

Vienna Town Council Stormwater Management Program Update



April 18, 2016

Discussion Overview

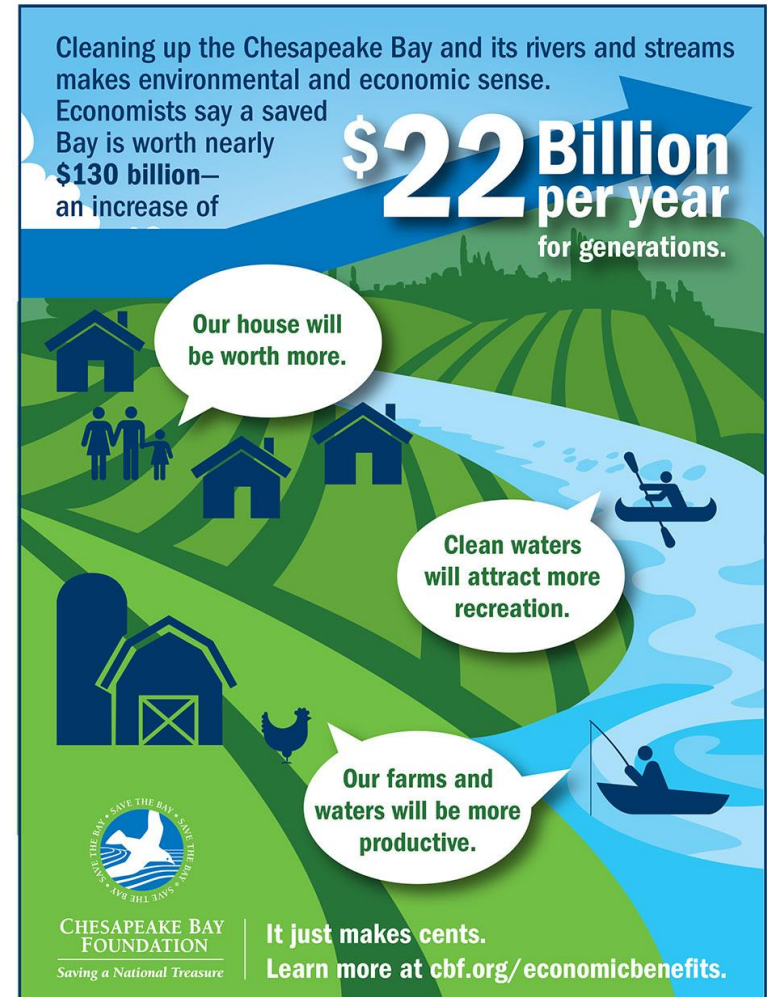
- **Last Year's Accomplishments**
 - Chesapeake Bay TMDL Action Plan Submittal
 - Other Highlights
- **New Issues for 2016**
 - Northside Property Yard Planning
 - Storm Sewer System Mapping
 - More TMDLs!
- **Action at the State and Federal Levels**
 - Impact of 2016 General Assembly
 - 2017 Chesapeake Bay TMDL Rebenchmarking
 - DEQ/EPA Audits

Why are we doing this?



