



Annual Employee Stormwater Training Workshop

A Workshop for Auto Salvage Yards and Scrap Metal Recyclers

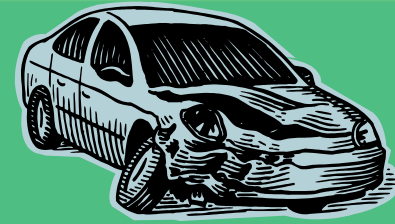
August 2, 2013
Aable Auto Parts
Chelsea, Maine

Sponsored By: MAINE AUTO RECYCLERS ASSOCIATION

In Partnership with the Maine Department of Environmental Protection



RECYCLING FACTS



1) AUTO RECYCLING IS THE # 1 RECYCLING INDUSTRY IN AMERICA

2) OVER 75 % OF MATERIALS FROM CARS ARE RECYCLED.

3) RECYCLED VEHICLES GENERATE OVER 12 MILLION TONS OF RECYCLED STEEL ANNUALLY

4) RECYCLING CARS SAVES ENOUGH ENERGY TO POWER OVER 18 MILLION HOMES FOR A FULL YEAR!

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AGENDA

8:30 - 10:00 am- Indoor Component

Overview of Training * General Info on SWPPPs * Major SWPPP Components

10:00 - 11:30 am- Outdoor "Hands-On" Workshop

Site walk * Quarterly Site Inspection Log * DEP Quarterly Site Compliance Evaluation Form * Mock Visual Monitoring * Numeric Monitoring Demonstration

11:30 am - 12:00 pm- Reconvene & Wrap-Up

Small Groups Report Back * Ask Questions * Workshop Survey * Certificate of Attendance

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Thanks

Maine Auto Recyclers Association

Ovide's Used Parts, Bridgton-----(June 12th)

Littlefield's Garage, Corinna-----(July 18th)

Aable Auto Parts, Chelsea----- (August 2nd)

Caldwell's Auto, Limestone----- (August 15th)



Maine Department of Environmental Protection

Industrial Stormwater Program

MARA Members and Workshop Participants

13 New Members Added!

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MARA

Maine Auto Recyclers Association

Mission: To further the used automotive parts recycling industry and its beneficial effects on society by supplementing and supporting individual firms and providing services and programs of state, regional, and national scope.

