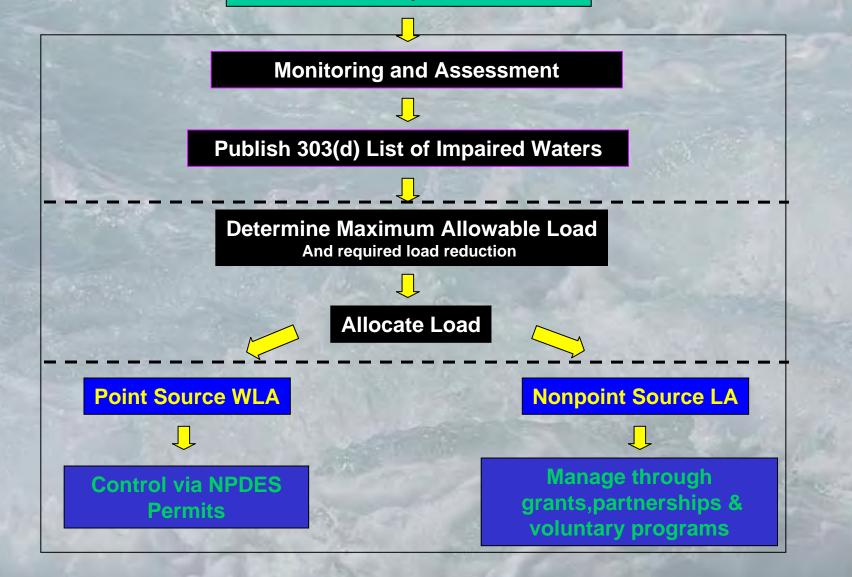
303(d) & TMDLs: DHEC's Perspective

Mihir Mehta, P.E. SCDHEC Bureau of Water

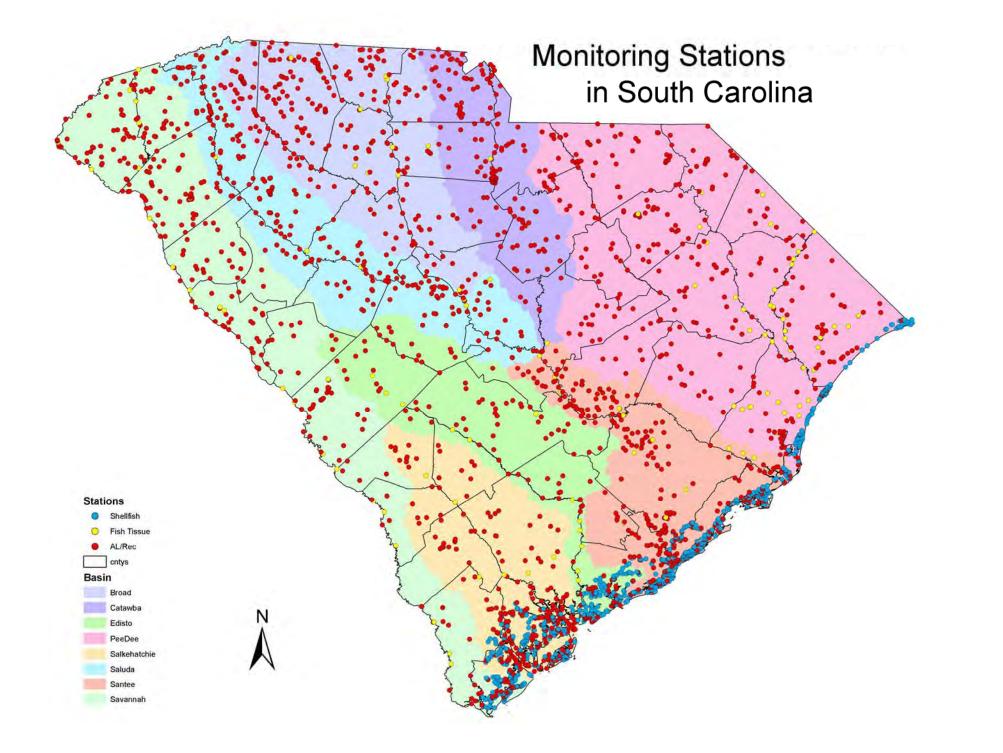
Section 303(d) of the Clean Water Act

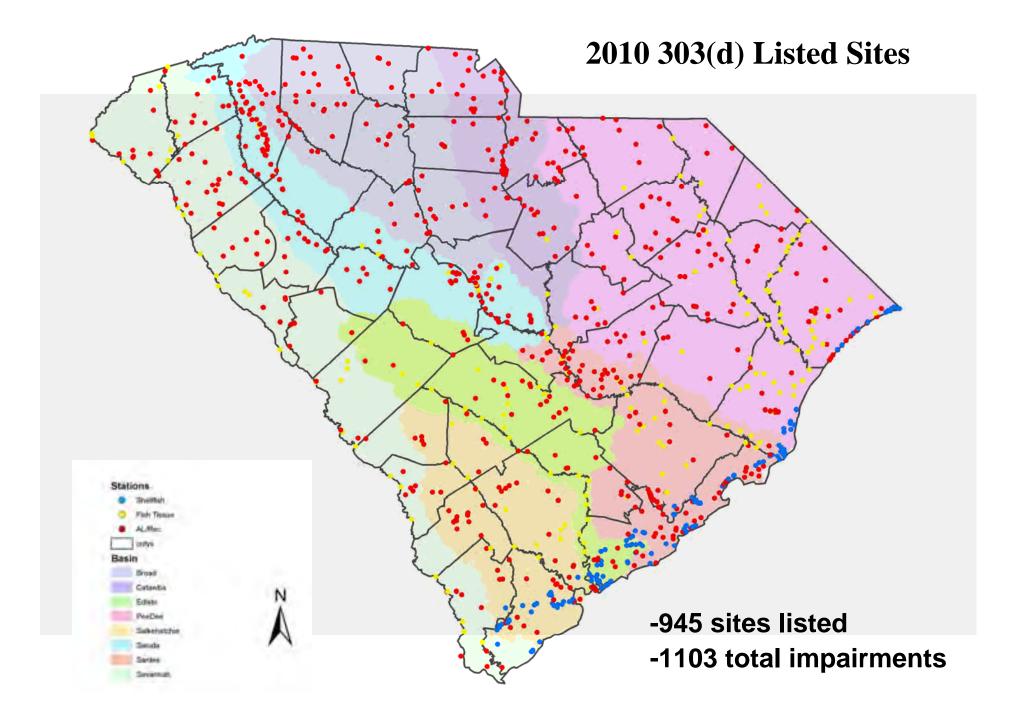
Water Quality Standards



303(d) List of Impaired Waters

- Includes locations of standards violations identified through DHEC's ambient monitoring
- In SC we list stations or sites and not segment or an area
- Assess for the following designated uses:
 - Aquatic Life impairments include Bio, DO, pH, metals, nutrients & turbidity
 - Recreational Use impairments include enterococcus and fecal coliform bacteria
 - Human Consumption Use impairments include Hg or PCBs in fish tissue
 - Shellfish Harvesting Use impairments include fecal coliform bacteria





