North Carolina
Department of Transportation

Web Based Environmental Management System

For NPDES

Lacy Love, P.E.
Director Asset Management

Environmental Compliance

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

- 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

- 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

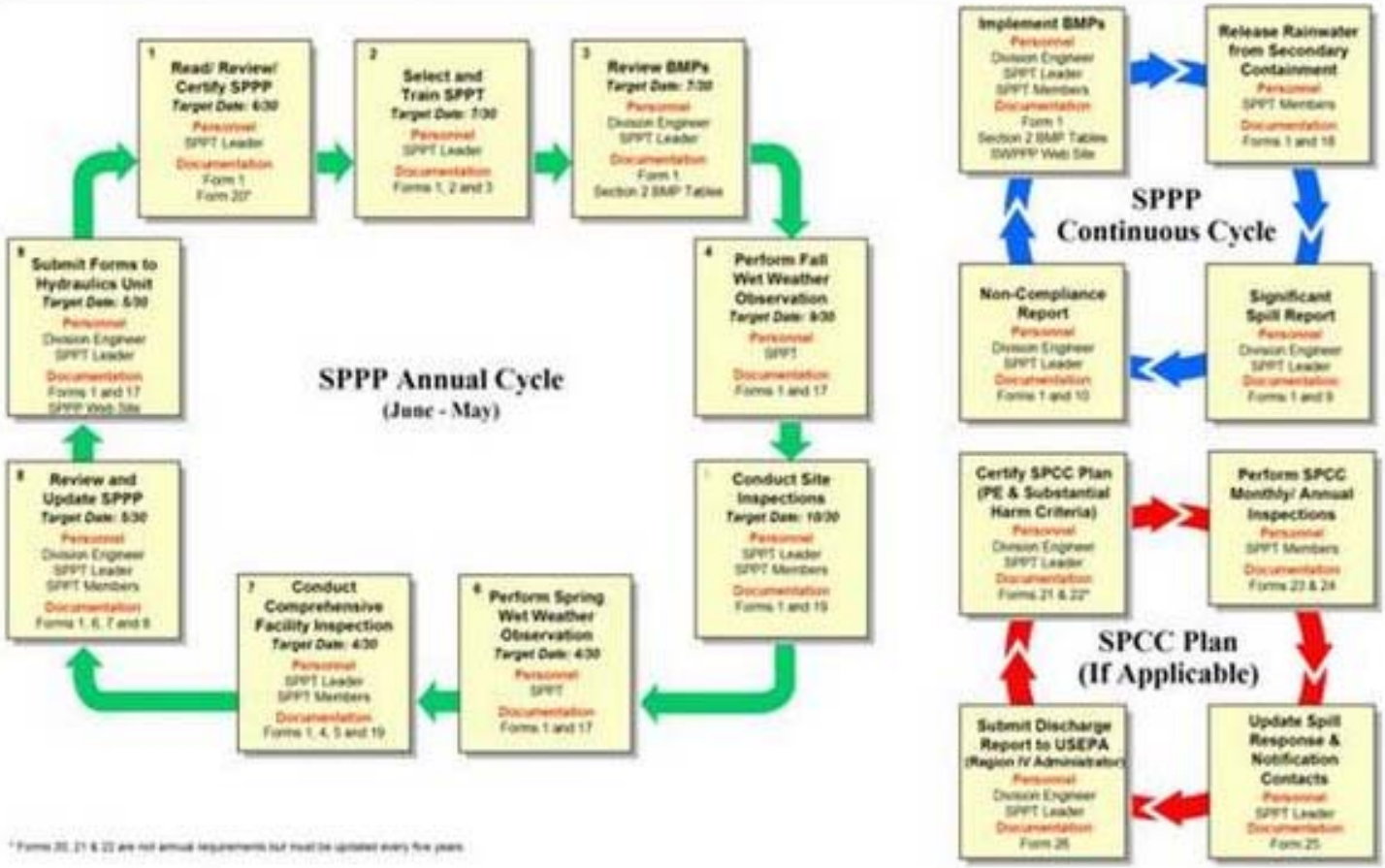
- 190+ SPPP Plans
- 100+ SPCC Plans
- A site specific plan was developed for each facility.
- SPPP/SPCC Plans include both generic and site specific components.

