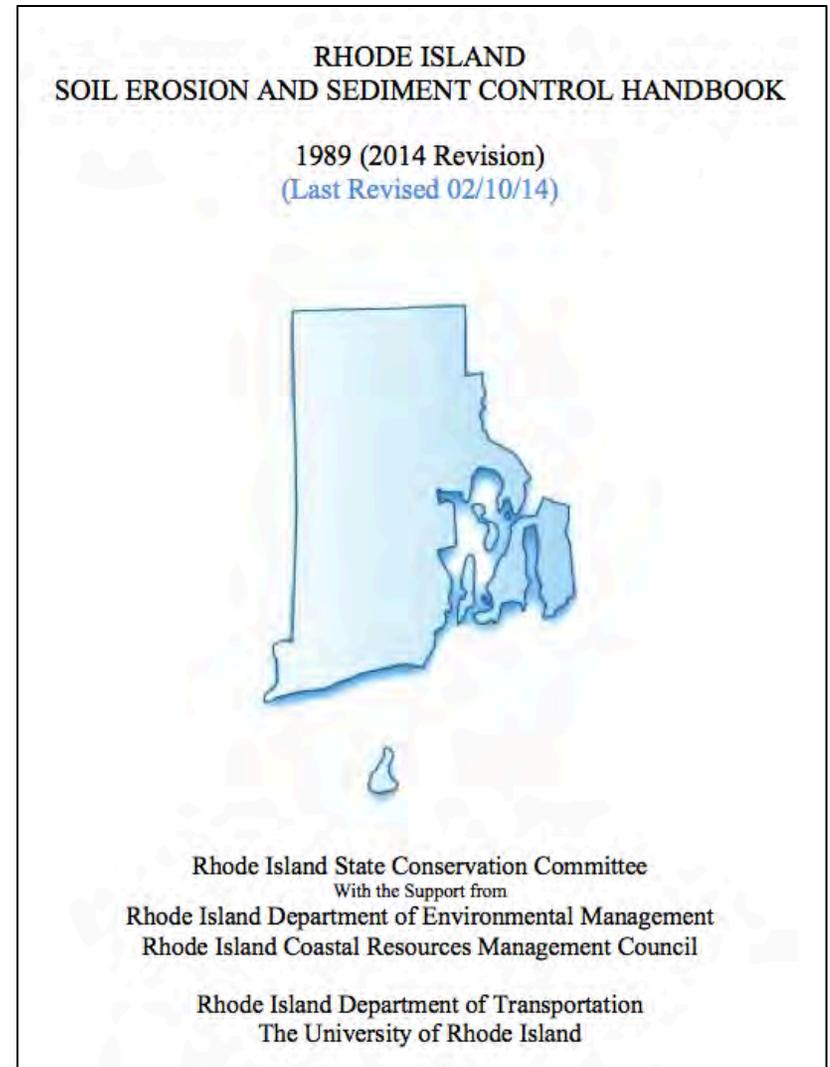
Construction Site Stormwater Compliance Workbook

- Enables the owner to:
 - Self-certify site to RIDEM standards
 - Comply with Freshwater Wetland (FWW) Permit
 - Comply with RIPDES Construction Stormwater General Permit (CGP)



RIDEM Soil Erosion and Sediment Control (SESC) Handbook

- Resource for:
 - Navigating the Self-Certification Checklists
 - Clarifying Soil Erosion and Sediment Control procedures and standards

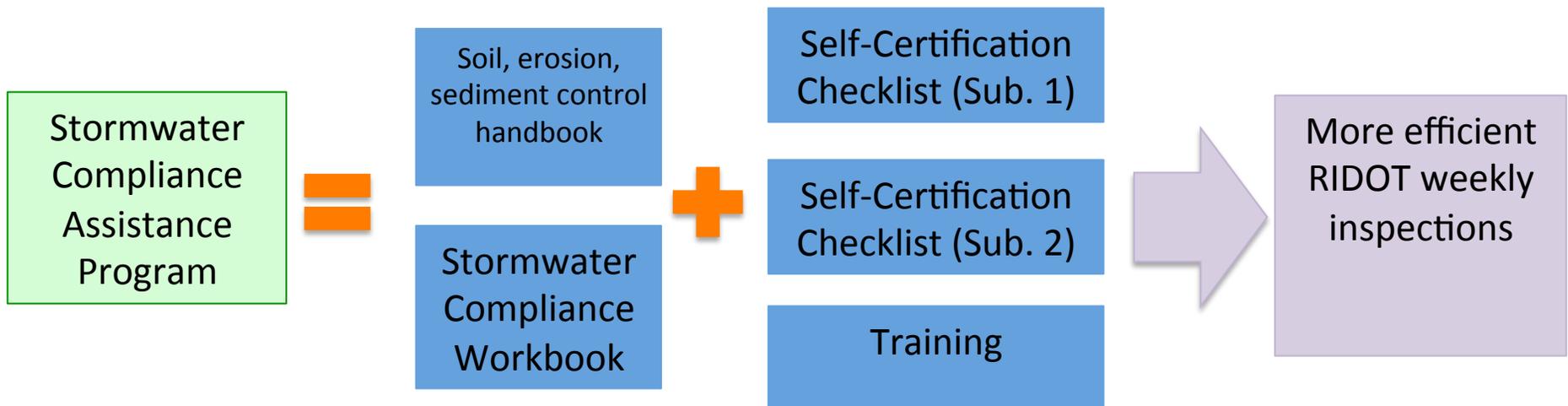


Compliance Certification Checklists

- **Start of Construction Stormwater Checklist (Sub. 1)**
 - FWW Permit and RIPDES Permit compliance questions
 - Ensures appropriate controls and administrative procedures are in place at the start of site disturbance activities
- **Completion of Construction Stormwater Checklist (Sub. 2)**
 - FWW Permit and RIPDES Permit compliance questions
 - Ensures project is completed properly



How the Program Works



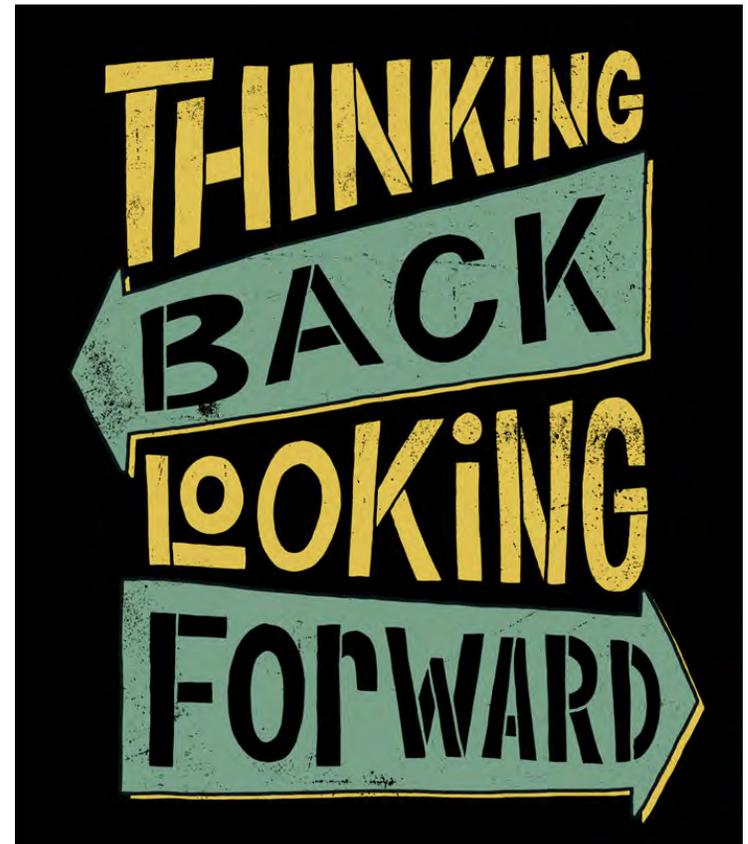
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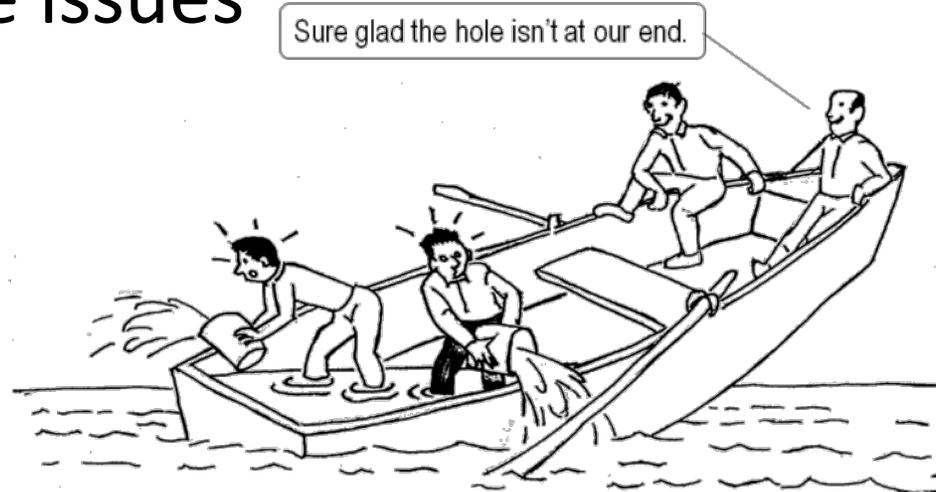
Self-Certification Checklists

- What we will be covering:
 - Roles and responsibilities
 - Who should fill out the checklists
 - Break into groups
 - Fill out the checklist
- Significant portion of presentation
 - Take a break

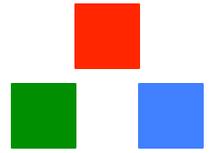


Roles and Responsibilities

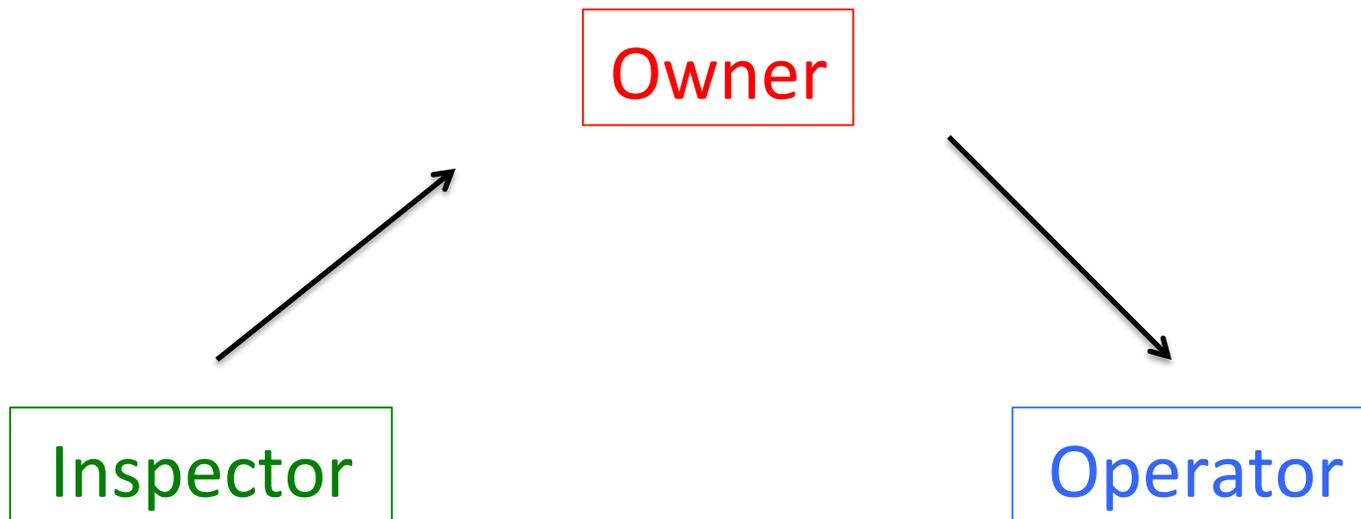
- **Owner** - responsible for making sure the site is in compliance
- **Inspector** - responsible for reporting and recording all non-compliance issues
- **Operator** - responsible for resolving non-compliance issues



Responsibility Structure



- Lots of overlap in responsibilities
- Team effort, must work together
- Represented on the upper corner of each slide



Who Should Fill Out Checklists?