Total Maximum Daily Load

Maximum amount of <u>a pollutant</u> that a waterbody can receive from all sources, and still meet water quality standards, OR

otal Maximum Daily Load Jeremy Inlet and Scott Creek

•Formula: TMDL = WLA + LA + MOS

(WLA = Point, LA = Nonpoint, MOS = Margin of Safety)

•TMDL Document:

A plan that helps target resources in order to achieve water quality improvement and restore impaired waters

Nonpoint Source or Point Source?

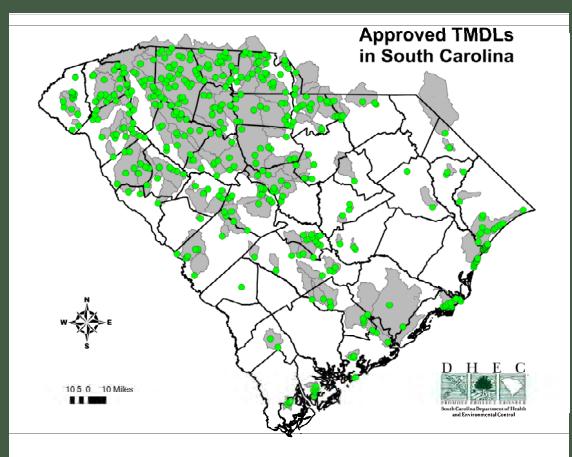


TMDL Facts

- TMDL approval process includes public notice, comment period, & NODD (SC R.61-110)
- All TMDLs must be approved by EPA
- Approved TMDL confers no additional regulatory authority to DHEC
- TMDL implementation occurs through regulatory and non-regulatory mechanisms
- TMDLs may be revised, but never expire