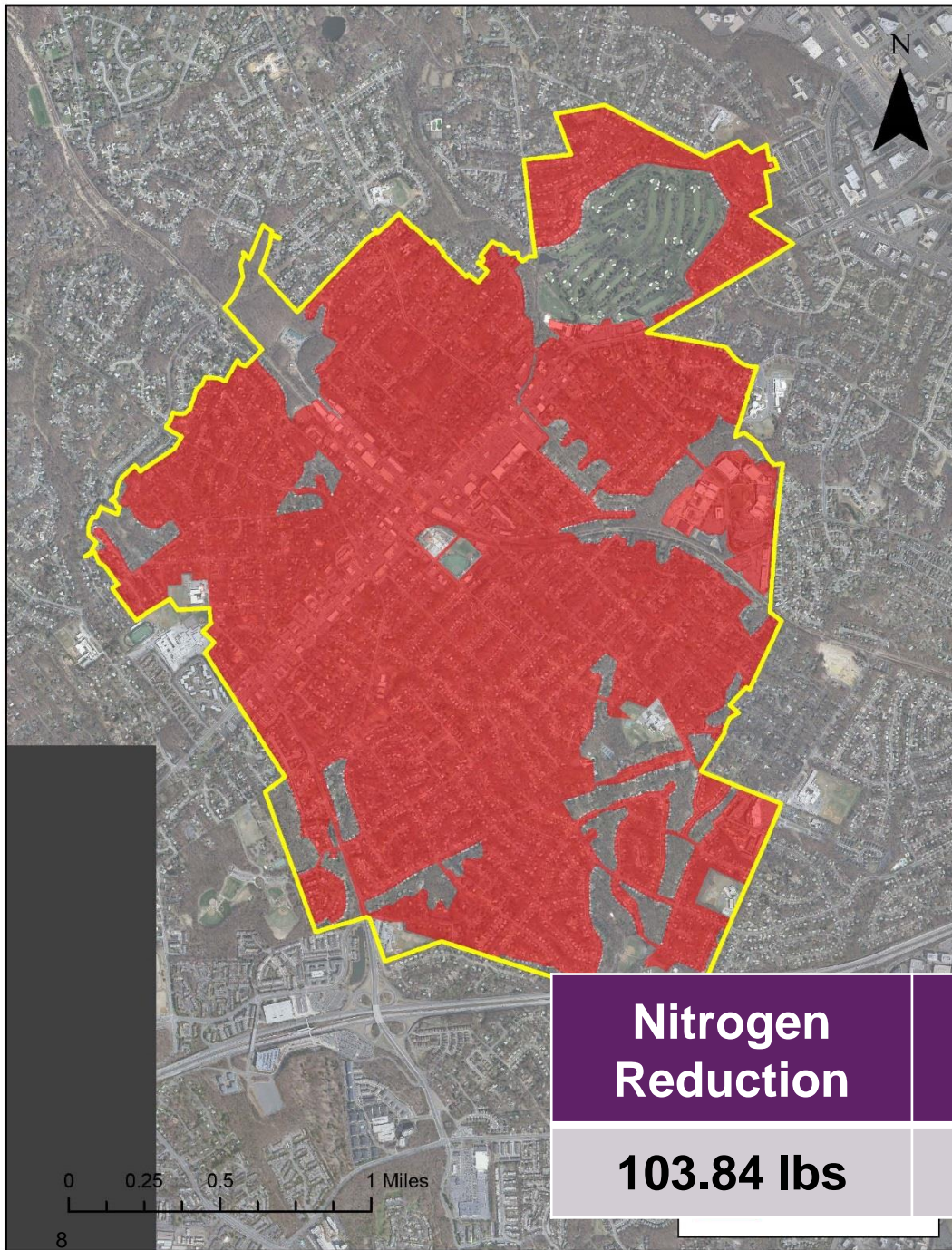


A restored Chesapeake Bay is worth \$22.5 billion a year more than the current economic worth!



Chesapeake Bay TMDL Action Plan

- **Submitted to DEQ on October 1st:**
 - Outlines the Town's plan to meet the first 5% of nutrient and sediment reductions by June 30, 2018
 - Next milestones: 40% by 2023 and 100% by 2028
- **Plan approved by DEQ on December 28th.**
- **Reductions achieved above 5% this cycle are applied to the next cycle.**



5% Reduction Targets

Nitrogen Reduction	Phosphorus Reduction	Sediment Reduction
103.84 lbs	12.54 lbs	10,523.40 lbs