Stormwater and Spill Prevention Plan Components

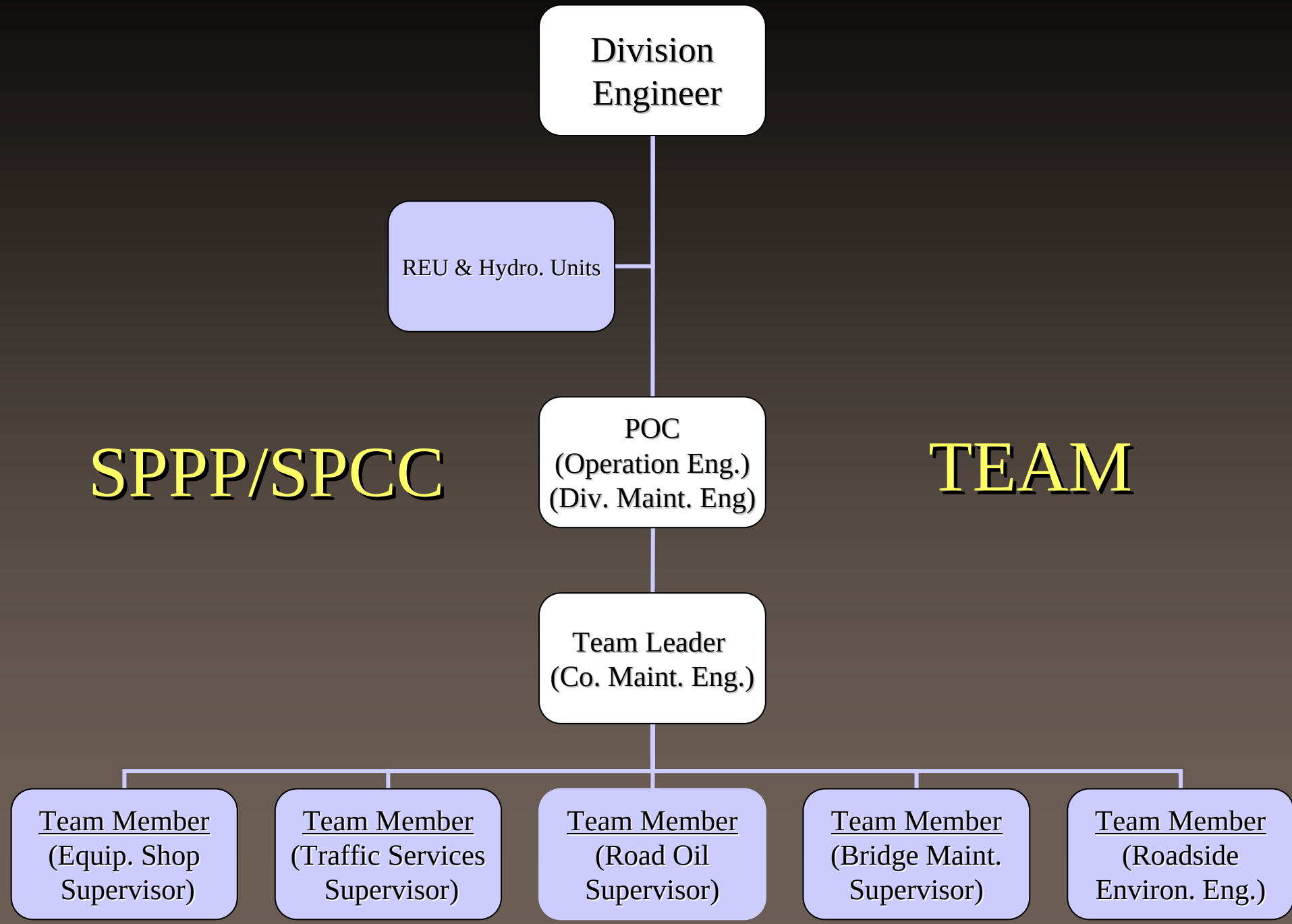
- Site Plan
- Industrial Activities
- Potential Pollution Sources
- Non-stormwater Discharges
- BMPs (Structural/Non-structural)
- BMP Schedule (Secondary Containment/ OWSs)
- Spill Prevention and Response
- Employee Training
- Facility Inspections/ Outfall Observations
- Implementation/Documentation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



* Forms 20, 21 & 22 are not annual requirements but must be updated every five years.


Division Engineer
REU & Hydro. Units
POC (Operation Eng.) (Div. Maint. Eng)
SPPP/SPCC
TEAM
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.)

