

Is Your Construction Site In Compliance?

Find Out How the RIDEM Measures Success



RI Department of Environmental Management



# Topics of Discussion



- Why Is My Site Being Inspected?
- Remembering the Goal
- Know Who is Responsible For Compliance
- Understand Your Permit Requirements



# Why Is My Site Being Inspected?



- All RIPDES Permitted Facilities are Subject to Inspection
  - Section 308 of the Clean Water Act provides the RI DEM with this authority
  
- Compliance Evaluation Inspections Are:
  - Generally Random
  - May Be Targeted Due to a Complaint Received by the RI DEM
  - Generally Unannounced – Be Prepared, Not Surprised!
  
- Purpose: To Evaluate and Enforce Compliance



# Remembering the Goal

- Your Permit Requires You To Protect Resources During Construction and/or Land Development Activities

Protect Waterways, Streams, Wetlands



Protect Adjacent Property



Protect Roadways

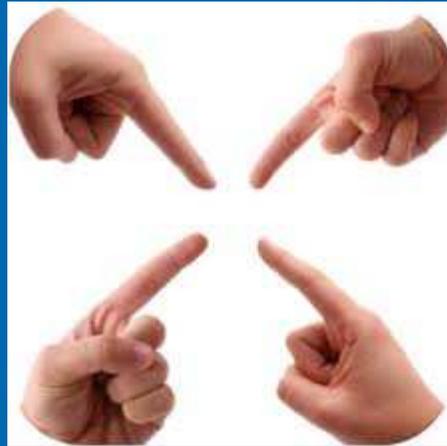


Protect Storm Drains





# Know Who Is Responsible For Compliance



- The Site Owner – Legal property owner as defined in RIPDES Construction General Permit.
- The Site Operator – Entity in operational control over plans and activities occurring at the construction site.



# Understand Your Permit Requirements

## Control Erosion, Runoff, and Sediment



## Prevent Pollution Associated with Construction Activities





# Soil Erosion and Sediment Control Plan

Erosion, Runoff, and Sediment Control

Recordkeeping

Construction Activity  
Pollution Prevention

Control Practice  
Installation, Inspection, and  
Maintenance



# Erosion, Runoff, and Sediment Control





## Stabilize Disturbed Soils



When Earth Disturbance Activities Have Ceased For More Than 14 days, Initiate Temporary or Permanent Soil Stabilization Measures.

Vegetative Measures



Structural Measures





# Protect Storm Drain Inlets





# Protect Storm Drain Outlets



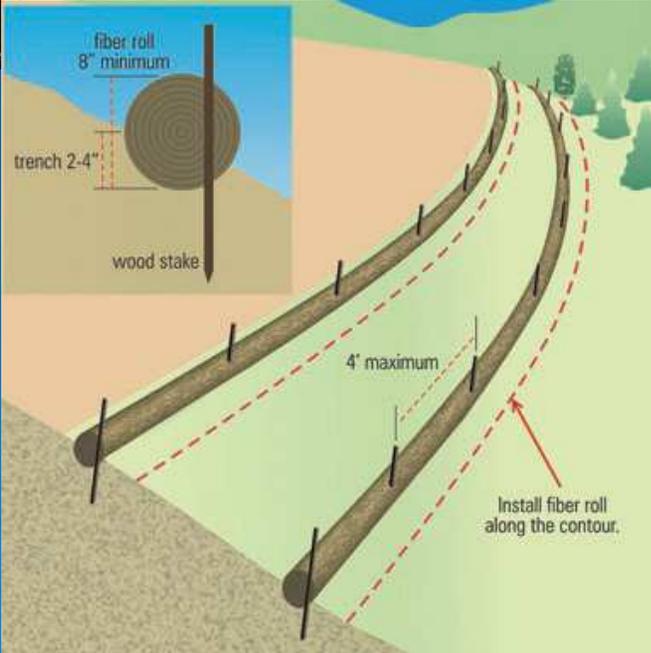
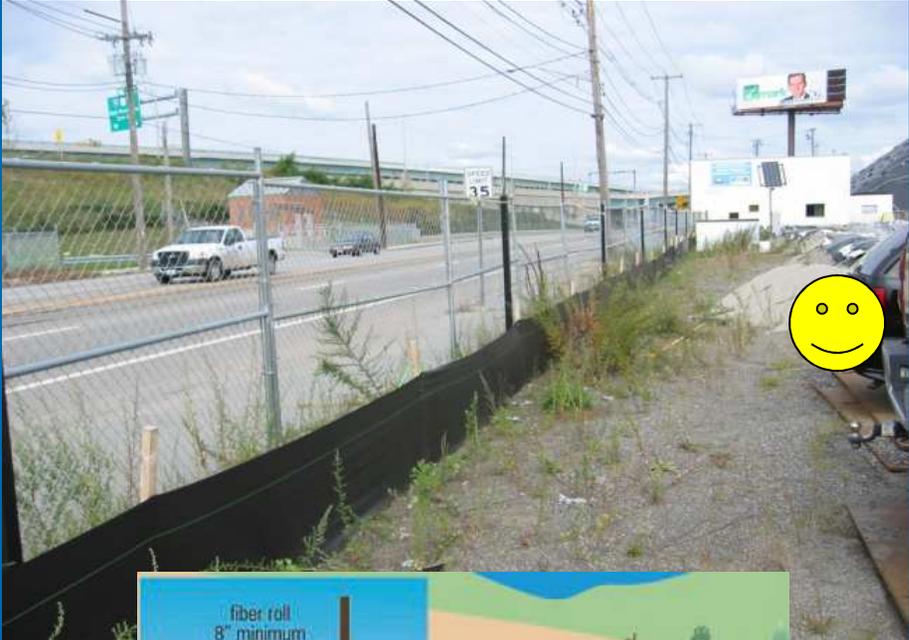


