

# North Carolina Department of Transportation



## Web Based Environmental Management System For NPDES

Lacy Love, P.E.  
Director Asset Management

# Environmental Compliance

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Federal and State regulations mandate that NC Department of Transportation develop certain industrial site plans in attempts to prevent the pollution of adjacent water bodies

Spill Prevention Control and Countermeasure Plans (SPCC)

Stormwater Pollution Prevention Plans (SPPP)

# Spill Prevention, Control and Countermeasure Plans

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- A Federal requirement.
- USEPA Oil Pollution Prevention regulations [40 CFR 112] require facilities that store 1,320 gallons or more of oil above ground to prepare a Spill Prevention, Control and Countermeasure (SPCC) Plan to prevent oil discharges to navigable waters.

# Stormwater Pollution Prevention Plans

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- A State NPDES Permit requirement.
- NPDES Permit No. NCS000250 requires that a Stormwater Pollution Prevention Plan be developed for each NCDOT site where industrial activities occur. Examples of industrial sites are:

County Maintenance Yards (including various departments)

Ferry Terminals

Rail Yards

Asphalt Plants

Remote Material Storage Areas (salt and truck sheds)

# Stormwater and Spill Prevention Plan Development

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- 190+ SPPP Plans
- 100+ SPCC Plans
- A site specific plan was developed for each facility.
- SPPP/SPCC Plans include both generic and site specific components.

# Stormwater and Spill Prevention Plan Components

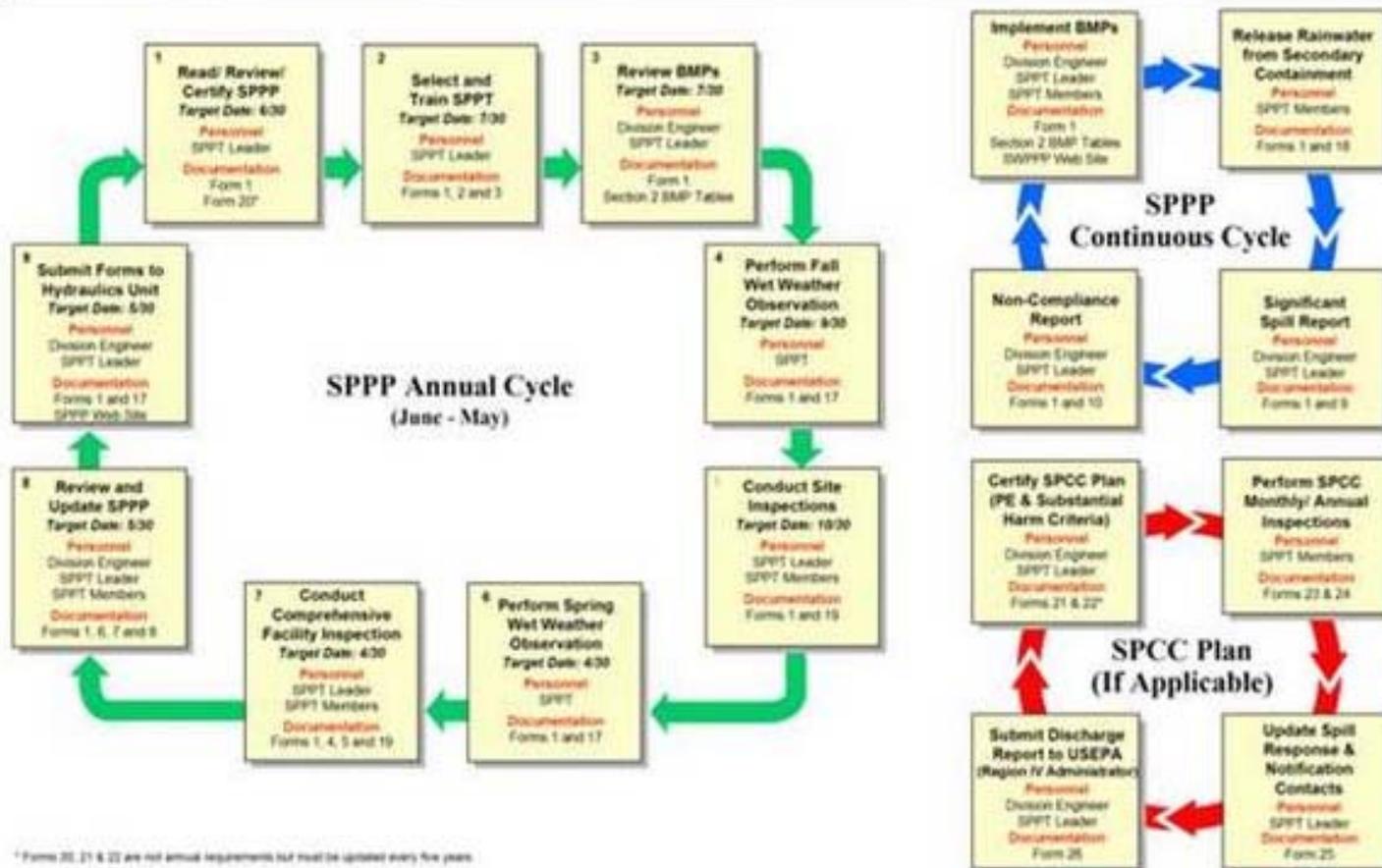
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- ◆ Site Plan
- ◆ Industrial Activities
- ◆ Potential Pollution Sources
- ◆ Non-stormwater Discharges
- ◆ BMPs (Structural/Non-structural)
- ◆ BMP Schedule (Secondary Containment/ OWSs)
- ◆ Spill Prevention and Response
- ◆ Employee Training
- ◆ Facility Inspections/ Outfall Observations
- ◆ Implementation/Documentation Forms