- Individual filling out checklist must know:
 - Terms of FWW Permit
 - Terms of RIPDES GP
 - The construction site
 - The site-specific SESC Plan
 - Responsibilities of RE and operator(s)



- THINGS
- YOU
- NEED
- TO
- KNOW

Break Into Groups

- Groups of three
- Decide who will play which role
 - Owner
 - Operator
 - Inspector
- Work together!



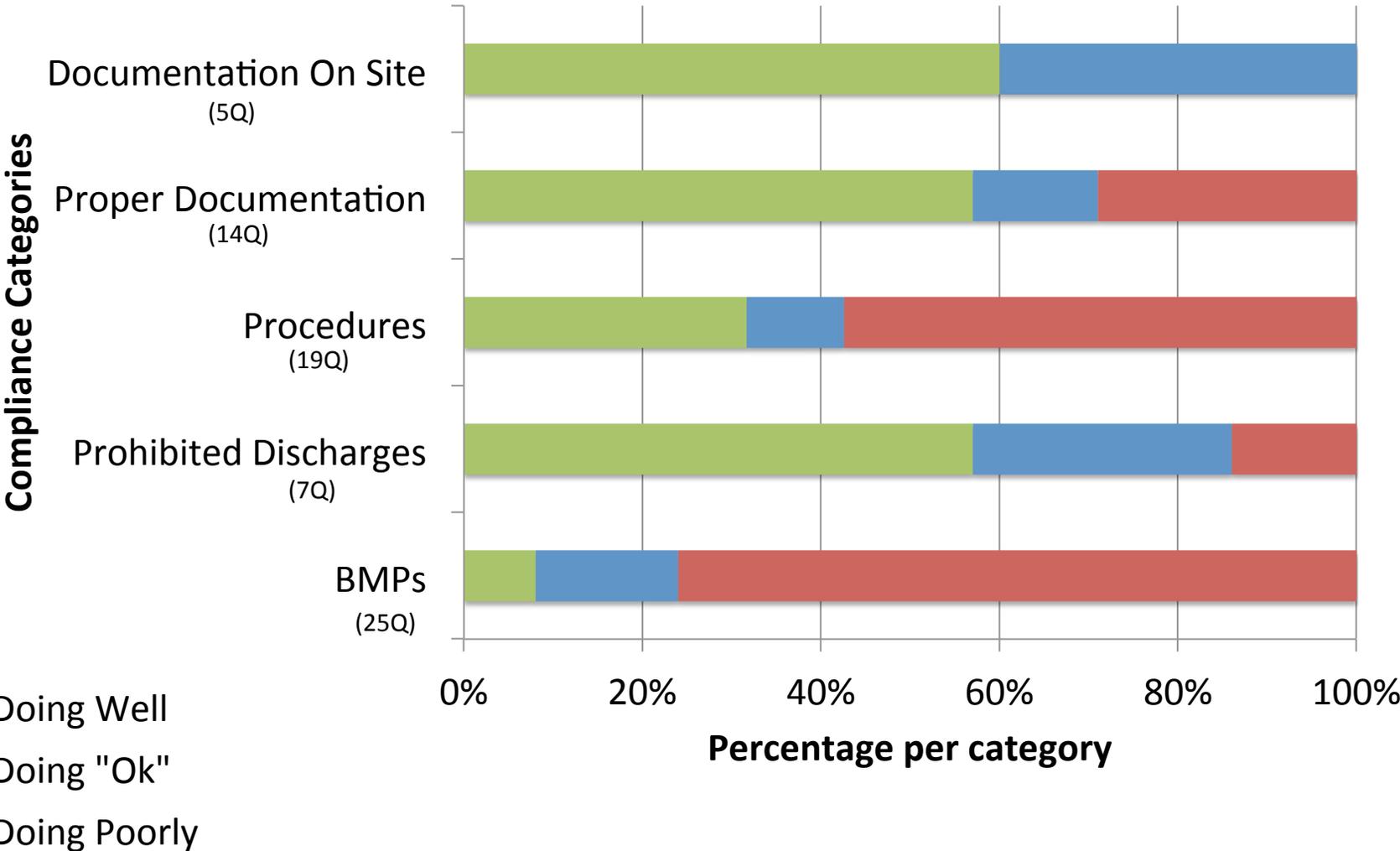
Time to Fill Out the Checklist

Using construction site exercise photos and the
“Site Information” provided

1. Fill out section in **blue** pen
2. Presentation of section
3. Make corrections in **red** pen
4. Results for section will be provided
5. Feedback on section



Overall RIDOT Construction Site Compliance

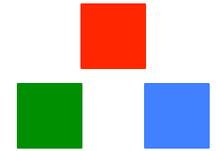


RIDOT Current Compliance Percentages

Start of Construction Stormwater Self-Certification Checklist (Submittal 1)

MUST be submitted to the RIDOT Natural Resources Unit
within 30 days of initiating soil disturbance activities

Project Information



Project Information			
Site Name:			
Site Address:			
Environmental Permits	Check all that are applicable to the construction project site:		Permit Number
	<input type="checkbox"/> Yes	RIPDES CGP (construction)	
	<input type="checkbox"/> Yes	RIPDES RGP (dewatering)	
	<input type="checkbox"/> Yes	Freshwater Wetlands	
	<input type="checkbox"/> Yes	Water Quality Certificate	
	<input type="checkbox"/> Yes	CRMC Assent	
	<input type="checkbox"/> Yes	Army Corps	
	<input type="checkbox"/> Yes	Other (indicate type below)	
Site Owner	Name	Phone	Email
	Mailing Address		
Site Operator	Name	Phone	Email
	Mailing Address		
Inspection Information			
Site Inspector	Name	Phone	Email
Inspection Date		Start/End Time	
Date Site Disturbance Activities Commenced			

Lets Fill Out Section A



Section A

DEM Freshwater Wetlands Permit
Conditions

(A1) Freshwater Wetlands (FWW)

Permit Applicable?

- **It is applicable if your project is within:**
 - 50 feet of swamps, marshes, bogs, and ponds
 - 100-200 feet of rivers and streams



If it is applicable, you must fill out Section A of the Self-Certification Checklist. If N/A, move on to Section B.





(A2) Notify RIDEM

1. Get site plans approved by RIDEM
2. Obtain applicable RIDEM permits
3. **Notify RIDEM about start of construction before any site alteration**



Plans -> Permits -> Project

(A3) FWW Required Documents

- The following must be kept on site:
 - Copy of FWW Permit
 - Copy of stamped approved Site Plans



(A3-i) Notify the City or Town

- If required by the FWW Permit:
 - Submit a copy of the FWW Permit to the Land Evidence Records of the appropriate city or town
 - Must be done within 10 days of receiving the FWW Permit





(A4) RIDEM Permit Signs

- All RIDEM permits must be posted on site including:
 - Bolded initials “**DEM**”
 - Name of permit
 - Specific permit number
- The sign should be:
 - At least 12 inches wide and 18 inches long
 - Water resistant

DEM
FWW Permit
12-3542

DEM
RIPDES Permit
RIR100364

(A5) Off Site Fill Materials

- Indicate if the project will use fill materials from off site
- If N/A, move on to Question A10



Quarry

(A5-i) Off Site Fill Materials

- Off site fill material must be inspected to insure that it is clean and free of any pollutants or contaminants
- If the fill material is not clean, then it cannot be used on site



(A10) FFW Permit Compliance

- Compliance terms are:
 - Must stay within LOD detailed on the approved Site Plans
 - Must notify RIDEM prior to construction and upon completion of the project
 - Must keep copy of stamped approved Site Plans and the FFW permit on site

RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
235 Promenade Street, Providence, RI 02908-5767 TDD 401-222-4462

March 18, 2013

RI Department of Transportation
Peter Healey, P.E., Chief Civil Engineer
Two Capitol Hill, Room 226
Providence, RI 02903-1124

Insignificant Alteration – Permit

Re: Application No. 12-0198 and RIPDES File No. RIR 100999 in reference to the location below:

Along Scituate Avenue (RI Rte 12) in the vicinity of Gainer Dam, and approximately 2200 feet west of its intersection with North Road (RI Rte 116), Scituate, RI

Dear Mr. Healey:

Kindly be advised that the Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of your **Request for Preliminary Determination** application. This review included a site inspection of the above referenced property ("subject property") and an evaluation of the proposed Kent Dam Spillway Bridge rehabilitation, IR improvements to Route 12, pavement removal for water quality requirements and associated landscaping as illustrated and detailed on site plans submitted with your application. The most recently revised site plans were received on March 8, 2013.

Our observations of the subject property, review of the site plans and evaluation of the proposed project reveals that alterations of freshwater wetlands are proposed. However, pursuant to Rule 9.00 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act (Rules), this project may be permitted as an **insignificant alteration** to freshwater wetlands under the following terms and conditions:

Terms and Conditions for Application No. 12-0198 / RIR100999:

1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, Rhode Island General Laws (RIGL) Section 2-1-18 *et seq.*
2. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and has been received by the DEM on March 8, 2013. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project which would alter freshwater wetlands are not authorized without a permit from the DEM.
3. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.
4. You must notify this Program in writing immediately prior to the commencement of site alterations and upon completion of the project.

Office of Water Resources/Tel.401-222-4700/FAX:401-222-3564 30% post-consumer fiber



(A10) FFW Permit Compliance (cont.)

- Any fill material used in this project must be clean and free of all pollutants
- Prior to commencement of site alterations, RIDEM FFW Permit sign must be posted
- Erosion controls must be properly installed before the commencement of site alterations and maintained for the life of the project
- Upon permanent stabilization all erosion controls must be removed

Section A Answer Key

- A1 – Yes
- A2 – No
- A3 – Yes
- A3-i – Yes
- A4 – Yes
- A5 – Yes
- A5-i – Yes
- A10 - No

Feedback for **Section A**

I WANT YOU



FOR FEEDBACK!