## Establish Temporary Controls For the Protection of Post Construction Stormwater Practices





# Establish Sediment Barriers

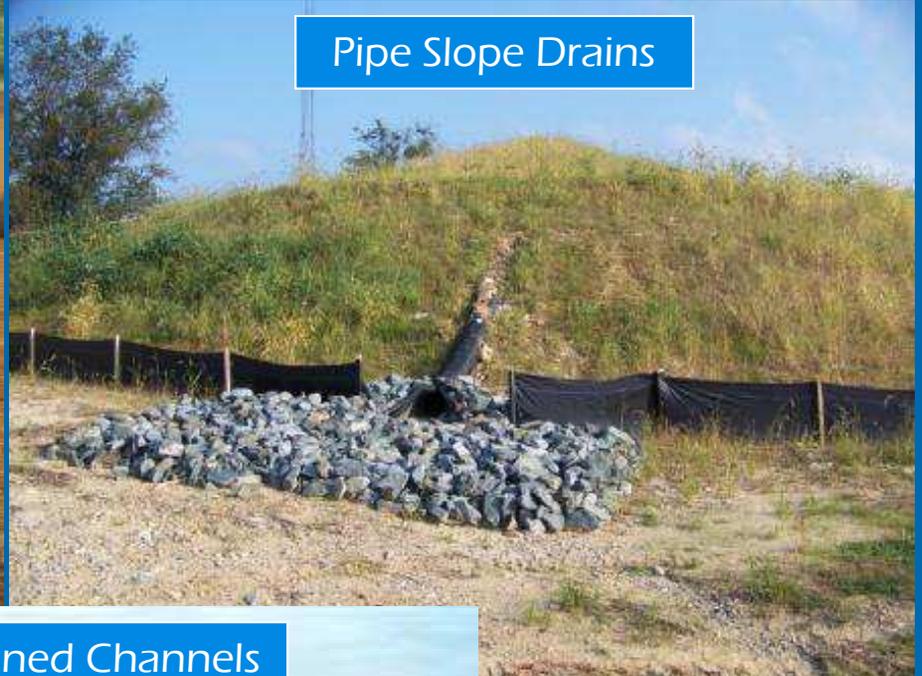




# Divert or Manage Run-on From Upgradient Areas



Diversions



Pipe Slope Drains



Temporary Lined Channels





## Retain Sediment Onsite

Temporary Sediment Traps



Temporary Sediment Basins



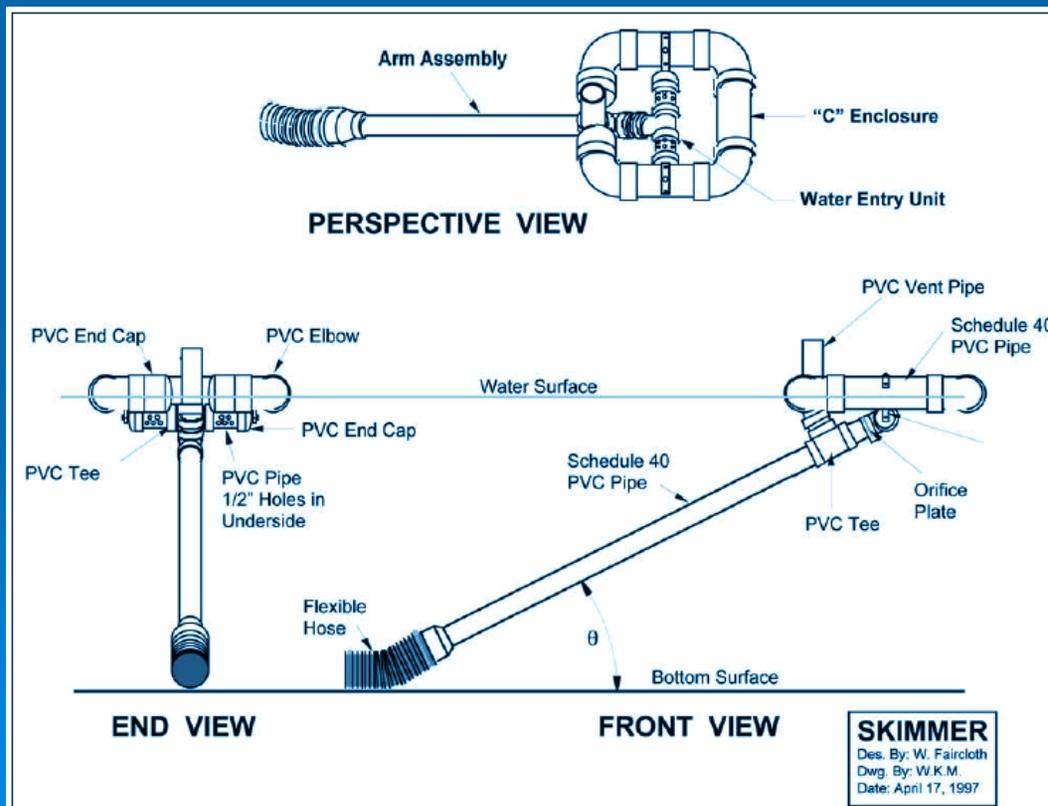
