



Construction Site Stormwater Compliance Assistance Program

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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

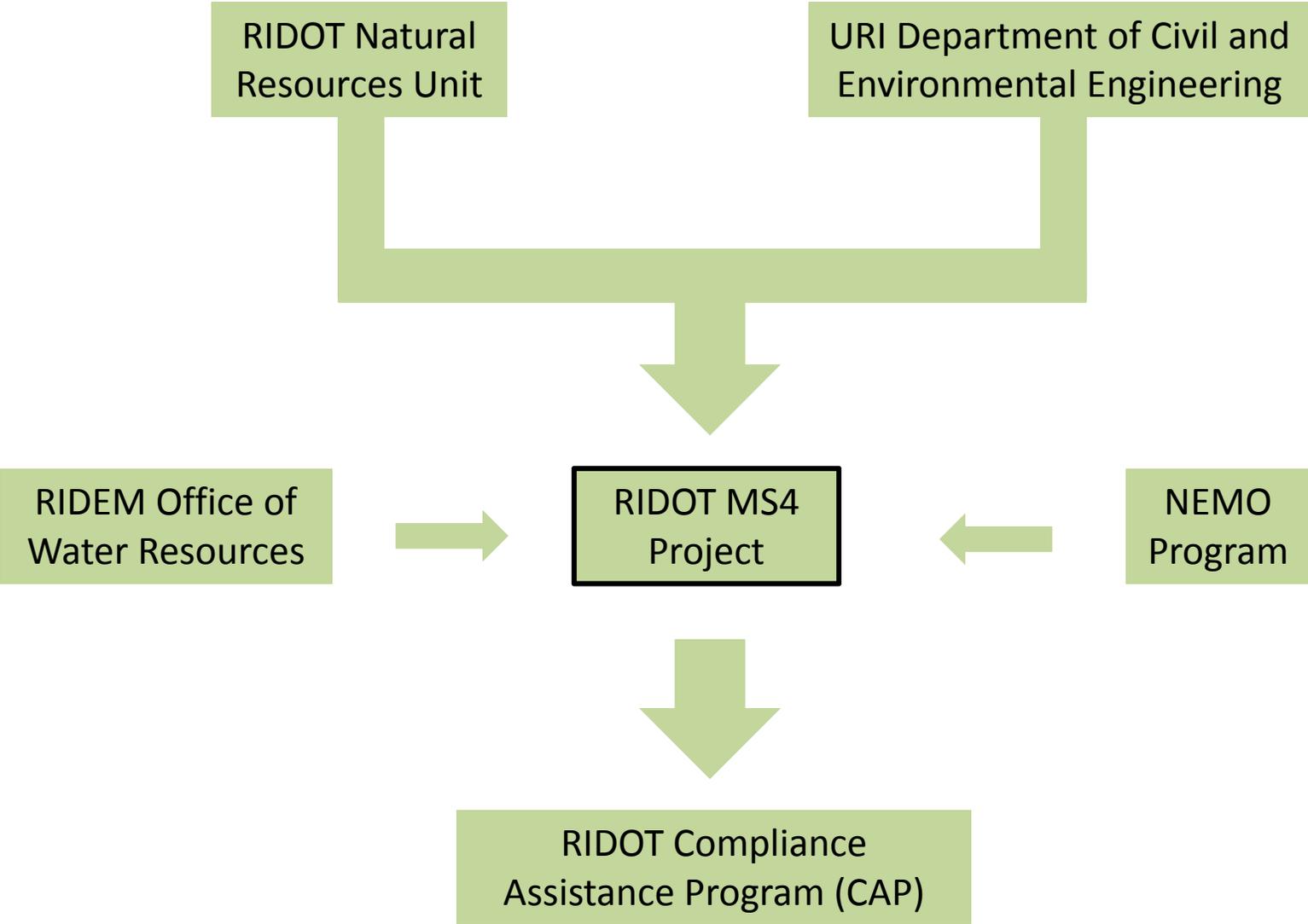
The RIDOT Compliance Assistance Program (CAP) seeks to increase the environmental compliance in RIDOT construction sites, through the optimal use of human and material resources

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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