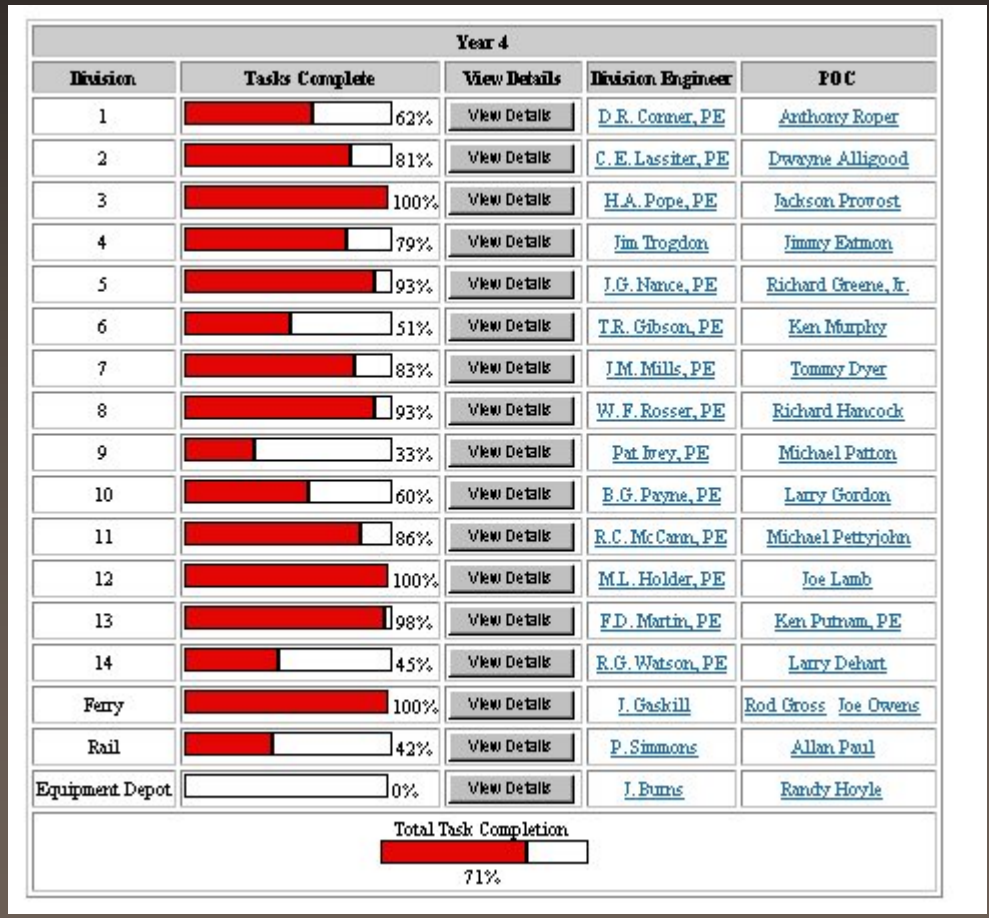
SPPP Web Based Tracking System

Tracks:

- **SPPP Implementation**
- **BMP Implementation**

Access:

- **Team Leaders**
- **POCs**
- **Directors**



Year 4

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

Total Task Completion

71%

NCDOT
North Carolina Department of Transportation

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Virginia Dare Bridge, Manteo

What's New

NCDOT DASHBOARD

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

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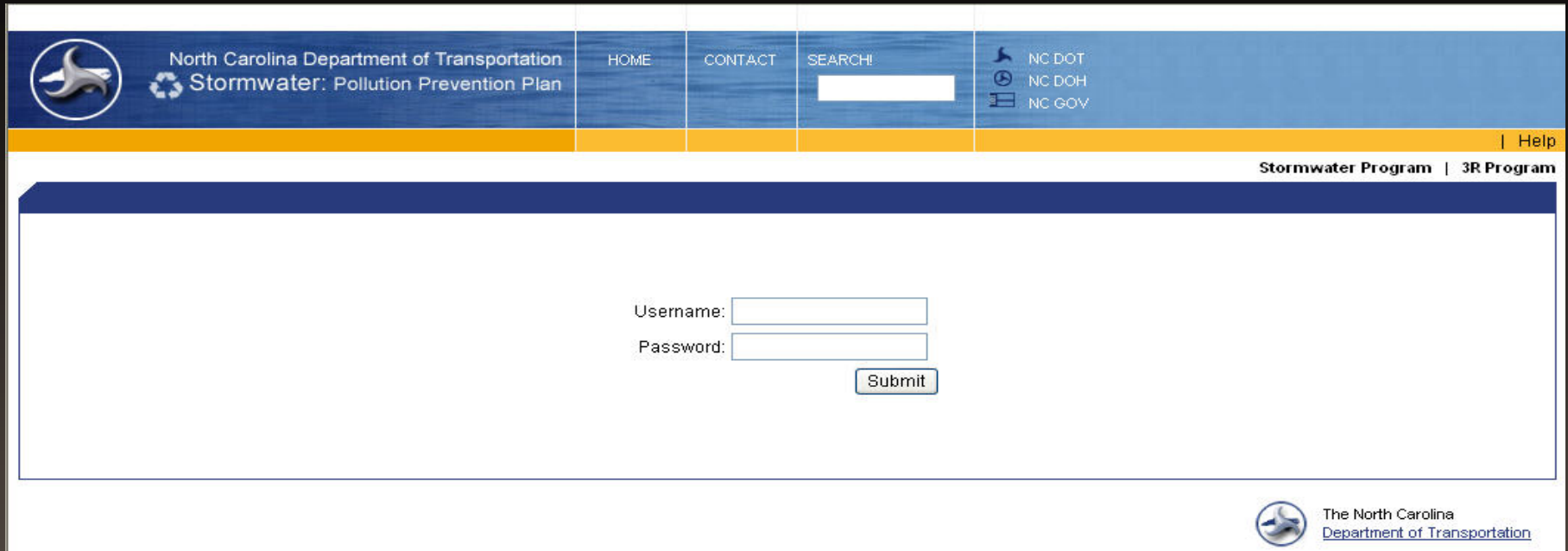
Assess Website through NCDOT Website under HIGHWAY



Password Secured Website

North Carolina Department of Transportation
Stormwater: Pollution Prevention Plan

HOME | CONTACT | SEARCH! | NC DOT | NC DOH | NC GOV

Johnie Marion | Help

Stormwater Program | 3R Program

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: 1
Fac: Hyde County Maintenance Yard
Year: 10 (6/1/2007 to 5/31/2008)