Means and Methods to Achieve Compliance

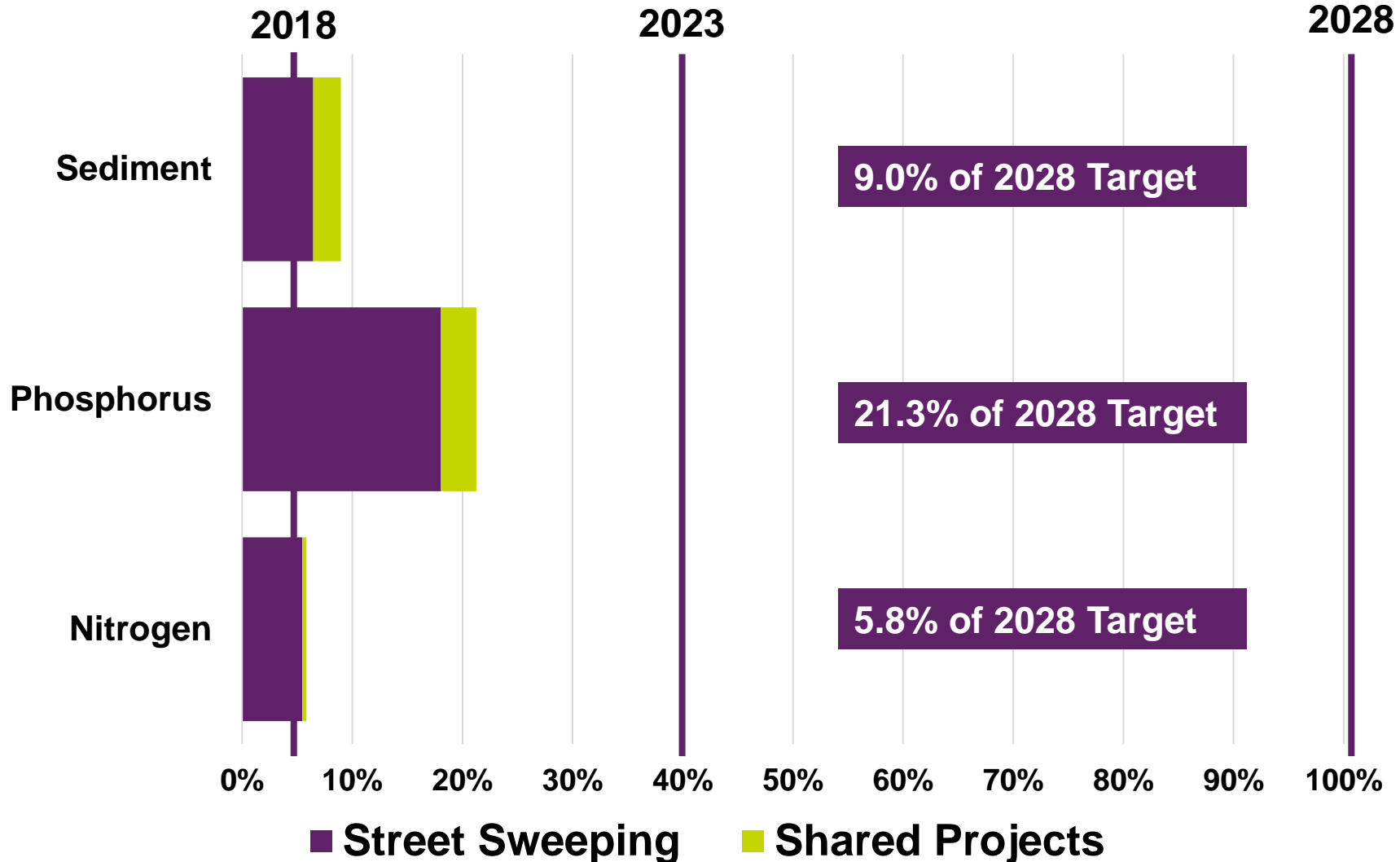
- **Street sweeping (~65,000 pounds of debris annually)**
- **Wolf Trap and Hunter's Branch stream restoration projects (credit shared with Fairfax County)**