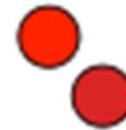
Initial RIDOT Inspections

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

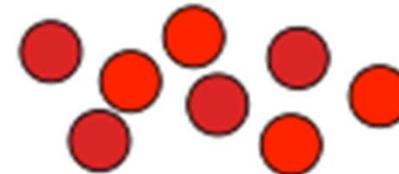
Before selection



After selection



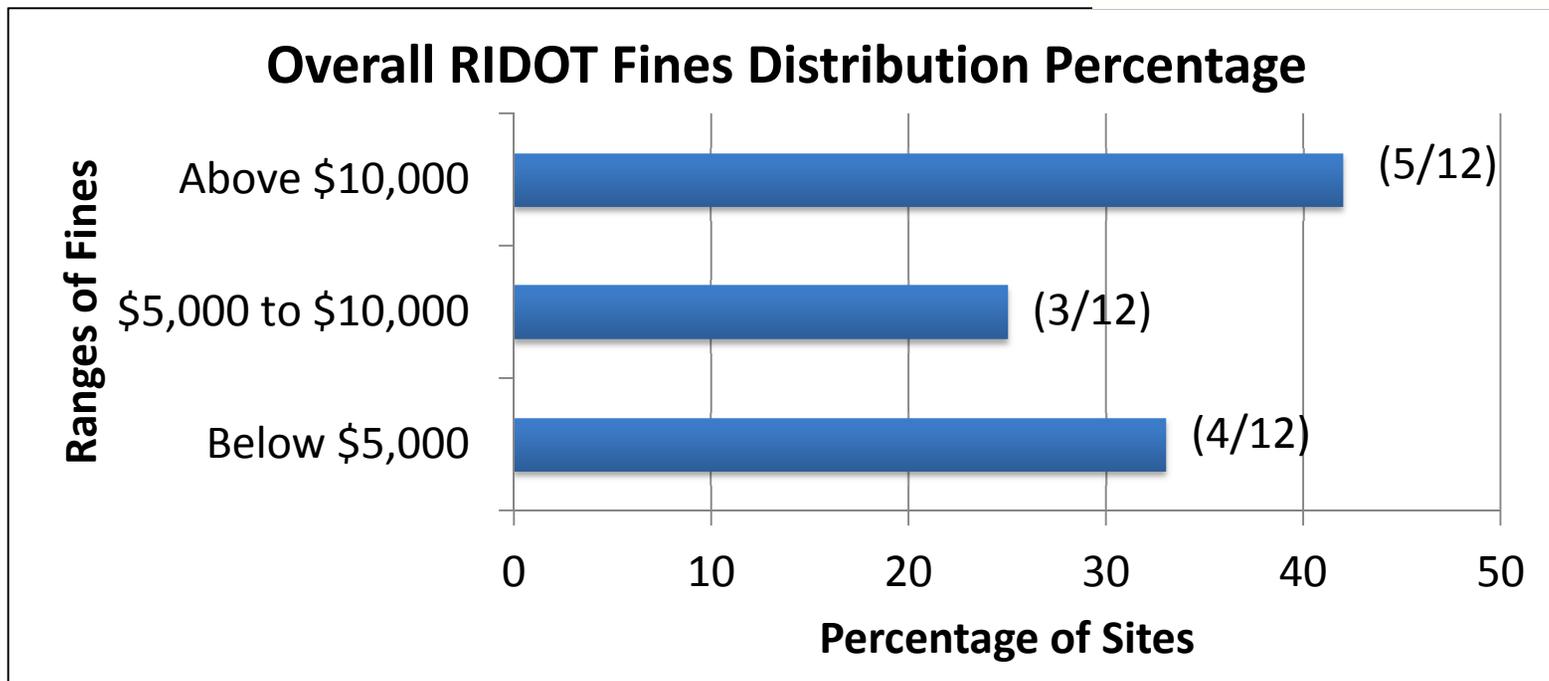
Final population



Results of EPA Checklist

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

Non-compliance **Costs**

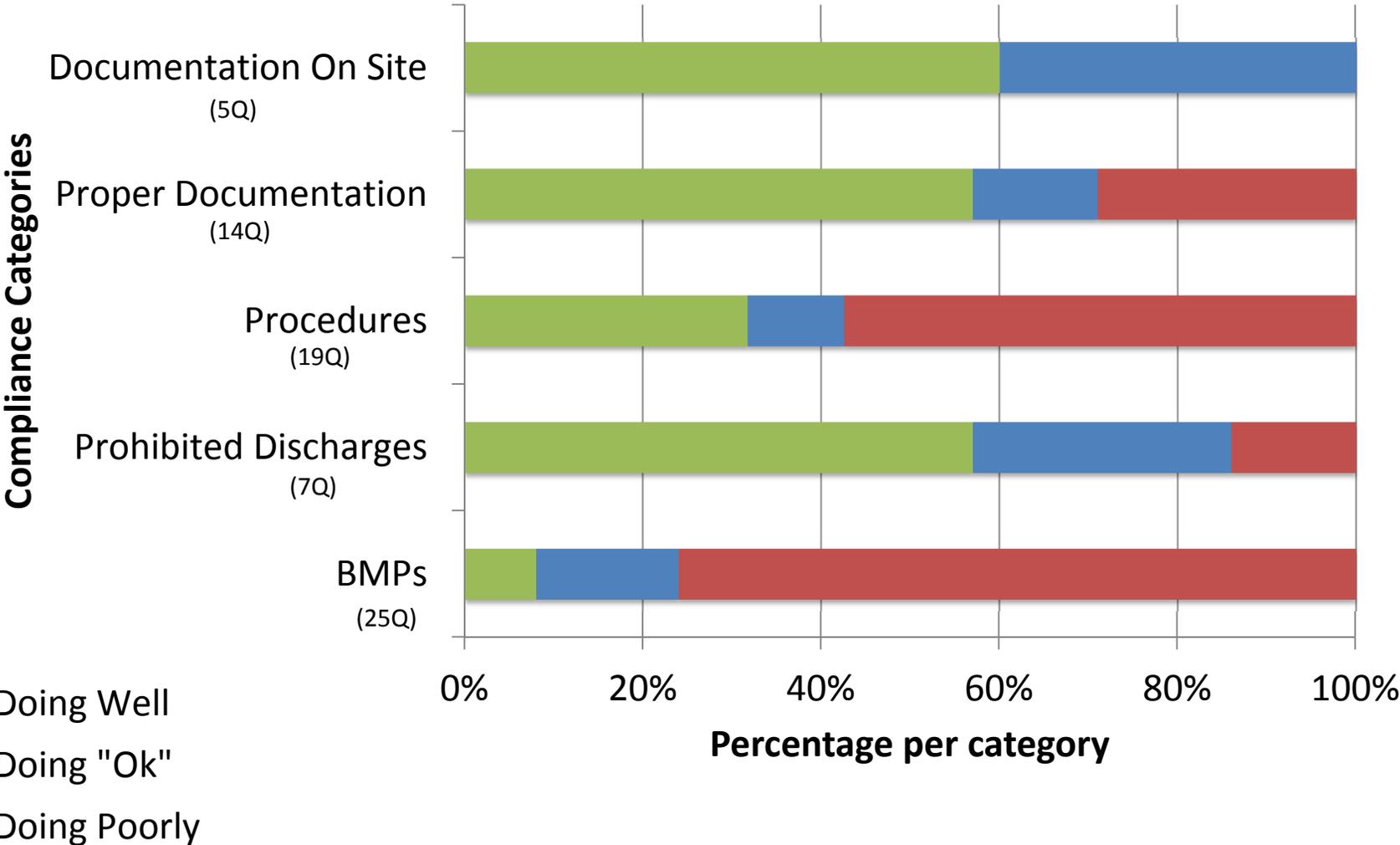


Compliance Categories

- 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

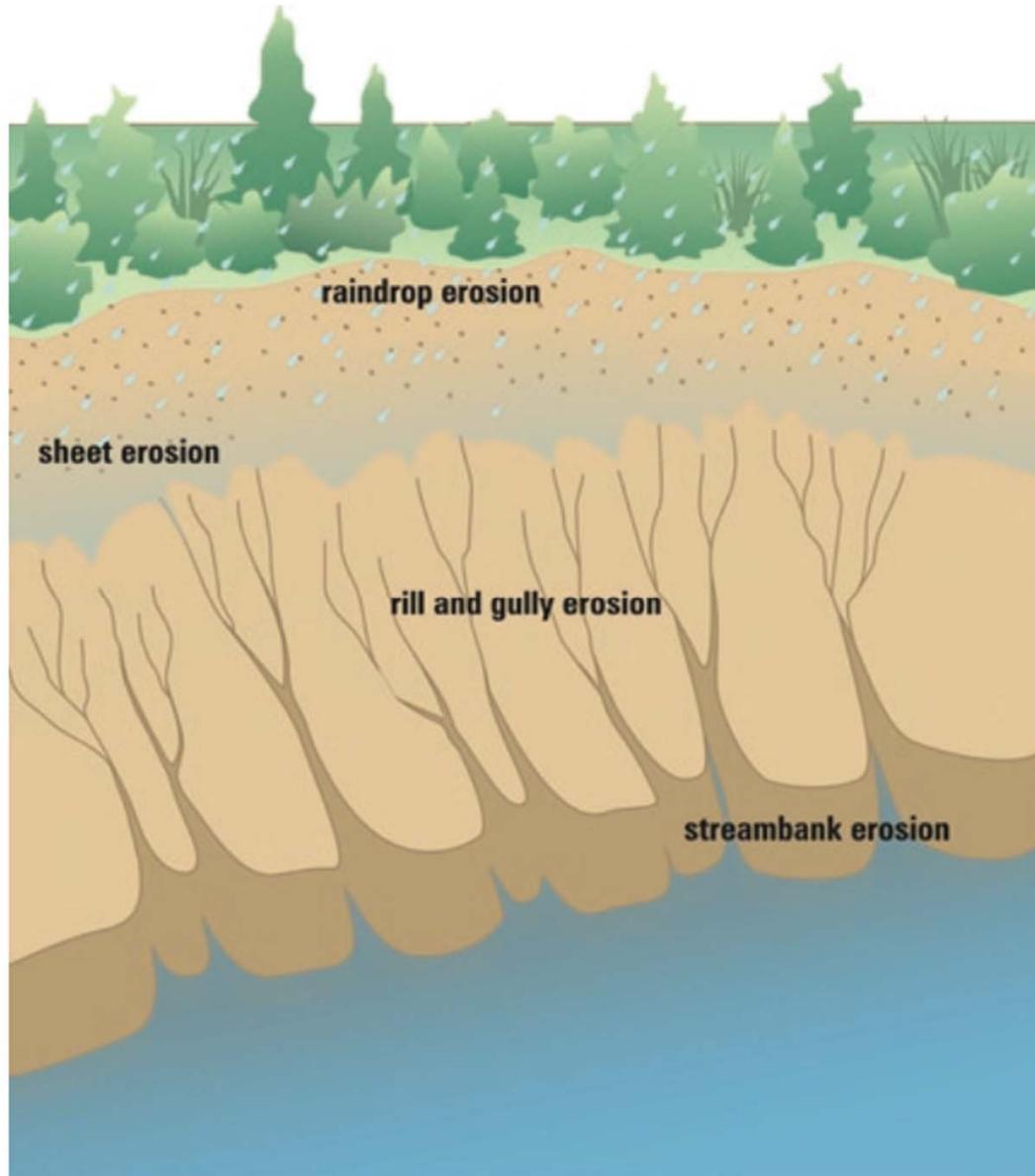


Clean Water Act Amendment 1987