POC: Sterling D. Baker
TL: Ronnie L. Faulkner

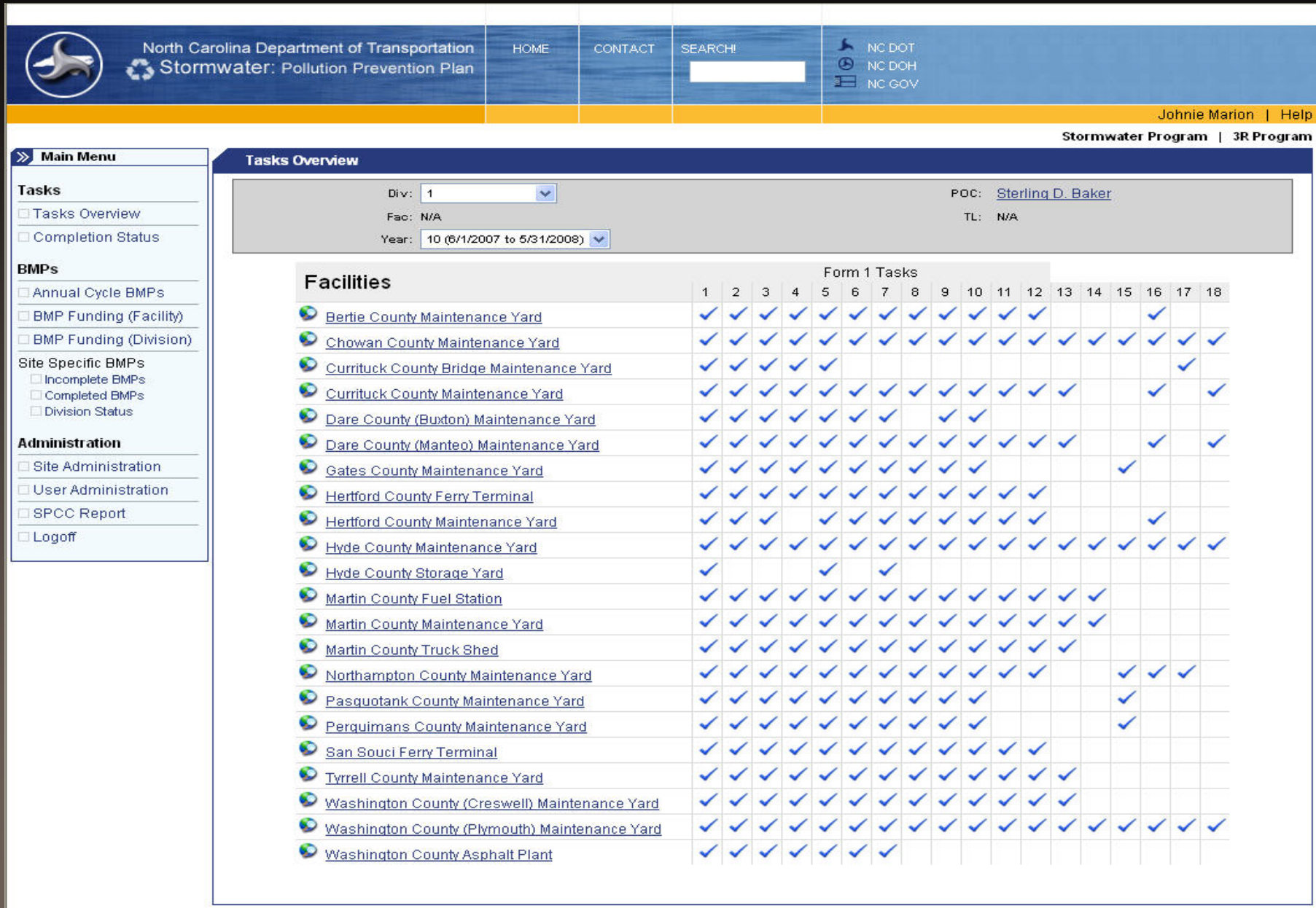
Print

- SPPP Section 2 Update
- Spill Response Document

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

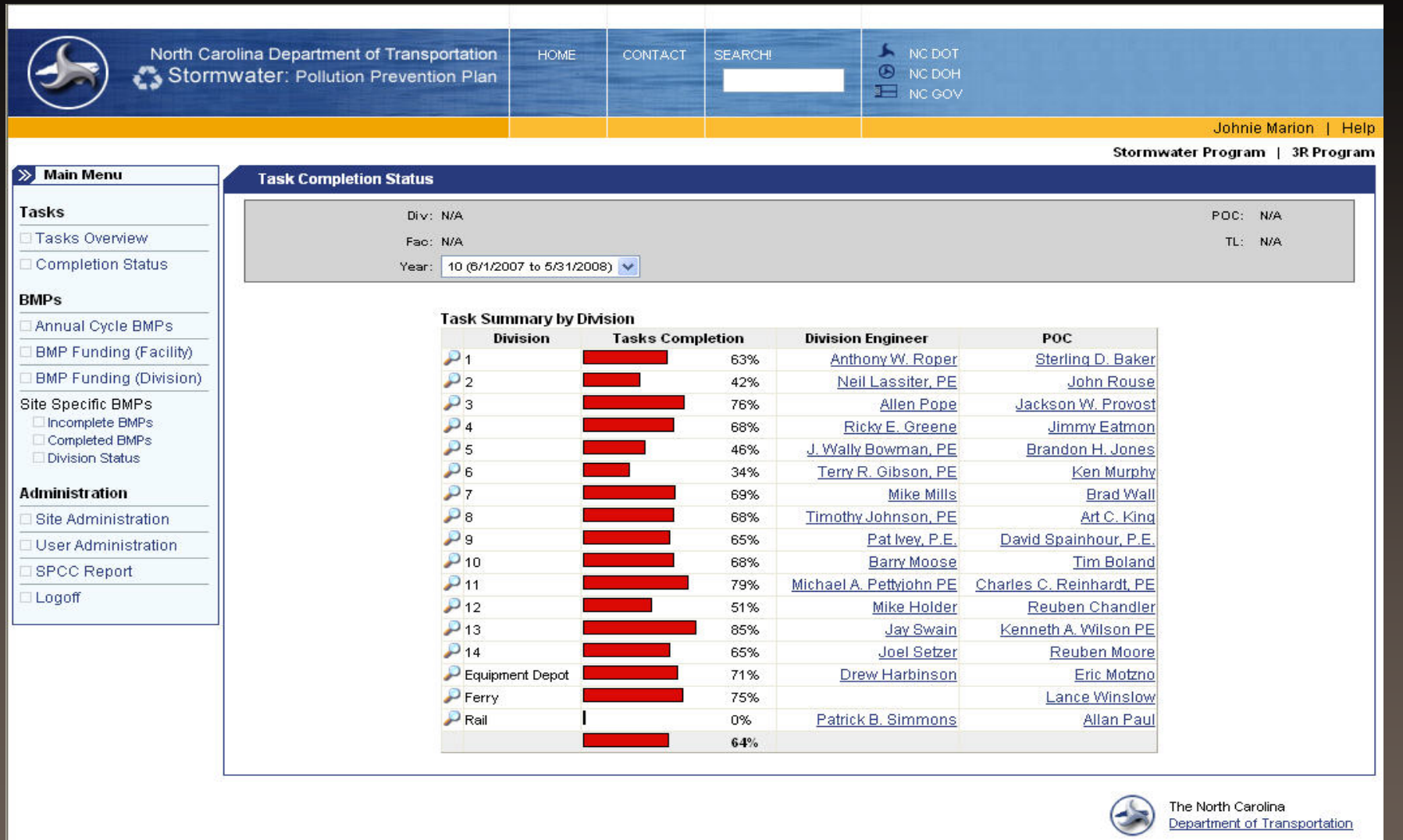
Status of CMY Annual Tasks

The North Carolina Department of Transportation



SPPP/SPCC Website

The North Carolina Department of Transportation



Percentage of Tasks Completed by Division