EPA-Approved TMDLs

30 DO
374 FC
51 SFH FC
1 TP
2 pH
1 Turbidity



303(d) List & TMDLs: Information on Web Site

OTE PROTECT PROSPER Heal	th Environment Services Permits Regulatory A-Z								
TMDL Home	303 (d) & Total Maximum Daily Loads								
303(d) List									
TMDLs under development	South Carolina 303(d) List of Impaired Waters & TMDL Program								
Proposed TMDLs on Public Notice	Table of Contents:								
Notice of Department Decision	A) 303(d) List								
Approved SC TMDLS									
TMDL Implementation for Nonpoint Sources	 What is the 303(d) List? How is the 303(d) List developed? How can a site be removed (or "delisted") from the 303(d) List? 								
Grants	How can I find the current and past South Carolina's 303(d) List?								
Contact	What is the complete list of impaired water in South Carolina?								
Links	B): Total Maximum Daily Loads								
	What is a TMDL?								
Water Home	How are TMDLs calculated?								
	 What are water guality classifications, standards and designated uses? 								
	Which waterbodies require a TMDL?								
	How many TMDLs are currently developed?								
	 What TMDLs are currently being developed in South Carolina? 								
	How are TMDLs Implemented?								
	 How is TMDL implementation evaluated? 								
	 How does a TMDL implementation plan benefit citizens? 								

303(d) List: Information on Web Site

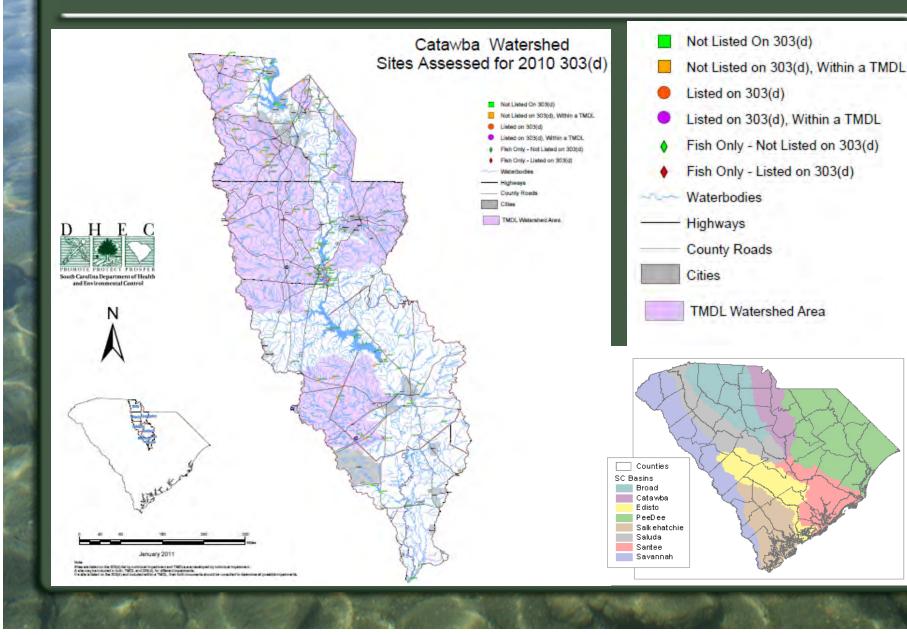
2010 SC List of Impaired Waters by 12-Digit HUC

TMDL TARGET DATE(\$)++	NOTE	BASIN	HUC	LOCATION		COUNTY	USE	CAUSE
2021		CATAWBA	030501030107	MCALPINE CK AT S-29-64	CW-064	LANCASTER	AL	NH3N
2014		CATAWBA	030501030107	MCALPINE CK AT S-29-64		LANCASTER	REC	FC
2021		CATAWBA	030501030108	STEEL CR. AT US BY-PASS 21	CW-681	YORK	AL	PH
2016		CATAWBA	030501030109	SUGAR CK AT SC 160 E OF FORT MILL		LANCASTER	AL	BIO
2014		CATAWBA	030501030109	SUGAR CREEK AT S-46-36	CW-036	LANCASTER	REC	FC
2019		CATAWBA	030501030302	CANE CK AT SC 200 5 MI NNE OF LANCASTER	CW-185	LANCASTER	AL	DO
2021		CATAWBA	030501030304	HANNAHS CREEK AT S-29-376 3.4 MI E OF LANCASTER	RS-05403	LANCASTER	AL	DO
2021	#	CATAWBA	030501030304	GILLS CK AT S-29-36 4.5 MI ENE OF LANCASTER	RS-07043	LANCASTER	AL	DO
2019, 2019		CATAWBA		CANE CK AT S-29-50	CW-017	LANCASTER	AL	CU, DO
2021		CATAWBA		CANE CR. AT SC 9 BYPASS	CW-210	LANCASTER	AL	PH
2013		CATAWBA	030501030305	RUM CK AT S-29-187	CW-232	LANCASTER	AL	DO
2013		CATAWBA		WILDCAT CK AT S-46-650	CW-006	YORK	AL	DO
2014		CATAWBA	030501030401	TOOLS FORK AT S-46-195 7 MI NW OF ROCK HILL	CW-212	YORK	AL	TURBIDITY
2014		CATAWBA	030501030401	TOOLS FORK CREEKUPSTREAM OF RETENTION POND IN HAWKINS RIDGE OFF S-46-195	CW-545	YORK	REC	FC