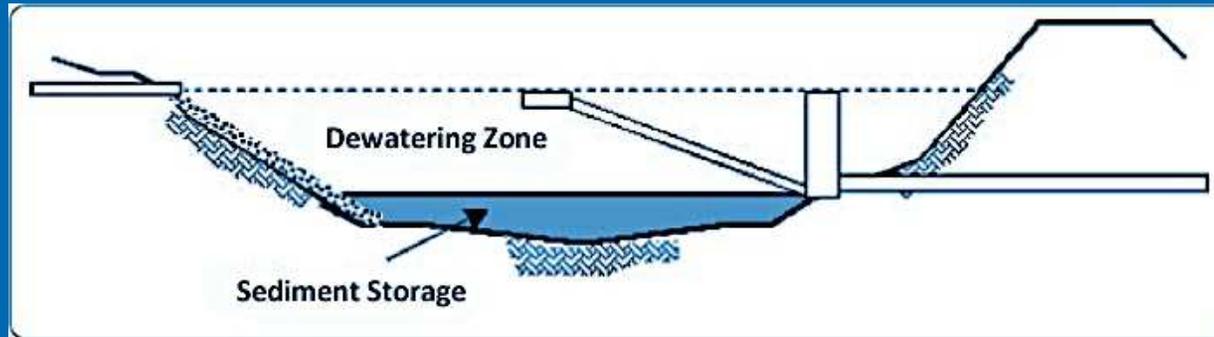


## Utilize Surface Outlets When Discharging From Temporary Sediment Basins





## Utilize Surface Outlets When Discharging From Temporary Sediment Basins





# Construction Activity Pollution Prevention





# Prohibited Discharges

**HAZARDOUS WASTE**

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.  
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