SPPP/SPCC Plan Merge

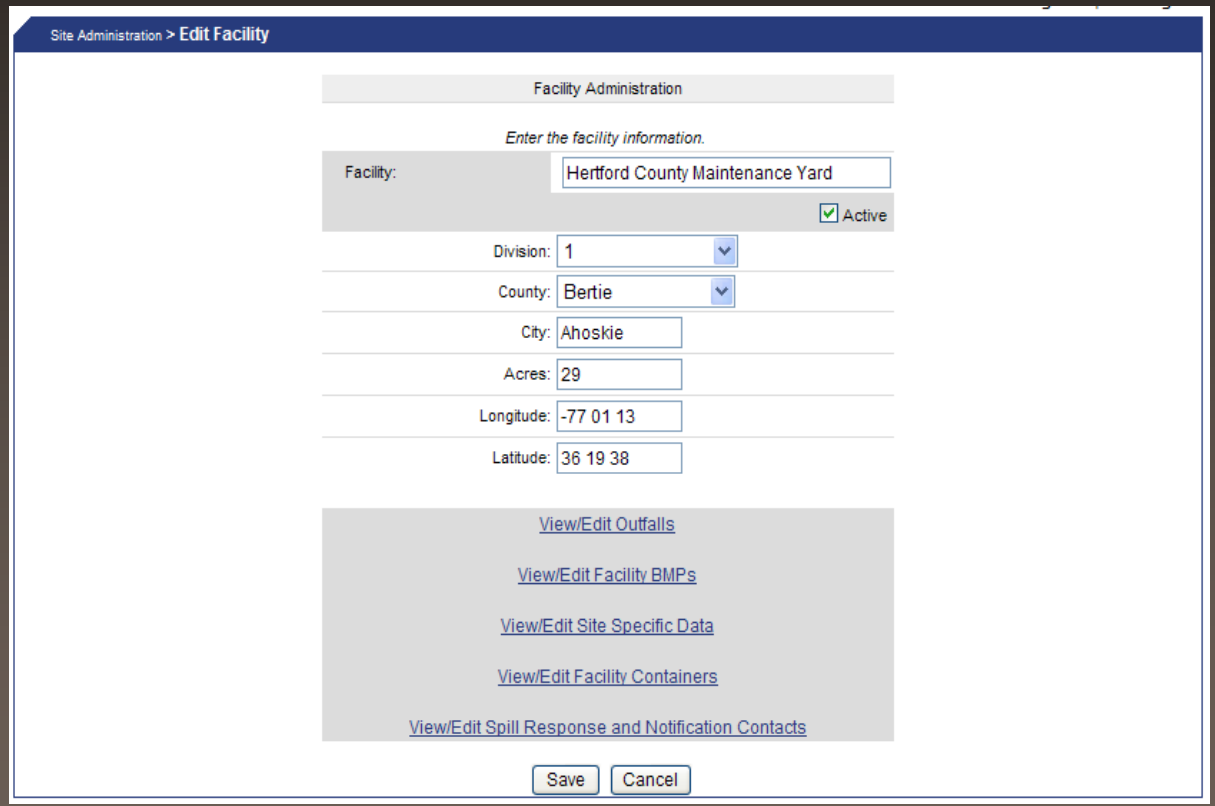
- 2008 - NCDOT elected to integrate the SPCC plan requirements within the existing SPPP documents and program using the Stormwater website.
- SPCC plans for highway maintenance facilities were out of date.
- While SPCC plans are a federal requirement and SPPPs are State NPDES requirements – many requirements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