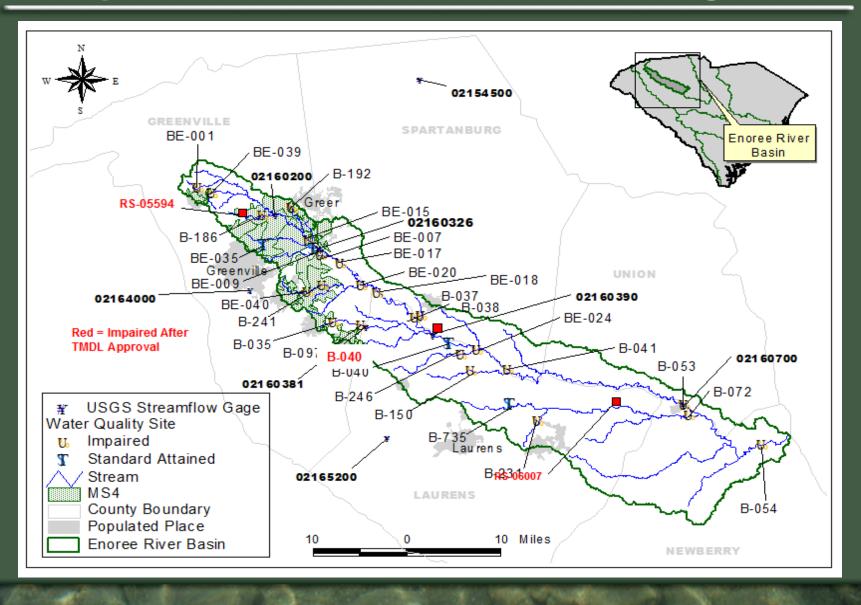
TMDL Information as Part of 303(d) List

Sites Covered Under an Approved TMDL and Attainment Status as of 12/09/10											
BASIN	12-DIGIT HUC DESCRIPTION	STATION	COUNTY	USE	CAUSE	USE SUPPORT	TMDL*	DHEC_TECH REPORT	APPROVAL DATE		
CATAWBA	030501011505 CROWDERS CK AT S-46-564 NE CLOVER	CW-023	YORK	REC	FC	Not Supported	InTMDL	NC TMDL			
CATAWBA	030501011505 CROWDERS CREEK AT S-46-1104	CW-024	YORK	REC	FC	Not Supported	InTMDL	NC TMDL			
CATAWBA	030501011505 SOUTH FORK CROWDERS CK AT S-46-79 4.5 MI NW OF CLOVER	CW-192	YORK	REC	FC	Fully Supported	WnTMDL	NC TMDL			
CATAWBA	030501011506 CALABASH BR AT S-46-414 2.5 MI SE OF CLOVER	CW-134	YORK	REC	FC	Not Supported	InTMDL	010-03	12/10/03		
CATAWBA	030501011506 ALLISON CK AT US 321 3.1 MI S OF CLOVER	CW-171	YORK	REC	FC	Not Supported	InTMDL	011-03	12/19/03		
CATAWBA	030501011506 ALLISON CK AT S-46-114	CW-249	YORK	REC	FC	Not Supported	InTMDL	007-07	02/22/07		
CATAWBA	030501030108 STEELE CK AT S-46-22 N OF FORT MILL	CW-009	YORK	REC	FC	Not Supported	IntMDL	010-07	08/31/07		
CATAWBA	030501030108 STEELE CK AT S-46-270	CW-011	YORK	REC	FC	Fully Supported	IntMDL	010-07	08/31/07		
CATAWBA	030501030108 STEELE CK AT S-46-98	CW-203	YORK	REC	FC	Not Supported	InTMDL	010-07	08/31/07		
0.17.0000.0		0111.470		850	50	Eully Overseted	L-TUDI	004.05	00/44/05		
CATAWBA	030501030203 SIXMILE CREEK AT S-29-54	CW-176	LANCASTER	REC	FC	Fully Supported	IntMDL	031-05	09/11/05		
CATAWBA	030501030204 TWELVEMILE CK AT S-29-55 0.3 MI NW OF VAN WYCK	CW-083	LANCASTER	REC	FC	Not Supported	InTMDL	031-05	09/11/05		

303(d) Sites and TMDL Areas on the Web Site



Example - Enoree River FC TMDL Drainage Area



Questions?

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