- 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

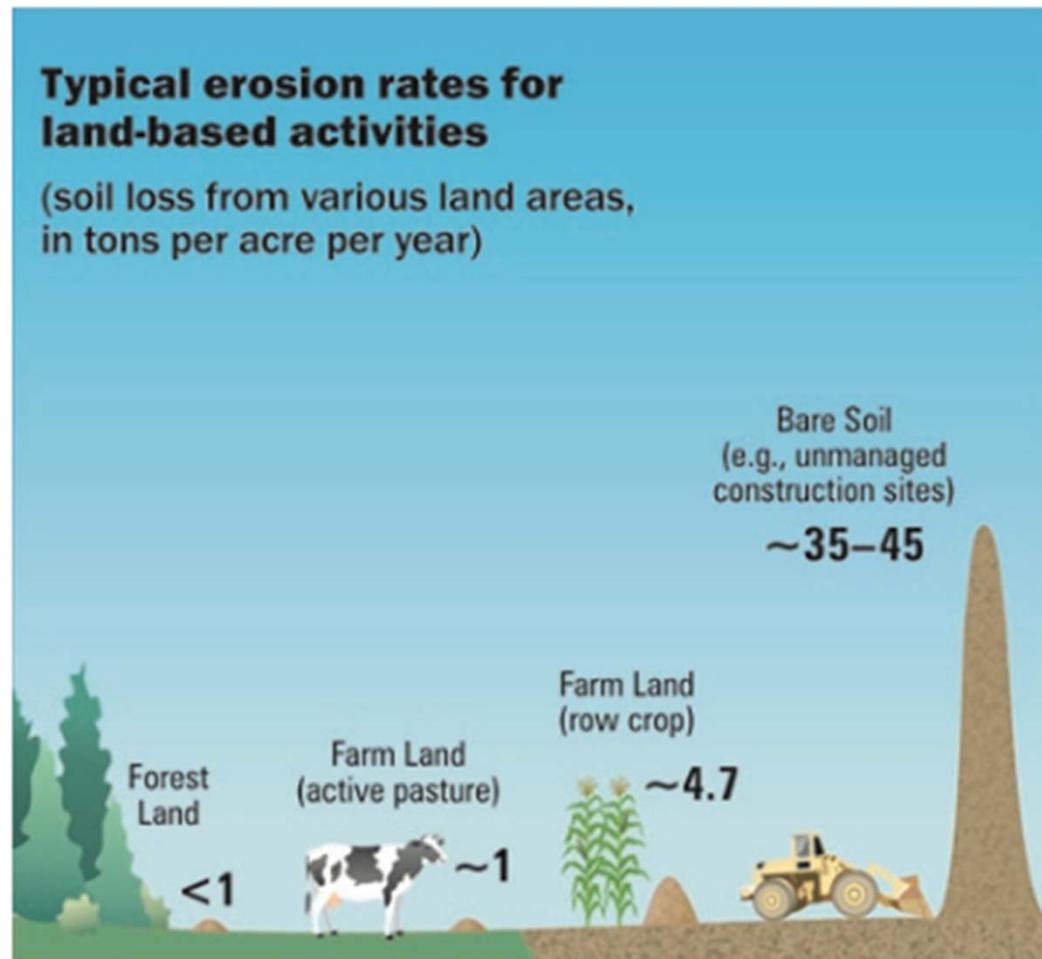


Construction activities are responsible for 50 to 90% of sediment entering surface waters*,**

*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



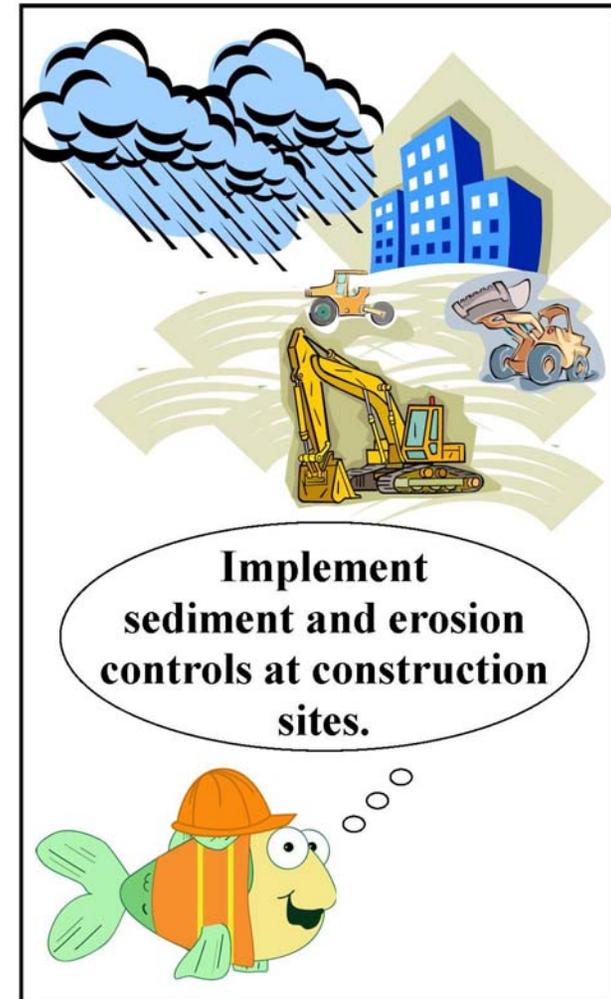
Pollutants Impacts: Sediment

- 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

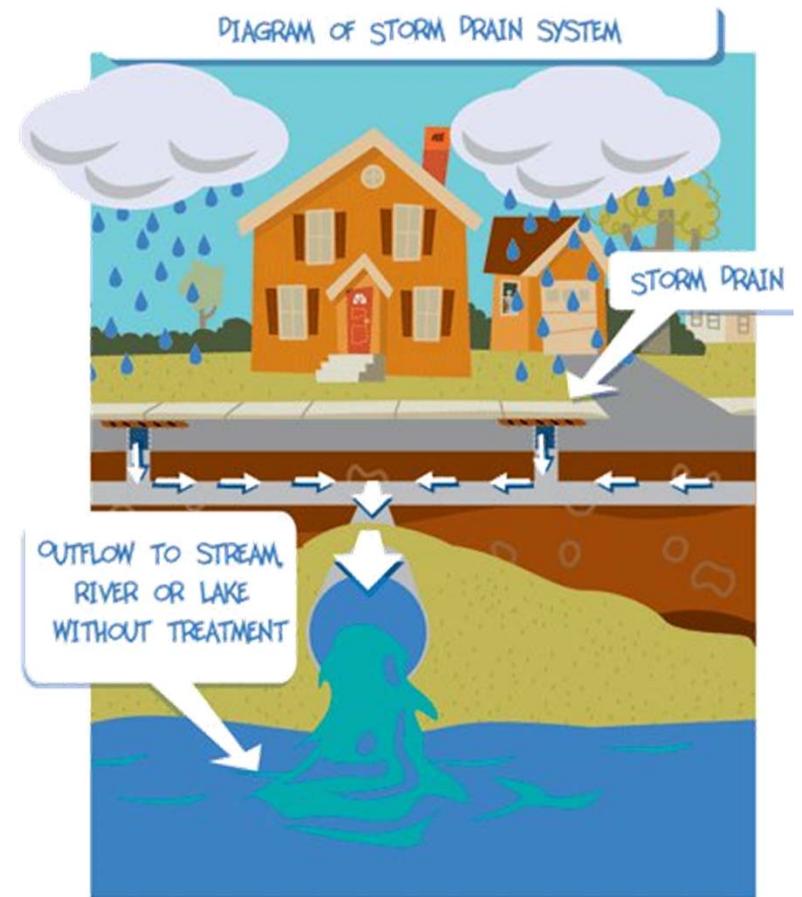
- Off-site

- 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

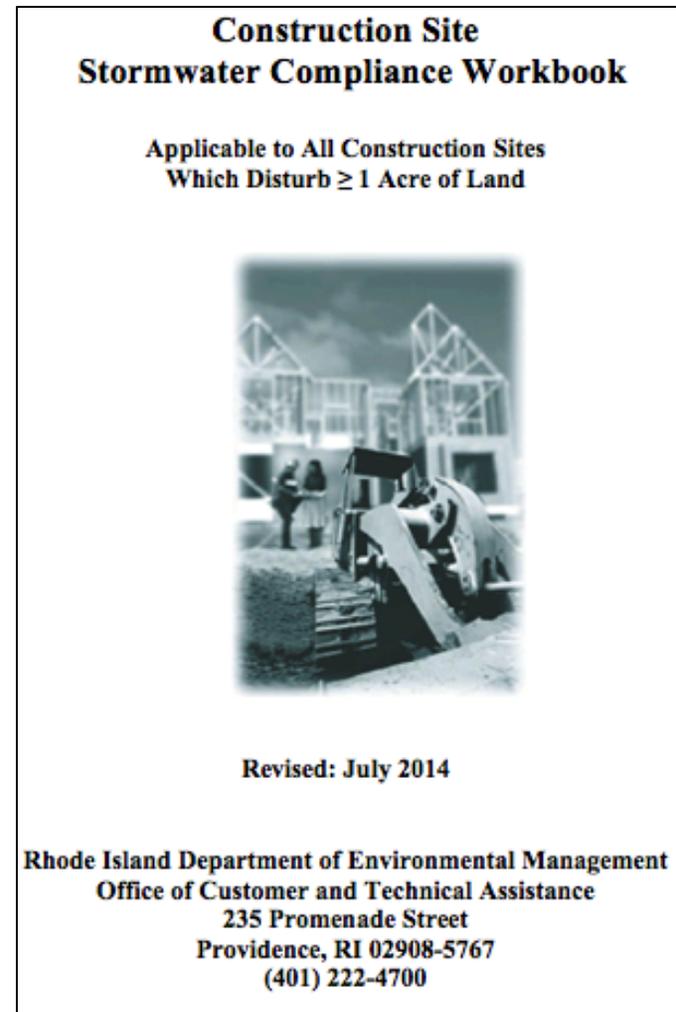
Help RIDOT construction sites stay compliant