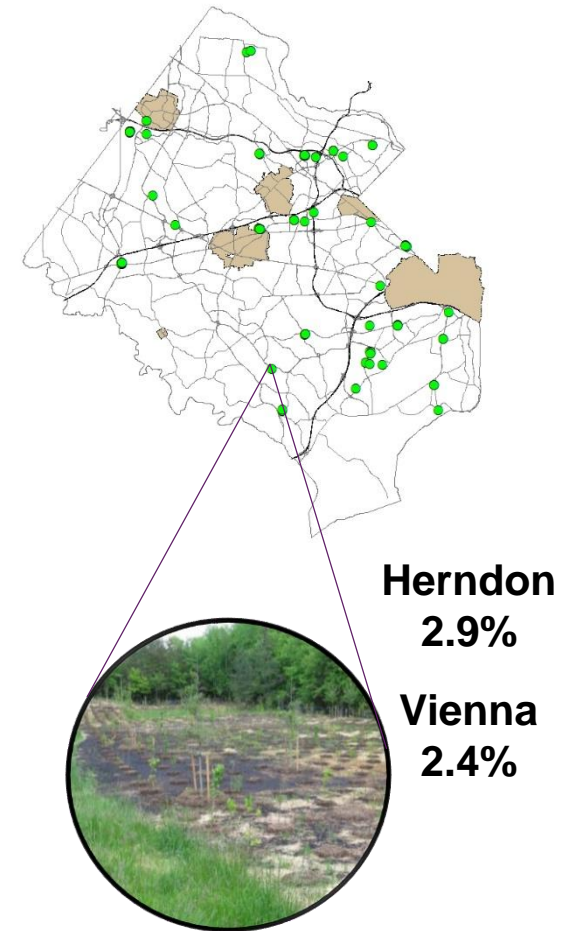
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Progress Toward 100% Compliance (2028)



Next Steps

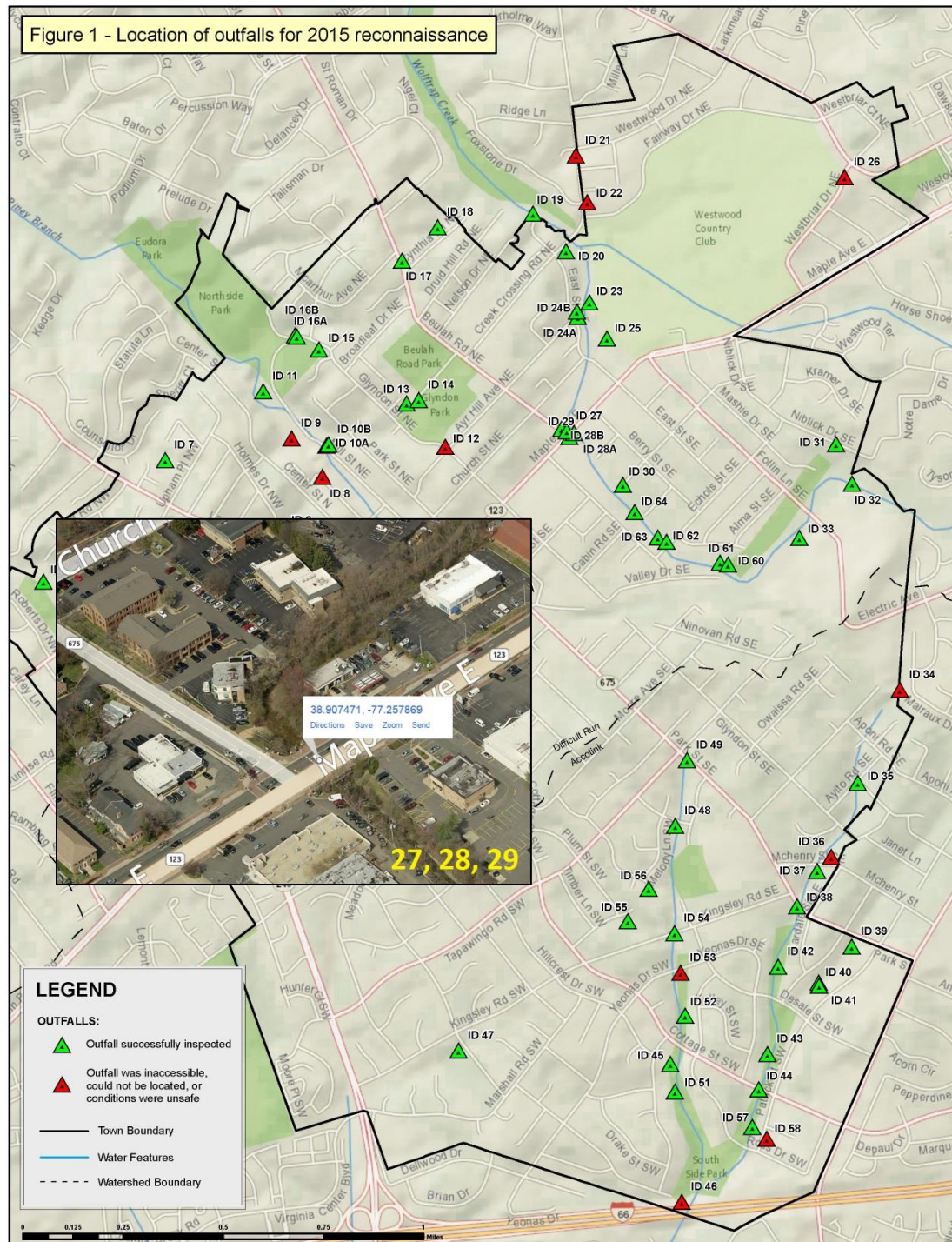
- **Joint Chesapeake Bay TMDL Action Plan with Fairfax County**
 - Provides Vienna 2.4% credit for stormwater fee projects located anywhere in Vienna, Herndon, or the County
 - Memorandum of Understanding needs to be updated to be retroactive to 2009
 - Plan must be submitted to DEQ by April 1, 2017 after approval by all three localities
- **Additional Vienna-Only Credit**
 - More stringent regulation of new single family homes
 - Future redevelopment