Lets Fill Out **Section B**



Section B

Erosion, Runoff, and Sediment
Control Conditions

(B1) Control Measure Installation

- These are specified in the RISESC Handbook
- Must be done prior to earth disturbing activities



Compost Filter Sock



Silt Fence

(B2-i) Limits of Disturbance

- LOD must protect environmental resources and sensitive receptors



LOD protecting a wetland
(sensitive receptor)



LOD protecting trees
(environmental resource)

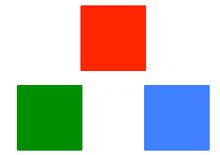
(B2-ii) Limits of Disturbance

- LOD must protect planned infiltration areas and pervious areas

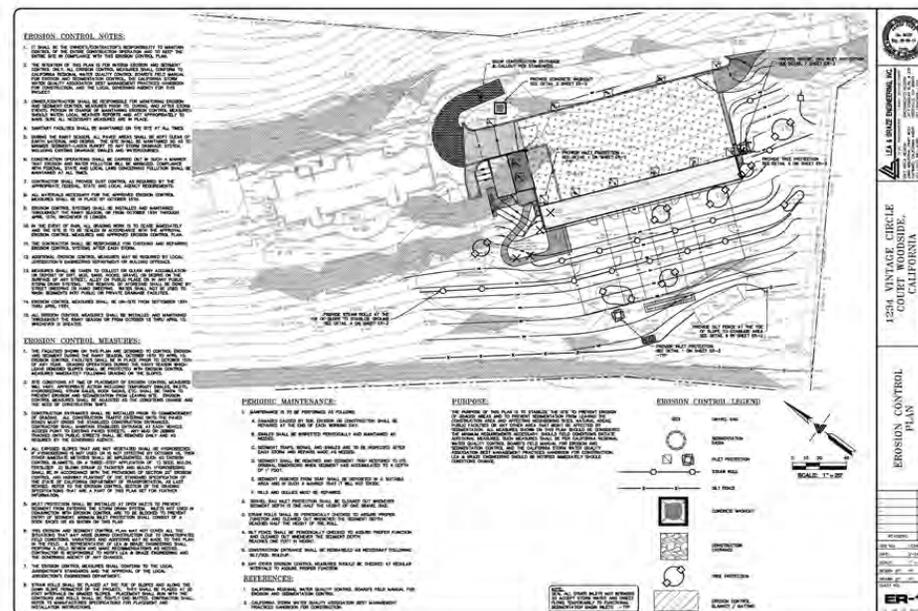


LOD protecting a pervious area

(B2-iii) Limits of Disturbance

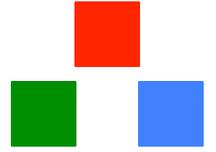


- LOD on site must be in accordance with LOD detailed on RIDEM approved Site Plans



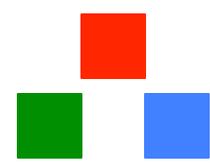
LOD on Site Plans must match LOD on site

(B2-iv) Limits of Disturbance



- **NO** activity is to occur beyond approved LOD





(B3) Stormwater Flow Management

- Controls that deviate, retain, and detain flows must be properly installed and maintained

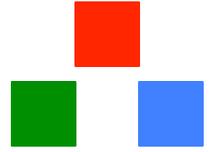


Check Dam



Sediment Basin

(B4) Temporary Conveyances



- All temporary conveyances must be installed and functioning properly



Temporary Channel

(B4-i) Temporary Conveyances

- Must be maintained for proper function



Unmaintained Temporary Conveyance

(B5) Soil Stabilization

- All exposed soils must be seeded by October 15th
- This can be done through:
 - Temporary or permanent seeding
 - Mulching
 - Erosion control blankets

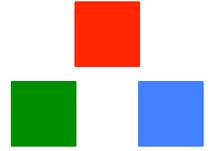


Hydro-seeding



Erosion Control Blanket

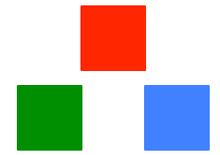
(B6) Soil Stabilization



- If construction on any section of the site is inactive for 14 days, soils here must be stabilized immediately



Immediate Stabilization of Soils on Inactive Area of the Site

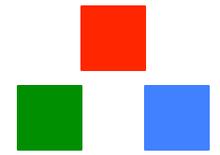


(B7) Soil Stabilization

- If soil stabilization was not achieved by November 15th
- Erosion controls must be in place



Erosion Controls Surrounding Unstabilized Soils



(B8) Soil Stabilization

- If construction is active from October 15th to April 15th
- Only the day's work area can be exposed and all soils must be stabilized within 5 days



Active Area of the Site

(B9) Storm Drain Inlet Protection

- All storm drain inlet protection measures must be properly installed
- These include:
 - Fabric drop inlet protection
 - Curb drop inlet protection
 - And More



Fabric Drop Protection (Silt Sack)



Hay Bail/ Silt Fence Protection

(B10) Storm Drain Inlet Protection

- All storm drain inlet protection measures must be properly maintained and cleaned

GOOD Example:



Well maintained sediment sacks

BAD Example:



Sediment sack is broken and ineffective

(B11) Storm Drain Inlet Protection

- Accumulated sediment adjacent to storm drains must be cleaned up within the same work day in which it occurred

GOOD Example:



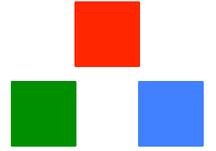
Roadway is clear of sediment

BAD Example:



Roadway is covered in sediment

(B12) Outlet Protection



- All outlet protection measures must be installed at all temporary and permanent discharge points
- These include:
 - Riprap-lined apron
 - Level spreader
 - Turf reinforcement mats



Riprap-Lined Apron

(B13) Purpose of Outlet Protection

- Outlet protection measures must be functioning properly in order to:
 - Reduce discharge velocity
 - Promote infiltration
 - Eliminate scour



Scour of a Bridge Support

(B14) Inspection of Outlet Protection

- Outlet protection must be inspected to ensure:
 - Prevention of scour and erosion
 - Maintenance is occurring



Inspection of a Culvert During Active Construction



(B15) Perimeter Sediment Controls

- Sediment controls must be implemented along areas of the perimeter that will receive stormwater



Compost Filter Sock



Hay Bails/ Silt Fence

(B16) Perimeter Sediment Controls

- Must be maintained in accordance with the RISESC Handbook standards

GOOD Example:



Perimeter compost filter sock in place

BAD Example:



Compost filter sock has been overtaken by sediment



(B17) Protection of Post Construction Stormwater Practices

- Temporary erosion controls must be installed around permanent infiltration areas

GOOD Example:



Steep Slope from Active Construction Area Down to a Pond Surrounded by Hay Bales

BAD Example:



Broken Compost Filter Sock/ Sediment in a Wetlands Area

(B18) Protection of Post Construction Stormwater Practices

- Material staging areas and access roads must avoid permanent infiltration areas

GOOD Example:



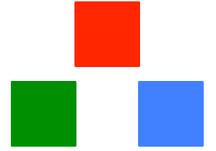
Access Road and Staging Area Located Far from Any Infiltration Areas

BAD Example:



Access Road to Staging Area Directly Impacting a Catch Basin

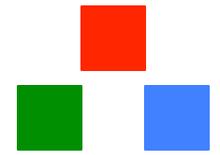
(B19) Surface Outlets



- A surface outlet structure must be installed in each temporary sediment basin
- These include:
 - Skimmers
 - Floating pumps
 - Siphons



Surface Outlet Skimmer



(B20) Surface Outlets

- All temporary sediment basins and traps must be inspected and maintained



Adequately Maintained Temporary Sediment Trap (Check Dam)

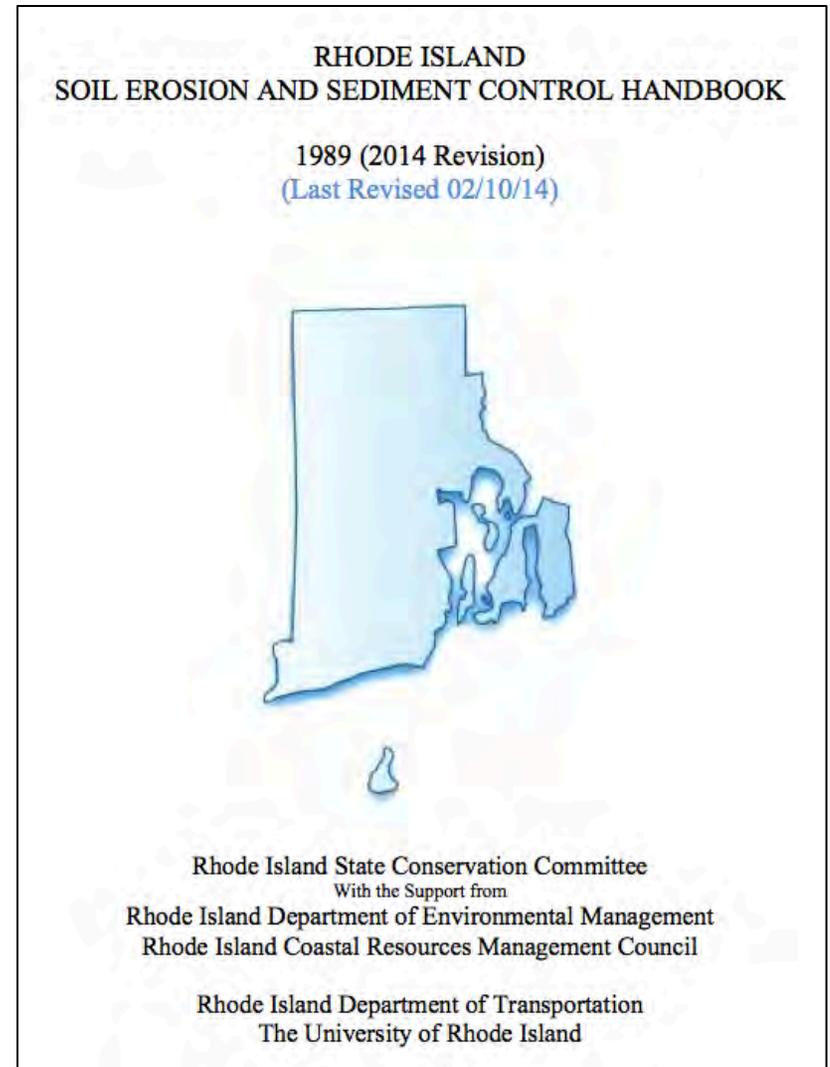
(B21) Treatment Chemical Use

- Indicate if treatment chemicals will be used to control erosion, sedimentation, or runoff
- If N/A, move on to Section C



(B22) Treatment Chemical Use

- Treatment chemicals used on site must be in compliance with:
 - Current Best Management Practices (BMPs)
 - RISESC Handbook Appendix J



Section B Answer Key

- B1 – No
- B2-i – Yes
- B2-ii – No
- B2-iii – No
- B2-iv – No
- B3 – No
- B4 – Yes
- B4i – No
- B5 – Yes
- B6 – No
- B7 – Yes
- B8 – N/A
- B9 – Yes
- B10 – No
- B11 – No
- B12 – Yes
- B13 – No
- B14 – Yes
- B15 – Yes
- B16 – No
- B17 – Yes
- B18 – Yes
- B19 – Yes
- B20 – No
- B21 – N/A
- B22 – N/A

Feedback for **Section B**

I WANT YOU



FOR FEEDBACK!