**GENERATOR INFORMATION:**  
NAME \_\_\_\_\_ PHONE \_\_\_\_\_  
ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
EPA ID \_\_\_\_\_ MSDS REF. NO. \_\_\_\_\_  
REG. NO. \_\_\_\_\_ CA WASTE ID. \_\_\_\_\_ REFINER/ALLOT. NO. \_\_\_\_\_  
CONTENTS, COMPOSITION \_\_\_\_\_

**PHYSICAL STATE:**  SOLID  LIQUID  GASEOUS  REACTIVE  OTHER \_\_\_\_\_

**HAZARDOUS PROPERTIES:**  FLAMMABLE  TOXIC  CORROSIVE  REACTIVE  OTHER \_\_\_\_\_

DO NOT POORLY WRAP OR NAME THIS OR ANY OF THE CONTENTS.  
**HANDLE WITH CARE!**

Fuels, Oils, Soaps, Solvents



Good Chemical Storage

Contaminated Groundwater

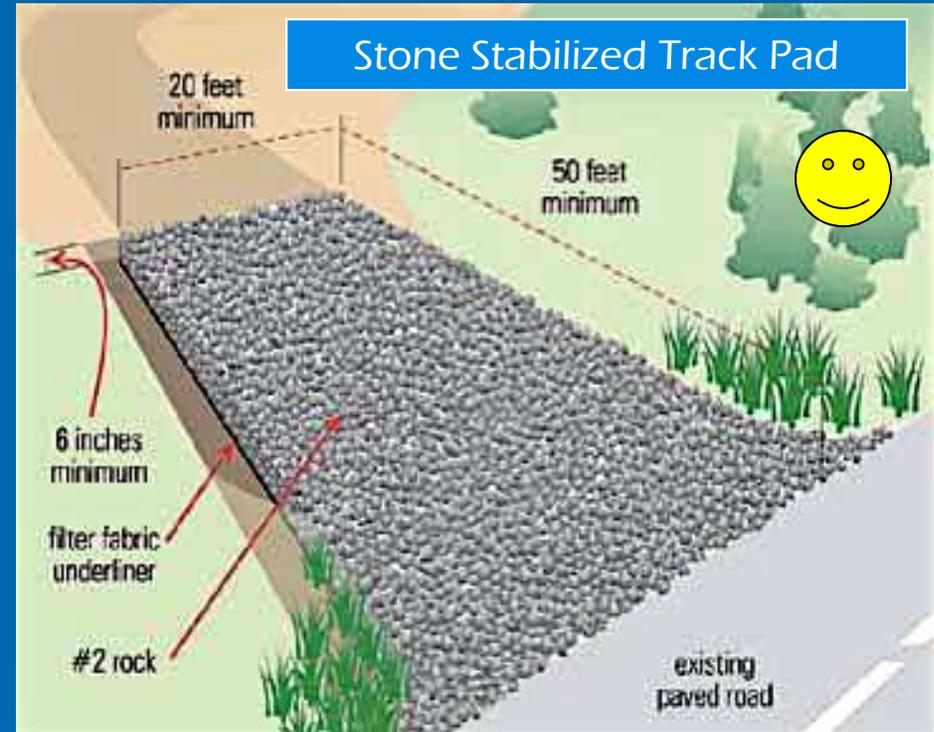
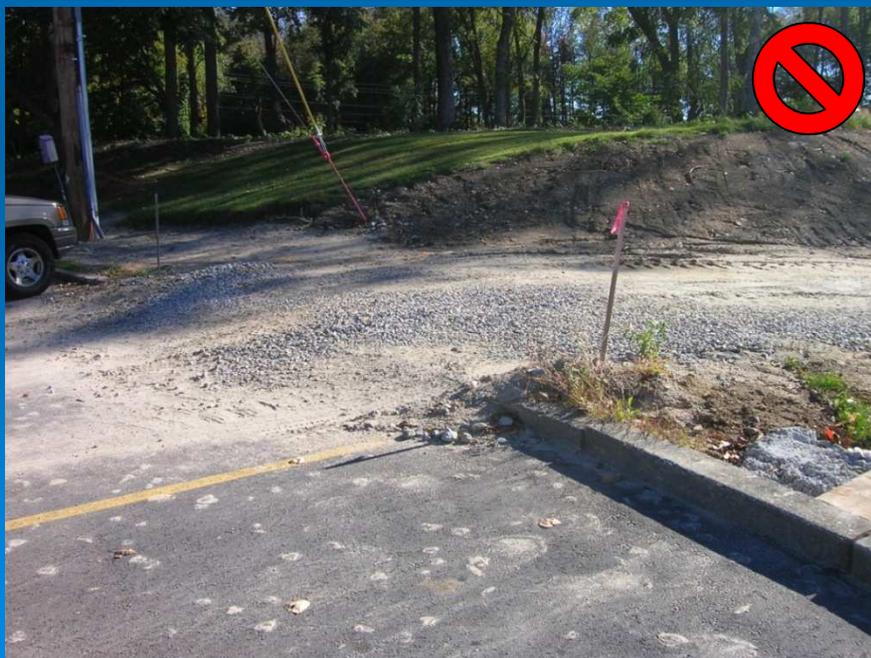