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



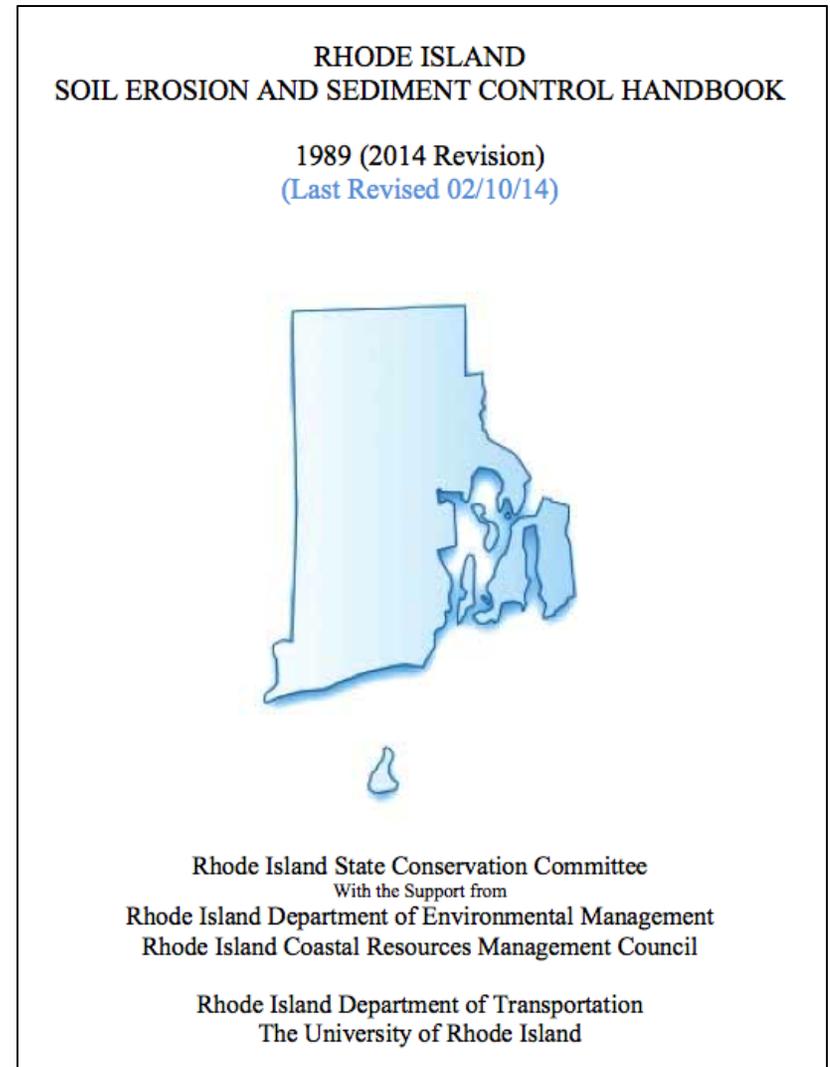
Construction Site Stormwater Compliance Workbook

- 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

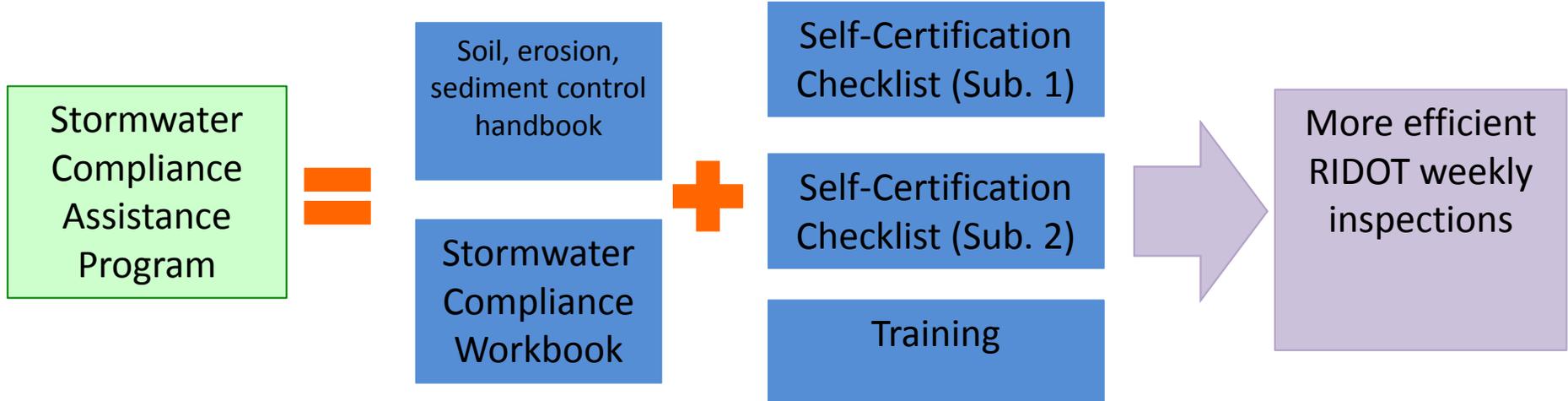


Compliance Certification Checklists

- **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



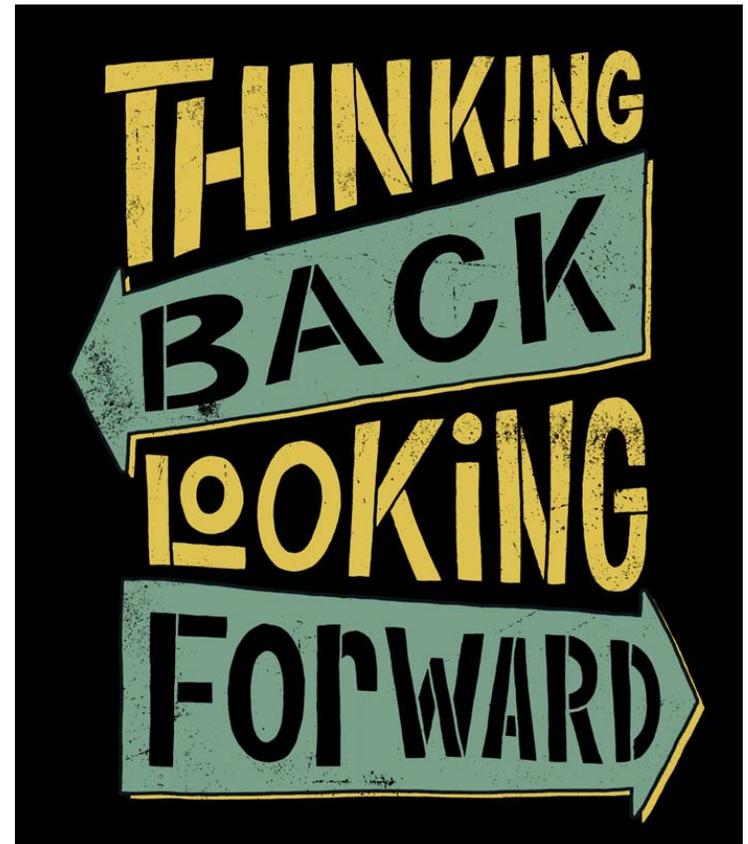
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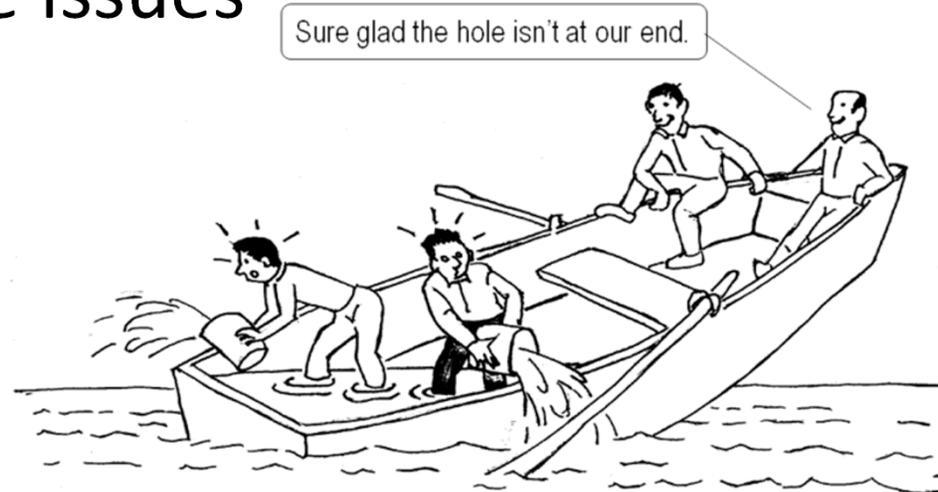
Self-Certification Checklists