Time for
a BREAK

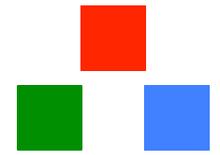


Lets Fill Out **Section C**



Section C

Pollution Prevention



(C1-i) Contaminated Groundwater

- Contaminated groundwater must be pumped into a dewatering basin to properly clean the water



Large Groundwater Basin



(C1-ii) Concrete Washout Wastewater

- Concrete washout must be properly contained in a poly-sheet box and disposed of off site

GOOD Example:



Concrete washout in a contained poly-sheeted box

BAD Example:



Uncontained concrete washout on the side of the road

(C1-iii) Other Washout Wastewater

- All debris and washout from construction products (stucco, paint, curing compounds, etc.) must be properly contained and disposed of off site

GOOD Example:



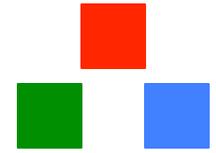
Bridge wrapped in tarp while under construction

BAD Example:



Area next to an under construction bridge is covered with sanded stucco

(C1-iv) Vehicle and Equipment Pollutants



- Fuels, oils, etc. must be carefully maintained and properly disposed of

GOOD Example:



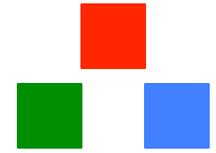
Use of an emergency spill kit

BAD Example:



Oil from a construction vehicle
left untreated

(C1-v) Soaps and Solvents



- Equipment washing must be done in a designated area surrounded by controls
- If not possible, washing should be done off site

GOOD Example:



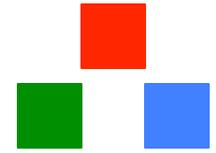
Washing off site in a contained area

BAD Example:



Washing in the middle of the site 98

(C1-vi) Toxic and Hazardous Substances



- Toxic and hazardous substances must be carefully maintained and properly disposed of

GOOD Example:



Containers are properly stored and labeled with appropriate warnings

BAD Example:



Containers are in horrible condition and are not labeled

(C2) Off Site Tracking of Sediment

- Vehicle use should be restricted to properly designated access points

GOOD Example:



Properly designed access point off a secluded road

BAD Example:



Unauthorized access point off a highway exit ramp

(C3) Off Site Tracking of Sediment

- Access points should be properly designed to remove sediment from tires prior to exiting

GOOD Example:



Large area of crushed stone padding leading to a paved road

BAD Example:



No type of controls used to remove sediment before exit

(C4) Off Site Tracking of Sediment

- Are additional controls used at access points?
- These include:
 - Wheel washing racks
 - Rattle plates
 - Crushed stone padding



Rattle Plate

(C5) Off Site Tracking of Sediment

- Sediment track-out from the site needs to be removed by the end of each work day

GOOD Example:



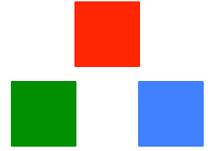
Street sweeping

BAD Example:



No street sweeping has occurred here

(C6) Proper Waste Disposal



- Both personal trash and construction debris, need to be properly managed on site and disposed of at the end of each work day

GOOD Example:



Dumpster is covered and not overflowing

BAD Example:



Trashcan is overflowing and uncovered¹⁰⁴

(C7) Spill Prevention and Control

- All chemicals and hazardous waste must be stored properly in covered containers within an enclosed and secure area

GOOD Example:



Chemicals are properly contained, covered and labeled

BAD Example:

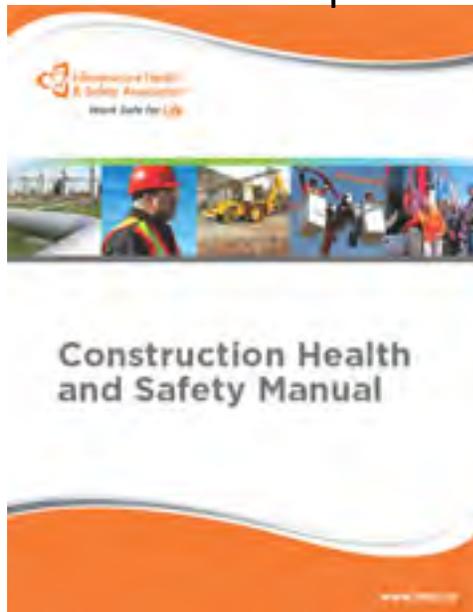


Chemicals are not properly contained, covered or labeled

(C8) Spill Prevention and Control

- Operator must have spill prevention and control measures in place in order to properly contain and dispose of spills

GOOD Example:



Provides Spill Prevention and Control

BAD Example:



Not knowing what to do in the event of a spill

(C9) Spill Prevention and Control

- Spill prevention and control equipment must be on site at all times and in highly visible locations

GOOD Example:



Spill kit located in a staging area

Where is the spill kit?

BAD Example:



There may or may not be a spill kit on site

The what?

(C10) Spill Prevention and Control

- Staff must be trained on use and location of spill prevention and control equipment



(C11) Non-Stormwater Discharges

- Non-stormwater discharges must be kept separate from stormwater flow
- These include:
 - All types of wastewater washout
 - Pumped groundwater
 - Any type of contaminated water



This is what we don't want, contaminated wastewater mixing with stormwater

(C12) Non-Stormwater Discharges

- Non-stormwater discharges must be managed properly with adequate controls

GOOD Example:



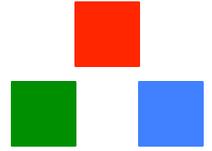
Concrete washout wastewater being contained on site and disposed of off site

BAD Example:



Concrete washout wastewater going into a catch basin

(C13) Dewatering Practices



- Groundwater and stormwater must be managed with necessary controls
- These controls include:
 - Temporary Sediment Basin
 - Temporary Sediment Trap
 - Compost Filter Socks
 - Dewatering Tanks and Bags
 - Pump Settling Basins
 - Pump Intake Protection
 - Filtration Systems



Compost Filter Sock



Dewatering Tank

(C14-i) Discharge Requirements

- Measures must be in place to prevent floating solids and foam at all discharge points

GOOD Example:



BMPs in place to prevent pollutants from entering stormwater

BAD Example:



Pollutants have created foam in the stormwater

(C14-ii) Discharge Requirements

- To the extent feasible, upland and sloped areas must be vegetated to promote dewatering infiltration

GOOD Example:



Well vegetated slope

BAD Example:



Barren slope covered in loose sediment

(C14-iv) Discharge Requirements

- If filters are used, the filter backwash must be disposed of off site

Iron Backwash Example:



Cup 1 = Water before treatment, Cup 2 = Water after treatment, Cup 3 = backwash before treatment, Cup 4 = backwash after treatment. Backwash will NEVER be clean!

(C15) Proper Material Staging Areas

- All materials must be properly stored in order to minimize pollutant exposure to stormwater

GOOD Example:



Staging area and all non-outdoor materials are surrounded by erosion controls

BAD Example:



Staging area and non-outdoor materials are NOT surrounded by erosion controls

(C16-i) Discharges From Stockpiles

- **ALL** stockpiles must be located within the limits of disturbance

GODD Example:



Stockpile is located within the LOD

BAD Example:



Stockpile is spilling over the perimeter erosion control (LOD marking)

(C16-ii) Discharges From Stockpiles

- **ALL** stockpiles must be surrounded by temporary erosion controls

GOOD Example:



Stockpile surrounded by erosion controls

BAD Example:



Unprotected stockpile

(C16-iii) Discharges From Stockpiles

- If necessary, stockpiles must be covered or stabilized by vegetative or structural means

GOOD Example:



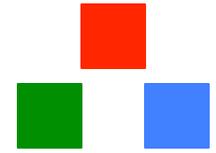
Stockpile is covered at the end of each workday

BAD Example:



Stockpile is not covered or contained with erosion controls

(C17) Minimizing Dust



- The operator must effectively manage dust on site through either water or limiting bare soil

GOOD Example:



Bare ground watering occurring

BAD Example:



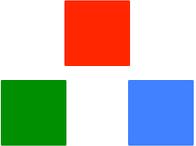
Dust pluming from heavy vehicle traffic on bare ground

(C18) Designated Washout Areas

- The following washout areas must be clearly marked on site:
 - Wheel washing stations
 - Concrete washout areas
 - Paint washout areas
 - Stucco washout areas



Concrete washout area with sign



(C19) Equipment and Vehicle Fueling and Maintenance

- Fueling and maintenance locations must be preventative of pollutants contacting stormwater and impacting sensitive receptors



Section C Answer Key

- C1-i – No
- C1-ii – No
- C1-iii – Yes
- C1-iv – Yes
- C1-v – Yes
- C1-vi – N/A
- C2 – No
- C3 – No
- C4 – No
- C5 – No
- C6 – No
- C7 – N/A
- C8 – Yes
- C9 – Yes
- C10 – Yes
- C11 – No
- C12 – No
- C13 –
- C14-I – No
- C14-ii – No
- C14-iv – N/A
- C15 – No
- C16-i – Yes
- C16-ii – No
- C16-iii – Yes
- C17 – No
- C18 – Yes
- C19 – Yes

Feedback for **Section C**

I WANT YOU



FOR FEEDBACK!