SPPP-SPCC Web Based Tracking System

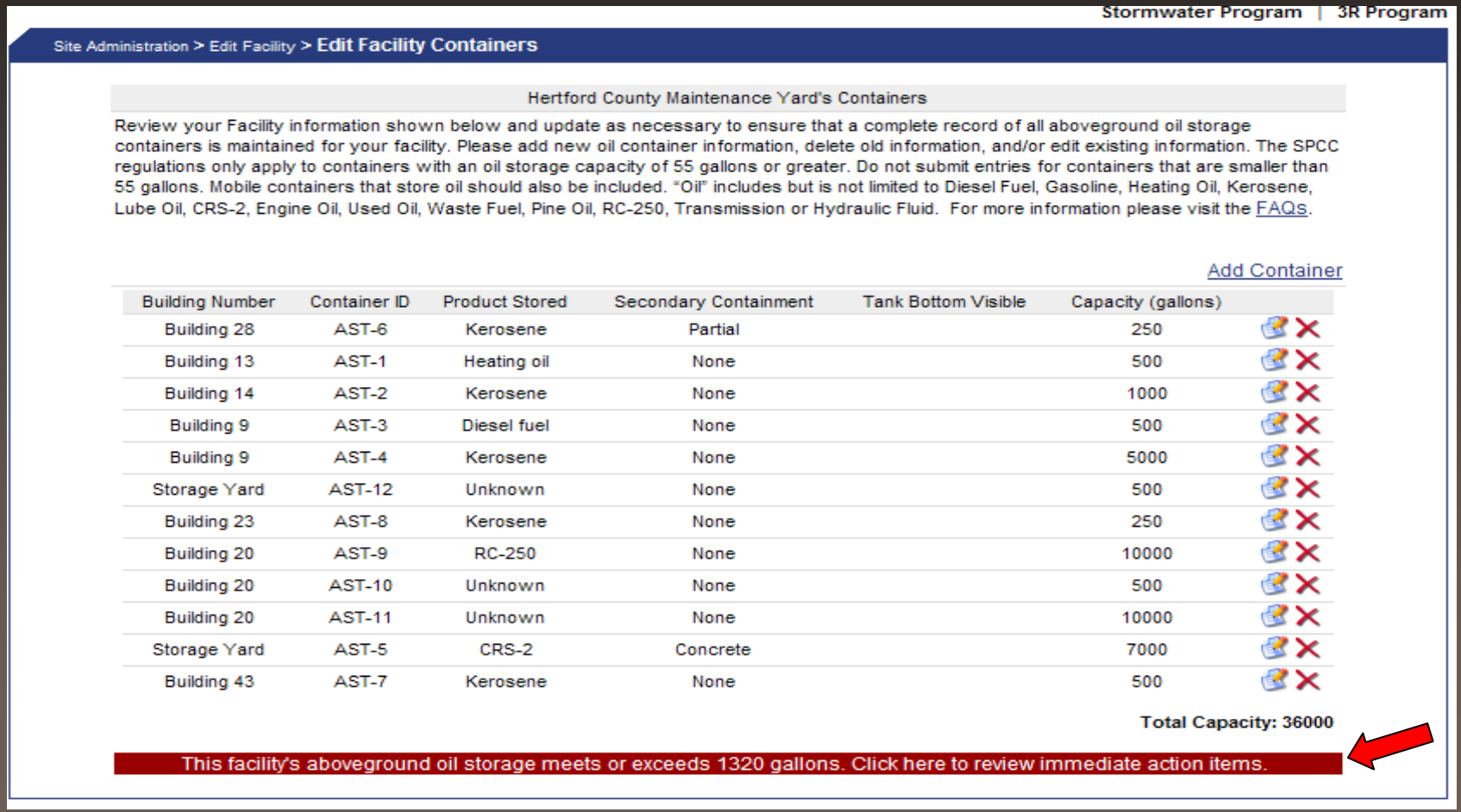
- Layout and navigation is improved
- Plan sections, appendices, and forms are now electronically available on Website (for downloading and printing)
- Site-specific Plan data can be modified via website
- Generic Plan data can easily be updated via website for all facilities Statewide
- User update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

