



Virginia Aquatic Resources Trust Fund – Compensation Planning Framework

Karen johnson, June 19, 2013



Virginia Aquatic Resources Trust Fund

- Established by a 1995 Memorandum of Understanding (MOU), amended in 2003.
- New Program Instrument completed in 2011 to comply with the 2008 Federal Mitigation Rule.





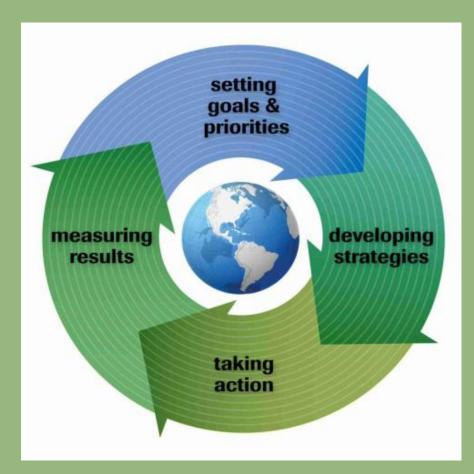




VARTF and TNC – Conservancy Focus

TNC approach to conservation

- Science based
 - Status of biodiversity
 - Habitat condition
 - Current and future threats
 - Socio-political conditions influencing conservation success
- Multiple scales
 - Ecoregional Assessments
 - Conservation Action Plans
- Result = statewide



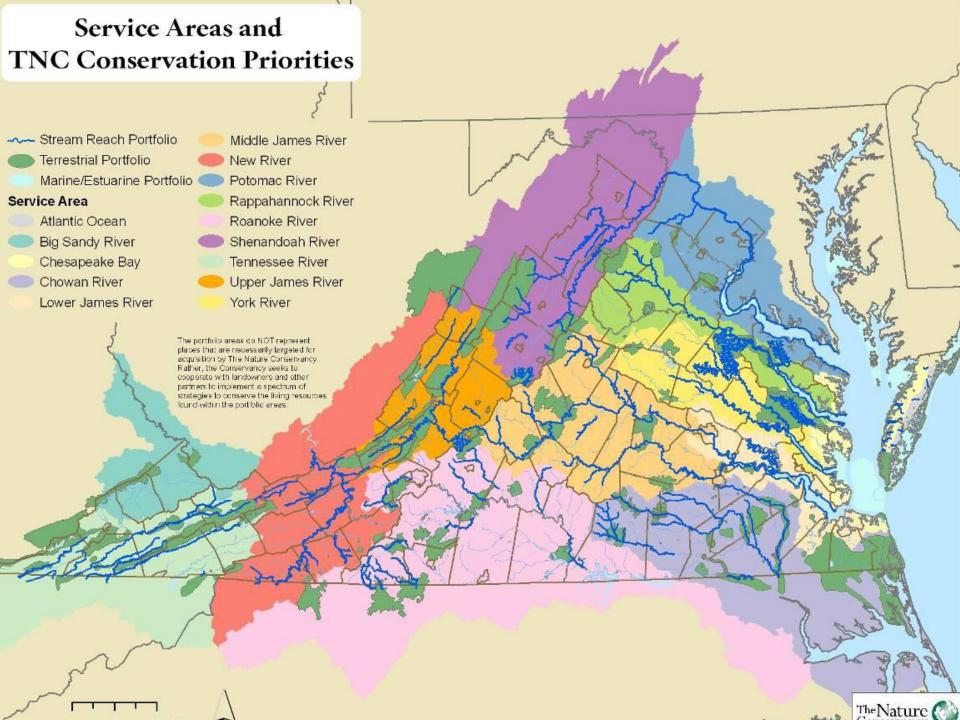
Conservation by Design



Conservation Priority Areas - Stakeholders

- Federal Agencies
- State Agencies
- Local Government
- Universities/Research
 Centers
- Industry
- Non-Governmental Organizations

Federal Agencies					
☐ Atlantic States Marine Fisheries Commission (ASMFC)					
□ Environmental Protection Agency (EPA)					
□ Department of Defense – U.S. Army, Fort A.P. Hill□ NASA					
☐ National Oceanic and Atmospheric Administration (NOAA)					
□ National Park Service (NPS)					
□ Natural Resources Conservation Service (NRCS)					
☐ U.S. Army Corps of Engineers (ACE)					
☐ U.S. Department of Agriculture Forest Service (USDA-FS)					
□ U.S. Geological Survey (USGS)					
☐ U.S. Naval Research Laboratory					
☐ U.S. Fish and Wildlife Service (USFWS)					
State Agencies					
☐ Virginia Department of Conservation and Recreation (VDCR)—					
Division of State Parks, Division of Natural Heritage and Division of					
Soil and Water Conservation					
☐ Virginia Department of Environment Quality (DEQ)					
☐ DEQ-Coastal Resources Management (DEQ-CRM)					
☐ Virginia Department of Game and Inland Fisheries (DGIF)					
□ Virginia Marine Resources Commission (VMRC)					
□ Virginia Department of Forestry (DOF)					
☐ Virginia Department of Agriculture and Consumer Affairs					
(VDACS)					
□ Virginia Department of Mines, Minerals and Energy (DMME)					
□ Virginia Outdoors Foundation (VOF)					
Universities/Research Centers					
☐ College of William and Mary, Center for Conservation Biology					
(CCB) and Virginia Institute for Marine Sciences (VIMS)					
□ Old Dominion University (ODU)					
☐ University of Virginia (UVA), Long-Term Ecological Research					
center					
☐ Utah State University (USU)					
□ Virginia Commonwealth University (VCU)					





Compensation Planning Framework - Conservancy Focus

Compensation Planning
Framework directs where we search for projects

Developed from TNC priority watersheds and landscapes in cooperation with scientists conservation partners, experts throughout the state

Existing priorities – formally identified in 2011 Instrument

THE NATURE CONSERVANCY'S WATERSHED APPROACH
TO COMPENSATION PLANNING
FOR THE VIRGINIA AQUATIC RESTORATION TRUST FUND





December 2009



Compensation Planning Framework – Plan Elements

Service Area 1. Atlantic Ocean

Service Area 2. Chesapeake Bay

Service Area 3. Chowan River

Service Area 4. Lower James River

Service Area 5. Middle James River

Service Area 6. Upper James River

Service Area 7. York River

Service Area 8. Potomac River

Service Area 9. Shenandoah River

Service Area 10. Rappahannock River

Service Area 11. New River

Service Area 12. Roanoke River

Service Area 13. Tennessee River

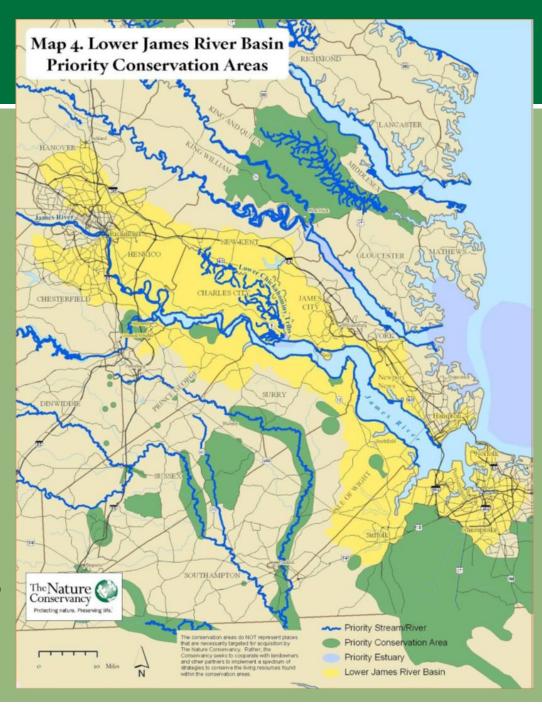
For each Service Area the plan provides:

- Description of Service Area
- Priority Conservation Areas Listing
- Conservation Targets
 Description
- Threat Assessment
- Priority Conservation
 Areas Map



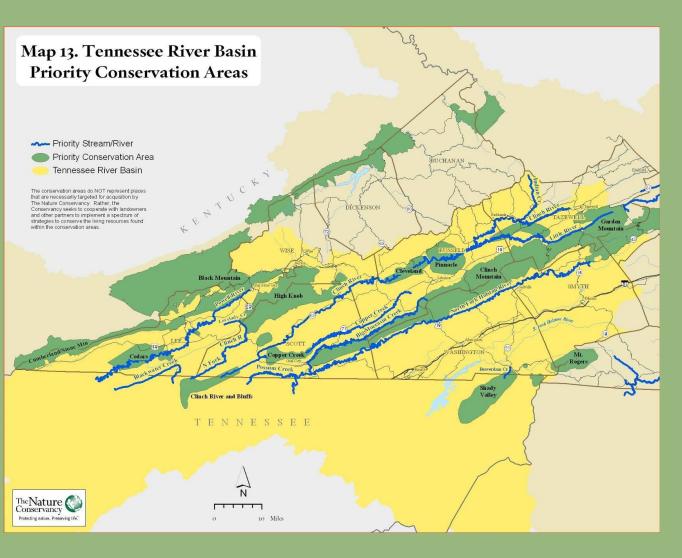
Threats

- Incompatible residential development
- Global climate change (sea level rise)
- Incompatible forestry practices (silviculture)
- Invasive and/or non-native fish and plant species
- Water Management
- Lack of fire
- Incompatible crop practices (inadequate BMPs)
- Structural impediments to fish passage (dams, clogged culverts, etc.)
- Conversion to agriculture (Active)





Compensation Planning - Threats



- Incompatible active and legacy mining practices
- Accidental toxic spills
- Incompatible oil and gas extraction
- Inadequate waste water treatment/manageme nt
- Energy transmission corridors
- · Acid deposition
- Global climate change (air temperature extremes)
 - Fire suppression

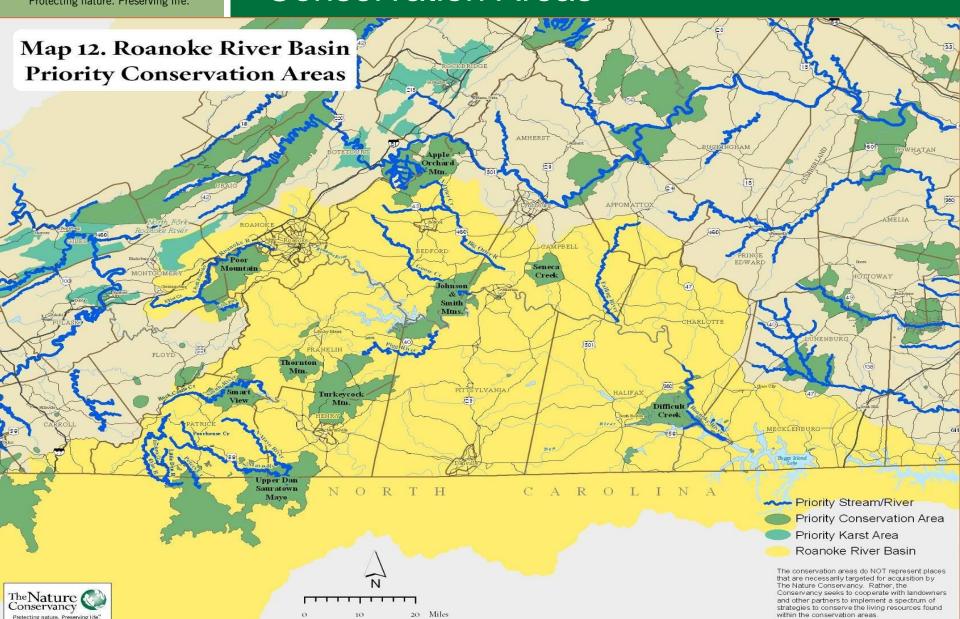


Priority Conservation Areas

			Stream
□Name	Type	Acres	Miles
Little Dan River	Aquatic Site		9.91
North Mayo River	Aquatic Site		26.09
North Otter Creek	Aquatic Site		9.01
Smith River	Aquatic Site		25.76
South Fork Roanoke River	Aquatic Site		17.34
South Mayo River	Aquatic Site		39.62
	Terrestrial Forest	21001	
Apple Orchard Mountain	Matrix Block	.6	
	Terrestrial Forest	36155	
Difficult Creek	Matrix Block	.9	
	Terrestrial Forest		
Forks Of The Meherrin	Matrix Block	0.6	
	Terrestrial Forest		
Johnson & Smith Mtns.	Matrix Block	59088	
	Terrestrial Forest		
Northern Blue Ridge Escarpment	Matrix Block	1111.1	



Roanoke River Priority Conservation Areas

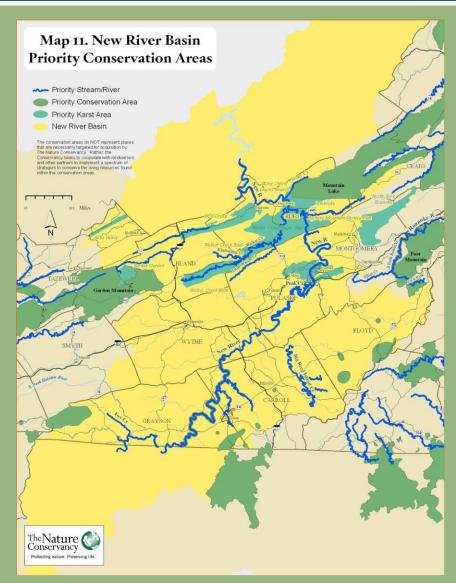




Compensation Planning Framework – Use

- -Identifies priority conservation areas
- -Does not identify individual sites
- -Directs mitigation to most ecologically



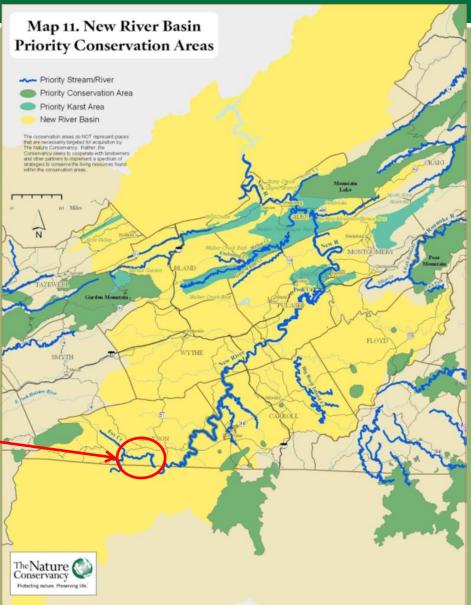




Compensation Planning Framework – Use

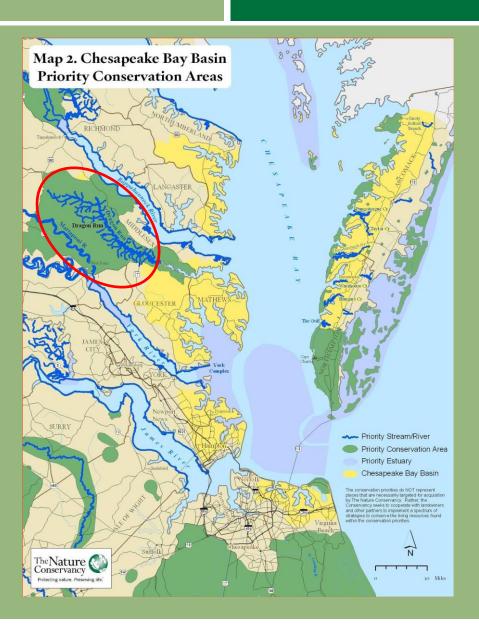
Site is located within or near priority area identified in VARTF Compensation Planning Framework



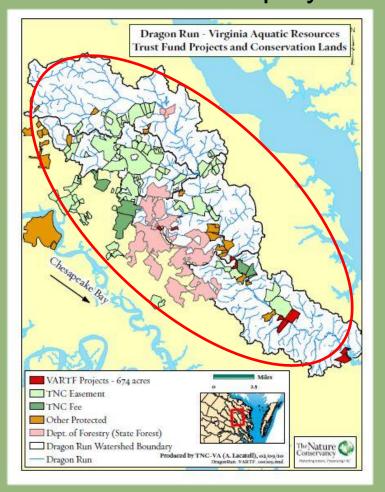




Compensation Planning Framework – Use



 Dragon Run - bottomland hardwood swamp system





Virginia Aquatic Resources Trust Fund

Questions?

www.nature.org/vartf

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