Concrete Washout





# Minimize Off-Site Tracking of Sediment





# Proper Waste Disposal





# Spill Prevention and Control





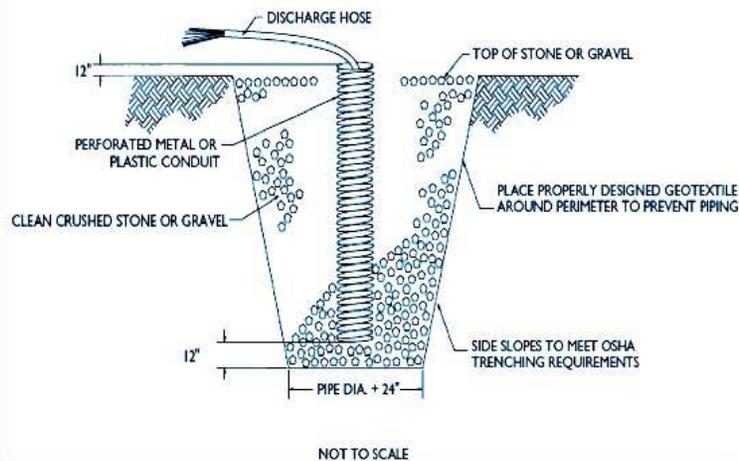
## Control Dewatering Practices



Dewatering Bag



Pump Intake Protection



Pumping Settling Tank



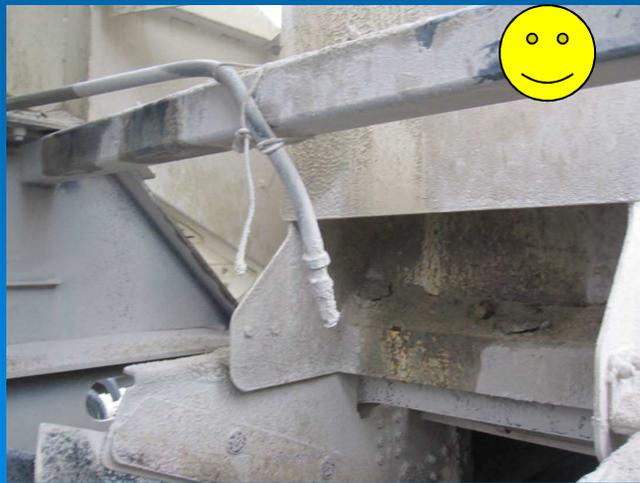


## Control Discharges from Stockpiled Sediment or Soil





# Minimize Dust





# Designate Washout Areas





## Establish Proper Equipment and Vehicle Fueling and Maintenance Practices





## Properly Manage Chemicals Used for Erosion and Sediment Control



### ➤ When Utilizing Polymers, Flocculants, and Treatment Chemicals Use:

- Good Engineering Judgment
- Appendix J – *RI SESC Handbook*

### ➤ General Guidelines:

- Avoid applying directly to surface waters
- Use conventional erosion and sediment controls adequately first
- Select appropriate treatment chemicals by conducting site specific soil tests
- Properly store chemicals to avoid spills and unnecessary exposure to stormwater
- Consider Toxicity (ex. Anionic Polymers Are Generally Less Toxic to Fish)