- 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

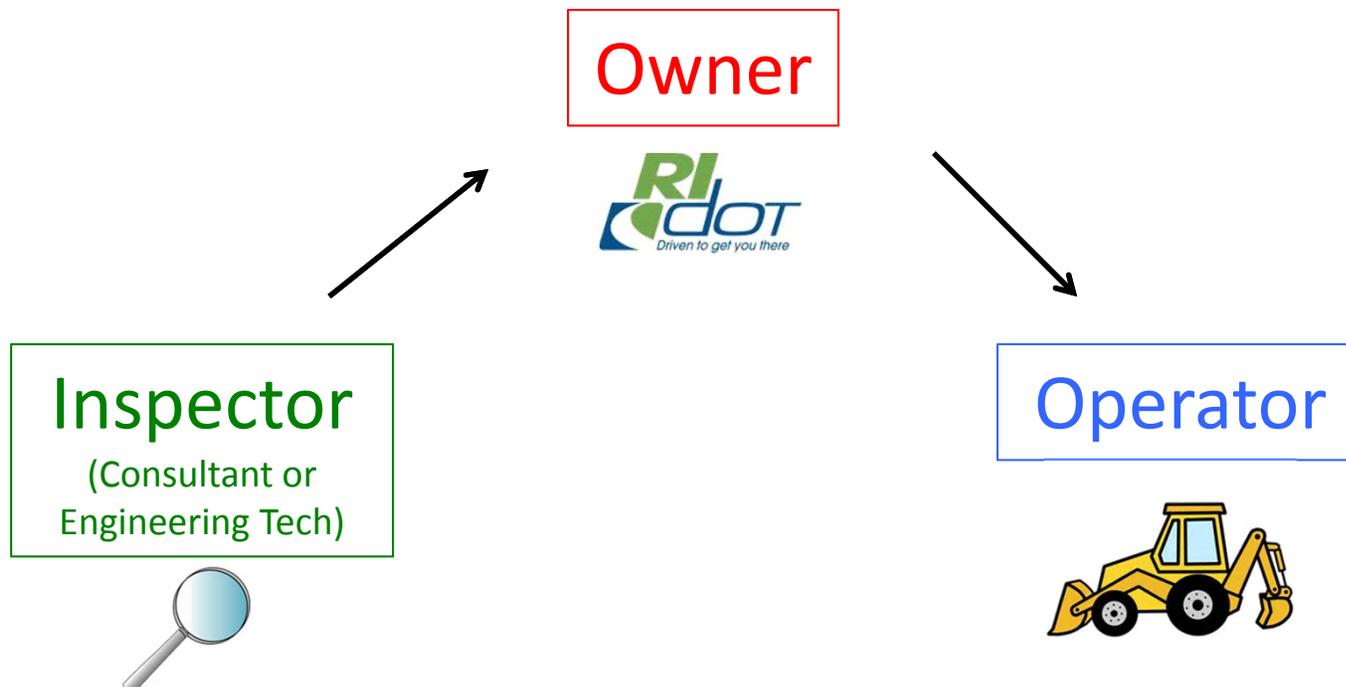




Responsibility Structure



- 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!



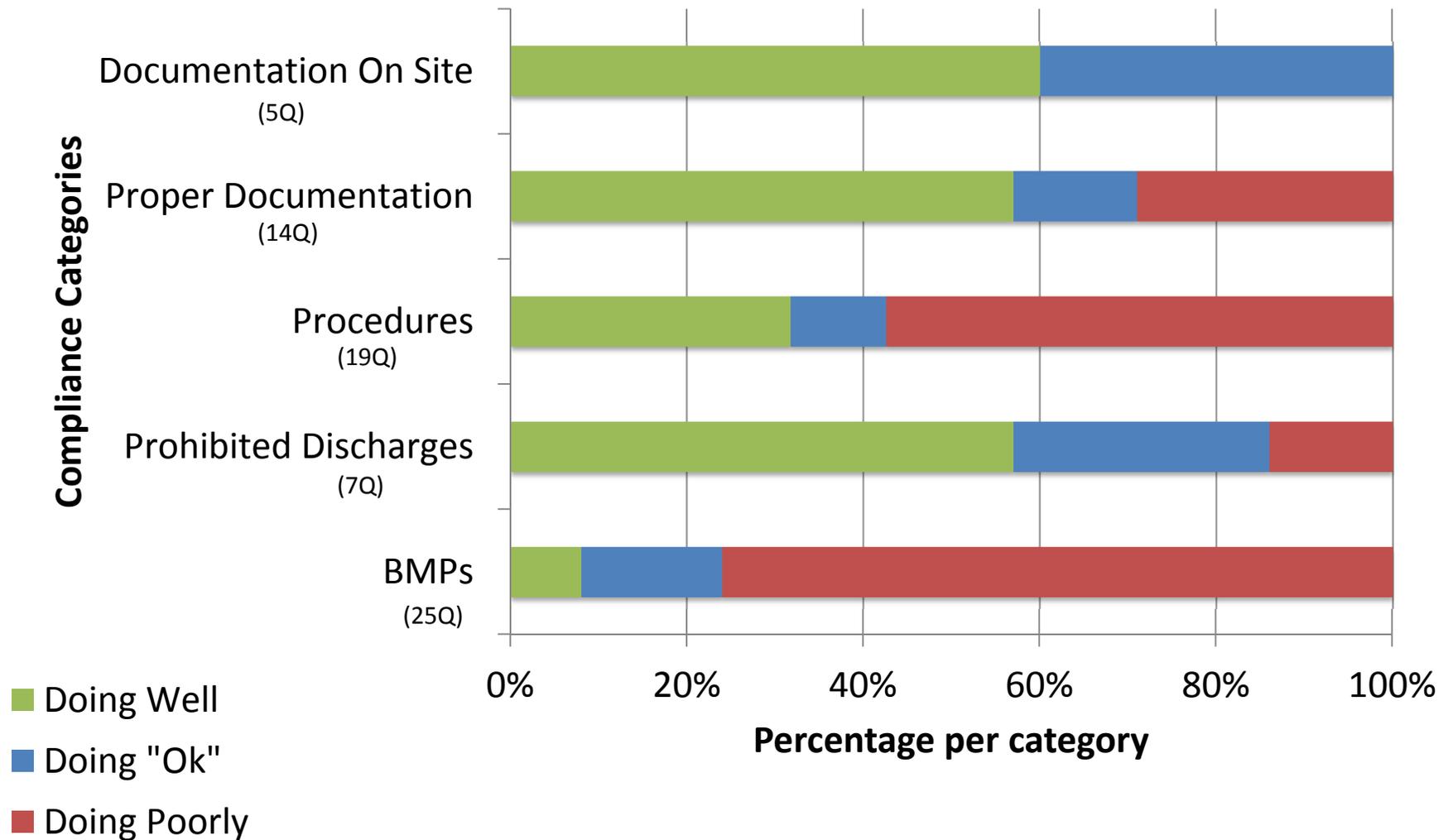
Time to Fill Out the Checklist

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

ANSWER: Yes



(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.



ANSWER: No



(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

ANSWER: Yes



(A3) FWW Required Documents

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



ANSWER: Yes



(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



ANSWER: Yes



(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

ANSWER: Yes



(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

ANSWER: Yes



(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

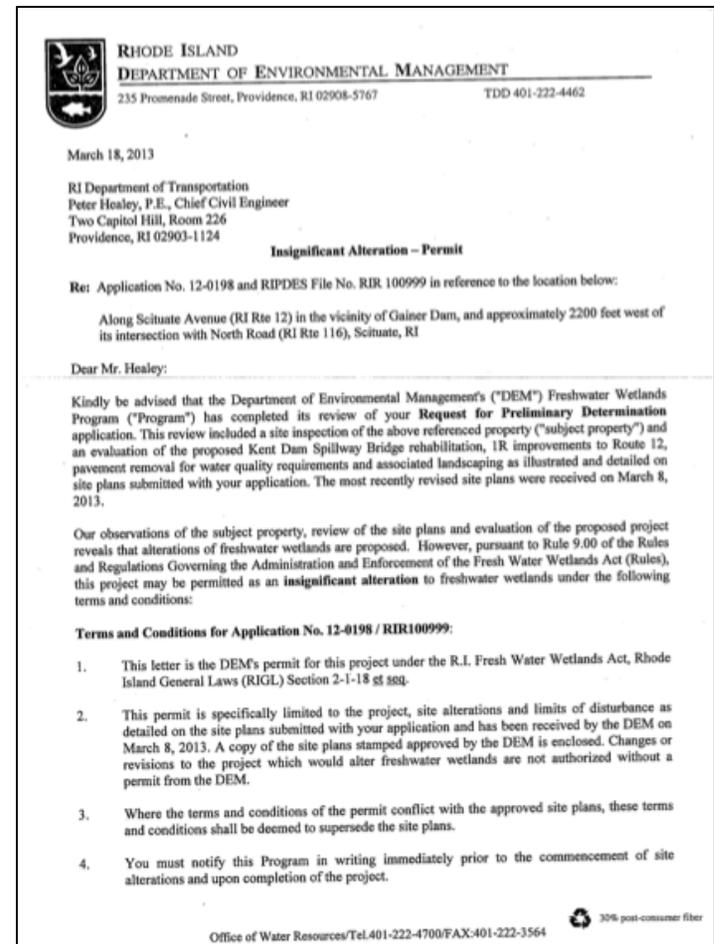


ANSWER: No



(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



FFW Permit

ANSWER: No



(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

Feedback for **Section A**

I WANT YOU



FOR FEEDBACK!