Figure 2. NCDOT SPPP and SPCC Process Diagram

## NCDOT Process Diagram for Stormwater Pollution Prevention Plan (SPPP) & Spill Prevention, Control and Countermeasure Plan (SPCC) Plan



Division  
Engineer

REU & Hydro. Units

POC  
(Operation Eng.)  
(Div. Maint. Eng)

Team Leader  
(Co. Maint. Eng.)

Team Member  
(Equip. Shop  
Supervisor)

Team Member  
(Traffic Services  
Supervisor)

Team Member  
(Road Oil  
Supervisor)

Team Member  
(Bridge Maint.  
Supervisor)

Team Member  
(Roadside  
Environ. Eng.)

SPPPP/SPCC

TEAM

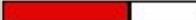
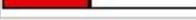
# SPPP Web Based Tracking System

## Tracks:

- ◆ SPPP Implementation
- ◆ BMP Implementation

## Access:

- ◆ Team Leaders
- ◆ POCs
- ◆ Directors

Year 4				
Division	Tasks Complete	View Details	Division Engineer	POC
1	 62%	<a href="#">View Details</a>	<a href="#">D.R. Corner, PE</a>	<a href="#">Anthony Roper</a>
2	 81%	<a href="#">View Details</a>	<a href="#">C. E. Lassiter, PE</a>	<a href="#">Dwayne Alligood</a>
3	 100%	<a href="#">View Details</a>	<a href="#">H.A. Pope, PE</a>	<a href="#">Jackson Provost</a>
4	 79%	<a href="#">View Details</a>	<a href="#">Jim Trogdon</a>	<a href="#">Jimmy Eatmon</a>
5	 93%	<a href="#">View Details</a>	<a href="#">J.G. Nance, PE</a>	<a href="#">Richard Greene, Jr.</a>
6	 51%	<a href="#">View Details</a>	<a href="#">T.R. Gibson, PE</a>	<a href="#">Ken Murphy</a>
7	 83%	<a href="#">View Details</a>	<a href="#">J.M. Mills, PE</a>	<a href="#">Tommy Dyer</a>
8	 93%	<a href="#">View Details</a>	<a href="#">W.F. Rosser, PE</a>	<a href="#">Richard Hancock</a>
9	 33%	<a href="#">View Details</a>	<a href="#">Pat Ivey, PE</a>	<a href="#">Michael Patton</a>
10	 60%	<a href="#">View Details</a>	<a href="#">B.G. Payne, PE</a>	<a href="#">Larry Gordon</a>
11	 86%	<a href="#">View Details</a>	<a href="#">R.C. McCann, PE</a>	<a href="#">Michael Pettyjohn</a>
12	 100%	<a href="#">View Details</a>	<a href="#">M.L. Holder, PE</a>	<a href="#">Joe Lamb</a>
13	 98%	<a href="#">View Details</a>	<a href="#">F.D. Martin, PE</a>	<a href="#">Ken Putnam, PE</a>
14	 45%	<a href="#">View Details</a>	<a href="#">R.G. Watson, PE</a>	<a href="#">Larry Dehart</a>
Ferry	 100%	<a href="#">View Details</a>	<a href="#">J. Gaskill</a>	<a href="#">Rod Gross</a> <a href="#">Joe Owens</a>
Rail	 42%	<a href="#">View Details</a>	<a href="#">P. Simmons</a>	<a href="#">Allan Paul</a>
Equipment Depot	 0%	<a href="#">View Details</a>	<a href="#">J. Burns</a>	<a href="#">Randy Hoyle</a>
Total Task Completion				
 71%				



- [Doing Business with NCDOT](#)
- [Maps & Publications](#)
- [Programs](#)
- [Projects & Studies](#)
- [Travel Information](#)



Virginia Dare Bridge, Manteo

**What's New**



- [NCDOT McKinsey Report](#)
- [2009-2015 State TIP](#)
- [NCDOT Ethics Policy](#)

**Divisions**

- [Aviation](#)
- [Bicycle & Pedestrian](#)
- [DMV](#)
- [Ferry](#)
- [Highways](#)
- [Public Transportation](#)
- [Rail](#)

**Business Resources**

- [Approved Product List](#)
- [Directory of Trans. Firms](#)
- [Electronic Forms](#)
- [Project Letting](#)
- [Order Plans](#)
- [Order Publications](#)

**Commuters & Travelers**

- [Construction Projects](#)
- [Driver License](#)
- [HOV Lanes](#)
- [Road Conditions](#)
- [Traffic Cameras](#)

**Find Info Near You**

Click the map for regional information or



Select-A-County

Assess Website through NCDOT Website under HIGHWAY



Username:

Password:



Password Secured Website




» **Main Menu**

**Tasks**

- Tasks Overview
- Completion Status

**BMPs**

- Annual Cycle BMPs
- BMP Funding (Facility)
- BMP Funding (Division)

**Site Specific BMPs**

- Incomplete BMPs
- Completed BMPs
- Division Status

**Forms**

- All Forms
- SPPP/SPCC Template
- Appendices

**Administration**

- Site Administration
- User Administration
- SPCC Report
- Logoff

Tasks Overview > **Form 1**

Div:  POC: [Sterling D. Baker](#)  
 Fac:  TL: [Ronnie L. Faulkner](#)  
 Year:

- SPPP Section 2 Update
- Spill Response Document

[Print](#)