Lets Fill Out Section D



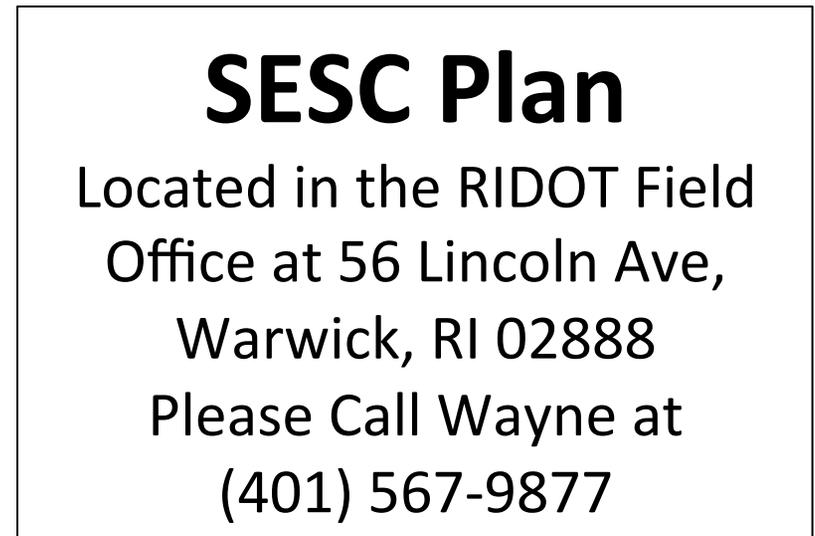
Section D

Record Keeping



(D1) SESC Location

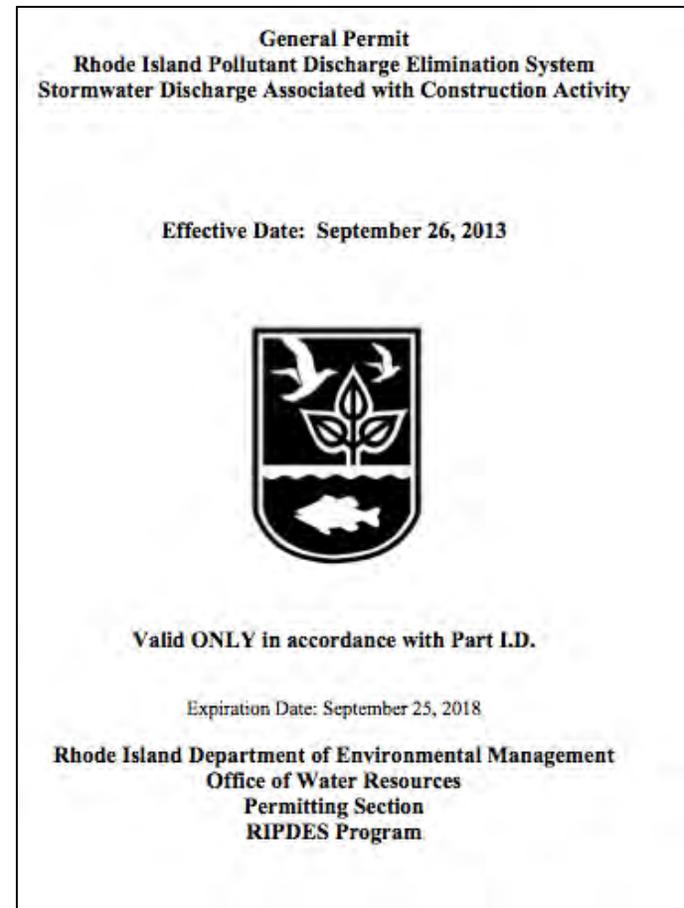
- Sign must be posted at the front entrance to the site which includes:
 - Location of the SESC Plan
 - Contact person's name
 - Contact person's info



Example SESC Plan Location Sign

(D2) Required Documents

- All required documents should be available in a central location on site when the site is active
- On site = in field office



RIDEM RIPDES General Permit



(D3) Required Documents

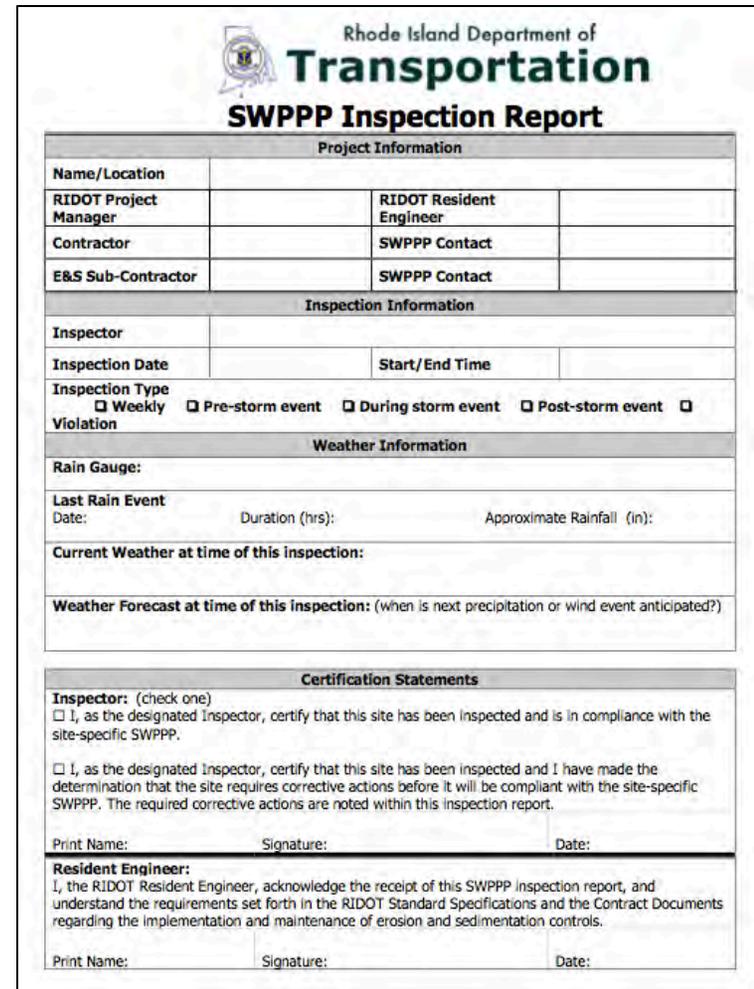
- Copy of signed SESC Plan must be on site

Stormwater Pollution Prevention Plan	
For:	
Repairs to the Cliff Walk	
Ruggles Avenue to Bellevue Avenue	
Newport, Rhode Island	
Owner:	RI DEPARTMENT OF TRANSPORTATION FRANK CORRAO, III, P.E. 2 CAPITOL HILL PROVIDENCE, RI 02903 401-222-2468
Operator:	Company Name Name Address City, State, Zip Code Telephone Number
<i>TO BE DETERMINED UPON CONTRACT AWARD</i>	
Estimated Project Dates:	Start Date: October 24, 2013 Completion Date: June 14, 2014
SWPPP Prepared By:	Commonwealth Engineers & Consultants, Inc. Karen A. Beck, RLA 400 Smith Street Providence, RI 02908 (401) 273-6600
SWPPP Preparation Date:	July 23, 2013

SESC Plan front page example

(D19) Required Documents

- Copies of all SESC weekly inspection reports must be on site



The form is titled "Rhode Island Department of Transportation SWPPP Inspection Report". It is divided into several sections: Project Information, Inspection Information, Weather Information, and Certification Statements. The Project Information section includes fields for Name/Location, RIDOT Project Manager, Contractor, E&S Sub-Contractor, RIDOT Resident Engineer, SWPPP Contact, and SWPPP Contact. The Inspection Information section includes fields for Inspector, Inspection Date, Start/End Time, and Inspection Type (Weekly, Pre-storm event, During storm event, Post-storm event). The Weather Information section includes fields for Rain Gauge, Last Rain Event (Date, Duration, Approximate Rainfall), Current Weather at time of this inspection, and Weather Forecast at time of this inspection. The Certification Statements section includes two checkboxes for the Inspector to certify compliance, and signature lines for the Inspector and Resident Engineer.

Project Information			
Name/Location			
RIDOT Project Manager		RIDOT Resident Engineer	
Contractor		SWPPP Contact	
E&S Sub-Contractor		SWPPP Contact	

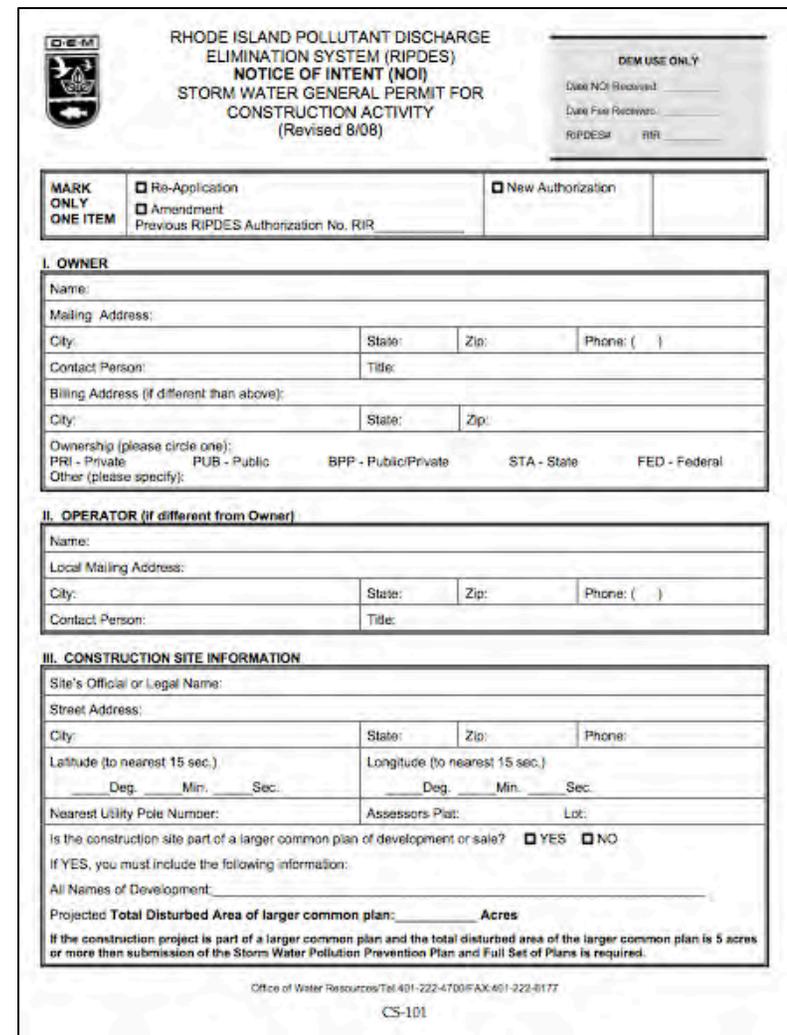
Inspection Information			
Inspector			
Inspection Date		Start/End Time	
Inspection Type	<input type="checkbox"/> Weekly <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event		
Violation			

Weather Information			
Rain Gauge:			
Last Rain Event			
Date:	Duration (hrs):	Approximate Rainfall (in):	
Current Weather at time of this inspection:			
Weather Forecast at time of this inspection: (when is next precipitation or wind event anticipated?)			

Certification Statements			
Inspector: (check one)			
<input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and is in compliance with the site-specific SWPPP.			
<input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and I have made the determination that the site requires corrective actions before it will be compliant with the site-specific SWPPP. The required corrective actions are noted within this inspection report.			
Print Name:	Signature:	Date:	
Resident Engineer:			
I, the RIDOT Resident Engineer, acknowledge the receipt of this SWPPP inspection report, and understand the requirements set forth in the RIDOT Standard Specifications and the Contract Documents regarding the implementation and maintenance of erosion and sedimentation controls.			
Print Name:	Signature:	Date:	

(D18) Required Documents

- Copies of all project permits and RIPDES Notice of Intent must be on site



The image shows a form titled "RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) NOTICE OF INTENT (NOI) STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY (Revised 8/08)". The form is divided into several sections: I. OWNER, II. OPERATOR (if different from Owner), and III. CONSTRUCTION SITE INFORMATION. It includes fields for Name, Mailing Address, City, State, Zip, Phone, Contact Person, Title, Billing Address, and Ownership. It also has checkboxes for Re-Application, Amendment, and New Authorization, and a field for Previous RIPDES Authorization No. RIR. The form is marked "DEM USE ONLY" and includes a "MARK ONLY ONE ITEM" section. At the bottom, it says "Office of Water Resources/Tel:401-222-4700/FAX:401-222-6177" and "CS-101".

