CHESAPEAKE BAY COMMISSION

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MEMORANDUM

TO: Maryland Delegation of the Chesapeake Bay Commission

April 19, 2019 DATE:

FROM: Mark Hoffman, Maryland Director

RE: Maryland's Draft Phase III Chesapeake Bay Watershed Implementation Plan

Last Friday, April 12th, the Administration released Maryland's Draft Phase III Chesapeake Bay Watershed Implementation Plan. This document, which is open for public comment until June 7th, details the approach the State will take to achieve the pollution-load reductions needed to bring Maryland into compliance with the TMDL by 2025. Given that this 199-page document will receive considerable public and media scrutiny over the next 45 days, this summary is intended to provide Delegation members an overview of the plan. During the delegation meeting in May, we will review the plan with representatives from MDE, DNR and MDA.

For the sake of simplicity this summary focuses on Nitrogen (N) reductions.

The needed reductions:

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The Task: Maryland's Nitrogen Loads (millions of pounds/year)		
2017 Actual Load	54.2	
2025 Target	45.8	
Reduction Needed	8.4	
Planned Reductions in Phase III WIP	9.2	

Maryland is adopting a "feasibility approach" to achieve the 2025 goals, relying on those reductions that are most practical. This means Maryland recognizes that accelerated progress in both the wastewater and agricultural sectors will be largely responsible for achieving its 2025 restoration targets. Projected changes by sectors are as follows:

Nitrogen	2017 Actual	2025	Change in Load	
Source Sector	Loads	Target		
	(M lbs/yr)	(M lbs/yr)	(M lbs/yr)	(percent)
Agriculture	22.4	18.0	-4.4	-20%
Natural	8.1	8.1	0.0	0%
Septic	3.1	3.1	0.0	1%
Stormwater	9.4	9.2	-0.2	-2%
Wastewater	11.3	6.5	-4.8	-41%
Total	54.2	45.0	-9.2	-17%

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• Maryland outlines a set of 26 "key pollution reduction strategies" among the five major source sectors as follows (note: some of these are actions, like cover crops, are already being done and hence don't contribute to additive reductions):

Sector	BMP Description	Lbs. N Reduced	An	nual Costs
Agriculture	Conservation Technical Assistance (1	1.1 million/year	\$	13,817,000
	million acres of Conservation Plans +			
	Design & Oversight of all BMPs			
	implementation)			
	Nutrient Management Compliance	1.6 million/year	\$	3,100,000
	Cover Crops (470,000 acres planted	2.3 million/year	\$	25,500,000
	annually)			
	Manure Transport (100,000 tons	228,000/year	\$	2,000,000
	transported annually)			
	Verification of existing BMPs	87,500/year	\$	500,000
	Implementation of Additional BMPs (The	652,000	\$	9,275,000
	Maryland Agricultural Water Quality Cost-			
	Share (MACS) Program)			
Natural	Upland Tree Planting and Streamside	8,000	\$	1,683,920
Lands	Forest Buffers (1,150 acres)			
	Wetland Restoration (175 acres)	600	\$	125,000
	Stream Restoration (6 miles)	2,500	\$	3,172,520
	Shoreline Management (Living Shoreline	150	\$	257,140
	Technique) (3,000 ln ft)			
	Oyster Aquaculture (350,000 bushels)	10,000	\$	2,500,000
Septic	Best Available Technology (BAT) Upgrades	40,000	\$	10,100,327
	(Based on roughly 920 BAT unit upgrades)			
	Connection to Wastewater Treatment	16,800	\$	1,296,899
	Plants (WWTP) (Based on roughly 1,600			
	sewer connections)			
	Pumping (Not available until Septic	-	ТВ	D - Septic
	Stewardship Plans developed by 2021)		Ste	wardship
Stormwater	Complete current Phase 1 Municipal	85,000	\$	40,000,000
	Separate Storm Sewer (MS4) permits			
	restoration requirement (completion			
	dates: 2018 and 2019) Approximately			
	20,000 impervious acres			
	Complete new Phase 1 MS4 restoration	90,000	\$	40,000,000
	requirement (completion dates: 2023 and			
	2024) Approximately 17,500 impervious			
	acres			

	Complete Current Phase 2 MS4 restoration	15,000	\$ 5,000,000	
	requirement (completion date: 2025)	,		
	Approximately 3,000 impervious acres			
	Miscellaneous implementation on non-	5,000	\$ 5,000,000	
	MS4 counties (i.e. trading, trust fund)			
	Approximately 400 impervious acres			
Wastewater	Complete Bay Restoration Fund (BRF)-	4,000,000	Fully Funded	
	Funded Enhanced Nutrient Removal (ENR)		Pre-WIP III	
	upgrades to 67 significant municipal wastewater plants			
	Continue funding ENR upgrades for non- significant municipal plants through the BRF (11 additional plants by 2025, for a	25,000	\$ 50,000,000	
	total of 16)			
	Provide Operations and Management	425,000	\$ 10,000,000	
	(O&M) Grant through the BRF for facilities	5,555	φ =5,555,555	
	achieving nitrogen discharge			
	concentrations of 3.0 mg/L			
	Incentivize higher treatment levels (beyond	No estimate	\$ 10,000,000	
	3.0 mg/L of nitrogen) through water quality			
	trading and the Clean Water Commerce			
	Act (through 2021)			
	Complete upgrades to federal significant	3,000	No state costs	
	municipal plant			
	Continue minor industrial reductions	No estimate	No state costs	
	Maintain achievement of significant	No planned	No state costs	
	industrial Waste Load Allocations	additional		
		reductions		
	Implement sewer projects to address	20,000	\$ 40,000,000	
	combined sewer overflows (CSOs), sanitary sewer overflows (SSOs) and inflow and			
	infiltration (I/I)			

- Based on the modeling outputs, it is projected that Maryland will remain below its N target until 2047.
- The annual costs to the state is \$273 million/year. This does not include the estimated \$1.6 billion that will be spent by local governments to achieve their MS-4 permit obligations.
- The WIP states that no new state-based fees or taxes are required moving forward if Maryland: (1) uses over-achievement by wastewater treatment plants while stormwater and septic sectors build capacity; (2) continues effective and consistent enforcement of existing environmental regulations; and (3) continues to fully fund state Chesapeake Bay

- grant programs (e.g., 2010 Trust Fund, Bay Restoration Fund) and directs these resources in the most cost-effective manner possible.
- The WIP details issues challenging achievement of Chesapeake Bay restoration climate change, population growth beyond 2025, Conowingo Dam and Local Implementation and offers strategies to address each of these issues.
- The WIP summarizes State engagement with local governments in the development of the plan and their critical role in implementation.
- The WIP states that "to sustain Chesapeake Bay restoration over the long term and accommodate projected growth, Maryland will need to implement an adaptive growth policy through the accountability and adaptive management framework that regularly revisits sector-loading trends and provides sufficient offsets to stay under the state's pollution reduction targets."
- The WIP does not specifically identify any new legislative or regulatory proposals. In Appendix D, in discussing protection strategies for water quality and aquatic resource protection, there is a recommendation identify new or modifications of existing legislation, regulations, policy or ordinances to address protection gaps.

Additional Information

Maryland's complete Draft Phase III Chesapeake Bay Watershed Implementation Plan, as well as details on how to submit comments, can be found online at: Maryland's Phase III WIP.