Task	Task to be Performed	Required Documentation	Target Date	Status	Completion Date
1	Read the SPPP/SPCC Plan	None	6/08/2007	COMPLETE	<a href="#">9/7/2007</a>
2	Appoint the SPPT members	Form 2	7/30/2007	COMPLETE	<a href="#">9/7/2007</a>
3	Train the SPPT members and personel on SPPP/SPCC	Form 3	7/30/2007	COMPLETE	<a href="#">9/7/2007</a>
4	Complete BMP requirements	Annual Cycle BMP	7/30/2007	COMPLETE	<a href="#">9/12/2007</a>
5	Perform 1st biannual wet weather visual observation of SDOs	1st Form 17	9/30/2007	COMPLETE	<a href="#">9/12/2007</a>
6	Conduct site inspections	Form 19	12/30/2007	COMPLETE	<a href="#">9/7/2007</a>
7	Perform 2nd biannual wet weather visual observation of SDOs	2nd Form 17	4/30/2008	COMPLETE	<a href="#">5/5/2008</a>
8	Conduct Comprehensive Facility Compliance Inspection	Forms 4, 5, & 19	4/30/2008	COMPLETE	<a href="#">5/5/2008</a>
9	Complete Non-Stormwater Discharge Assesment	Form 5	5/30/2008	COMPLETE	<a href="#">5/30/2008</a>
10	Obtain Non-Stormwater Discharge Certification(Requires POC to review Form 5)	Form 6	5/30/2008	COMPLETE	<a href="#">5/30/2008</a>
11	Review the SPPP/SPCC	Form 7	5/30/2008	COMPLETE	<a href="#">5/27/2008</a>
12	Make necessary revisions to SPPP/SPCC	Form 8	5/30/2008	COMPLETE	<a href="#">5/27/2008</a>
13	Facilities Ensure SPPP Certification is completed	Form 20	5/30/2008	COMPLETE	<a href="#">5/27/2008</a>
14	Ensure Management Certification and PE Certification is completed	Form 21	5/30/2008	COMPLETE	<a href="#">5/30/2008</a>
15	Ensure The Certification of the Applicability of the Substantial Harm Criteria Certification is completed	Form 22	5/30/2008	COMPLETE	<a href="#">6/2/2008</a>
16	Complete Spill Response and Notification Form	Form 25	5/30/2008	COMPLETE	<a href="#">5/27/2008</a>
17	Complete SPCC Monthly Site Inspection Checklist	Form 23	6/30/2008	COMPLETE	<a href="#">5/27/2008</a>
18	Complete SPCC Annual Site Inspection Checklist	Form 24	5/30/2008	COMPLETE	<a href="#">5/27/2008</a>
	Release accumulated rainwater from exposed secondary containment	Form 18	As Needed	On-Going	
	Complete Significant Spill Report	Form 9	As Needed	On-Going	
	Complete Permit Non-compliance Report	Form 10	As Needed	On-Going	
	Complete Discharge Report to EPA Regional Administrator	Form 26	As Needed	On-Going	

# Status of CMY Annual Tasks



**Main Menu****Tasks**

- Tasks Overview
- Completion Status

**BMPs**

- Annual Cycle BMPs
- BMP Funding (Facility)
- BMP Funding (Division)

**Site Specific BMPs**

- Incomplete BMPs
- Completed BMPs
- Division Status

**Administration**

- Site Administration
- User Administration
- SPCC Report
- Logoff

**Tasks Overview**Div: Fac: Year: POC: [Sterling D. Baker](#)TL: **Facilities**

## Form 1 Tasks

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<a href="#">Bertie County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓		
<a href="#">Chowan County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Currituck County Bridge Maintenance Yard</a>	✓	✓	✓	✓	✓												✓	
<a href="#">Currituck County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
<a href="#">Dare County (Buxton) Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓		✓	✓								
<a href="#">Dare County (Manteo) Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
<a href="#">Gates County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓			
<a href="#">Hertford County Ferry Terminal</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
<a href="#">Hertford County Maintenance Yard</a>	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓					✓	
<a href="#">Hyde County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Hyde County Storage Yard</a>	✓				✓	✓												
<a href="#">Martin County Fuel Station</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
<a href="#">Martin County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
<a href="#">Martin County Truck Shed</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
<a href="#">Northampton County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	
<a href="#">Pasquotank County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓			
<a href="#">Perquimans County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓			
<a href="#">San Souci Ferry Terminal</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
<a href="#">Tyrrell County Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
<a href="#">Washington County (Creswell) Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
<a href="#">Washington County (Plymouth) Maintenance Yard</a>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<a href="#">Washington County Asphalt Plant</a>	✓	✓	✓	✓	✓	✓	✓											






