

Chesapeake Bay Total Maximum Daily Load (TMDL) Phase 3 Action Plan



Overview



- 1. Background Information
- 2. FY2024 Compliance Update
- 3. Permit Requirements & City Reductions
- 4. Phase 3 Action Plan
- 5. Recommendations



Background Information

- ► Chesapeake Bay TMDL "pollution diet" established by the Environmental Protection Agency (EPA) in 2010.
- Community Benefits: Reducing stormwater pollution benefits local waterways, the Potomac River, and the Chesapeake Bay.
- ► History of Compliance: Phase 1 Action Plan (2013 2018) approved January 2016; Phase 2 Action Plan (2018 – 2023) approved July 2021.
- ▶ Phase 3 Action Plan (FY2023 FY2028) for 100% compliance due to Virginia Department of Environmental Quality (VDEQ) Nov. 1, 2024.
 - Comment solicited, and feedback incorporated.



Background Information

City of Alexandria's

Municipal Separate Storm Sewer System (MS4) Permit Chesapeake Bay TMDL Pollution Reduction Requirements

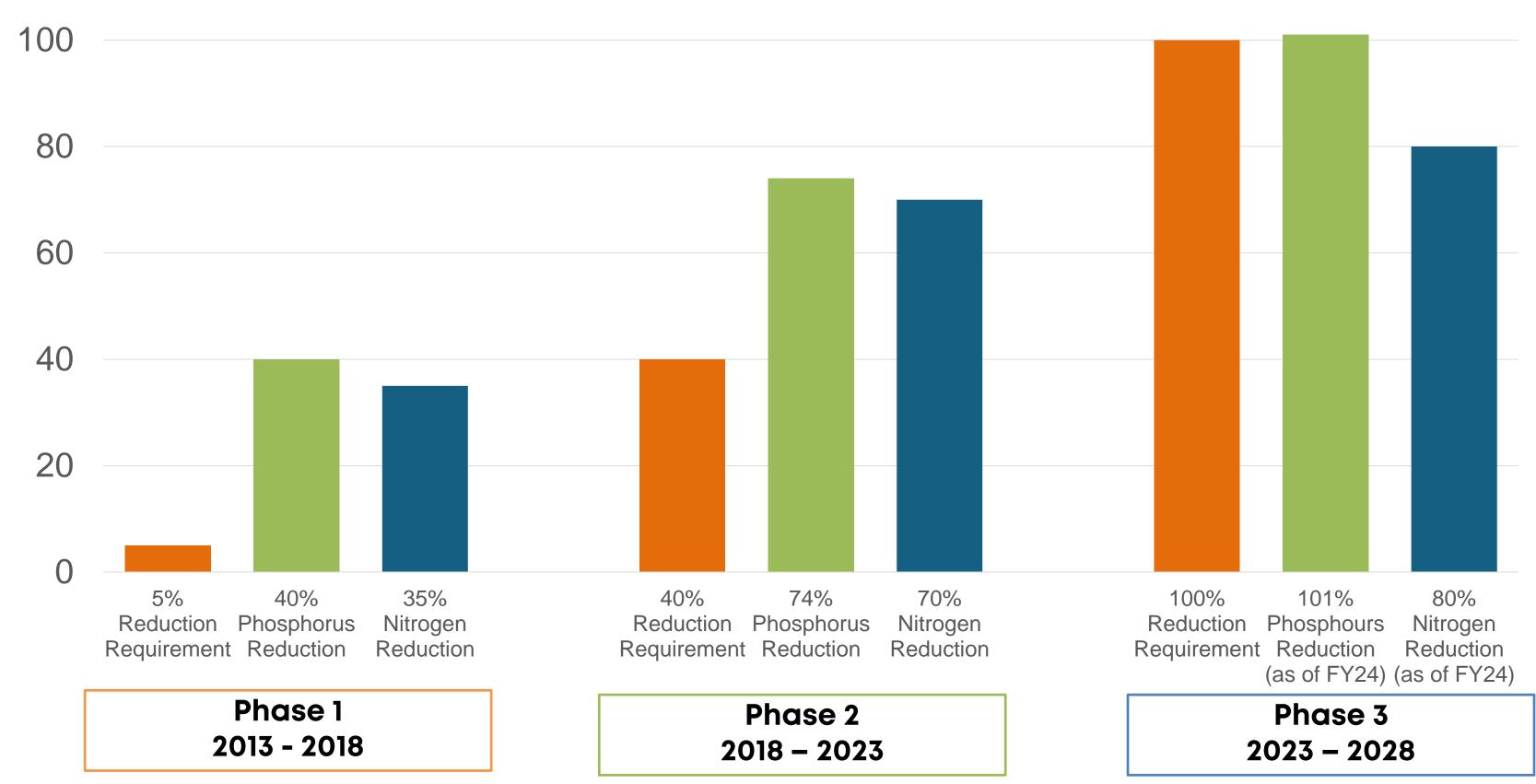
Pollutant	Nitrogen	Phosphorus	Sediment
Required Reduction (lbs/yr)	7,597.03	1,004.40	861,936.64