Current Members ~60

Member Benefits

Part-time Executive Director

Quarterly Newsletter

Listing on MARA website

Annual Meeting

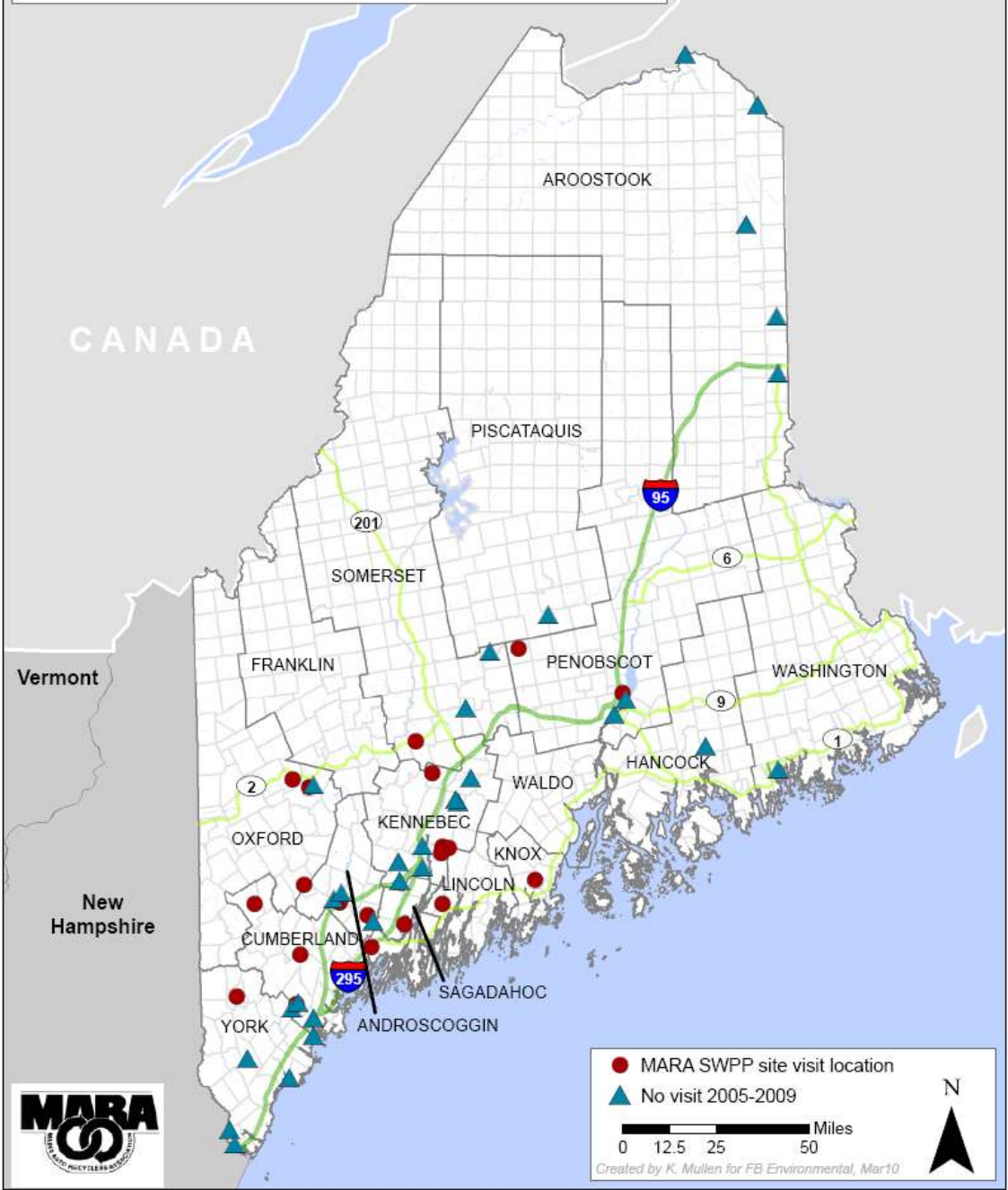
Free Stormwater Planning Assistance



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Status of MARA SWPPP Visits



2005- 2012

❖ 27 Free SWPPP Visits

❖ 54% of Members



FREE SITE MAP



- Natural Resources
- Stormwater Outfalls
- Monitoring Sites





PURPOSE

Annual Employee Training

Required for ALL Employees who work in areas where industrial materials or activities are exposed to stormwater; & Employees Responsible for Implementing the SWPPP

- Provide a Description of the Training
- Topics Covered
- Training Date(s)
- Printed Name and Signatures
- Filed in SWPPP



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The General Permit

Maine Multi-Sector General Permit

Regulates Stormwater Discharge Associated with Industrial Activities

- Effective April 26, 2011 – April 25, 2016
- Direct or Indirect Discharges
- Sector-Specific Requirements
 - (Sector M)- Auto Salvage Yards*
 - (Sector N)- Scrap Metal Recyclers*
- Must Submit an “NOI” form
- No Exposure Certification



Photo: Maine DEP

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Permit Conditions

Stormwater Pollution Prevention Plan

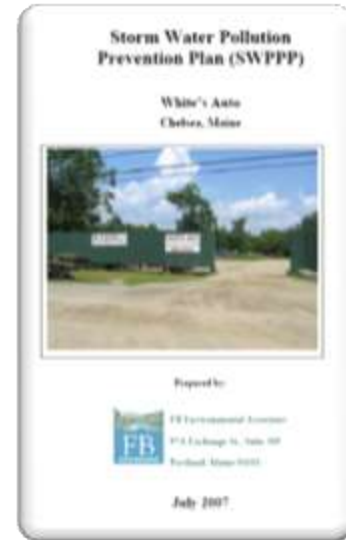
- SWPPP is REQUIRED BEFORE submitting NOI
- If discharging under old permit- Must Update SWPPP

Monitoring

- Visual Monitoring (Sector M)
- Impaired Waters & Benchmark Monitoring (Sector N)

Retention of Records

- Copies of the SWPPP
- All Reports & Certifications
- All Data used to complete the NOI



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All Water Flows Downhill... (or soaks into the ground)

- ✓ *Streams & Rivers*
- ✓ *Wetlands*
- ✓ *Lakes*
- ✓ *Aquifers / groundwater*



Maine's Water Resources





Photo: Maine NEMO





9/18/2013





5/15/2013



Effects of Stormwater Runoff

- ✓ *Toxic to animals & humans*
- ✓ *Smothers aquatic insects & degrades fish habitat*
- ✓ *Causes reproductive & behavioral problems*
- ✓ *Results in loss of sensitive animals & fisheries*
- ✓ *Accumulates in animal tissues*
- ✓ *Contaminates drinking water*



This waterway is experiencing excessive algae blooms due to nutrient inputs from stormwater.



Photo courtesy of Center for Water Protection.



This oil sheen, left by parked vehicles, makes its way towards this catch basin and storm drain network. Without proper treatment, the oil will enter the nearest surface water, where it will degrade fisheries habitats.