» Main Menu

Tasks

- Tasks Overview
- Completion Status

BMPs

- Annual Cycle BMPs
- BMP Funding (Facility)
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Site Specific BMPs

- Incomplete BMPs
- Completed BMPs
- Division Status

Administration

- Site Administration
- User Administration
- SPCC Report
- Logoff

Task Completion Status

Div: N/A

POC: N/A

Fac: N/A

TL: N/A

Year: 10 (6/1/2007 to 5/31/2008) ▼

Task Summary by Division

Division	Tasks Completion	Division Engineer	POC
1	63%	<a href="#">Anthony W. Roper</a>	<a href="#">Sterling D. Baker</a>
2	42%	<a href="#">Neil Lassiter, PE</a>	<a href="#">John Rouse</a>
3	76%	<a href="#">Allen Pope</a>	<a href="#">Jackson W. Provost</a>
4	68%	<a href="#">Ricky E. Greene</a>	<a href="#">Jimmy Eatmon</a>
5	46%	<a href="#">J. Wally Bowman, PE</a>	<a href="#">Brandon H. Jones</a>
6	34%	<a href="#">Terry R. Gibson, PE</a>	<a href="#">Ken Murphy</a>
7	69%	<a href="#">Mike Mills</a>	<a href="#">Brad Wall</a>
8	68%	<a href="#">Timothy Johnson, PE</a>	<a href="#">Art C. King</a>
9	65%	<a href="#">Pat Ivey, P.E.</a>	<a href="#">David Spainhour, P.E.</a>
10	68%	<a href="#">Barry Moose</a>	<a href="#">Tim Boland</a>
11	79%	<a href="#">Michael A. Pettyjohn PE</a>	<a href="#">Charles C. Reinhardt, PE</a>
12	51%	<a href="#">Mike Holder</a>	<a href="#">Reuben Chandler</a>
13	85%	<a href="#">Jay Swain</a>	<a href="#">Kenneth A. Wilson PE</a>
14	65%	<a href="#">Joel Setzer</a>	<a href="#">Reuben Moore</a>
Equipment Depot	71%	<a href="#">Drew Harbinson</a>	<a href="#">Eric Motzno</a>
Ferry	75%		<a href="#">Lance Winslow</a>
Rail	0%	<a href="#">Patrick B. Simmons</a>	<a href="#">Allan Paul</a>
	64%		



## Percentage of Tasks Completed by Division

# SPPP/SPCC Plan Merge

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- 2008 - NCDOT elected to integrate the SPCC plan requirements within the existing SPPP documents and program using the Stormwater website.
- SPCC plans for highway maintenance facilities were out of date.
- While SPCC plans are a federal requirement and SPPPs are State NPDES requirements – many requirements are the same.

# SPPP-SPCC Web Based Tracking System

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- Layout and navigation is improved
- Plan sections, appendices, and forms are now electronically available on Website (for downloading and printing)
- Site-specific Plan data can be modified via website
- Generic Plan data can easily be updated via website for all facilities Statewide
- User update capabilities improved to add/delete:
  - Facilities
  - Outfalls
  - Best Management Practices (BMPs)

# Navigating the new Web site

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- Team Leaders can access:
  - Site-Specific Data (Section 2) page
  - Edit Facility Containers page
  - Spill Response and Notification Contacts page
  - Facility Outfalls and BMPs

The screenshot displays a web interface for editing facility information. The page title is "Site Administration > Edit Facility". The main heading is "Facility Administration". Below this, there is a section titled "Enter the facility information." with the following fields:

- Facility: Hertford County Maintenance Yard
- Active:
- Division: 1 (dropdown menu)
- County: Bertie (dropdown menu)
- City: Ahoskie
- Acres: 29
- Longitude: -77 01 13
- Latitude: 36 19 38

Below the form fields, there is a section with several navigation links:

- [View/Edit Outfalls](#)
- [View/Edit Facility BMPs](#)
- [View/Edit Site Specific Data](#)
- [View/Edit Facility Containers](#)
- [View/Edit Spill Response and Notification Contacts](#)

At the bottom of the form, there are two buttons: "Save" and "Cancel".