Lets Fill Out **Section B**



Section B

Erosion, Runoff, and Sediment
Control Conditions

ANSWER: No



(B1) Installation of Controls



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



Compost Filter Sock



Silt Fence

ANSWER: Yes



(B2-i) Limits of Disturbance

- LOD must protect environmental resources and sensitive receptors



LOD protecting a wetland
(sensitive receptor)



LOD protecting trees
(environmental resource)

ANSWER: No



(B2-ii) Limits of Disturbance

- LOD must protect planned infiltration areas and pervious areas



LOD protecting a pervious area

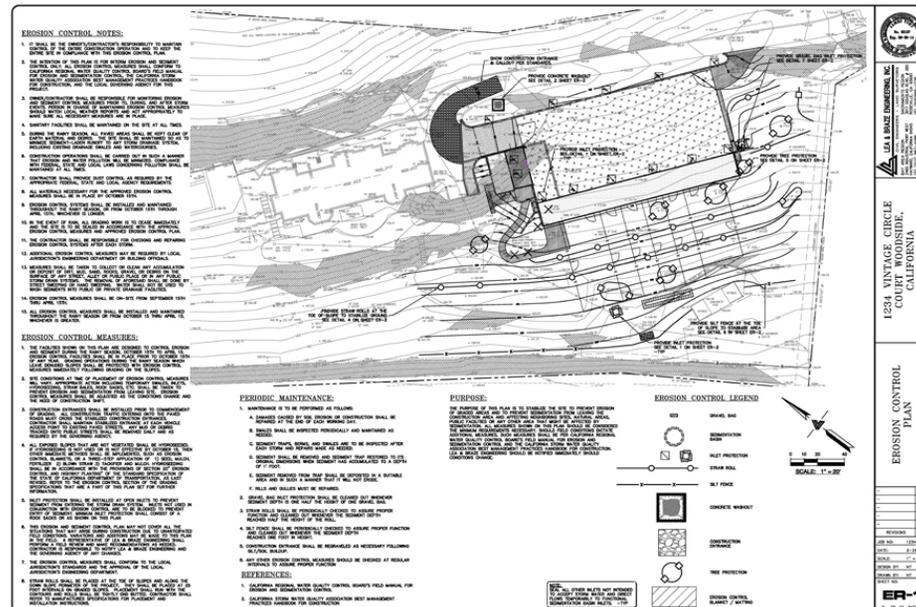
ANSWER: No



(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

ANSWER: No



(B2-iv) Limits of Disturbance



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



ANSWER: No



(B3) Stormwater Flow

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



Check Dam



Sediment Basin

ANSWER: Yes



(B4) Temporary Conveyances



- All temporary conveyances must be installed and functioning properly



Temporary Channel

ANSWER: No



(B4-i) Temporary Conveyances



- Must be maintained for proper function



Unmaintained Temporary Conveyance

ANSWER: Yes



(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

ANSWER: No



(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

ANSWER: Yes



(B7) Soil Stabilization



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



Erosion Control Blanket

ANSWER: N/A



(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

ANSWER: Yes



(B9) 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 Protection₂

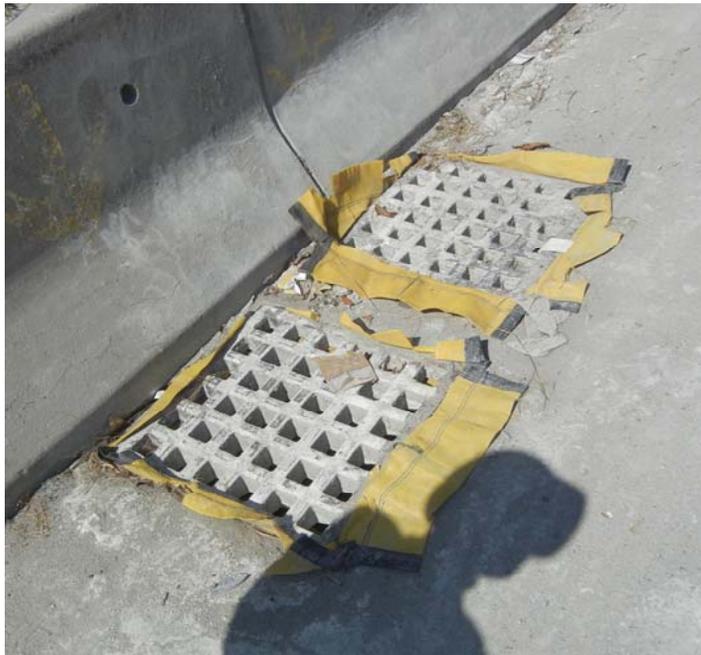
ANSWER: No



(B10) 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

ANSWER: No



(B11) 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

ANSWER: Yes



(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

ANSWER: No



(B13) Outlet Protection

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



Scour of a Bridge Support

ANSWER: Yes



(B14) Outlet Protection



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



Inspection of a Culvert During Active Construction

ANSWER: Yes



(B15) Sediment Barriers

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



Compost Filter Sock



Hay Bails/ Silt Fence

ANSWER: No



(B16) Sediment Barriers



- 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

ANSWER: Yes



(B17) Protection of Permanent 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

ANSWER: Yes



(B18) Protection of Permanent 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 Where Soils have Been Compacted

ANSWER: Yes



(B19) Surface Outlets

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



Surface Outlet Skimmer

ANSWER: No



(B20) Surface Outlets



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



Adequately Maintained Temporary Sediment Trap

(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

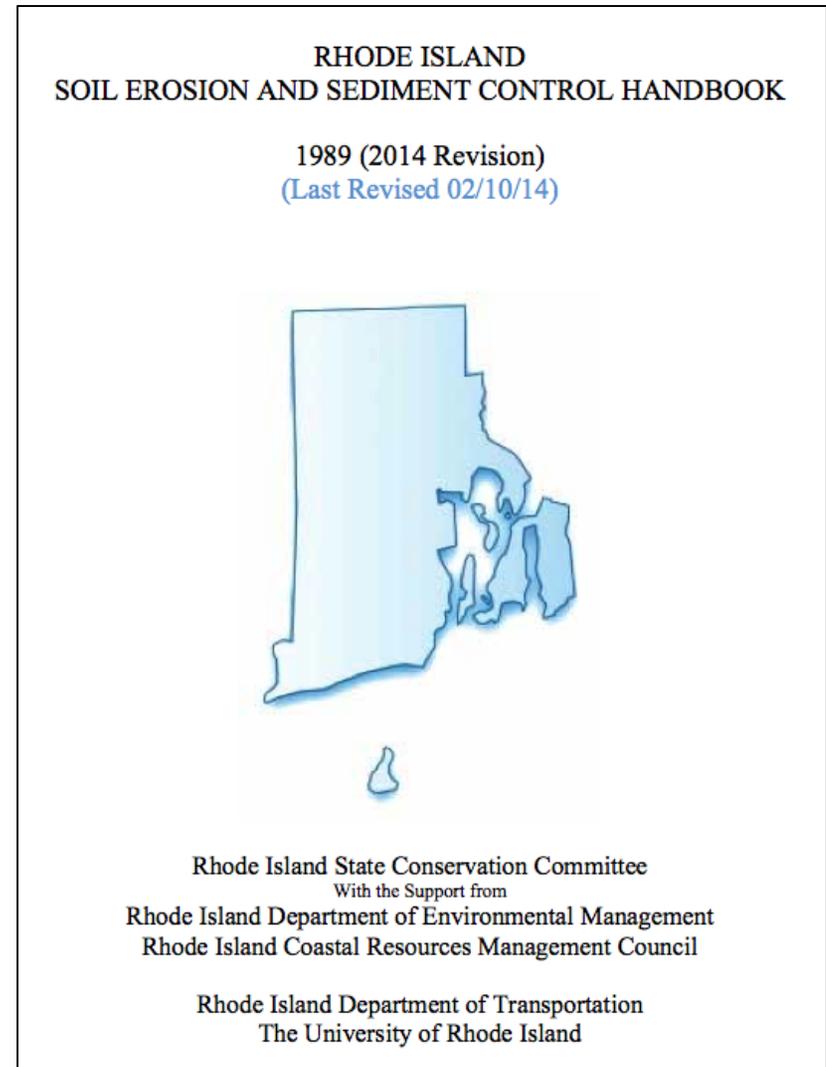


ANSWER: N/A



(B22) Treatment Chemical Use

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



Feedback for **Section B**

I WANT YOU



FOR FEEDBACK!



