

# Approaching 2017



## **Chesapeake Bay TMDL Milestones, Progress, Mid-point Assessment**

Potomac Roundtable  
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# Mid-Point Assessment

## **Phase 6 Model Development**

- New Land Cover Classes and Data
- Conowingo Infill
- Climate Change

## **BMP Updates**

- Agricultural Nutrient Management
- Manure Technologies
- Cropland Irrigation Management
- Oyster Restoration/Aquaculture
- Urban Tree Planting/Expanded Tree Canopy

## **2017 60% Target**

- Evaluated using 2017 progress in current model

## **Watershed Implementation Plan 3**

- Expectations, local planning targets and schedule still being developed

# Current Re-evaluation Schedule

All Phase 6 data inputs **September 30, 2016**

Rolling local review of the Phase 6 land use data 2016 ***October-early Nov 2016***

Final Phase 6 land use dataset due **December 1, 2016**

EPA releases draft 3 expectations for Phase III WIPs **January 2017**

Final calibration of Phase 6 Model **January – March 2017**

**Final recommendations on approaches for local area targets March 2017**

Partnership fatal-flaw review of final Phase 6 Model **March-May 2017**

**EPA releases final expectations for Phase III WIPs April 2017**

**Release of final Phase 6 Model June 2017**

EPA releases draft Phase III WIP Planning Targets **June 2017**

**EPA releases final Phase III WIP Planning Targets December 2017**

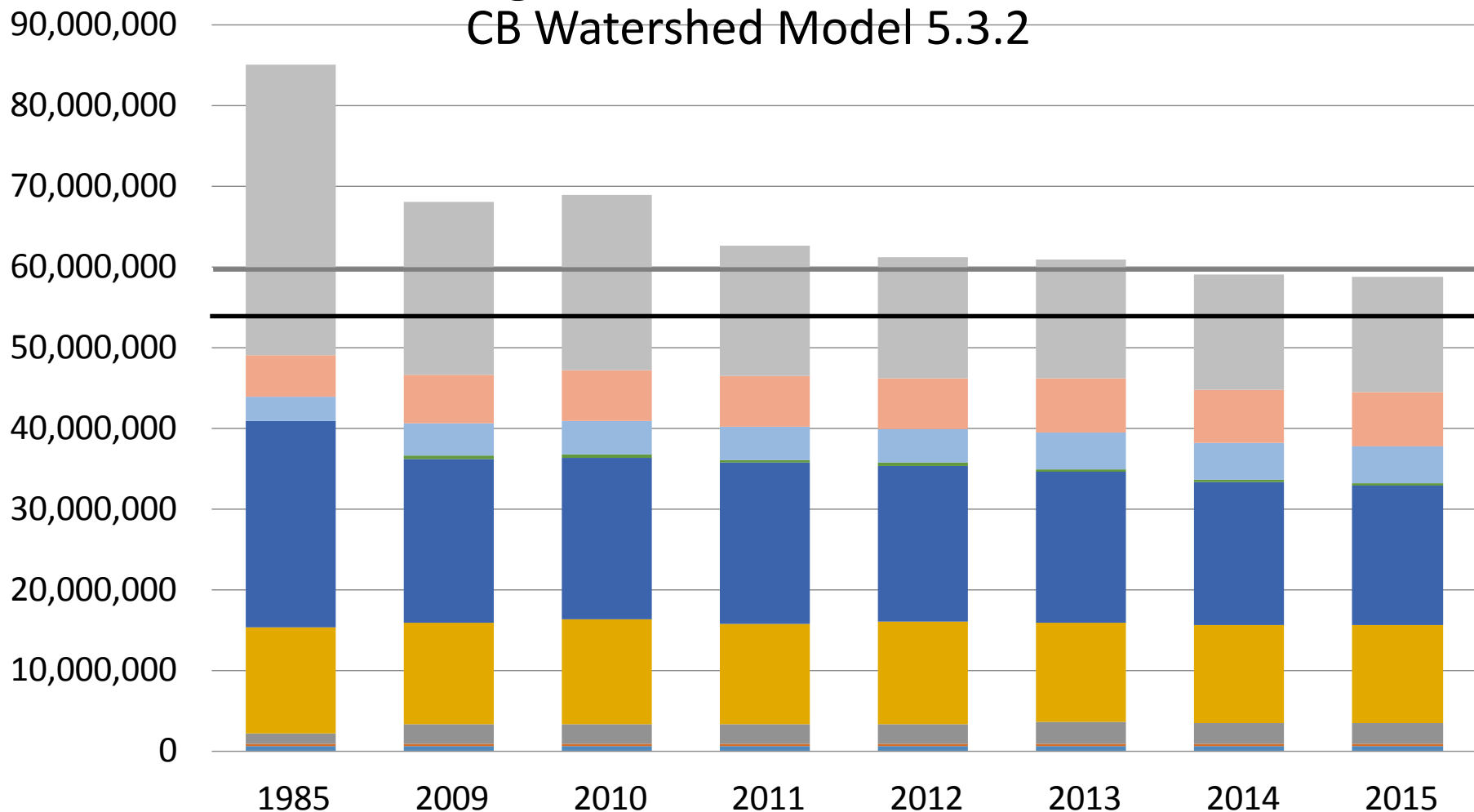
Draft Phase III WIPs due to EPA **August 2018**

EPA feedback on draft Phase III WIPs **October 2018**

**Final Phase III WIPs due to EPA December 2018**

# Virginia Delivered Nitrogen Loads (lbs/year)

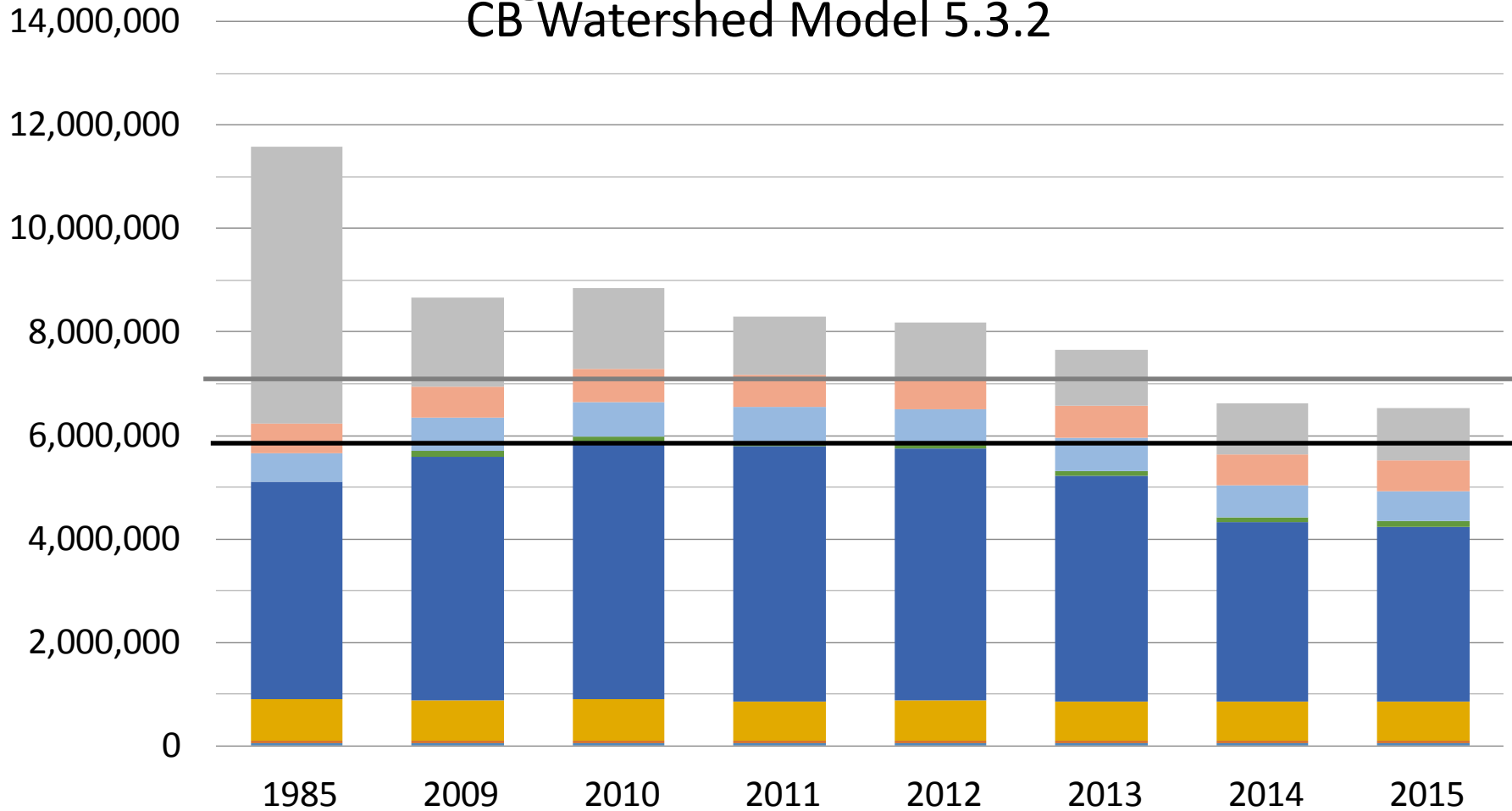
CB Watershed Model 5.3.2



- Non-Tidal Water Deposition
- Forest
- NonRegulatedStormwater
- WasteWater-CSO
- Agriculture
- RegulatedStormwater
- Septic
- Agriculture\_Regulated
- PS

# Virginia Delivered Phosphorus Loads (lbs/year)

CB Watershed Model 5.3.2



Non-Tidal Water Deposition

WasteWater-CSO

Septic

Forest

Agriculture

Agriculture\_Regulated

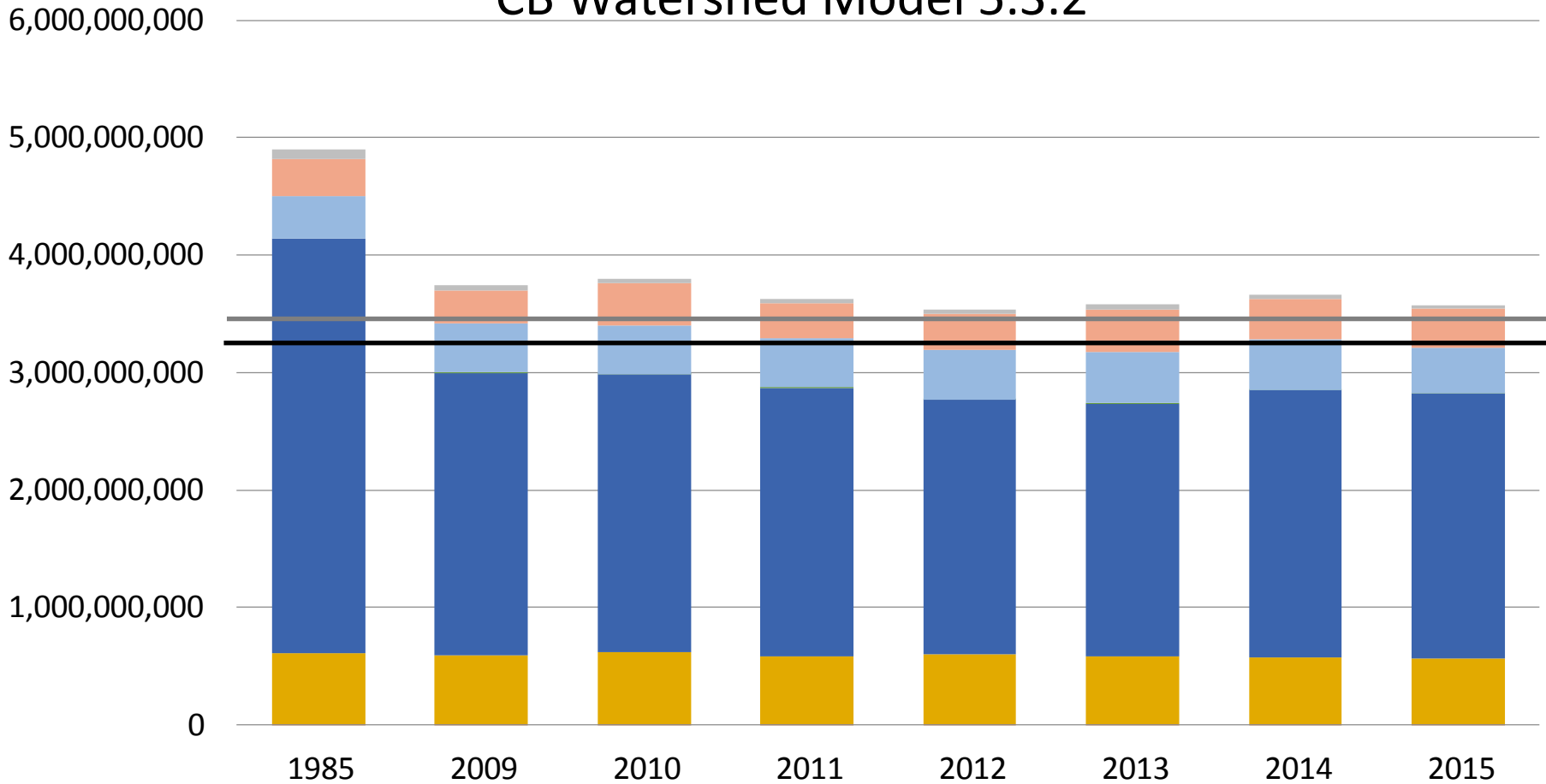
NonRegulatedStormwater

RegulatedStormwater

PS

# Virginia Delivered Sediment Loads (lbs/year)

CB Watershed Model 5.3.2



Non-Tidal Water Deposition

WasteWater-CSO

Septic

Forest

Agriculture

Agriculture\_Regulated

NonRegulatedStormwater

RegulatedStormwater

PS

# 2016-2017 Milestones Highlights

## **AGRICULTURE**

- Continue Implementation of 100% livestock exclusion cost share
- Develop Resource Management Plans (RMPs) on at least 10,000 acres each year
- Continue production of Needs Assessment
- Increase number of nutrient management plans on small dairies

## **STORMWATER**

- Hampton Roads Phase I MS4 permits
- Roll out the new Virginia Conservation Assistance Program (VCAP) for residential scale best management practices and associated tracking systems
- Complete development of fertilizer sales data tracking system
- Begin reissuance of Phase 2 MS4 general permit
- Begin reissuance of Construction General Permit

## **OTHER PROGRAMS**

- Promulgate nonpoint source nutrient credit certification regulations
- Implement 1-meter resolution land cover data and implement
- Develop a strategy for engaging local governments in the final phase of restoration planning
- Verification program implementation

# Status of Livestock Stream Exclusion

- **As of April 29, 2016**
- **Approved (expended/obligated) \$60.6M**
  - ChesBay \$36.2M
  - Includes \$3.4M from Bay Grants
  - Outside ChesBay/So. Rivers \$24.4M
- **Benefits in Chesapeake Bay from \$24.8M in completed practices so far**
  - ~2.9M linear feet of stream bank protected
  - ~35,000 animal units excluded





## Reductions from SL-6 Initiative

- **Estimated 2025 WIP benefit of \$63.2 M of SL-6 in Chesapeake Bay**
- **Gain 34% of the ag. Nitrogen gap**
- **Gain 13.6% of the ag. Sediment gap**
- **Plus considerable bacteria reductions to help local TMDLs**

# Total BMP Funding 1998-2015

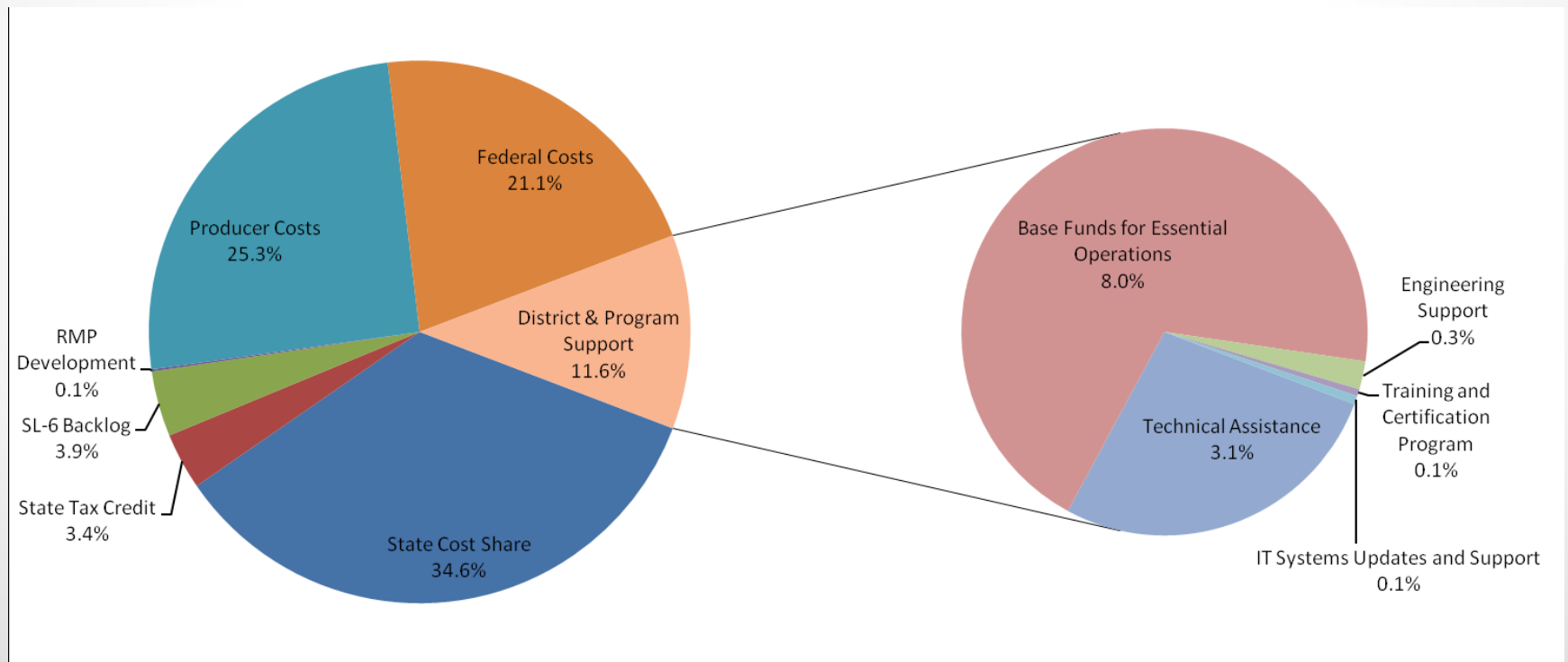
Actual BMP Cost	Total Cost Share Paid	State Cost-Share Paid	Non-State Cost Share Paid	Other funding	Farmer Cost Before Tax Credit	Tax Credit Amount Issued
\$378,045,973	\$221,961,042	\$207,785,039	\$14,176,002	\$54,148,551	\$101,936,379	\$16,119,313

# Agricultural Needs Assessment Process

- **Calculated reduction benefit from SL-6**
- **Remaining 2025 reduction needs**
- **Evaluated projected funding needs**
- **Extended projections**
- **Made adjustments to funds needed as necessary**

# Agricultural BMP Needs Assessment

Estimate = \$1,740,118,697



# POTW Funding

**STATE TOTAL 1998-2017 = \$908,280,000**

**(matched 35% - 75% by treatment plant  
owners about 50% on average)**

# Stormwater

- **SLAF Funding began in previous biennium**
- **MS4 authorized to use nutrient credits based on plans approved by DEQ, could allow for longer term upgrades to stormwater systems while meeting permit requirements**
- **Total Urban Stormwater needs unknown at this time. Likely on the scale of waste water expenditures**
- **“Chesapeake Bay Action Plans” required of MS4 permittees will refine understanding of proposed actions**
- **Working with localities to better refine and estimate costs**

# Added Emphasis on Local Capacity in the 2014 Chesapeake Bay Watershed Agreement

**“Continually increase the knowledge and capacity of local officials on issues related to water resources and in the implementation of economic and policy incentives that will support local conservation actions.”**

**Management Strategy Elements include:**

- 1. Develop, enhance and expand training and leadership programs**
- 2. Increase peer to peer knowledge transfer for local officials**
- 3. Improve transfer of knowledge to locals**
- 4. Identify and improve key knowledge and information sources**



# Key Issues Moving Forward

- **Conowingo Dam “dynamic equilibrium”**
- **Factoring Climate Change into the TMDL**
- **Expert Panels (16 now at work)**
- **The Phase 6 Model**
- **Verification**
- **Funding and innovations in financing**
- **Planning Targets and WIP III development including local planning goals**

# Contact Info

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