# SPCC Determination

## Hertford County Maintenance Yard's Containers

Review your Facility information shown below and update as necessary to ensure that a complete record of all aboveground oil storage containers is maintained for your facility. Please add new oil container information, delete old information, and/or edit existing information. The SPCC regulations only apply to containers with an oil storage capacity of 55 gallons or greater. Do not submit entries for containers that are smaller than 55 gallons. Mobile containers that store oil should also be included. "Oil" includes but is not limited to Diesel Fuel, Gasoline, Heating Oil, Kerosene, Lube Oil, CRS-2, Engine Oil, Used Oil, Waste Fuel, Pine Oil, RC-250, Transmission or Hydraulic Fluid. For more information please visit the [FAQs](#).

[Add Container](#)

Building Number	Container ID	Product Stored	Secondary Containment	Tank Bottom Visible	Capacity (gallons)	
Building 28	AST-6	Kerosene	Partial		250	
Building 13	AST-1	Heating oil	None		500	
Building 14	AST-2	Kerosene	None		1000	
Building 9	AST-3	Diesel fuel	None		500	
Building 9	AST-4	Kerosene	None		5000	
Storage Yard	AST-12	Unknown	None		500	
Building 23	AST-8	Kerosene	None		250	
Building 20	AST-9	RC-250	None		10000	
Building 20	AST-10	Unknown	None		500	
Building 20	AST-11	Unknown	None		10000	
Storage Yard	AST-5	CRS-2	Concrete		7000	
Building 43	AST-7	Kerosene	None		500	

Total Capacity: 36000

This facility's aboveground oil storage meets or exceeds 1320 gallons. [Click here to review immediate action items.](#)



# Print Updated Plan

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## 4.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURE

### 4.1 INTRODUCTION

The Oil Pollution Prevention regulations (Federal Regulations 40 CFR Part 112 - Oil Pollution Prevention) administered under the authority of the United States Environmental Protection Agency (EPA), require certain facilities to prepare and implement a Spill Prevention, Control, and Countermeasure (SPCC) Plan in order to reduce or eliminate oil discharges to navigable waters of the United States. SPCC Plans document regulated containers at a Facility in addition to the inspection, testing, and maintenance procedures for those containers. The SPCC Plan also contains information regarding emergency response actions.

The Facility-wide aboveground oil storage capacity for the Facility totals more than 1,320 gallons, and oil discharges could potentially reach navigable waters. For these reasons according to 40 CFR 112.1, the Facility must prepare an SPCC Plan. The purpose of Section 4.0 is to meet the SPCC Plan requirements. Aboveground tanks, underground tanks, mobile containers and portable fueling facilities have been reviewed for the purpose of inclusion in the Plan, as applicable. This Plan has been prepared in accordance with standard engineering practices and applicable industry standards. A copy of this Plan and all amendments is maintained at the Facility.

The status of USTs should be evaluated to ensure the tanks are meeting current UST regulations and NCDOT requirements. Most USTs will not be covered by this Plan because they are regulated by 40 CFR 280 or 281. There are specific USTs that are exempt from 280 and 281,

# Spill Response Document

Site Administration > Edit Facility > **Edit Facility Spill Response**

[Print](#)

## Spill Response and Notification Contacts

Complete the form below by entering the full telephone numbers for your local fire department, the local emergency planning coordinator (LEPC), any local hazardous material response agency, and any local contractors that may be used to respond to or clean up oil spills at your facility. Only Team Leaders or their designated representative should report oil spills to the North Carolina Department of Environment and Natural Resources (NCDENR), the Environmental Protection Agency (EPA) or the National Response Center (NRC). Refer to Section 1.4.3 of your SPPP/SPCC for guidance in reporting spills to the appropriate authorities. When all appropriate telephone numbers have been entered, click the submit button at bottom of page to save changes and print a hardcopy of this form to insert into your SPPP/SPCC binder.