Time for
a **BREAK**



Lets Fill Out **Section C**



Please Skip Question C13

Section C

Pollution Prevention

ANSWER: No



(C1-i) Contaminated Groundwater

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



Large Groundwater Basin

ANSWER: No

(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

ANSWER: Yes

(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

ANSWER: Yes



(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

ANSWER: Yes



(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 94

ANSWER: N/A



(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

ANSWER: No

(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 directly impacting a catch basin

ANSWER: No

(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

ANSWER: No

(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

ANSWER: No

(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

ANSWER: No



(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 uncovered 100

ANSWER: N/A

(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

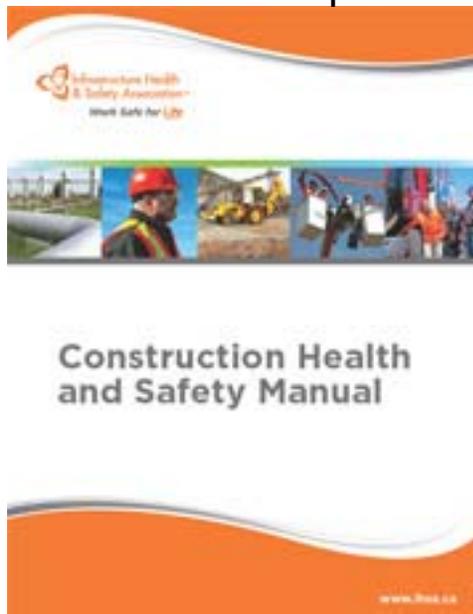
ANSWER: Yes

(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

ANSWER: Yes



(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:



The what?

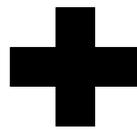
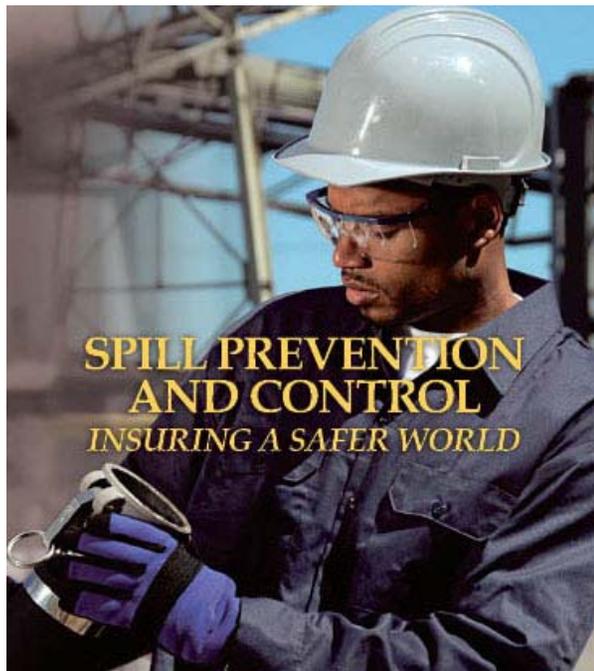
There may or may not be a spill kit on site₃

ANSWER: Yes

(C10) Spill Prevention and Control



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



ANSWER: No

(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

ANSWER: No

(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

ANSWER: No



(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

ANSWER: No



(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

ANSWER: N/A



(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!

ANSWER: No



(C15) 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 sediment barriers

BAD Example:



Staging area and non-outdoor materials are NOT surrounded by sediment barriers

ANSWER: Yes



(C16-i) 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 sediment barrier (LOD marking)

ANSWER: No



(C16-ii) Stockpiles



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

GOOD Example:



Stockpile surrounded by sediment barrier

BAD Example:



Unprotected stockpile

ANSWER: Yes



(C16-iii) 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

ANSWER: No



(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

ANSWER: Yes

(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

ANSWER: Yes



(C19) Equipment and Vehicle Fueling and Maintenance



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

 **CAUTION**

Feedback for Section C

I WANT YOU



FOR FEEDBACK!

Lets Fill Out Section D



Section D

Record Keeping

ANSWER: Yes



(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

SESC Plan

Located in the RIDOT Field Office at 56 Lincoln Ave,
Warwick, RI 02888
Please Call Wayne at
(401) 567-9877

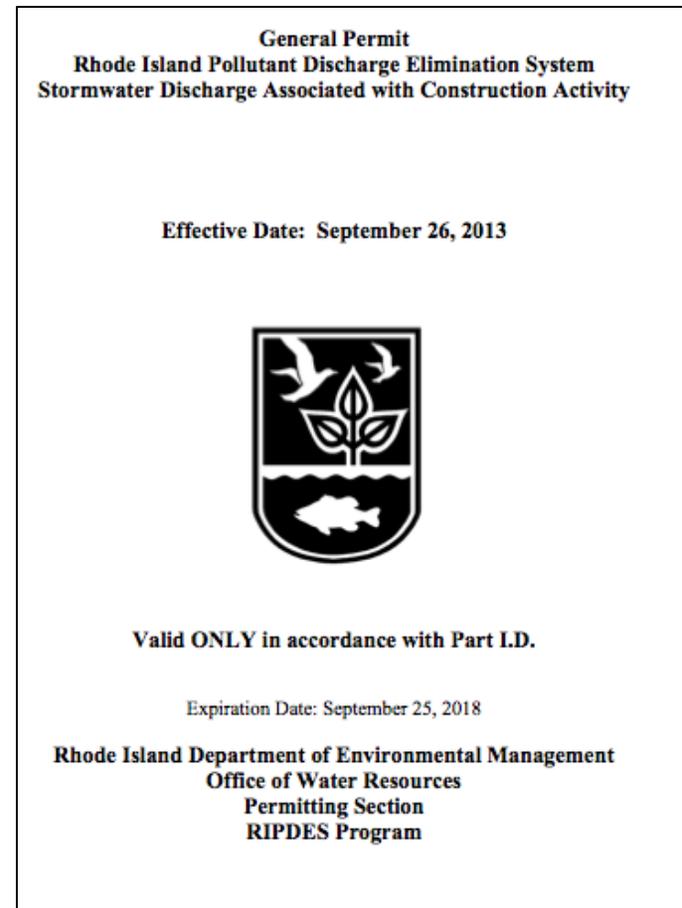
Example SESC Plan Location Sign

ANSWER: No



(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

ANSWER: Yes



(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
<small>TO BE DETERMINED UPON CONTRACT AWARD</small>	
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

ANSWER: Yes



(D19) Required Documents

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

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

ANSWER: No



(D18) Required Documents

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

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

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) NOTICE OF INTENT (NOI) STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY (Revised 8/08)

DEM USE ONLY
Date NOI Received _____
Date Fee Received _____
RIPDES# _____ RIR _____

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):
PRI - 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