MARK ONLY ONE ITEM		<input type="checkbox"/> Re-Application <input type="checkbox"/> Amendment Previous RIPDES Authorization No. RIR _____	<input type="checkbox"/> New Authorization
--------------------	--	--	--

I. OWNER

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____ Phone: () _____
Contact Person: _____ Title: _____
Billing Address (if different than above): _____
City: _____ State: _____ Zip: _____
Ownership (please circle one):
PRJ - Private PUB - Public BPP - Public/Private STA - State FED - Federal
Other (please specify): _____

II. OPERATOR (if different from Owner)

Name: _____
Local Mailing Address: _____
City: _____ State: _____ Zip: _____ Phone: () _____
Contact Person: _____ Title: _____

III. CONSTRUCTION SITE INFORMATION

Site's Official or Legal Name: _____
Street Address: _____
City: _____ State: _____ Zip: _____ Phone: _____
Latitude (to nearest 15 sec.) _____ Longitude (to nearest 15 sec.) _____
Deg. Min. Sec. Deg. Min. Sec.
Nearest Utility Pole Number: _____ Assessors Plat: _____ Lot: _____
Is the construction site part of a larger common plan of development or sale? YES NO
If YES, you must include the following information:
All Names of Development: _____
Projected Total Disturbed Area of larger common plan: _____ Acres
If the construction project is part of a larger common plan and the total disturbed area of the larger common plan is 5 acres or more then submission of the Storm Water Pollution Prevention Plan and Full Set of Plans is required.

Office of Water Resources/Tel:401-222-4700/FAX:401-222-6177
CS-101

(D6) Required Documents

- Full construction Site Plans or SESC Site Plans detailing all erosion controls must be on site



Site Plans detailing BMPs

(D4) SESC Plan

- The SESC Plan must be signed and certified by the site operator

Stormwater Pollution Prevention Plan (SWPPP)
Apponaug Circulator

OPERATOR CERTIFICATION
Upon contract award, the OPERATOR must sign this certification statement before construction may begin.

RIPDES Construction General Permit – Section V.G

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the SWPPP as appropriate in accordance with the requirements of the RIPDES Construction General Permit.

Operator Signature: _____ Date _____

Contractor Representative: _____ Name _____
Contractor Title: _____ Title _____
Contractor Company Name: _____ Company _____

SESC Plan operator certification page



(D5) SESC Plan

- The SESC Plan must also be signed and certified by the site owner

Stormwater Pollution Prevention Plan (SWPPP)
Apponaug Circulator

OWNER CERTIFICATION

RIPDES Construction General Permit – Section V.G

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the SWPPP as appropriate in accordance with the requirements of the RIPDES Construction General Permit.

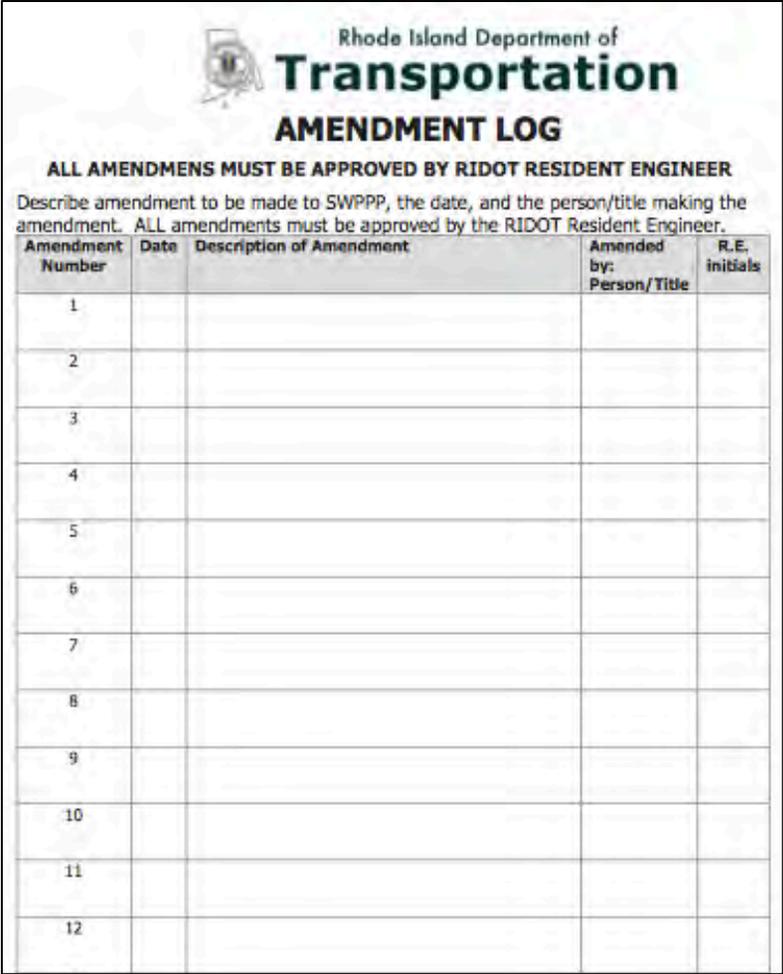
Owner Signature: _____ Date: _____

Owner Name: **Frank Corrao III, P.E.**
Owner Title: **Deputy Chief Engineer**
Company Name: **Rhode Island Department of Transportation**

SESC Plan owner certification page

(D7) SESC Plan

- **ALL** amendments to the SESC Plan or Site Plan must be documented



The form is titled "Rhode Island Department of Transportation AMENDMENT LOG". It includes a header with the state seal and the text "Rhode Island Department of Transportation". Below the title, it states "ALL AMENDMENTS MUST BE APPROVED BY RIDOT RESIDENT ENGINEER" and provides instructions: "Describe amendment to be made to SWPPP, the date, and the person/title making the amendment. ALL amendments must be approved by the RIDOT Resident Engineer." The form contains a table with 5 columns: "Amendment Number", "Date", "Description of Amendment", "Amended by: Person/Title", and "R.E. initials". The table has 12 rows, numbered 1 through 12.

Amendment Number	Date	Description of Amendment	Amended by: Person/Title	R.E. initials
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

RIDOT SESC Amendment Log

(D8) Weekly Inspection Records

- Inspections of **ALL** stormwater control measures must be completed at least once a week and after 0.25 inches of rain in 24 hours

Rhode Island Department of Transportation			
SWPPP Inspection Report			
Project Information			
Name/Location			
RIDOT Project Manager		RIDOT Resident Engineer	
Contractor		SWPPP Contact	
E&S Sub-Contractor		SWPPP Contact	
Inspection Information			
Inspector			
Inspection Date		Start/End Time	
Inspection Type	<input type="checkbox"/> Weekly <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event		
Violation			
Weather Information			
Rain Gauge:			
Last Rain Event			
Date:	Duration (hrs):	Approximate Rainfall (in):	
Current Weather at time of this inspection:			
Weather Forecast at time of this inspection: (when is next precipitation or wind event anticipated?)			
Certification Statements			
Inspector: (check one) <input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and is in compliance with the site-specific SWPPP. <input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and I have made the determination that the site requires corrective actions before it will be compliant with the site-specific SWPPP. The required corrective actions are noted within this inspection report.			
Print Name:	Signature:	Date:	
Resident Engineer:			
I, the RIDOT Resident Engineer, acknowledge the receipt of this SWPPP inspection report, and understand the requirements set forth in the RIDOT Standard Specifications and the Contract Documents regarding the implementation and maintenance of erosion and sedimentation controls.			
Print Name:	Signature:	Date:	

RIDOT Weekly SESC Inspection Form

(D9) Weekly Inspection Records

- If the inspections were reduced to once per month due to frozen conditions, this must be documented on the inspections



Frozen Conditions

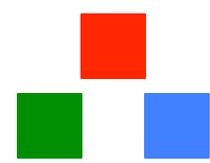
(D10) Weekly Inspection Records

- ALL Weekly Inspection Reports must include:
 - Date of inspection
 - Time of inspection
 - Inspector's name
 - Inspector's signature
 - Inspector's contact info
 - Owner's signature
 - Operator's signature



Sign Here!





(D11) Records of Maintenance and Corrective Actions

- **ALL** stormwater control measures must be properly maintained on site



(D12) Records of Maintenance and Corrective Actions

- If a problem is identified, the operator must initiate work to fix it within 24 hours



(D13) Records of Maintenance and Corrective Actions

- If a significant repair is needed, the operator must do this within 7 days of the discovery (if possible)



(D14) Records of Maintenance and Corrective Actions

- If a significant repair is needed (not feasible to do it within 7 days), this must be documented in the SESC Plan with the estimated timeframe needed for completion





(D15) Records of Maintenance and Corrective Actions

- If modifications to the SESC Plan are required due to significant maintenance, **ALL** copies of the SESC Plan must be updated within 7 days

UPDATE

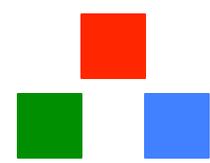
(D16) Records of Maintenance and Corrective Actions

- **ALL** corrective actions must be documented in the RIDOT Weekly Inspection Report in which the problem was discovered

RIC NO: _____ INSPECTION REF #: _____

Overall Site Issues
 Below are some general site issues that should be assessed during inspections. Please customize this list as needed for conditions at the site. If item is not applicable, please note why.