Three 5-Year MS4 Permit Cycles to Achieve Reductions (2013 – 2028)



Permit Requirements & City Reductions

Cumulative Progress (%)



Permit Requirements & City Reductions



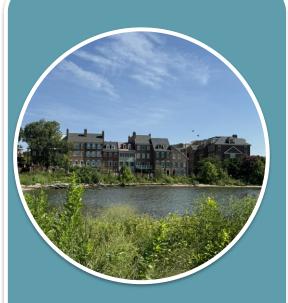
Phase 1
Lake Cook
Retrofit
2018



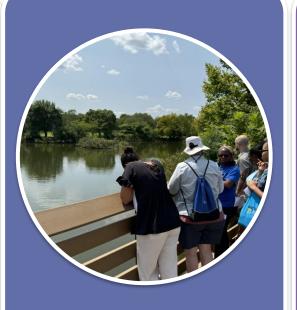
Phase 1
Eisenhower
Pond
2015



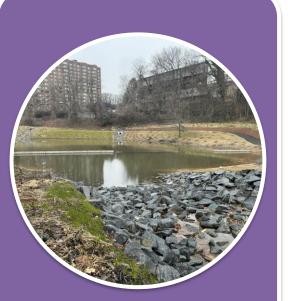
Phase 1
Four Mile Run
Wetland
Restoration
2016



Phase 1
Windmill Hill
Living
Shoreline
2018



Phase 2
Ben Brenman
Pond Retrofit
2020



Phase 3
Lucky Run
Stream
Restoration
2024



Phase 3 Action Plan



Outreach:

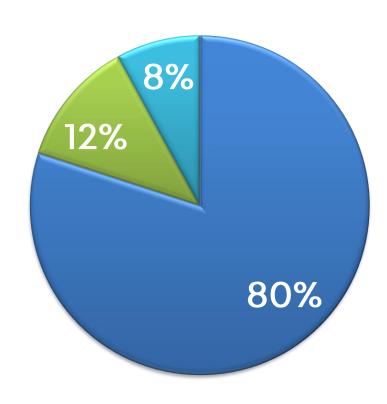
- Notice.
- Public comment period August
 September 2024.
- Presentation to the Environmental Policy Commission.
- Feedback incorporated.
- Phase 3 progress tracked annually with MS4 Annual Report.



Phase 3 Action Plan

- Strategies for 100% Compliance by 2028:
 - Redevelopment SWM Facilities
 - E.g., Landmark, N. Potomac Yard
 - Lucky Run Stream Restoration
 - Green Infrastructure
 - Outfall Rehabilitation
 - AlexRenew Nutrient Bi-Lateral Trading





- Nitrogen Removed Through FY24
- Nitrogen Removed with Development BMPs (FY25-FY28)*
- Remaining



Recommendation That City Council:

- 1. Approve the submission of the Phase 3 Chesapeake Bay TMDL 100% Action Plan; and
- 2. Authorize the City Manager to execute the necessary documents that may be required.