### Spill Notification

NCDENR 24-hour Emergency Response Spill Reporting	800-858-0368
National Response Center	800-424-8802
EPA Region 4	404-562-9655

### Spill Response

[Add an Agency](#)

**Agency**

**Agency Phone Number**



# SPPP Section 2 Update

- Site-specific info in Section 2 can be reviewed and updated on Website.
- Site-specific building descriptions is most likely info to change.
- Plan can now be printed from Website after (or before) changes are made.

The screenshot displays the North Carolina Department of Transportation Stormwater: Pollution Prevention Plan website. The top navigation bar includes links for HOME, CONTACT, and SEARCH, along with logos for NC DOT, NC DOH, and NC GOV. The user is logged in as EXT:Melanie Gardner. The main menu on the left lists various tasks, BMPs, forms, and administration options. The main content area shows the 'Edit Facility Information' form, which includes fields for General Location, Street Address, Zip, Facility Boundaries, Facility Activities, Industrial Activities, Facility Security, Facility Drainage, and Basinwide Water Quality Plan Info.

North Carolina Department of Transportation  
Stormwater: Pollution Prevention Plan

HOME CONTACT SEARCH!

NC DOT  
NC DOH  
NC GOV

EXT:Melanie Gardner | Help  
Stormwater Program | 3R Program

Site Administration > Edit Facility > Edit Facility Information

Site Specific Data

Enter the facility information.

General Location: approximately four miles northwest of the Town of Ahoskie's central business district

Street Address: 318 W. Modlin, AhoskieAhoskie

Zip: 27910

Facility Boundaries: The Facility is bounded immediately to the south by SR 1130. The surrounding property to the south consists of Roanoke-Chowan Community College. The surrounding property to the east and west consists of residential parcels. The surrounding property to the north consists of open fields.

Facility Activities: maintenance and repair of vehicles and equipment, refueling, hazardous materials storage, and raw material storage

Industrial Activities: include runoff from areas where the following maintenance activities may occur: fluid changes; mechanical repairs; parts cleaning; vehicle washing; storage of vehicles and equipment waiting for repair or maintenance; and storage of the related materials and waste materials such as oil, fuel, solvents.

Facility Security: The Facility has existing security policies and enforcement procedures. Aboveground material storage areas, including vehicle parking areas are fully enclosed by a perimeter chain link security fence. Access gates to the Facility are locked during non-working hours. The Fuel Station pump

Facility Drainage: The Facility is located in the Coastal Plain physiographic region. Soils at the Facility are in the Craven-Leaf-Caroline and Leaf-Lenoir-Craven

Basinwide Water Quality Plan Info: The topography of the terrain within the Facility is flat. The Facility is located in the Chowan River

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION 8  
Moore County Maintenance Yard  
Carthage, NORTH CAROLINA