## Control Measure Installation, Inspection, and Maintenance Requirements





## Control Measure Installation Requirements



- Complete Installation Prior to Beginning Each Phase of Earth Disturbance
- Install in Accordance With:
  - The RI Soil Erosion and Sediment Control Handbook
  - Manufacturer Specifications
  - Good Engineering Practices



## Control Measure Inspection Requirements



- **Minimum Frequency**
  - 1/Week and
  - After 0.25 Inches of Rain in 24 Hrs
  - During Frozen Conditions – 1/Month
  
- **Inspections and Records of Corrective Actions**
  - Must Be Signed and Dated by Inspector and Operator
  - Must Be Kept Onsite with SESC Plan
  
- **Your Failure to Provide Documentation Of Inspections Constitutes a Permit Violation and Will Subject You to Enforcement**



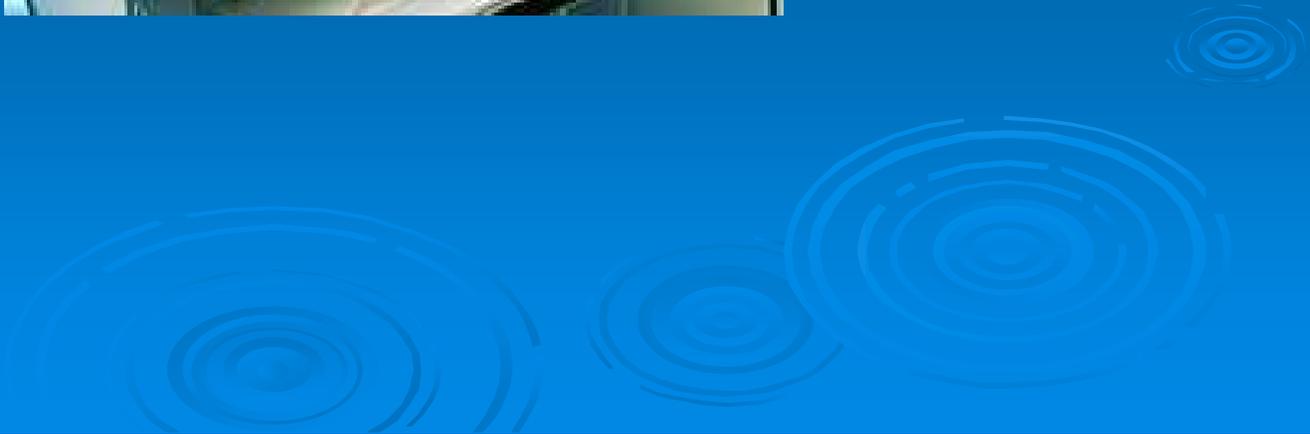
## Control Measure Maintenance Requirements



- Maintain in Accordance With:
  - RI SESC Handbook
  - Manufacturer Specifications
  - When You Aren't Achieving the Goal
  
- Quick Fixes
  - Address Immediately Upon Discovery
  - Complete By Close of Next Work Day
  
- Significant Repair or Replacement
  - Make Repair or New Control Measure Operational Within 7 Days of Discovery



# Record Keeping





# Records Must Be Available Onsite



- Soil Erosion and Sediment Control (SESC) Plan
  - SESC Site Plans or Full Construction Plan Set
  - Record of SESC Plan Amendments
    - Amendments which involve practice of engineering must be PE Stamped.
  - Signed Records of Inspections, Maintenance, Corrective Actions
  - Copy of Permit Application and RI DEM Permit
- \* If onsite location is unavailable when no personnel are present on the site, notice of the Plan's location must be posted near the main entrance of the construction site.



# The Keys To Success

- #1. Remember The Goal – Protect Resources
- #2 Let Your Soil Erosion and Sediment Control Plan Be Your Guide
  - Keep It Onsite
  - Modify When Not Meeting #1
- #3. Conduct and Document Inspections
- #4. Properly Install and Maintain All Control Measures



## Who Do I Contact If I Have Questions?

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RI Department of Environmental  
Management

Office of Customer and Technical Assistance

235 Promenade Street

Providence, RI 02908-5767

Tel. (401) 222-4700

[www.dem.ri.gov](http://www.dem.ri.gov)



**Questions?**

