

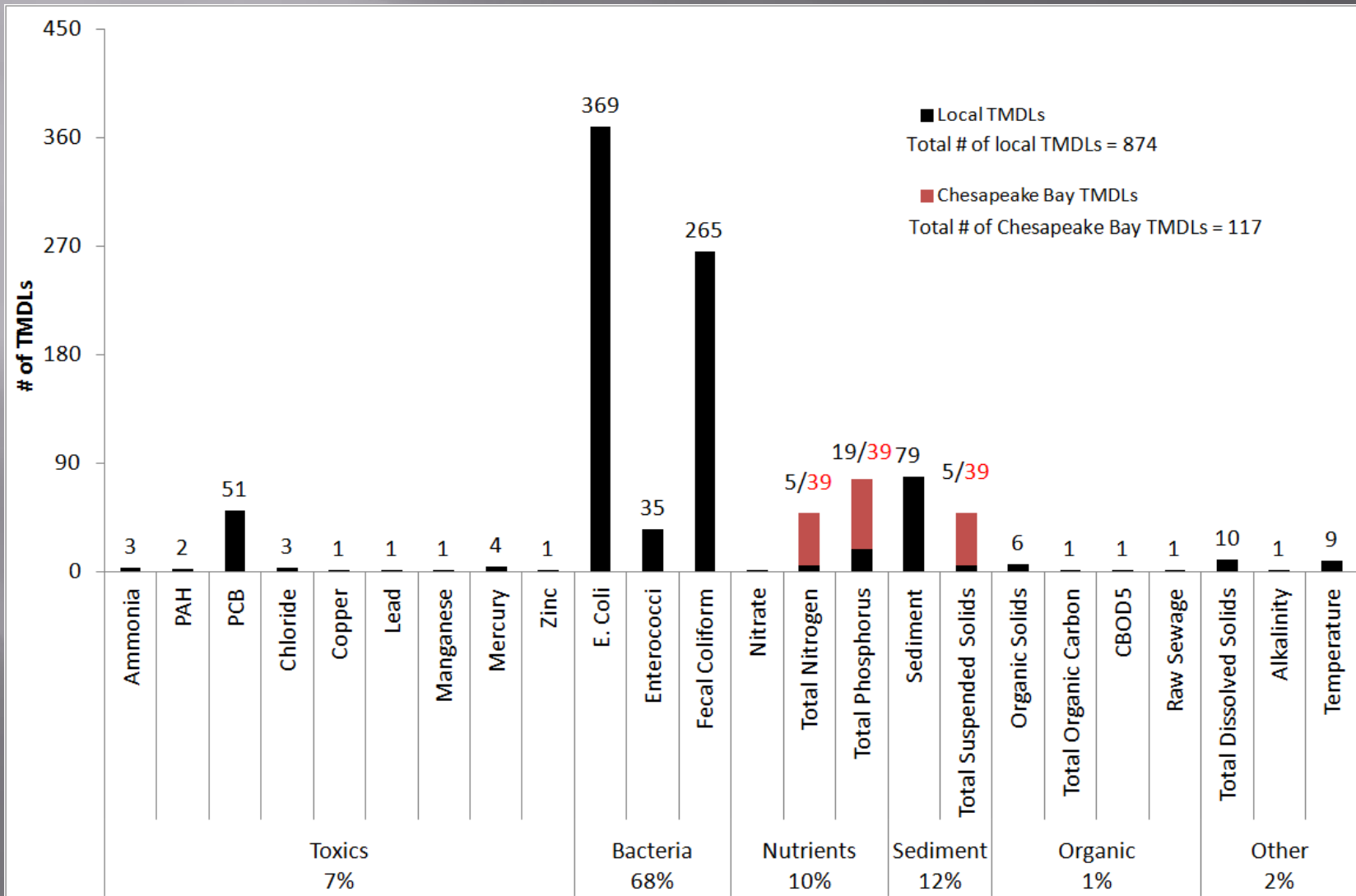
Total Maximum Daily Load Program

Bryant Thomas, Water Permits & Planning, DEQ-NRO









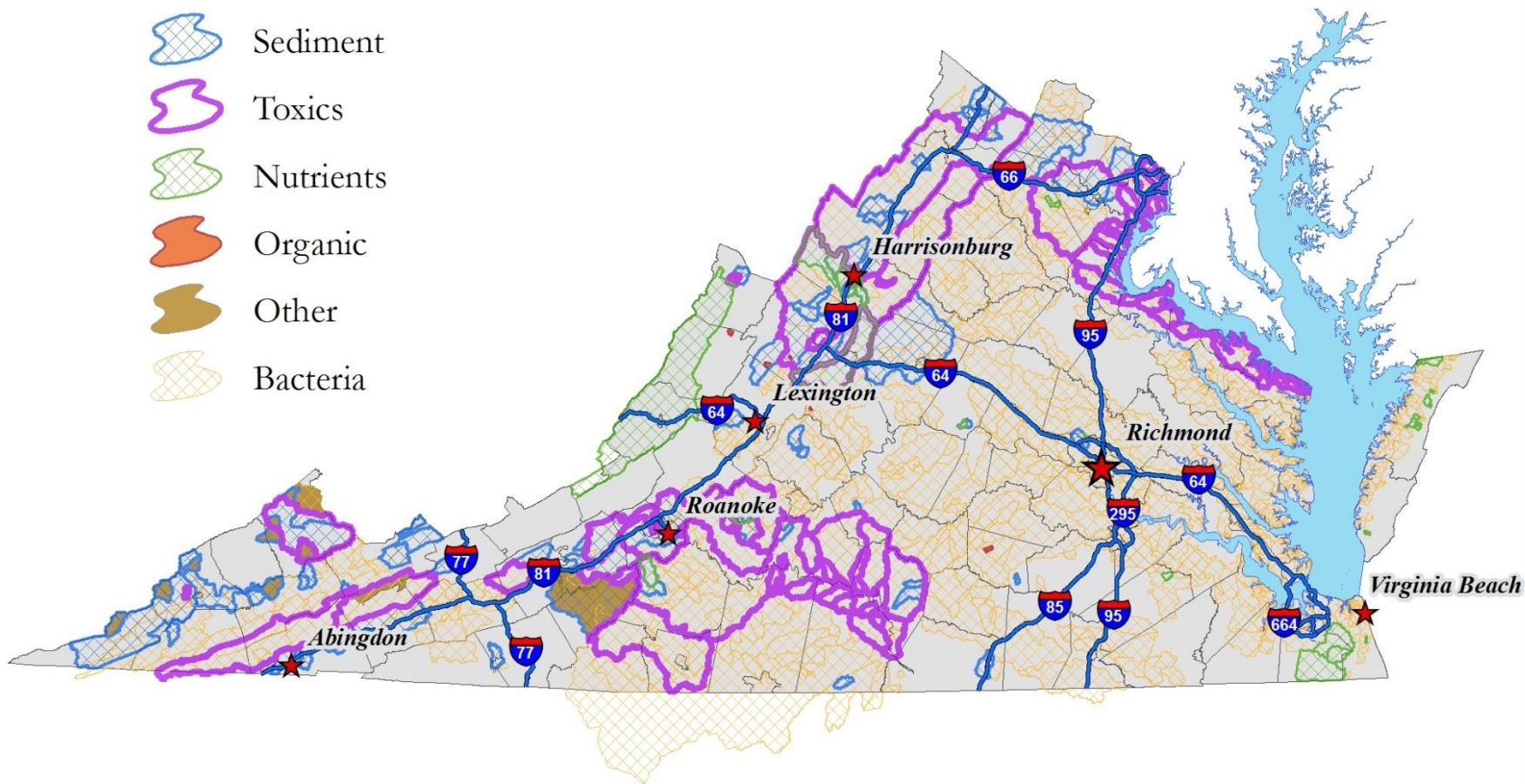
Current TMDLs in Place

874 Local TMDLs

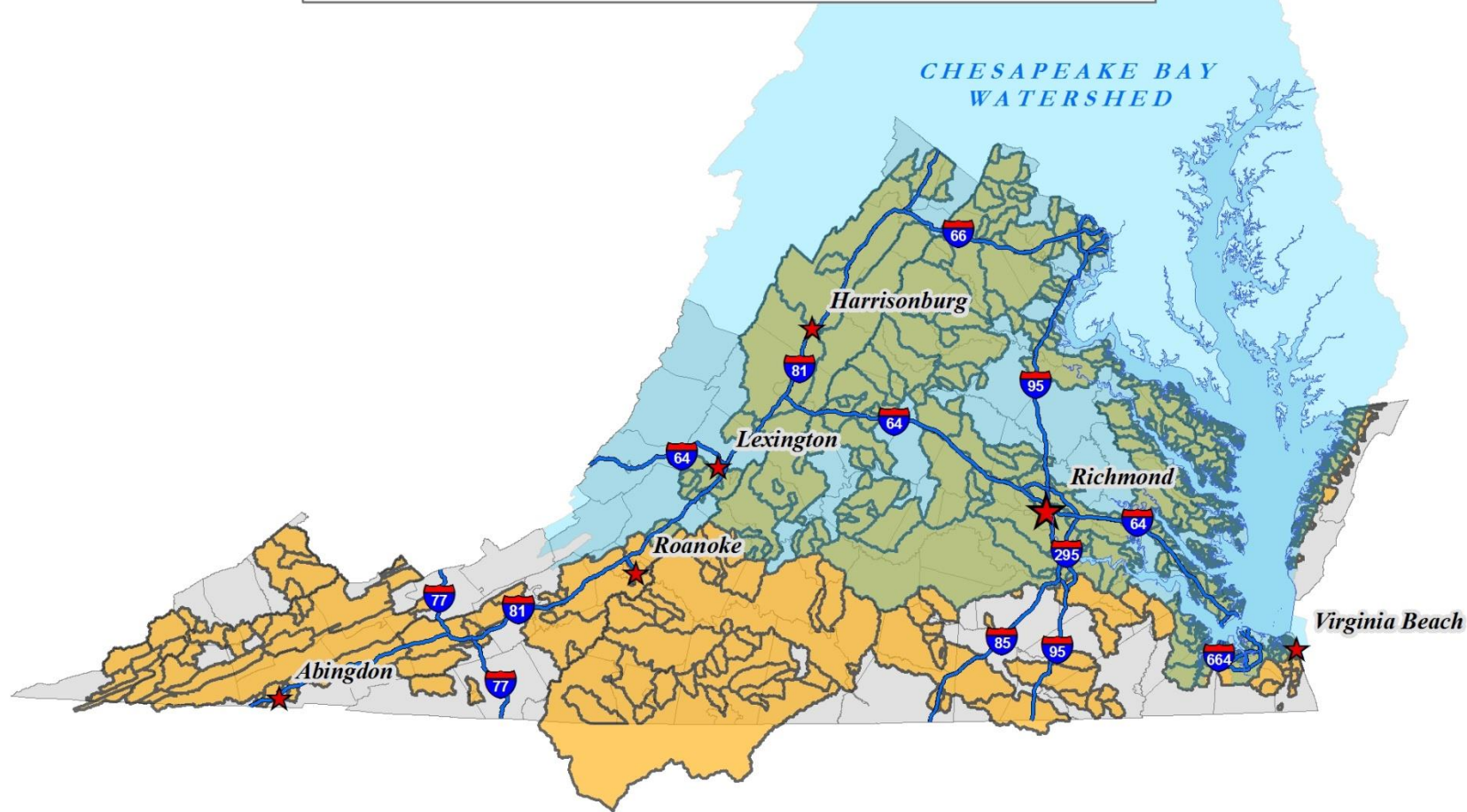


TMDL Watersheds

-  Sediment
-  Toxics
-  Nutrients
-  Organic
-  Other
-  Bacteria



Bacteria TMDL Watersheds



Data Sources: VA DCR, VA DEQ 2015.

Map Updated through August, 2015

Data: CBP (Liza Hernandez)

Watershed Planning in Progress

- ▣ Elizabeth/tidal James River – PCB TMDL
- ▣ New River – PCB TMDL
- ▣ James River, Lynchburg – Bacterial TMDL revision
- ▣ Accotink – Stressor Analysis
- ▣ North Fork Catoctin Creek – Stressor Analysis
- ▣ Thirteen other planning efforts available at <http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/TMDL/TMDLDvelopment/DocumentationforSelectTMDLs.aspx>



My DEQ

Permits

Laws & Regulations

Programs

A scenic photograph of the Blue Ridge Mountains in Virginia, showing rolling hills and valleys covered in dense forest. The foreground shows trees with vibrant autumn foliage in shades of orange, red, and yellow. The background shows layers of blue mountains receding into the distance under a clear sky.

Protecting Virginia's Environment

DEQ seeks comments on TMDL priorities

The Department of Environmental Quality is seeking public comment on the draft list of [impaired water priorities](#) for Total Maximum Daily Load (TMDL) or TMDL alternative development for 2016-2022. The public comment period ends August 26, 2015. Read the [public notice](#), or read more about [TMDLs](#).

TMDL Watershed Prioritization for 2016-2022

- ▣ Prioritization by Use
 - Recreational use impairments along blueways or water trails
 - All impairments proximal to drinking water intakes
- ▣ Consider Most Effective Mechanisms to Attain Water Quality Standards
 - “No TMDLs sitting on a shelf”
- ▣ Dispersed Geographically

WQ27 Priorities for NRO

Proposed Project Groupings	Priority List	EPA Priority Date (Approval)	Assessment Listed TMDL Due Date	Water Body Name	Cause Name
Accotink Creek Watershed Benthic TMDLs	WQ27	2017	2016	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
			2022	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
			2016	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
			2022	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
			2022	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
			2022	Accotink Creek	Benthic-Macroinvertebrate Bioassessments
Mattaponi River Basin Bacteria TMDL	WQ27	2016	2020	Brock Run	Escherichia coli
			2020	Mattaponi River	Escherichia coli
			2016	Matta River	Escherichia coli
			2026	Mat River	Escherichia coli
			2026	Motto River	Escherichia coli
			2022	Po River	Escherichia coli
			2022	Glady Run	Escherichia coli
			2022	Poni River	Escherichia coli
			2026	Chapel Creek	Escherichia coli
			2022	Reedy Creek	Escherichia coli
			2022	Reedy Creek	Escherichia coli
			2024	Polecat Creek	Escherichia coli
			2026	Doctors Creek	Escherichia coli
			2026	Root Swamp	Escherichia coli
North Fork Catoctin Benthic TMDL	WQ27	2018-2022	2020	North Fork Catoctin Creek	Benthic-Macroinvertebrate Bioassessments
			2026	North Fork Catoctin Creek	Benthic-Macroinvertebrate Bioassessments
Jeffries Branch Benthic TMDL	WQ27	2018-2022		Jeffries Branch	Benthic-Macroinvertebrate Bioassessments
Mountain Run PCB TMDL	WQ27	2018-2022	2018	Mountain Run	PCB in Fish Tissue
			2018	Mountain Run	PCB in Fish Tissue
			2018	Mountain Run	PCB in Fish Tissue
Massaponax & Deep Run pH TMDL	WQ27	2018-2022		Massaponax Creek	pH
				Deep Run	pH
South Anna River Benthic TMDL	WQ27	2018-2022	2022	South Anna River	Benthic-Macroinvertebrate Bioassessments

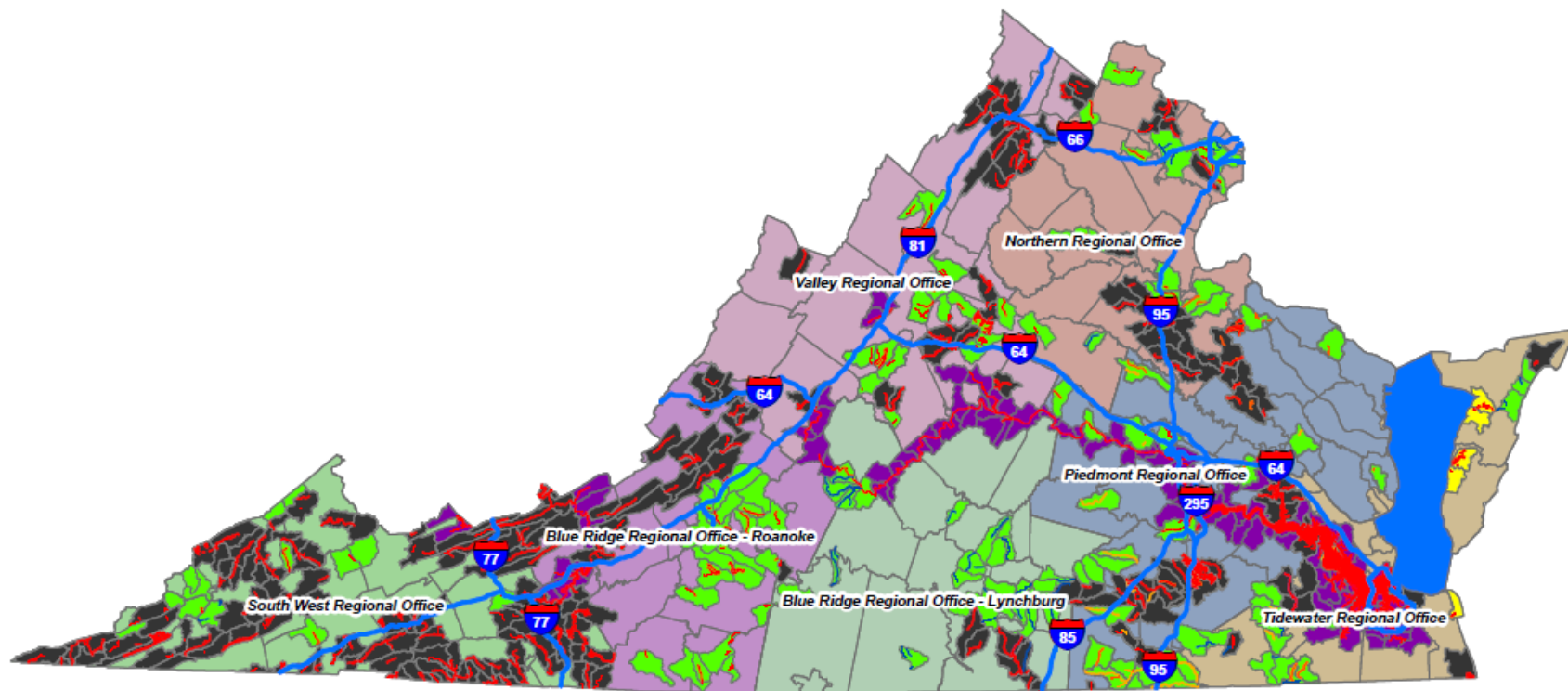
WQ28 Priorities, NRO

Proposed Project Groupings	NRO Estimated TMDL Start Date	Included in Priorities List to CO/EPA	EPA Priority Date (Approval)	Assessment Listed TMDL Due Date	Water Body Name	Cause Name
Root Swamp Natural Conditions Assessment	2015	WQ28	2016	2018	Root Swamp	pH
				2018	Unnamed tributary to Root Swamp	pH
				2018	Unnamed tributary to Root Swamp	Oxygen, Dissolved
Natural Conditions Assessments for DO and pH	2015	WQ28	2018-2022	2020	Gingoteague Creek	pH
				2020	Chappel Creek	pH
				2020	Beverly Run	pH
				2020	Doctors Creek	pH
				2020	Ware Creek	pH
				2016	Ware Creek	pH
				2020	Mount Creek	pH
Sumerduck Run Bacteria TMDL and Benthic TMDLs	2016	WQ28	2018-2022		Sumerduck Run	Benthic-Macroinvertebrate Bioassessments
				2020	Sumerduck Run	Escherichia coli
Broad Run and Horsepen Run Benthic TMDLs	2017	WQ28	2018-2022	2018	Broad Run	Benthic-Macroinvertebrate Bioassessments
				2020	Broad Run	Benthic-Macroinvertebrate Bioassessments
				2020	Broad Run	Benthic-Macroinvertebrate Bioassessments
				2020	Broad Run	Benthic-Macroinvertebrate Bioassessments
				2020	Broad Run	Benthic-Macroinvertebrate Bioassessments
				2026	South Fork Broad Run	Benthic-Macroinvertebrate Bioassessments
				2024	Horsepen Run	Benthic-Macroinvertebrate Bioassessments
Broad Run Bacteria TMDL	2017	WQ28	2018-2022	2022	Broad Run	Escherichia coli
				2022	Broad Run	Escherichia coli
				2024	Broad Run	Escherichia coli
				2026	Broad Run	Escherichia coli
				2022	UT to the Potomac River	Escherichia coli
				2026	Indian Run	Escherichia coli
				2026	South Fork Broad Run	Escherichia coli
				2026	Beaverdam Run	Escherichia coli
				2026	Beaverdam Run	Escherichia coli
				2026	Beaverdam Run	Escherichia coli
Catharpin Creek Benthic TMDL	2018	WQ28	2018-2022		Catharpin Creek	Benthic-Macroinvertebrate Bioassessments
Pohick Creek Bacteria & Benthic TMDLs	2019	WQ28	2018-2022	2018	Pohick Creek	Escherichia coli
				2024	Pohick Creek	Escherichia coli
				2018	Pohick Creek	Escherichia coli
					Pohick Creek	Benthic-Macroinvertebrate Bioassessments
Mountain Run Benthic TMDL	2020	WQ28	2018-2022	2020	Mountain Run	Benthic-Macroinvertebrate Bioassessments
				2020	Mountain Run	Benthic-Macroinvertebrate Bioassessments
				2020	Mountain Run	Benthic-Macroinvertebrate Bioassessments
					Jonas Run	Benthic-Macroinvertebrate Bioassessments
Holmes and Tripps Benthic	????	WQ28	2018-2022		Holmes Run	Benthic-Macroinvertebrate Bioassessments
					Tripps Run	Benthic-Macroinvertebrate Bioassessments
Cub Run Watershed and Little Rocky Run Benthic TMDLs	????	WQ28	2018-2022	2022	Big Rocky Run	Benthic-Macroinvertebrate Bioassessments
				2026	Ellick Run	Benthic-Macroinvertebrate Bioassessments
				2020	Flatlick Branch	Benthic-Macroinvertebrate Bioassessments
					Cub Run	Benthic-Macroinvertebrate Bioassessments
				2022	Little Rocky Run	Benthic-Macroinvertebrate Bioassessments
Contrary Creek Aquatic Life/Wildlife TMDLs	?????	WQ28	2018-2022	2020	Contrary Creek	Cadmium
				2020	Contrary Creek	Cadmium
				2020	Contrary Creek	Cadmium
				2020	Contrary Creek	Cadmium
				2020	Contrary Creek	Copper
				2020	Contrary Creek	Copper
				2020	Contrary Creek	Copper
				2020	Contrary Creek	Copper
				2020	Contrary Creek	Zinc
				2020	Contrary Creek	Zinc
				2020	Contrary Creek	Zinc
				2020	Contrary Creek	Zinc
				2020	Contrary Creek	Zinc
				2014	Contrary Creek	pH
				2020	Contrary Creek	pH


Watershed Prioritization for 2016-2022


- **Summer 2014 – Spring 2015**
 - ✓ – Identify impairments.
 - ✓ Refine data set to align with VDEQ's broader TMDL priorities for 2016-2022.
 - ✓ Refine regional office TMDL priorities based on available monitoring data and workload.
- **Summer 2015**
 - ✓ Public Comment period and address comments
 - ✓ Submit data to EPA


Map of Draft 2016-2022 Priority Waters and Watersheds*




 VA Interstates


 Shellfishing Use Priority HUCs - 6


 Recreational Use Priority HUCs - 220

 Aquatic Life Use Priority HUCs - 207

 Fish Consumption Use (PCB) Priority HUCs - 102

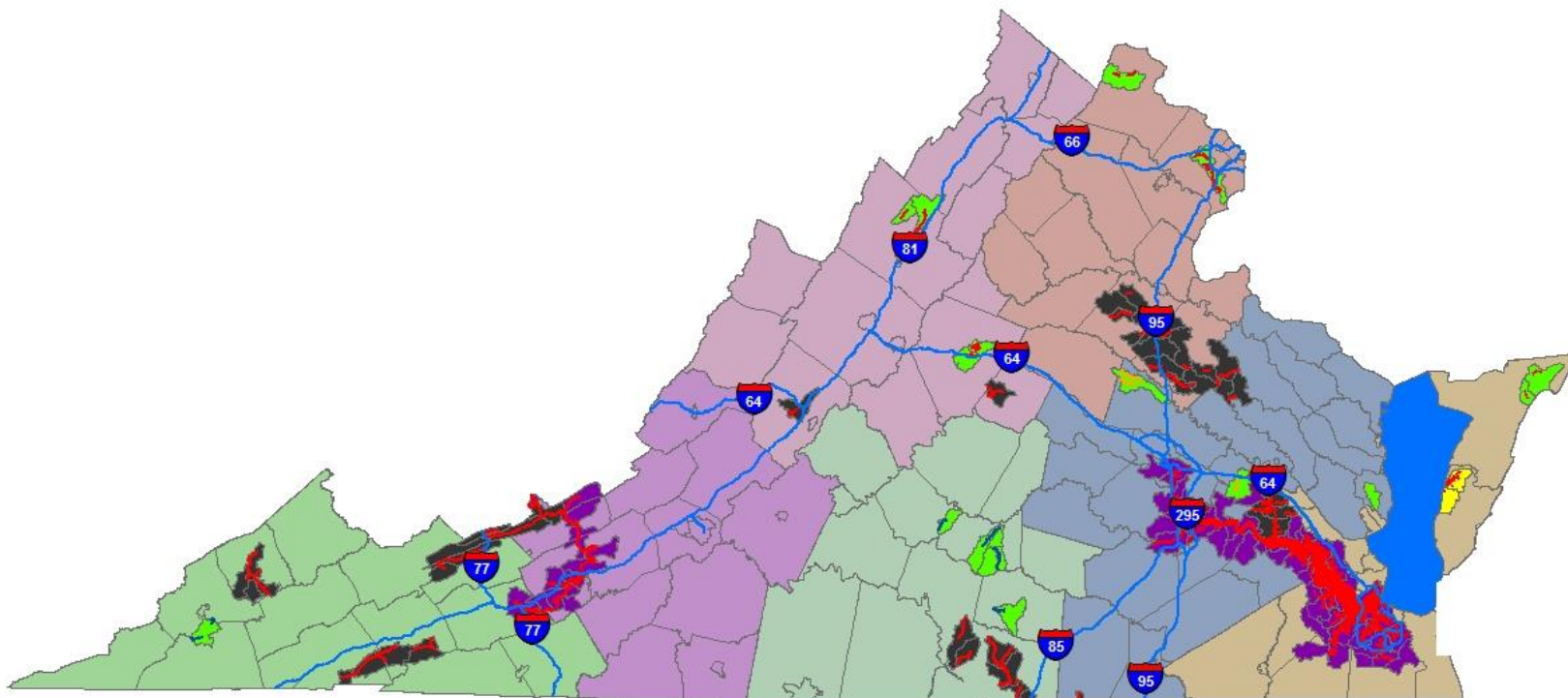
Plan Type





 Natural Conditions

 Stressor Analysis

 TMDL

Draft Map of Two Year Targets (2016-2017)*

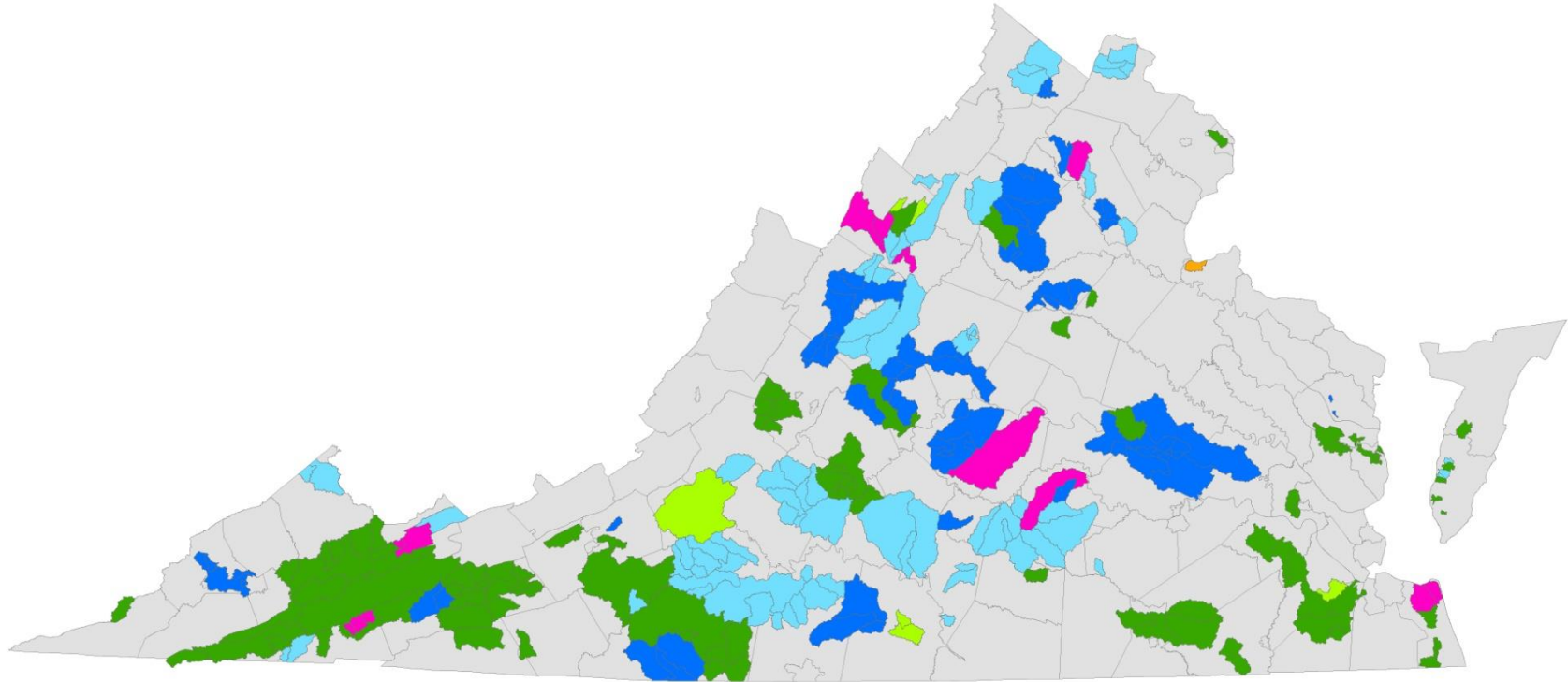



-  Shellfishing Use Priority HUCs - 3
-  Recreational Use Priority HUCs - 46
-  Aquatic Life Use Priority HUCs - 26
-  Fish Consumption Use (PCB) Priority HUCs - 63


Plan Type

-  Stressor Analysis
-  Natural Conditions
-  TMDL


NPS TMDL Implementation Status - Virginia




 Implementation Project Underway

 Implementation Project Closed

 Watershed Plan Complete

 Implementation Plan Underway

 Implementation Plan Complete


 Virginia Success Story





Photo by M. Smigo, PRO