Other 2015 Highlights

- **New Education and Outreach Targets**
 - Messages in water bills – last year's focus was fertilizers
 - Direct mail to Fairfax County dog license holders
 - NVRC Clean Water Partners – 4.8 million total household TV impressions
- **Stormwater Outfall Inspections**
 - Over 50 outfalls inspected
- **Municipal Good Housekeeping**
 - Six new standard operating procedures developed
 - Northside Property Yard Stormwater Pollution Prevention Plan
 - Staff training on identification of illicit discharges
- **Other TMDLs**
 - PCB TMDL Action Plan

Figure 1 - Location of outfalls for 2015 reconnaissance



Vienna Outfall Recon - ID 1

Section 1: General Information

Watershed: Difficult Run

Outfall ID: 1

Date: 06/23/2015

Time: 10:46:09 AM GMT-04:00

Investigator #1 Name: Charlie Devine

Investigator #2 Name: Sean Mowery

Form Completed By: Charlie Devine

Temperature (°F): 90

Rainfall (in.) Last 24 hours: 0.0

Rainfall (in.) Last 48 hours: 0.0

Lat/Long (see map at end of report):

Latitude (degrees): 38.90234
 Longitude (degrees): -77.282301
 Altitude (meters): 118.4 meters
 Accuracy (meters): 5.0 meters

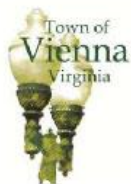
Image Capture

Image	Add Caption (if applicable)
	

Land Use

Land Use in Drainage Area (check all that apply):

☒ Suburban Residential



Town of Vienna
Northside Property Yard
 Stormwater Pollution Prevention Plan

Developed for compliance with the Town of Vienna Municipal Separate Storm Sewer System
 General Permit No. VAR040066

To: Town of Vienna
From: Amec Foster Wheeler Environment & Infrastructure, Inc.
Date: July 31, 2015

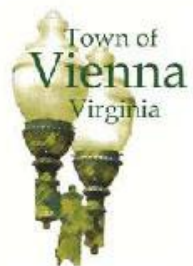
FORM 2



Town of Vienna Quarterly Inspection Checklist

Date:	Building/Area:	Inspector:
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1. Good Housekeeping Procedures	Yes	No	N/A	Observations/Required Actions
Are work areas and floors clean and dry?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are brooms, dust pans, and mops easily on hand for easy access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have all areas been inspected for visible leaks or potential discharges of significant materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are containment areas in good condition, with valves closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are dumpsters closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the site free of litter and debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are catch basins and other inlets to the storm drain system free from trash?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Materials Handling and Storage	Yes	No	N/A	Observations/Required Actions
Is there adequate aisle space and organization in all storage areas so that any corrosion or leaks can be detected early?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have proper security measures been taken for storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are all containers labeled with contents on the appropriate label?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are Safety Data Sheets available for all chemical substances?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are all containers that are not in use closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are containers stored indoors and away from entrances whenever practical?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Town of Vienna

Polychlorinated Biphenyl (PCB) TMDL Action Plan

Prepared in compliance with General Permit No. VAR040066

Final

July 15, 2015

Department of Public Works
127 Center Street, South
Vienna, Virginia 22180



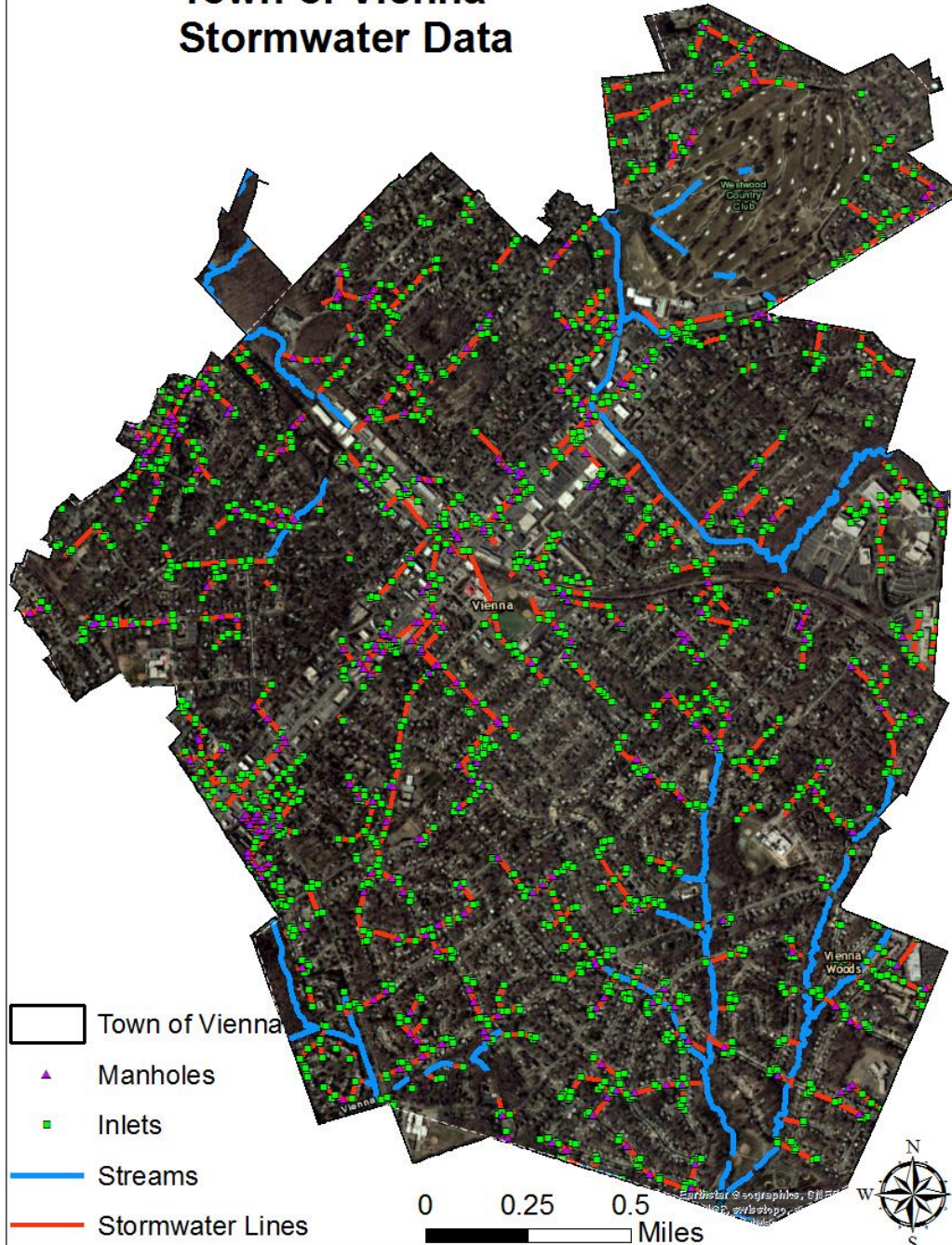
New for 2016

Northside Property Yard Conceptual Improvements

- **Salt Loading and Unloading Activities**
- **Deicer Tank Secondary Containment**
- **Uncontrolled Runoff from Material Stockpiles**
- **Outdoor Equipment and Parts Storage**
- **Enhance Piney Branch Buffer**



Town of Vienna Stormwater Data



Storm Sewer System Mapping

Even More TMDL Action Plans!

- **Due by June 30, 2016**
 - Sediment TMDL for Difficult Run
 - Fecal Coliform Bacteria TMDL for Difficult Run
- **Due by April 1, 2017**
 - Fecal Coliform Bacteria TMDL for Accotink Creek
 - Joint effort with Fairfax County as the lead

Action at the State and Federal Levels

State Legislative Action

- **2016 General Assembly**
 - Virginia Erosion and Stormwater Management Program (HB1250)
 - Consolidates Erosion and Sediment Control and Stormwater Management programs
 - Impacts on localities:
 - Exemptions
 - Enforcement
 - Local program fees
 - Trading and credits
 - May require ordinance or program modifications after adoption of new regulations by DEQ
 - Stormwater Local Assistance Fund (SLAF)
 - \$20 million over next two years



Chesapeake Bay TMDL Rebenchmarking

- **Assessment of 2017 restoration progress**
- **Overall target is 60% of total reductions (includes agriculture and wastewater sources)**
- **Two key questions:**
 - Are our strategies working?
 - Are the overall targets for nitrogen, phosphorus, and sediment still accurate?
- **Will result in new Virginia Watershed Implementation Plan (WIP) in late 2017; possibly an updated TMDL in 2018**
- **Changes in strategies/targets will be reflected in new MS4 permit issued to the Town in 2018**