DISMANTLING

**Oil &
Grease**

**Heavy
Metals**

Mercury

**Ethylene
Glycol**

USED PARTS STORAGE

**Sulfuric
Acid**

**Galvanized
Metals**

**Petroleum
Hydro-
carbons**

**Total
Suspended
Solids**

OUTDOOR VEHICLE STORAGE

**Assorted
Fluids**

**Oil &
Grease**

**Heavy
Metals**

**Total
Suspended
Solids**

DISMANTLING

**USED PARTS
STORAGE**

**OUTDOOR
VEHICLE
STORAGE**

NOT A COMPLETE LIST

- Vehicle & Equipment Maintenance Areas
- Liquid in above ground storage tanks (corrosion, spills & overfills)

**Heavy
Metals**

Mercury

**Ethylene
Glycol**

**Galvanized
Metals**

**Petroleum
Hydro-
carbons**

**Total
Suspended
Solids**

**Oil &
Grease**

**Heavy
Metals**

**Total
Suspended
Solids**



What a SWPPP Does

Stormwater Pollution Prevention Plan

- ✓ Identifies Potential Sources of Stormwater Pollution
- ✓ Describes Methods for Reducing/Eliminating Pollutants
- ✓ Identifies procedures for compliance with your Permit

Fluid Management



Sediment & Erosion Control



Stormwater Runoff



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• Major parts of a SWPPP



1.



SWPPP PREVENTION TEAM

- Plan Development
- Prevention Team

2.



SITE DESCRIPTION

- Location
- # of Buildings/Use
- # of Vehicles
- # and Location of Stormwater Outfalls

3.



DESCRIPTION OF ACTIVITIES

- Wash & Wastewater
- Spills & Leaks
- Non-Stormwater Discharges
- Site Summary

1.



SWPPP PREVENTION TEAM

- Plan Development
- Prevention Team

Who's your Team Leader?
Who's on your Team?
What are their Roles?

- Plan Implementation
- Monitoring & Inspection
- Spill Response
- Record Keeping



1.



SWPPP PREVENTION TEAM

- Plan Development
- Prevention Team

2.



SITE DESCRIPTION

- Location
- # of Buildings/Use
- # of Vehicles
- # and Location of Stormwater Outfalls

What are your buildings used for?

Where are the significant natural resources?

Where are the outfalls?

1.



SWPPP PREVENTION TEAM

- Plan Development
- Prevention Team

2.



SITE DESCRIPTION

- Location
- # of Buildings/Use
- # of Vehicles
- # and Location of Stormwater Outfalls

3.



DESCRIPTION OF ACTIVITIES

- Wash & Wastewater
- Spills & Leaks
- Non-Stormwater Discharges
- Site Summary



4.



IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training

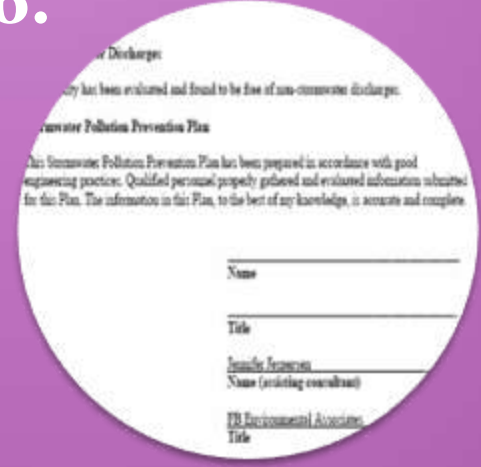
5.



EVALUATION

- Visual Monitoring
- Site Inspections
- Record Keeping & Reporting
- Plan Revisions

6.



CERTIFICATIONS

- Non-Stormwater Discharges
- Signature



4.



IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training



How do you manage fluids?

Do you inspect your site?

Where are your spill kits?

Are ditches & culverts stable?

Are storage trailers leaking?

Good Housekeeping

4.



- a. Fluids are changed & stored indoors
- b. Fluid Extractors are used
- c. Spill Prevention & Response Kits on hand
- d. Batteries & Mercury Switches indoors

IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training



Preventive Maintenance

4.



- e. Inspect all incoming vehicles!
- f. Inspect all fluid containers monthly.
- g. Remove Mercury Switches ASAP.
- h. Label Waste Storage Containers!
- i. Maintain Ditches & Culverts