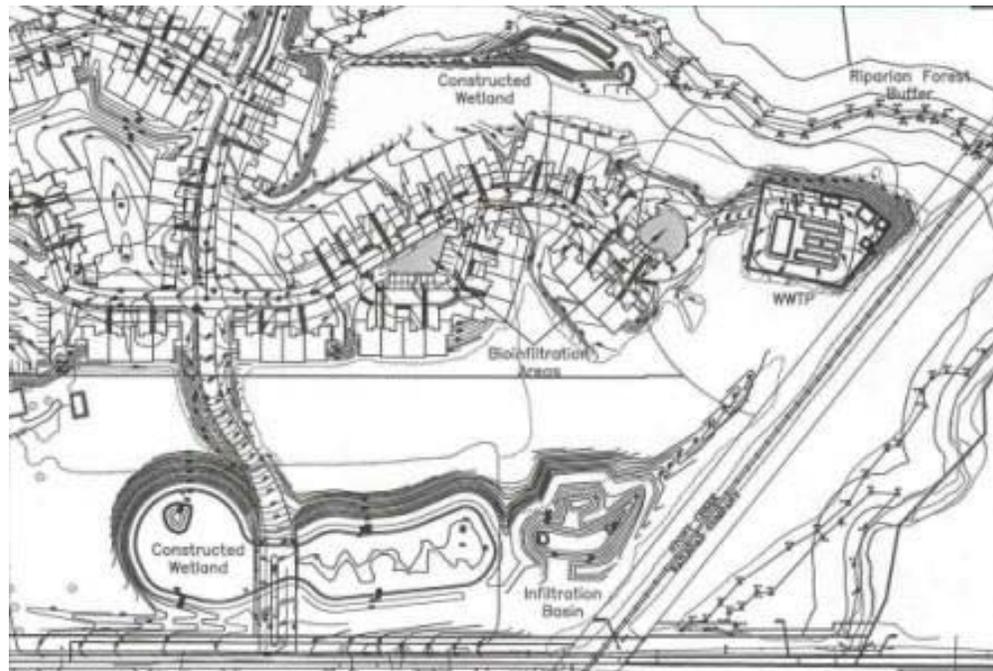
RIDEM Notice of Intent Example 125

ANSWER: Yes



(D6) Required Documents

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



Site Plans detailing BMPs

ANSWER: Yes



(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

ANSWER: Yes



(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

ANSWER: N/A



(D7) SESC Plan



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

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 SESC Amendment Log

ANSWER: Yes



(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	<input type="checkbox"/>		
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

ANSWER: No



(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

ANSWER: (i-iv) Yes (v-vii) No



(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!



ANSWER: No



(D11) Records of Maintenance and Corrective Actions



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



ANSWER: Yes



(D12) Records of Maintenance and Corrective Actions

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



ANSWER: N/A



(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)

7 DAYS

ANSWER: N/A



(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



ANSWER: N/A



(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

ANSWER: Yes



(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

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		

ANSWER: No



(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:

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

Fresh Water Wetlands



(A1) Is FWW Applicable?

- Indicate if FWW Permit conditions were applicable to the project
- Same as Question A1 from Sub. 1

(A2) Flood Loss Compensation

- Indicate if the project includes flood loss compensation
- Flood loss storage area must be excavated prior to any filling or alterations within the flood plain area
- Dimensions of the flood loss storage area must be verified by a professional engineer
- Must be consistent with the approved site plans



Flood Loss Storage Area

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:			

Certification by a Professional Engineer

Fresh Water Wetlands



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

- Indicate if you have complied with the terms and conditions of the RIDEM FFW 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.			

FFW Compliance Statement



Site Plan on Plantings

(A10) Plantings

- Indicate if the project included any plantings
- This does **NOT** include grass!
- This does include:
 - Shrubs
 - Trees
 - Other forms of vegetation
- The location, number, and sizes of plantings installed must be in compliance with those detailed on the approved site plans
- Indicate date of planting completion
- All plantings must be maintained or replaced if necessary



Plant Maintenance

Section B

DEM Permit General Conditions

Site Stabilization



(B1) Permanent Stabilization

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

(B2) Erosion Controls

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

(B3) Encourage Growth

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

(B4) Bare Spots

- **ALL** bare spots must 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



Permanent Stabilization



Biodegradable Erosion Control



Bare Spots and Vegetation

Site Stabilization & Drainage



(B7) Erosion

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

(B8) Access Points

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



Old Access Point (Needs to be Restored)

(B9) Drainage System

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



Damaged Catch Basin



Badly Eroded Slope

(B10) Inlet Areas

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

(B11) Ground Infiltration Areas

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



Inlet (Needs to be Cleared & Stabilized)

Site Stabilization



(B12) Stormwater Flow

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



Stabilization Where Flows Converge

(B13) Vegetation Maintenance

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



Damaged Vegetation (Needs to be Fixed)

(B14) Infiltration

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



Restored Swale

Permanent Treatment Systems



(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

(B15-i) Permanent Treatment Systems

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

(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

(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



Permanent Treatment Systems



Inspecting Treatment System



Periodic removal of captured pollutants is essential

Stormwater Maintenance Agreement

Final Closeout



(B18) Subcontractors

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



Repair Work



Restore Staging Area

(B19) Debris and Trash

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

(B20) Staging Areas

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

(B21) RIPDES GP Annul Fees

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



Construction Debris (Needs to be Removed)₅₂

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 RIPDES 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

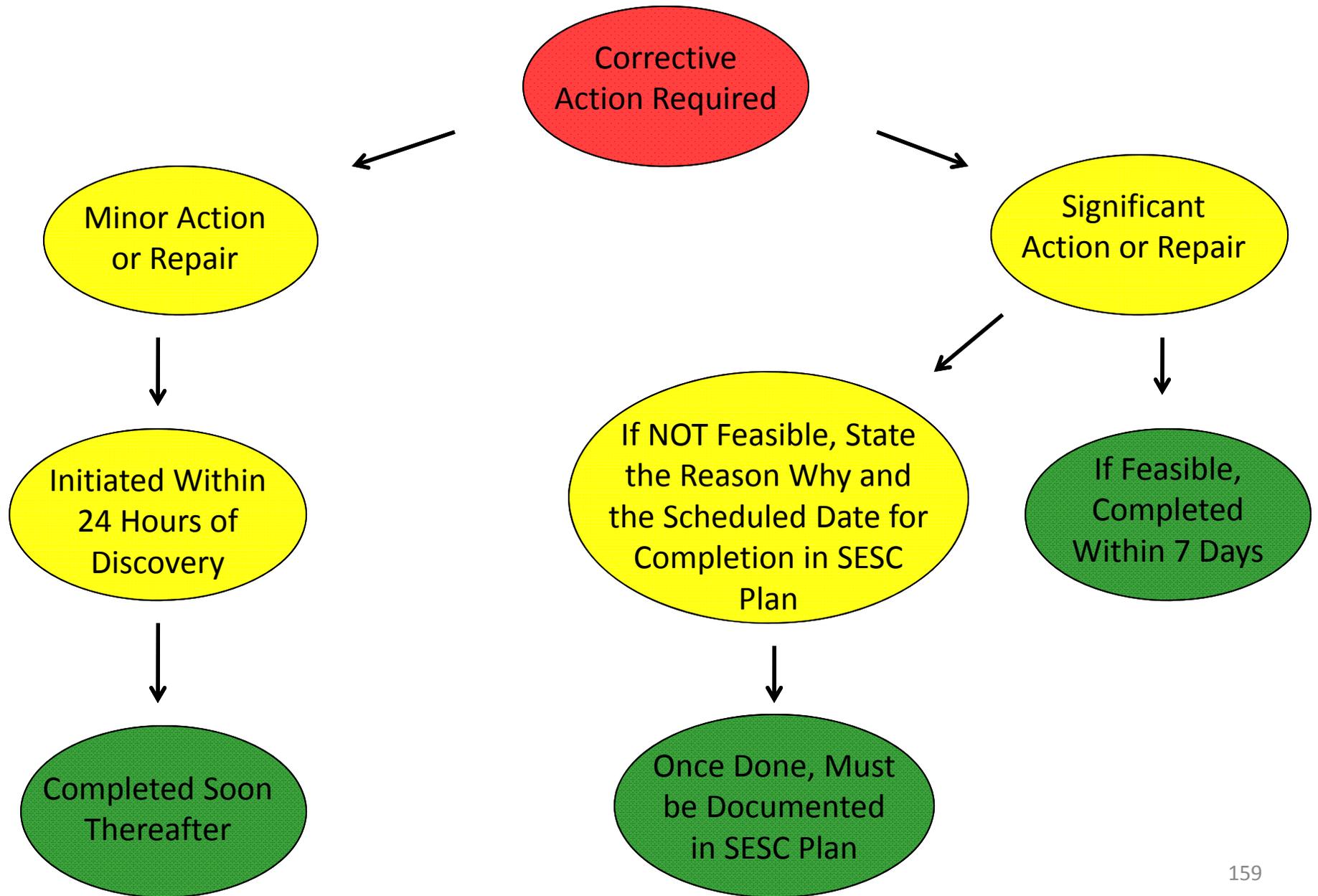
AMENDMENT LOG

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

http://egr.uri.edu/wp-uploads/sustainablewaterlab/RIDOT-Training-Final-Draft_low_res.pdf