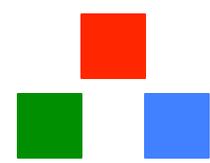
EROSION AND SEDIMENTATION BMP INSPECTION	Installed & Operating correctly?	Assoc. Photo/ Figure #	CORRECTIVE ACTION
2.1 Are Limits of Disturbance clearly marked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.1 Are natural resource areas (e.g., streams, wetlands, trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.2 Is construction sequencing being followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.3 Are structural BMPs properly installed to control stormwater flow on the construction site?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.4 Is clearing/grubbing only occurring in areas that will have active work within 21-days?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.4 Is clearing/grubbing taking place inside the Apr 15 - Oct 15 window?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.4 Do unstabilized areas have appropriate controls in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.5 Are all slopes protected from concentrated stormwater flow?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.6 Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.7 Are storm drain outfalls properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.8 Are perimeter controls and sediment barriers adequately installed and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.9 Are discharge points and receiving waters free of sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.10 Is weather forecast being checked regularly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		



(D17) Records of Maintenance and Corrective Actions

- **ALL** corrective actions must be documented, as well as signed and dated by the operator once the repairs have been completed





Certification Statement

CERTIFICATIONS		
<p>SITE INSPECTOR Certification: <i>"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</i></p>		
Print Inspector Name:	Inspector Signature:	Date:
<p>SITE OPERATOR Acknowledgment: <i>The Site Operator acknowledges the completion of this checklist, and understands the requirements set forth in the RIDEM RIPDES Construction General Permit.</i></p>		
Print Operator Name:	Operator Signature:	Date:
<p>SITE OWNER Acknowledgment: <i>The Site Owner acknowledges the completion of this checklist, and understands the requirements set forth in the RIDEM RIPDES Construction General Permit.</i></p>		
Print Owner Name:	Owner Signature:	Date:

Section D Answer Key

- D1 – Yes
- D2 – No
- D3 – Yes
- D19 – Yes
- D18 – No
- D6 – Yes
- D4 – Yes
- D5 – Yes
- D7 – N/A
- D8 – Yes
- D9 – No
- D10-i – Yes
- D10-ii – Yes
- D10-iii – Yes
- D10-iv – Yes
- D10-v – No
- D10-vi – No
- D10-vii – No
- D11 – No
- D12 – Yes
- D13 – N/A
- D14 – N/A
- D15 – N/A
- D16 – Yes
- D17 – No

Feedback for **Section D**

I WANT YOU



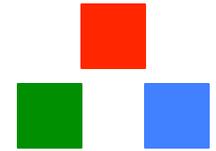
FOR FEEDBACK!

Completion of Construction Stormwater Self-Certification Checklist (Submittal 2)

MUST be submitted to the RIDOT Natural Resources Unit within
30 days of completing permanent site stabilization

Submission of this checklist also serves as a RIDEM
RIPDES GP Notice of Termination (NOT)

Project Information



Project Information			
Site Name:			
Site Address:			
Environmental Permits	Check all that are applicable to the construction project site:		Permit Number
	<input type="checkbox"/> Yes	RIPDES CGP (construction)	
	<input type="checkbox"/> Yes	RIPDES RGP (dewatering)	
	<input type="checkbox"/> Yes	Freshwater Wetlands	
	<input type="checkbox"/> Yes	Water Quality Certificate	
	<input type="checkbox"/> Yes	CRMC Assent	
	<input type="checkbox"/> Yes	Army Corps	
	<input type="checkbox"/> Yes	Other (indicate type below)	
Site Owner	Name	Phone	Email
	Mailing Address		
Site Operator	Name	Phone	Email
	Mailing Address		
Inspection Information			
Site Inspector	Name	Phone	Email
Inspection Date		Start/End Time	
Date Land Disturbing Activities Ceased			
Date Final Site Stabilization was Achieved			

Section A

DEM Freshwater Wetlands Permit Conditions

(A1) Is FWW Applicable?

- Indicate if FWW Permit conditions were applicable to the project
- Same as Question A1 from Sub. 1
- If N/A, move on to Section B



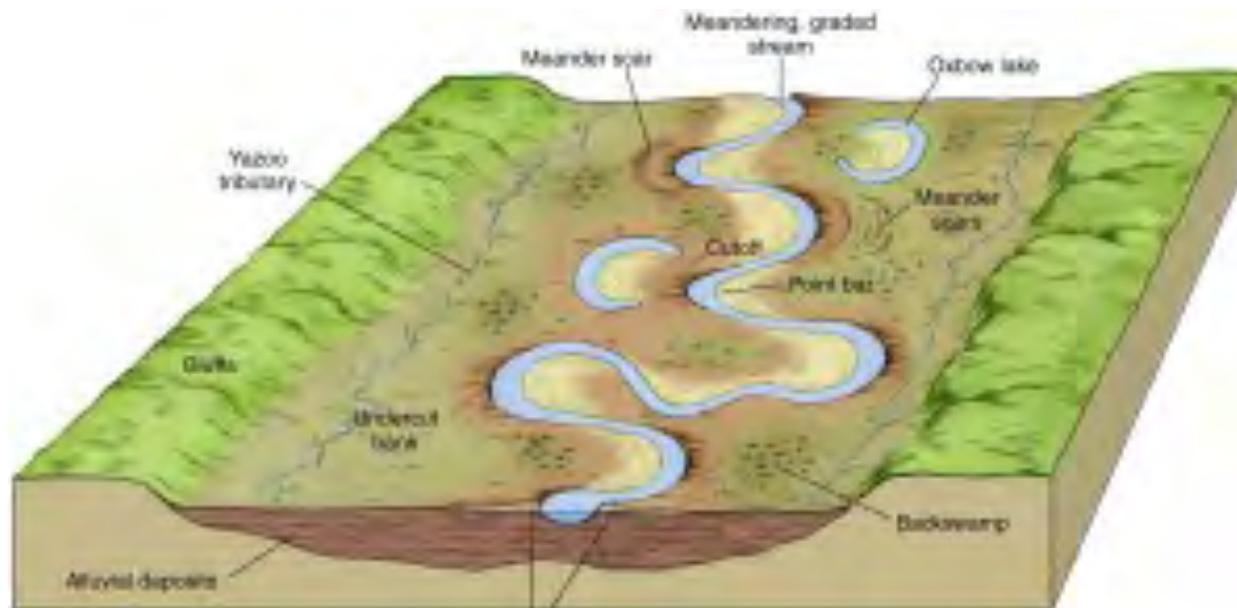
(A2) Flood Loss Compensation

- Indicate if the project includes flood loss compensation
- If N/A, move on to Question A3



(A2-i) Flood Loss Compensation

- Flood loss storage area must be excavated prior to any filling or alterations within the flood plain area



Flood Plain

(A2-ii) Flood Loss Compensation

- Dimensions of the flood loss storage area must be verified by a professional engineer
- Must be consistent with the approved site plans



Excavation Area



Certification

- Professional engineer must verify that the flood loss storage area was excavated correctly

A2	Does your project include flood loss compensation? If "N/A", skip to Question A3.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
i.	Was the flood loss storage area excavation completed prior to any filling or construction alterations within flood plain area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
ii.	As a registered land surveyor or professional engineer, by checking "Yes", I am verifying that the dimensions of the excavated area are consistent with the approved site plans.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Print Name of Registered Professional:			
Print License Number of Registered Professional:			
Signature of Registered Professional:			

(A3) Have You Complied with the Terms of the FFW Permit?

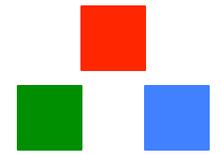
- Indicate if you have complied with the terms and conditions of the RIDEM FWW Permit
- Same as Question A10 from Sub. 1

A3	Has the owner complied with the terms and conditions of the FFW Permit?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
If you answered "No" to question A3, indicate any changes that were made here:			
Note: If you answered "No" to question A3 you may be in violation of your Freshwater Wetlands Permit Conditions. You should contact the DEM Office of Customer & Technical Assistance for further information by calling (401) 222-6822.			

(A10) Plantings

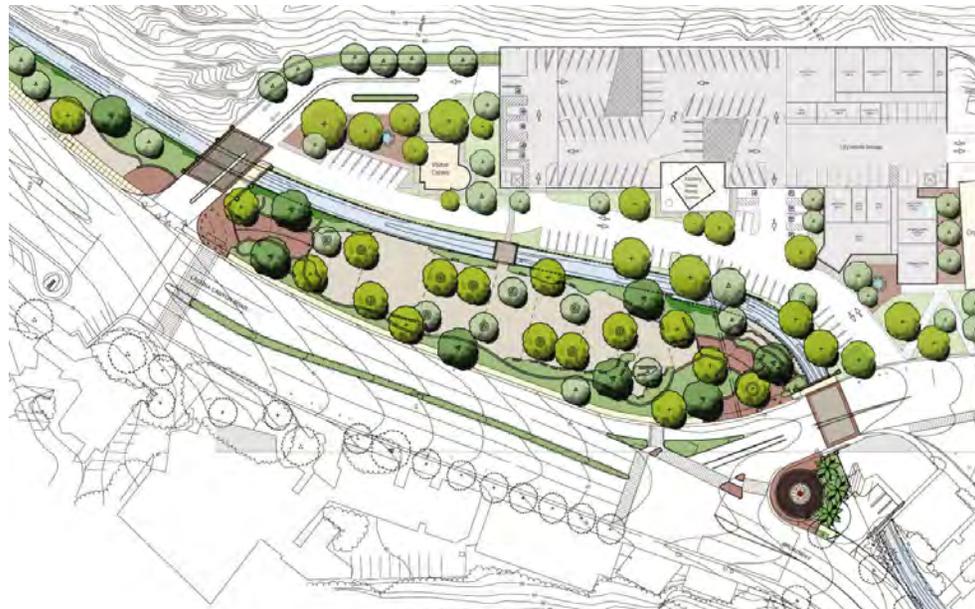
- Indicate if the project included any plantings
- If N/A, move on to Section B
- This does **NOT** include grass!
- This does include:
 - Shrubs
 - Trees
 - Other forms of vegetation





(A10a) Plantings

- The number and sizes of plantings installed must be in compliance with those detailed on the approved site plans



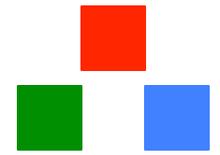
Site Plans depicting trees



(A10b) Plantings

- Indicate date of planting completion





(A10c) Plantings

- All plantings must be maintained or replaced if necessary



Watering is part of proper maintenance

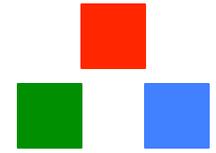


Dead and needs to be replaced

Section B

DEM Permit General Conditions

(B1) Permanent Stabilization



- **ALL** disturbed areas must be permanently stabilized

GOOD Example:



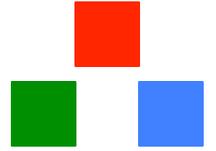
All disturbed soils have been seeded and planted for stabilization

BAD Example:



Stream is eroding, erosion control blanket is unearthed and surrounding area is not well seeded

(B2) Erosion Controls



- **ALL** temporary erosion control measures must be properly removed and disposed of if they are not expected to decompose

GOOD Example:

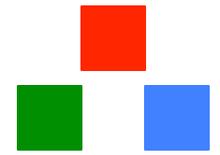


Biodegradable erosion controls in use

BAD Example:



Non-biodegradable erosion control left on a site that has finished construction



(B3) Encourage Growth

- Soils should be preserved or restored to provide a suitable habitat for vegetative growth

GOOD Example:

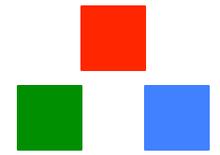


Soils on an access point are being preserved through the use of construction mats

BAD Example:



Soil here may need to be restored if vegetative growth does not occur



(B4) Bare Spots

- **ALL** bare spots must be seeded and mulched

GOOD Example:



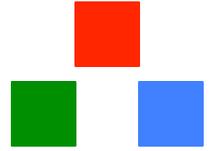
Uniform layer of
vegetation

BAD Example:



Bare spots need to be seeded and mulched

(B5) Vegetation



- There must be a uniform turf or other type of vegetation in **ALL** areas where vegetative stabilization is necessary

GOOD Example:

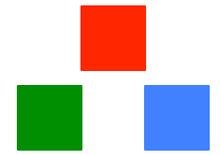


Thick, healthy vegetative growth

BAD Example:



Vegetation has died and needs to be replaced



(B7) Erosion

- **ALL** remaining signs of erosion must be repaired

GOOD Example:

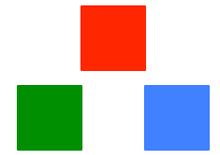


Erosion control blankets used on a slope to manage erosion

BAD Example:



Slope leading to a stream is badly eroded and needs to be repaired



(B8) Access Points

- **ALL** access points on site must be restored according to the RIDEM approved Site Plans

GOOD Example:



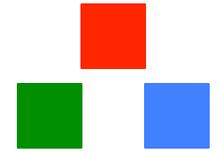
Reclaimed access road

BAD Example:



Old access road needs to be seeded⁶⁸

(B9) Drainage System



- **ALL** drainage systems and outlets must be checked to ensure proper installation and operation

GOOD Example:

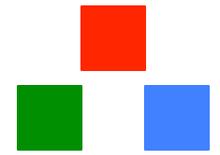


Outlet is properly installed and working

BAD Example:



Catch basin has collapsed



(B10) Inlet Areas

- **ALL** inlet areas must be clear, clean and stabilized

GOOD Example:



Catch basin is in good working condition

BAD Example:



Catch basin is in horrible working condition

(B11) Ground Infiltration Areas

- **ALL** swales, banks, and ditch bottoms must be stabilized by either vegetation or structural measures

GOOD Example:



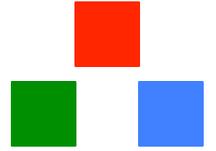
Swale has uniform vegetation

BAD Example:



Swale is filled with sediment and
unstabilized

(B12) Stormwater Flow



- Areas where runoff flows converge or where high velocity flows are expected must be stabilized

GOOD Example:



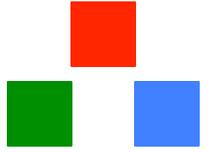
Uniform vegetation stabilizing flow at a convergence point

BAD Example:



Stabilization needed at flow convergence point

(B13) Vegetation Maintenance



- Vegetation that has been damaged or removed must be graded, re-seeded or replanted
- Temporary stream crossings must be removed

GOOD Example:



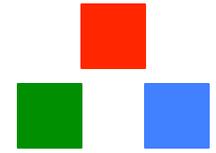
Suitable growth of vegetation

BAD Example:



Area needs to be reseeded

(B14) Infiltration



- **ALL** pervious areas and surface infiltration treatment systems must be restored to ensure the best possible infiltration capacity

GOOD Example:



Old surface infiltration basin has been restored

BAD Example:



Old surface infiltration basin is pooling and needs to be restored¹⁷⁴

(B15) Permanent Treatment Systems

- Indicate if the project includes permanent stormwater treatment systems
- These include:
 - ALL types of Basins
 - Infiltration Areas
 - Piping Systems
 - Culverts
 - Swales



Water Quality Treatment Basin

(B15-i) Permanent Treatment Systems

- Permanent treatment systems must be surveyed or checked to ensure proper installation and operation



Checking a Water Quality Treatment System

(B16) Permanent Treatment Systems

- A Stormwater Facility Maintenance Agreement must be established between the site owner and the those responsible for inspecting and maintaining all permanent stormwater treatment systems



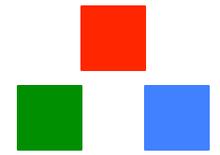
Stormwater Facility maintenance occurring

(B17) Permanent Treatment Systems

- A professional must check all permanent stormwater management features to ensure they are installed as detailed on the RIDEM approved Site Plans
- Certification



Catch Basin

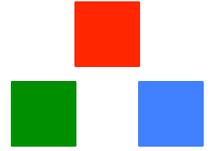


(B18) Subcontractors

- **ALL** subcontractors must repair their work areas before final closeout



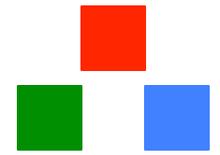
(B19) Debris and Trash



- The operator must remove **ALL** construction debris and personal trash from the site



Debris left for so long that has become overgrown



(B20) Staging Areas

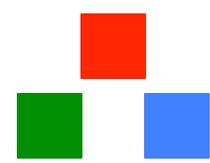
- Staging areas must be properly restored and there should not be any evidence of spills here



(B21) RIPDES GP Annual Fees

- **ALL** RIDEM RIPDES Construction General Permit annual fees must be paid prior to requesting formal termination of the permit





Certification Statement

CERTIFICATIONS		
<p>SITE INSPECTOR Certification: <i>"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify under penalty of law that all disturbed soils at the construction site have reached final stabilization and temporary erosion and sediment control measures have been removed or all stormwater discharges associated with construction and development from the construction site authorized by the RIDEM Stormwater Construction General Permit have otherwise been eliminated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</i></p>		
Print Inspector Name:	Inspector Signature:	Date:
<p>SITE OPERATOR Acknowledgment: The Site Operator acknowledges the completion of this checklist, and understands the requirements set forth in the RIDEM RIPDES Construction General Permit.</p>		
Print Operator Name:	Operator Signature:	Date:
<p>SITE OWNER Acknowledgment: The Site Owner acknowledges the completion of this checklist, and understands the requirements set forth in the RIDEM RIPDES Construction General Permit.</p>		
Print Owner Name:	Owner Signature:	Date:

They Are Different, But Work Together

- RIDOT Weekly Inspection Reports = assess site compliance on a weekly basis
- Self-Certification Checklists = assess overall site compliance for life of the project



The small parts that make up the big picture

Compliance Assistant Program

- Objective
- Current situation
- Motivation
- Compliance Assistance Program introduction
- Self-Certification checklists
- **Wrap up**
- Open forum



Lending a Helping Hand

- The Self-Certification Checklists provide guidance for:
 - RIDOT Weekly Inspection Reports
 - Permit Requirements
 - BMP Requirements
 - Documentation Requirements



On Site Documentation

- The following must be on site at all times:
 - Signed copy of the SESC Plan
 - **ALL** RIDOT Weekly Inspection Reports
 - Copies of **ALL** permits
 - SESC Plans or Site Plans detailing BMPs



SESC Amendments

- For amendment to the SESC Plan you must:
 - Specify this in the RIDOT Weekly Inspection Report Amendment Log in which the issue was first documented
 - Update all copies of the SESC Plan

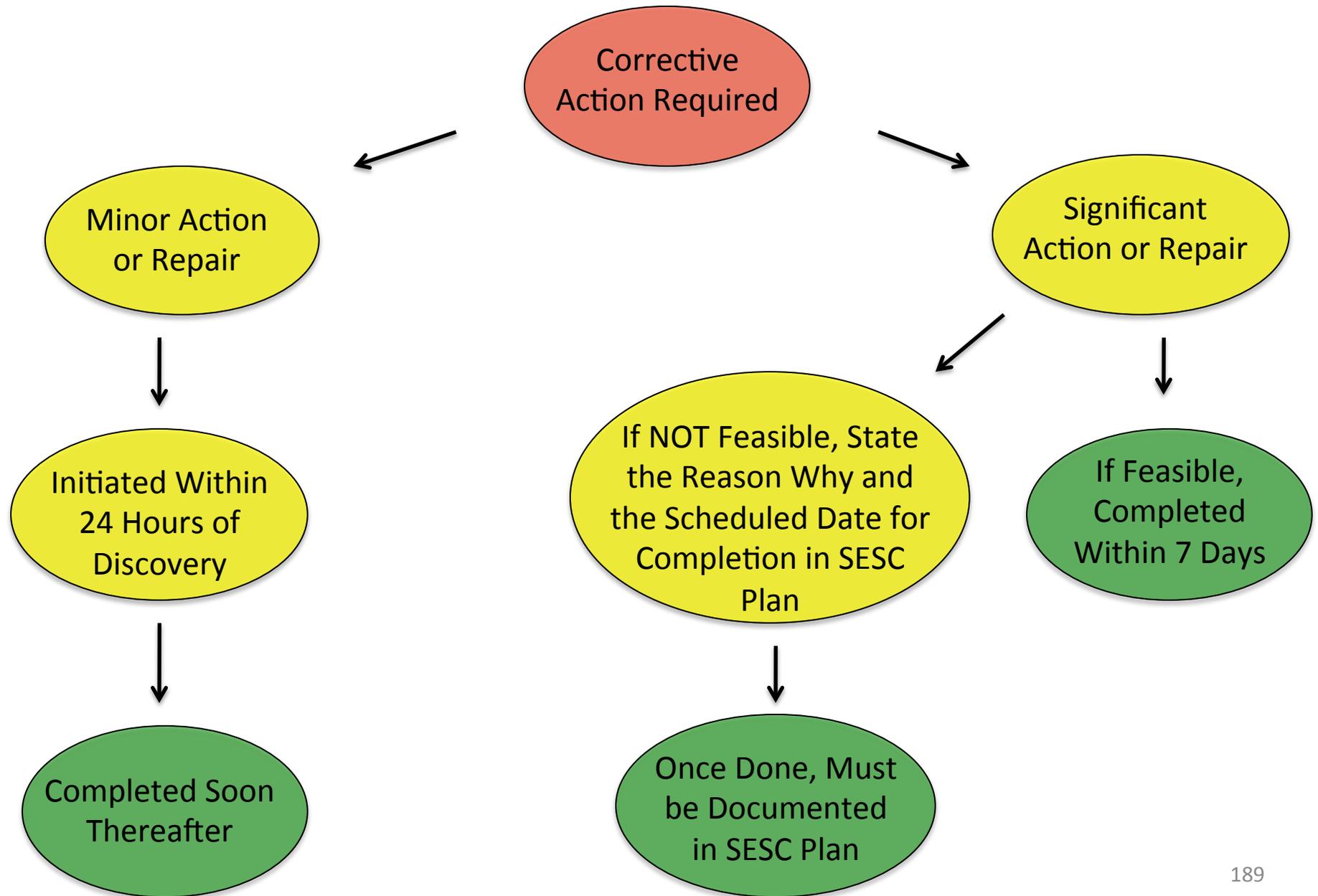

Rhode Island Department of Transportation
AMENDMENT LOG

ALL AMENDMENTS MUST BE APPROVED BY RIDOT RESIDENT ENGINEER

Describe amendment to be made to SWPPP, the date, and the person/title making the amendment. ALL amendments must be approved by the RIDOT Resident Engineer.

Amendment Number	Date	Description of Amendment	Amended by: Person/Title	R.E. initials
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

RIDOT Corrective Action Process



Compliance Assistant Program

- Objective
- Current situation
- Motivation
- Compliance Assistance Program introduction
- Self-Certification checklists
- Wrap up
- **Open forum**





Questions