IMPLEMENTATION

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Sediment & Erosion Control

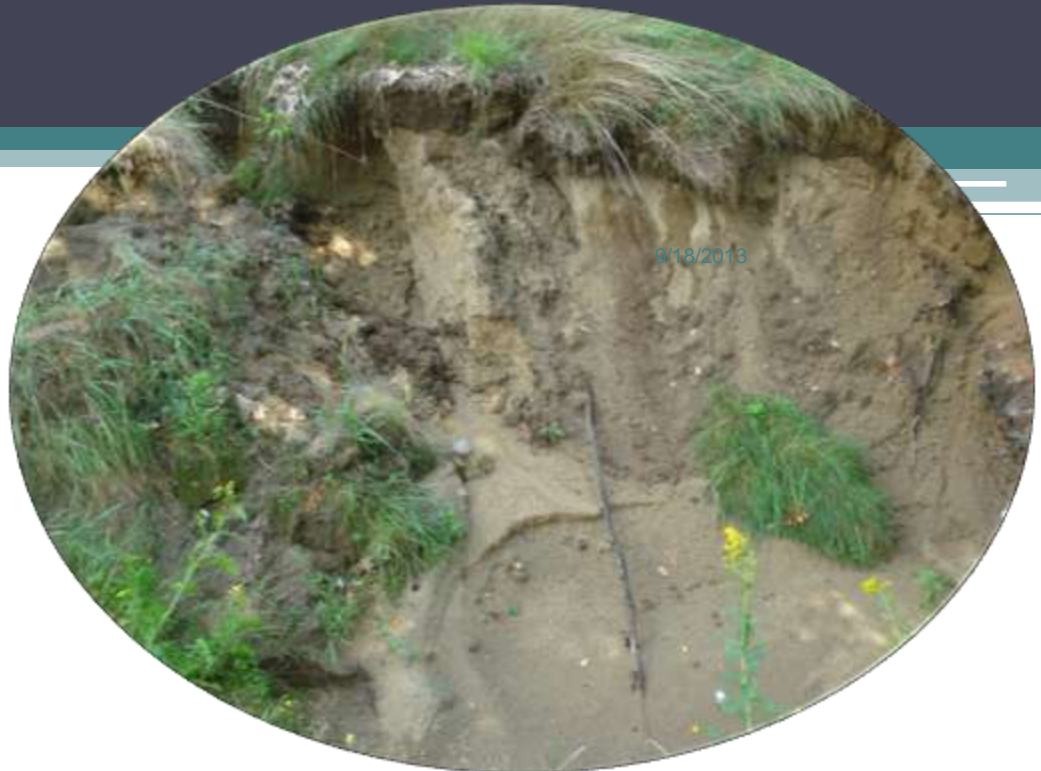
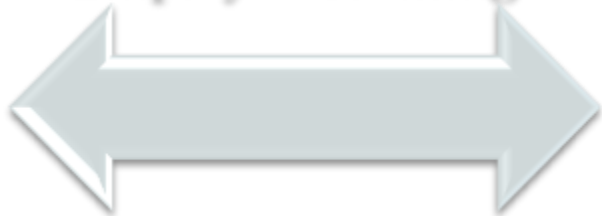
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- j. Keep undrained vehicles away from ditches or riparian areas
- k. Grade & Crown Roads as needed
- l. Protect Culvert inlets & outlets
- m. Vegetate drainage swales & eroding ditches

IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training



Management Of Stormwater

4.



- n. No crushing during rain events
- o. Patch holes in leaky outdoor storage units
- p. Install a detention pond to capture runoff

IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training



Spill Prevention & Response

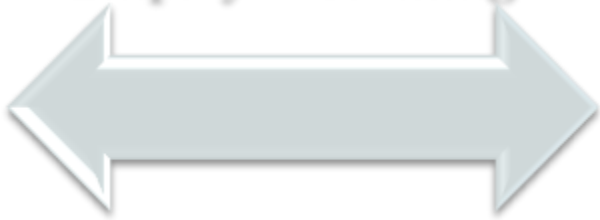
4.



- q. Train employees on Spill Response techniques
- r. Kits in main building & fluid draining areas
- s. Label Spill Kits Clearly
- t. Use secondary containment!

IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training



4.



IMPLEMENTATION

- Good Housekeeping
- Preventative Maintenance
- BMPs
- Erosion Control
- Mngt. of Stormwater
- Spill Prevention
- Employee Training

5.



EVALUATION

- Visual Monitoring
- Site Inspections
- Record Keeping & Reporting
- Plan Revisions



Monitoring, Inspections, Reporting



- a. Visual Monitoring – within 60 min of runoff
- b. Keep a log of quarterly inspections
- b. Record major spills & leaks
- c. Track Annual Employee Training

EVALUATION

- Visual Monitoring
- Site Inspections
- Record Keeping & Reporting
- Plan Revisions





OUTDOOR SEGMENT

- Review Field Paperwork**
- Break Into Small Groups (3-5/GROUP)**
- Conduct a Quarterly Site Inspection**
- Visual & Benchmark Monitoring Demonstration**
- Reconvene for Discussion & Questions**
- Fill out Workshop Survey**
- Handout Certificates**

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Thank You!



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