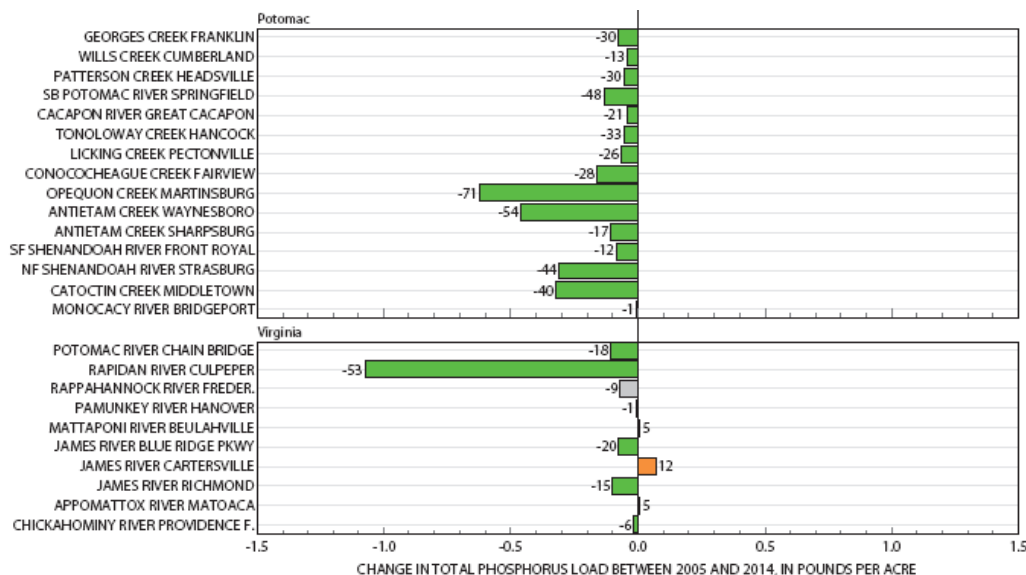
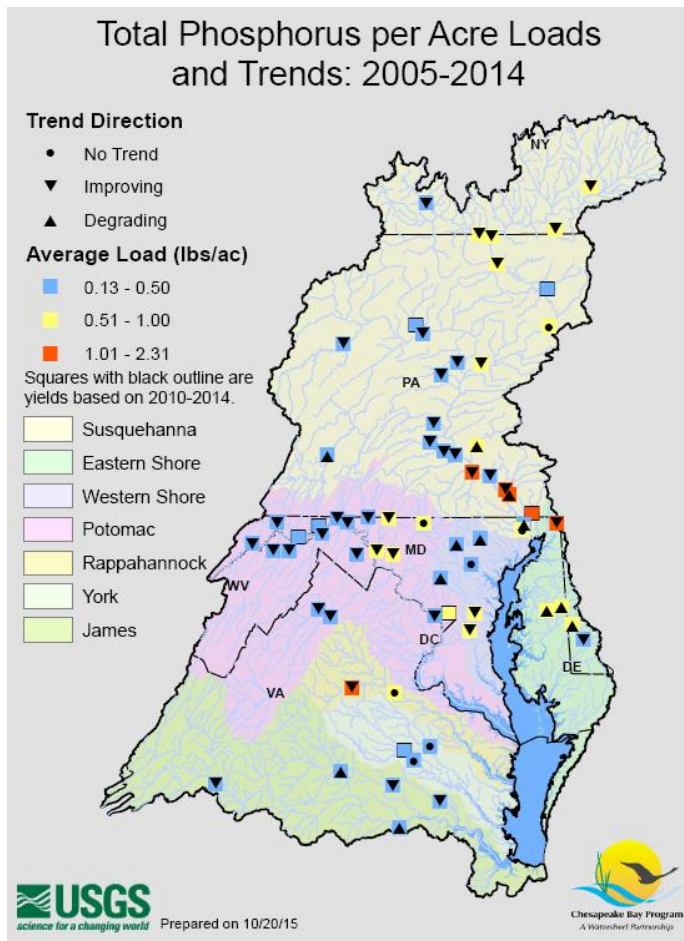
DEQ/EPA Local Government Audits

- **EPA audits are ramping up:**
 - 20 audits in EPA Region III in FY14
 - 14 audits in FY15
 - Already audited – Fairfax County, George Mason University, Fairfax County Public Schools
- **Two day process:**
 - Review of plans, policies, and documentation
 - Field visits and demonstrations
- **Primary enforcement areas:**
 - Lack of SWPPPs, good housekeeping plans, and employee training
 - Lack of compliance by municipal construction projects
 - Lack of system awareness
 - Lack of follow up on suspected illicit discharges
 - Lack of stormwater facility maintenance



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We are making a difference!



Change in Phosphorus Loads – Potomac River and Virginia Watersheds 2005 to 2014

Questions?