Navigating the new Web site

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



SPCC Determination



Stormwater Program | 3R Program

Site Administration > Edit Facility > **Edit Facility Containers**

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

4.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURE

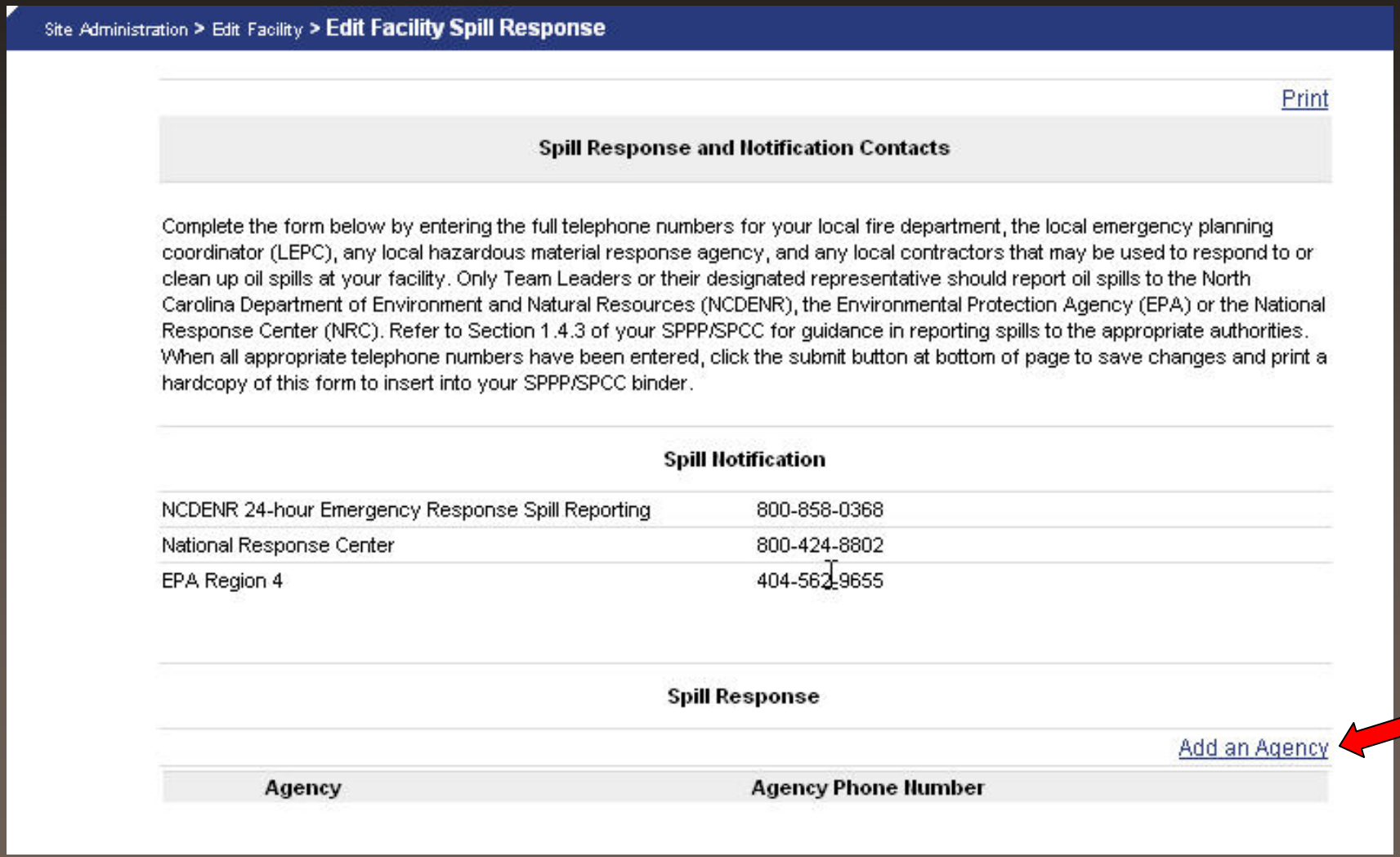
4.1 INTRODUCTION

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.

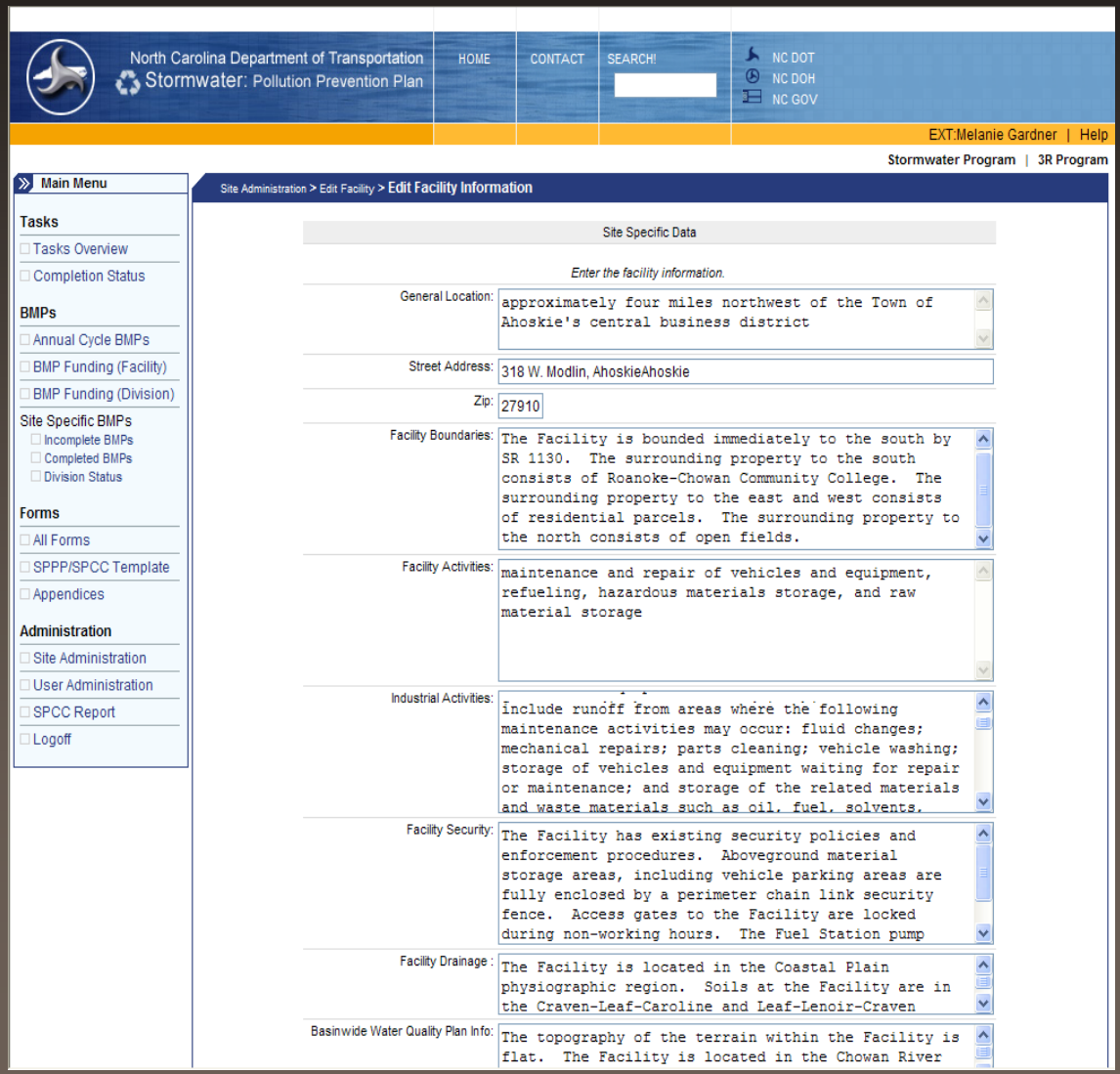
The status of USTs should be evaluated to ensure the tanks are meeting current UST regulations and NCDOT requirements. Most USTs will not be covered by this Plan because they are regulated by 40 CFR 280 or 281. There are specific USTs that are exempt from 280 and 281,

