

# MARA SWPPP VISITS 2005-2009



**MARA Annual  
Meeting  
March 11, 2010**



**Jen Jespersen, FB Environmental**



- What is a SWPPP?
- Why is it Needed?



- Major parts of a SWPPP



- What about this free site visit?



# • What is a SWPPP?

**Maine Multi-Sector Permit**  
*(Sector M)- Auto Salvage Yards*

## Storm Water Pollution Prevention Plan (SWPPP)



Prepared by:



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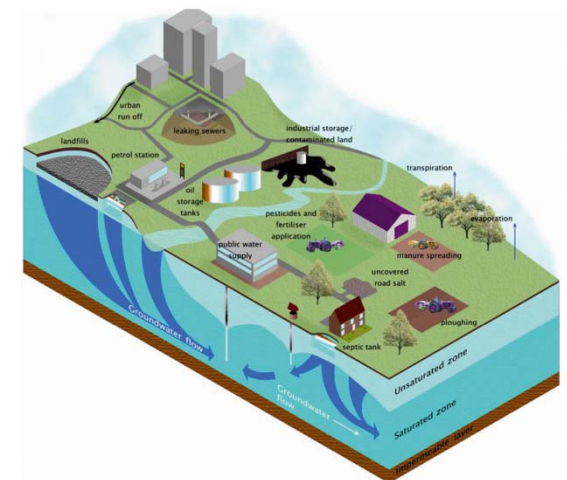
July 2007

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

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



## Maine's Water Resources



Photos: [www.maine.gov/dep/blwq](http://www.maine.gov/dep/blwq)

# 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**

**Arsenic**

**Oil &  
Grease**

**Heavy  
Metals**

**Total  
Suspended  
Solids**



## What a SWPPP Does...

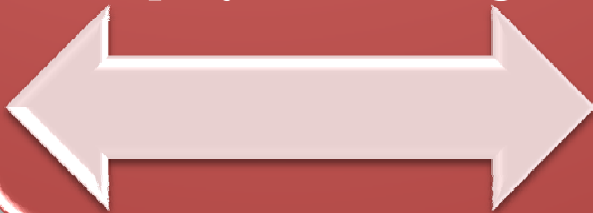
- ✓ **Identifies Potential Sources of Stormwater Pollution**
- ✓ **Describes Methods for Reducing/Eliminating Pollutants**
- ✓ **Identifies procedures for compliance w/ State of Maine Multi-Sector Permit**

# *Plan Implementation*



## **IMPLEMENTATION**

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



**Fluid Management**

**Spill Prevention**

**Stormwater Management**

**Erosion Control**

**Good Housekeeping**





# Monitoring, Inspections, Reporting

- Keep a log of quarterly inspections
- Record major spills & leaks
- Track Annual Employee Training

## EVALUATION

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

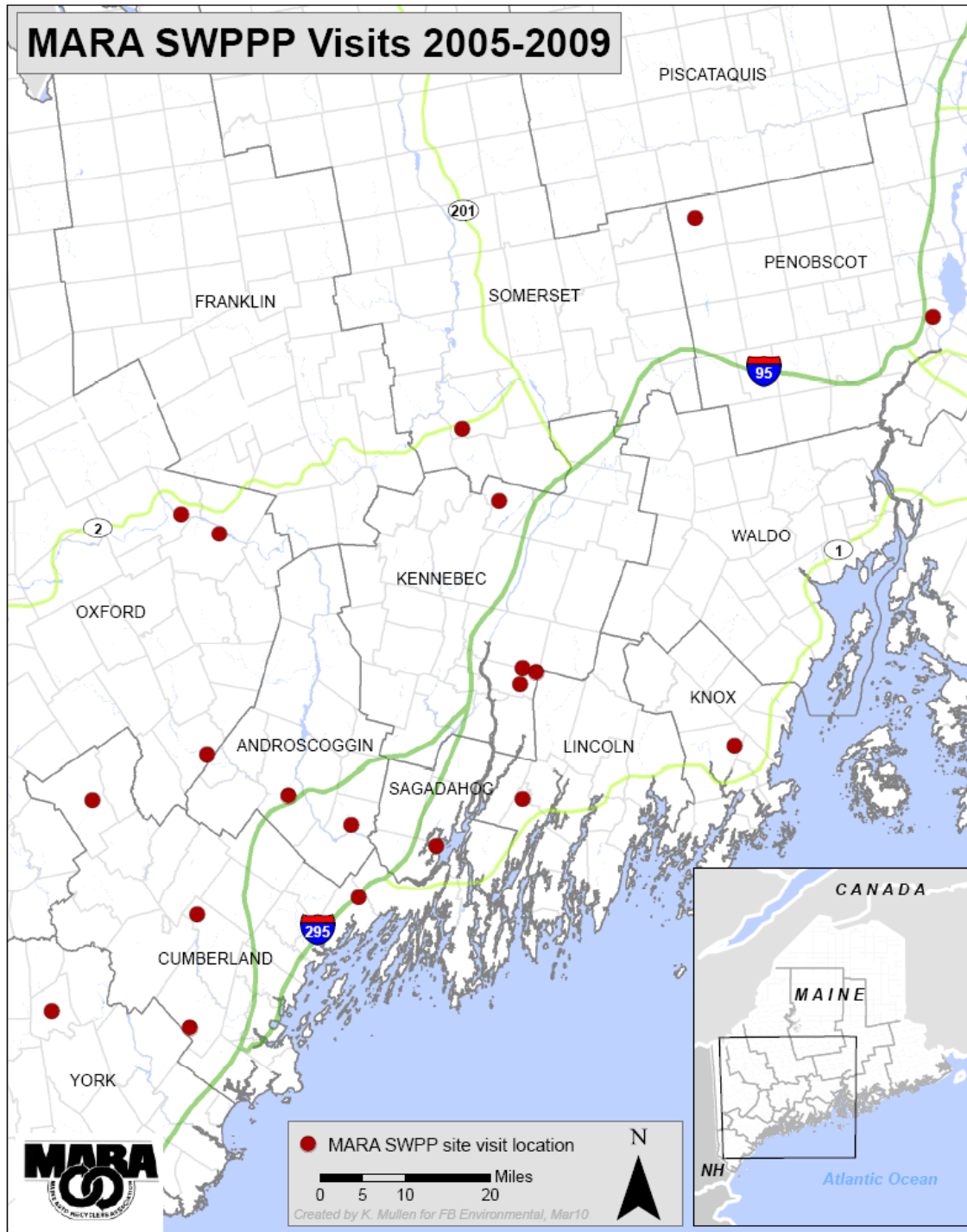




# Overview of Site Visits



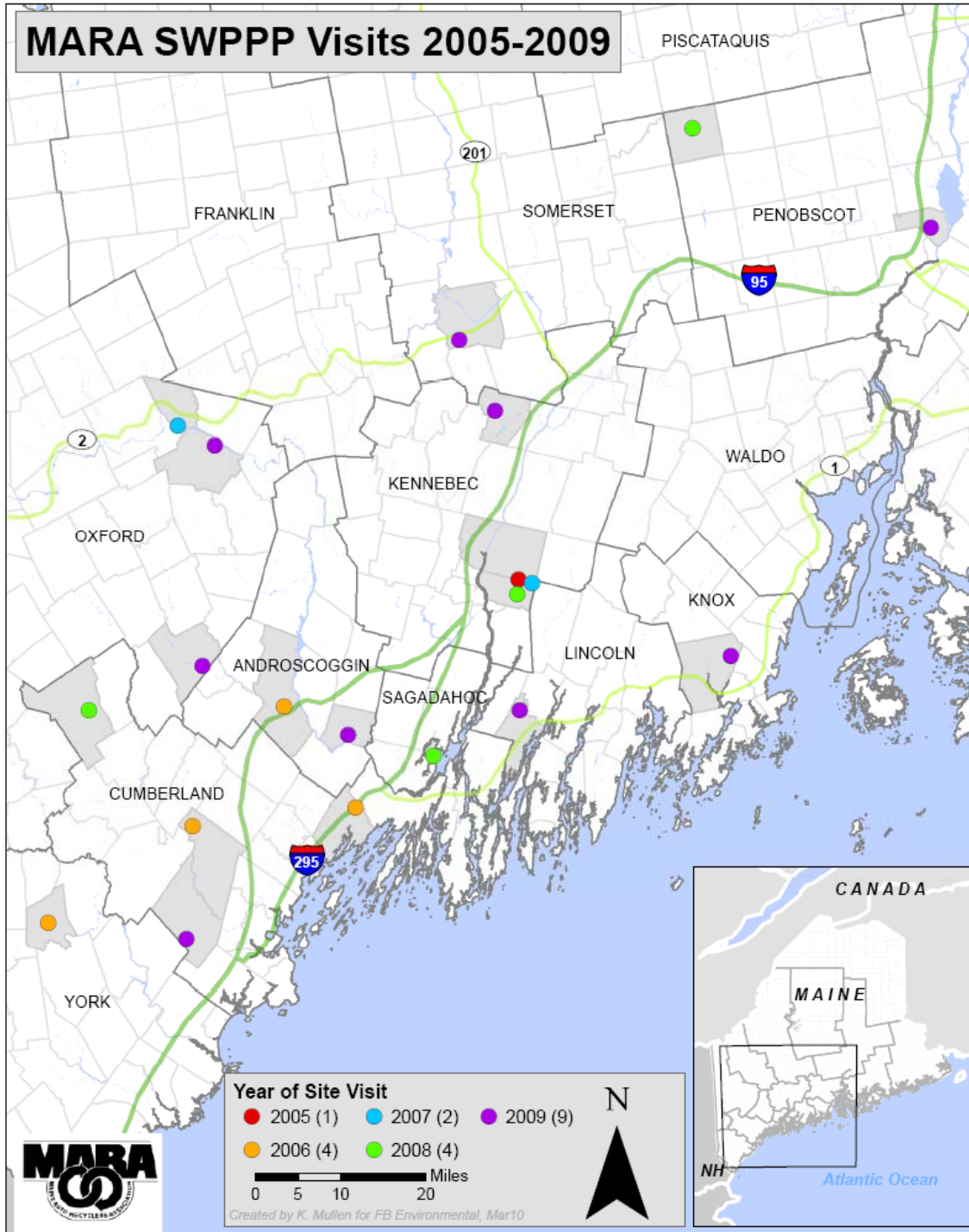
## MARA SWPPP Visits 2005-2009



## 2005-2009

- ❖ Total Visits =20
- ❖ ~40% of Active MARA members
- ❖ Sites in 10 Counties
- ❖ Most visits in Kennebec & Cumberland Counties

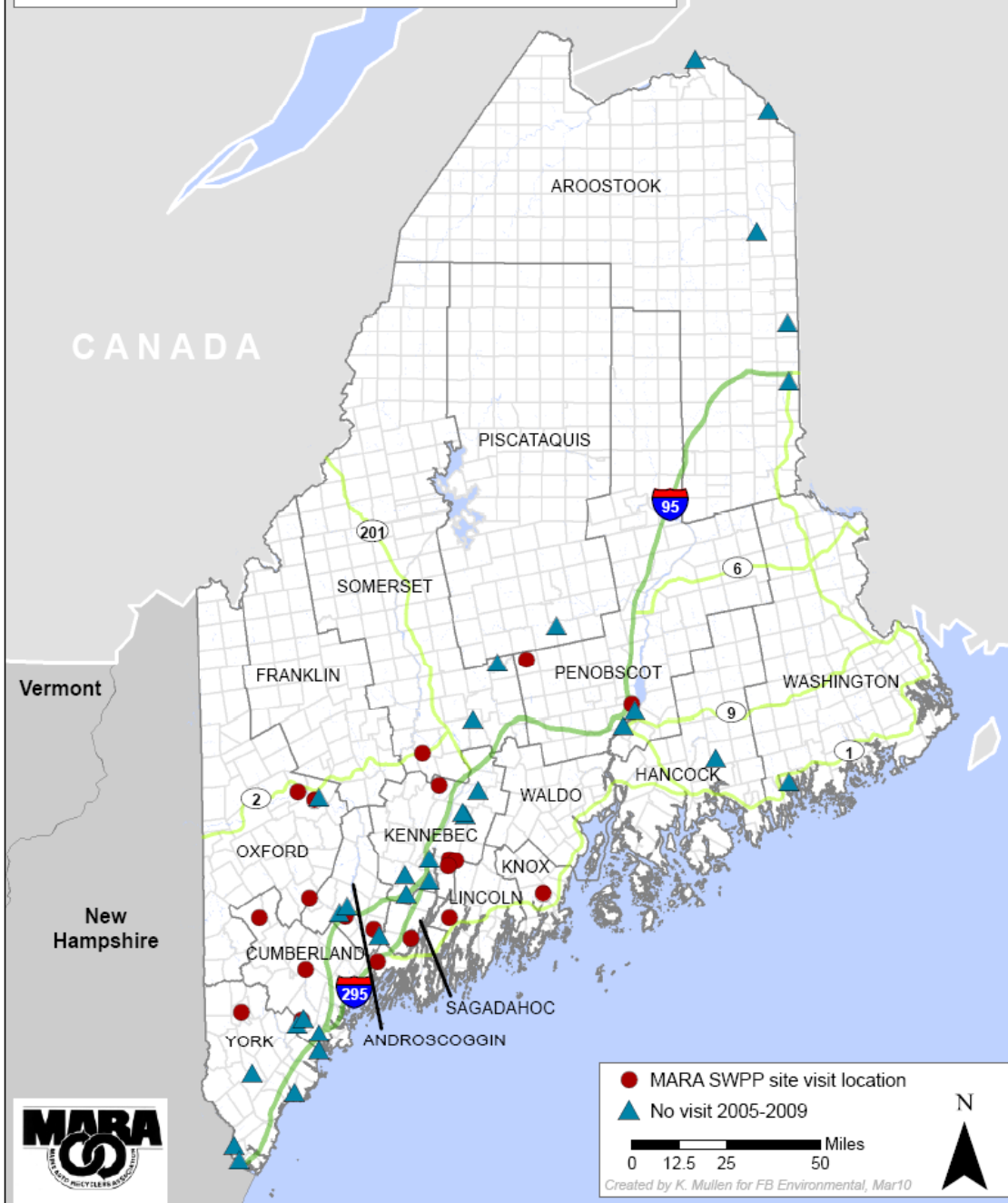
## MARA SWPPP Visits 2005-2009



## MARA Visits By Year

- ❖ First visit in 2005
- ❖ Most visits in 2009
- ❖ As many in 2009 as previous 3 yrs.

## Status of MARA SWPPP Visits



## 2010 & Beyond

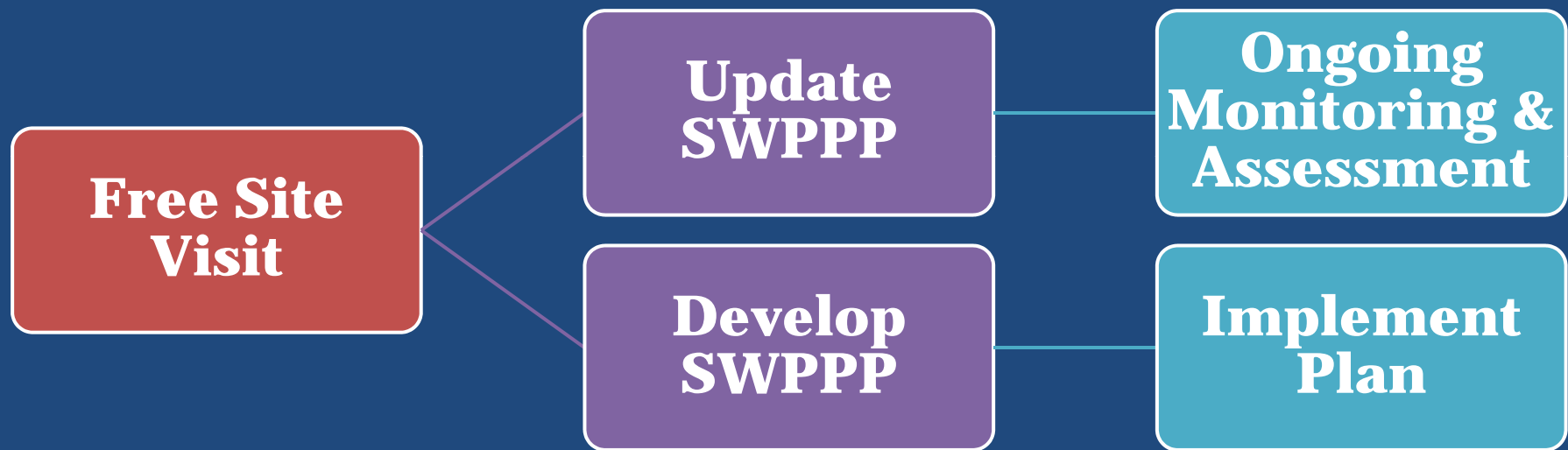
- ❖ 62% of remaining MARA members
- ❖ Focus on Aroostook & York Counties
- ❖ Double the # of Visits in 2010

**Free Site Visit**

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graph LR; A[Free Site Visit] --> B[Update SWPPP]; A --> C[Develop SWPPP];
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**Update SWPPP**

**Develop  
SWPPP**





# Benefits of a Free Site Visit

- Receive a checklist with recommendations that will help you develop or update your SWPPP.

MARA Site Visit - October 7, 2008

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\*Spill kits, consisting of granular absorbents, absorbent socks, absorbent pads, a drip pan, a broom, and shovel, will be placed at all locations where a spill or leak could occur. These locations include areas used for dismantling, cranking, storage of oily parts, equipment maintenance, fluid storage, flaring area

Which of the following Best Management Practices (BMPs) does your facility practice?  
(Check all that apply).

- All incoming vehicles are inspected for fluid leaks. All leaks will be contained as soon as practical after a vehicle enters the yard.
- All fluids are stored indoors/covered by a roof.
- All fluids are drained indoors using fluid extractors.
- Automobiles will not be stored for more than two weeks awaiting disassembly and during disassembly, all fluids will be drained from the automobile and properly collected and stored.
- A staff member is present during loading and unloading operations.
- Loading/unloading takes place inside.
- Drip pans are placed under any detected leaks in order to collect fluid that may drip on to gravel and ultimately discharged into storm water.
- All scrap metal will be cleaned of hazardous materials prior to storage on the scrap metal pile.
- Salvage vehicles have fluids removed prior to "long term" (30 days or more) storage.
- All fluids, refrigerant, batteries and mercury switches are removed from appliances and all vehicles unable to be driven under their own power within 180 days of acquisition.
- Mercury switches are removed and stored in a plastic container indoors.
- Batteries are stored on a pallet in dry storage building or are covered.
- Antifreeze and windshield wiper fluid are recycled.
- Waste oil is recycled.
- Heavy machinery is parked under a dry roof.

Does your facility practice the following guidelines stated in the SWPPP?  
(Check all that apply).

- A current Multi-Sector Permit has been submitted to Maine DEP, and a SWPPP is on site.
- All employees are trained annually using a stormwater pollution prevention employee training program.

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MARA Site Visit - October 7, 2008

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- Pollution prevention team members meet at least twice a year to discuss the effectiveness of and improvements to the Plan.
- The facility is visually inspected for stormwater discharges every 3 months.
- The entire facility is inspected at least four times a year.
- The facility retains records described in this SWPPP for at least three (3) years from the date permit coverage ceases or is terminated.
- Any facility upgrades are documented in the SWPPP.

Summary/Additional Recommendations

- Label/gather spill supply kits and have available at all potential spill areas.
- Clearly label spill kits and have them available at all potential spill areas
- Clearly label all fluid containers
- Cover dumpsters or clean all scrap metal of hazardous material before storing in dumpster
- Remediate leaky parts storage trailers by patching roofs and floors and leveling to eliminate leaks in front
- Vegetate drainage ditches and resurface high erosion potential roadways with crushed rock to eliminate continual sedimentation of ditches and catch basins
- Visually monitor stormwater 30 minutes after rainfalls (quarterly) at outfalls and conduct annual water sampling to ensure hazardous materials are not leaving the site. If test results are positive, take immediate action to reduce discharge at the outfall (e.g. vegetated buffer strip, detention basin, etc.)
- Ensure a 250' buffer between salvage yard and Toga Stream
- Resume Annual Employee Training
- Update your SWPPP when major facility upgrades occur

For further information, or for assistance with your SWPPP, contact:

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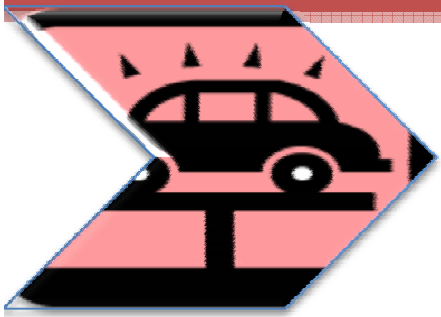




# FREE SITE MAP

- Natural Resources
- Stormwater Outfalls
- Monitoring Sites





## ADDITIONAL SERVICES

- ❑ Employee Training
- ❑ Plan Implementation
- ❑ Permitting Assistance





# SWPPP DEVELOPMENT

- Receive a 25% discount on development of your SWPPP.





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[www.fbenvironmental.com](http://www.fbenvironmental.com)

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