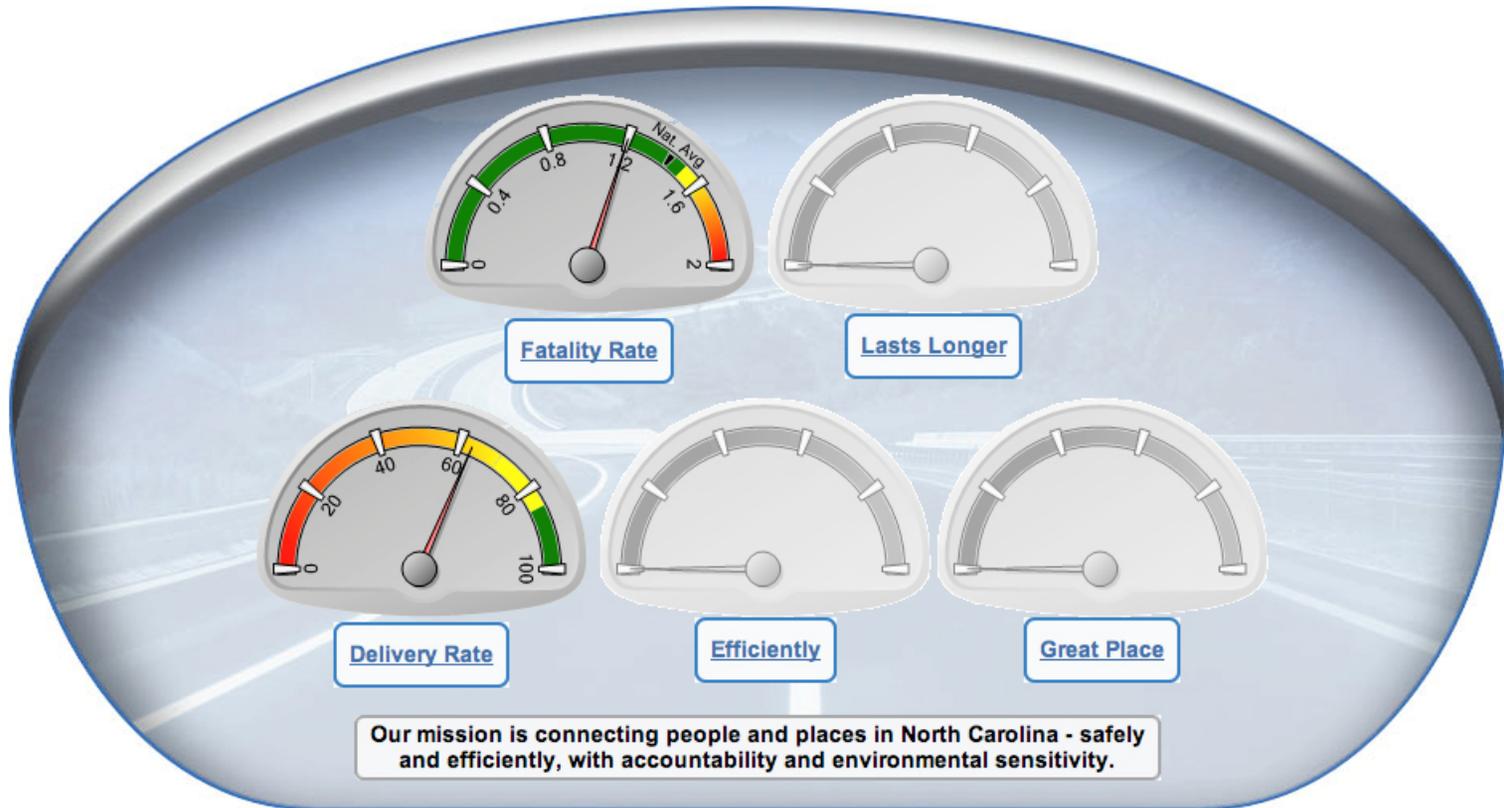


STORMWATER POLLUTION PREVENTION PLAN  
and SPILL PREVENTION, CONTROL, and  
COUNTERMEASURE PLAN

7/2/2008

[Programs](#) »

## NCDOT Organizational Performance Dashboard



**Our mission is connecting people and places in North Carolina - safely and efficiently, with accountability and environmental sensitivity.**

[More information on NCDOT's transformation and organizational performance efforts.](#)

# Other Opportunities

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- Integration with MMS to establish Device periodic PM's for resource and fund allocations
- Identify sensitive watersheds thru existing MMS and mapping
- Automation of notification to Work Crews when job location is within area of endangered species
- Special alerts for environmental sensitive areas thru MMS daily work assignments based on GPS coordinates
- Communication with Environmental unit on effectiveness of measures
- Integration with other departmental management systems