Spill Response Document



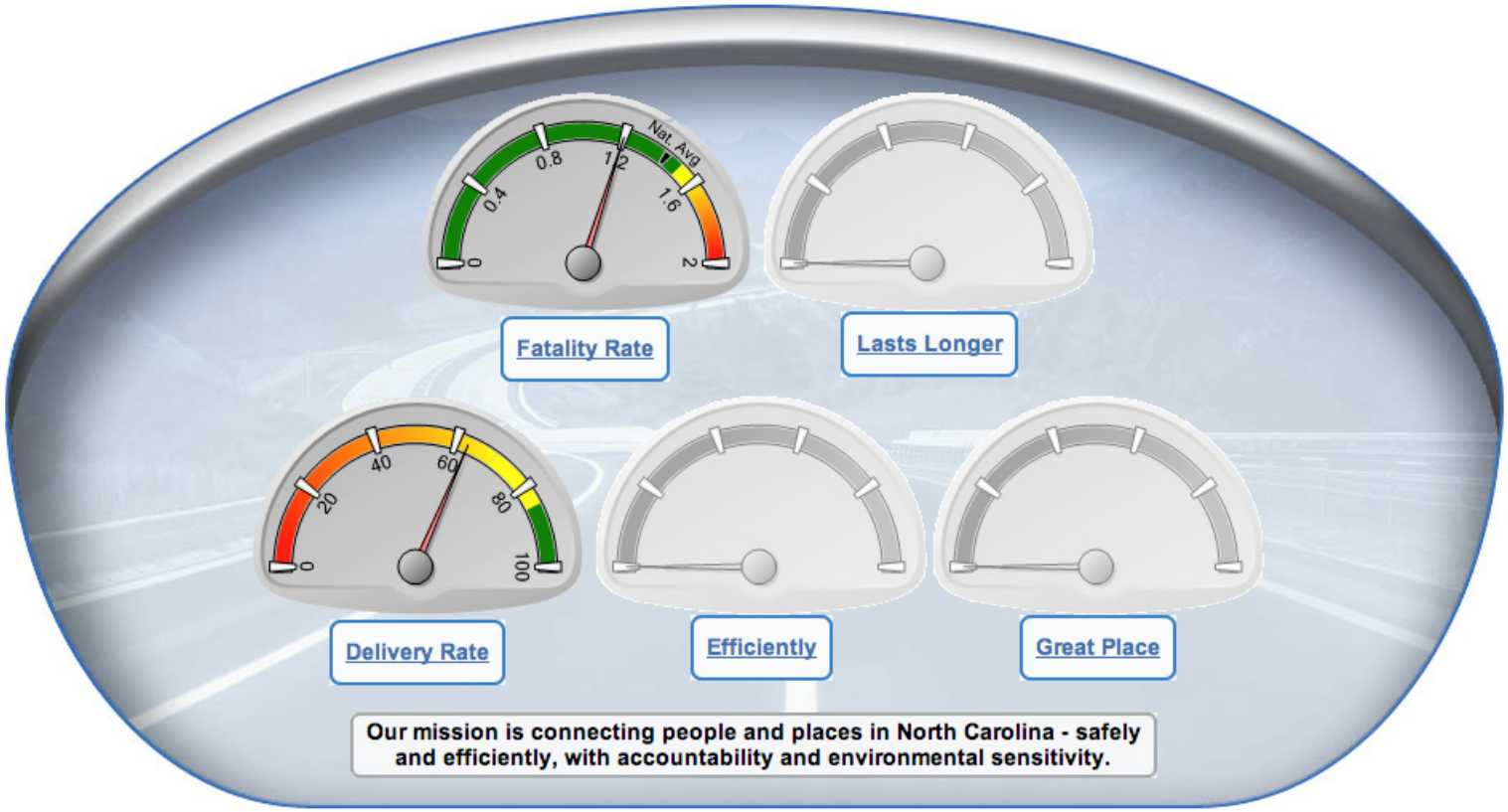
SPPP Section 2 Update

- 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.



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION 8
Moore County Maintenance Yard
Carthage, NORTH CAROLINA
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
STORMWATER POLLUTION PREVENTION PLAN
and SPILL PREVENTION, CONTROL, and
COUNTERMEASURE PLAN
7/2/2008
FRIDAY
4
11
18
25
6
13
20
27

NCDOT Organizational Performance Dashboard



More information on NCDOT's transformation and organizational performance efforts.

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Other Opportunities

- 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

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION