



# Preparing for 2017 Reevaluation

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# Preparing for 2017 Reevaluation Agenda

- Current Reevaluation Activities
  - Land Cover Project
  - James River Chlorophyll Study Update
  - Update on Verification
  - Historical data collection
- Current Bay Grant Funding Priorities

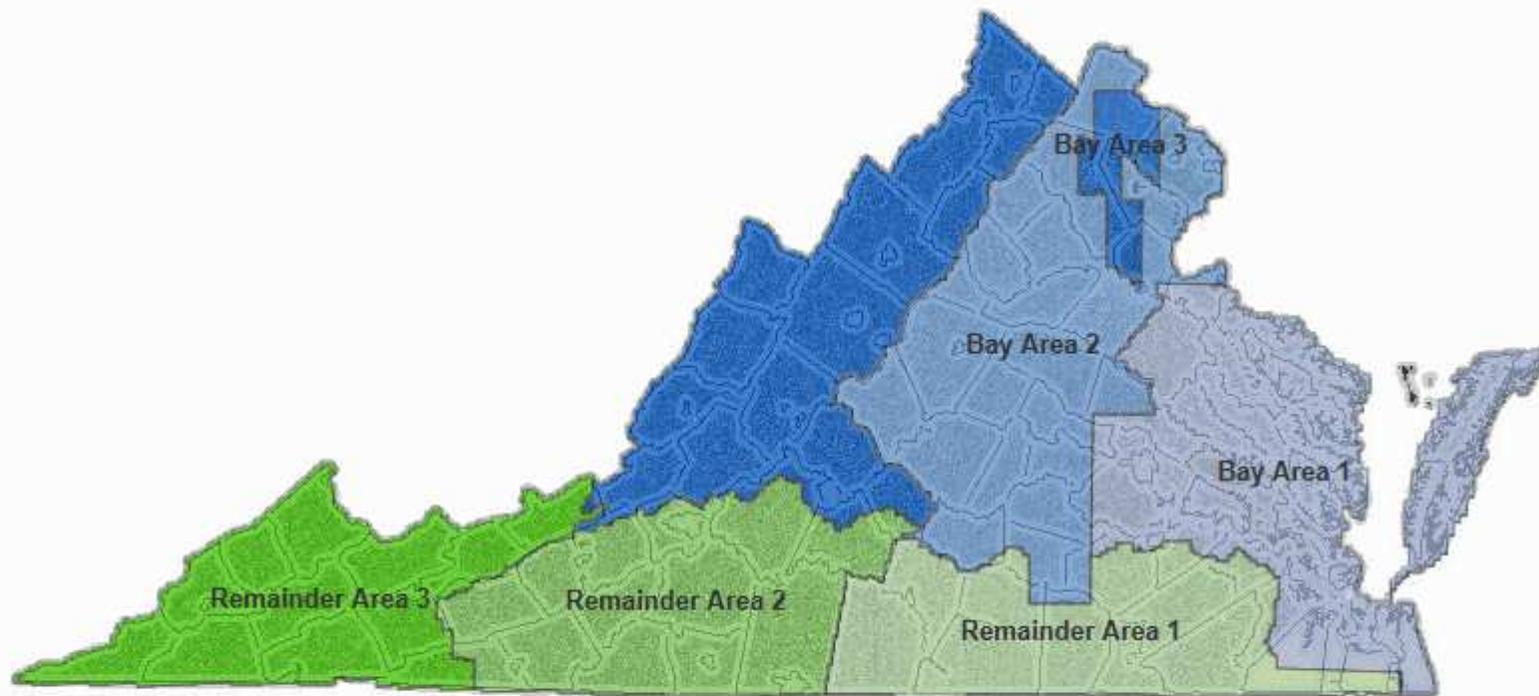
# 2017 Reevaluation Overview

- Revise Modeling System - 2012 through 2016
- Document and Enhance Verification – 2015 through 2017
- Review, Assess and Accept Modeling System – 2016-2017
- Strengthen Decision Support Tools - 2017
- Evaluate 2017 Progress/Milestones – 2017/2018
- Develop 2018-2019 Milestones – 2017/2018
- Develop Phase 3 WIPs – 2017 through 2018

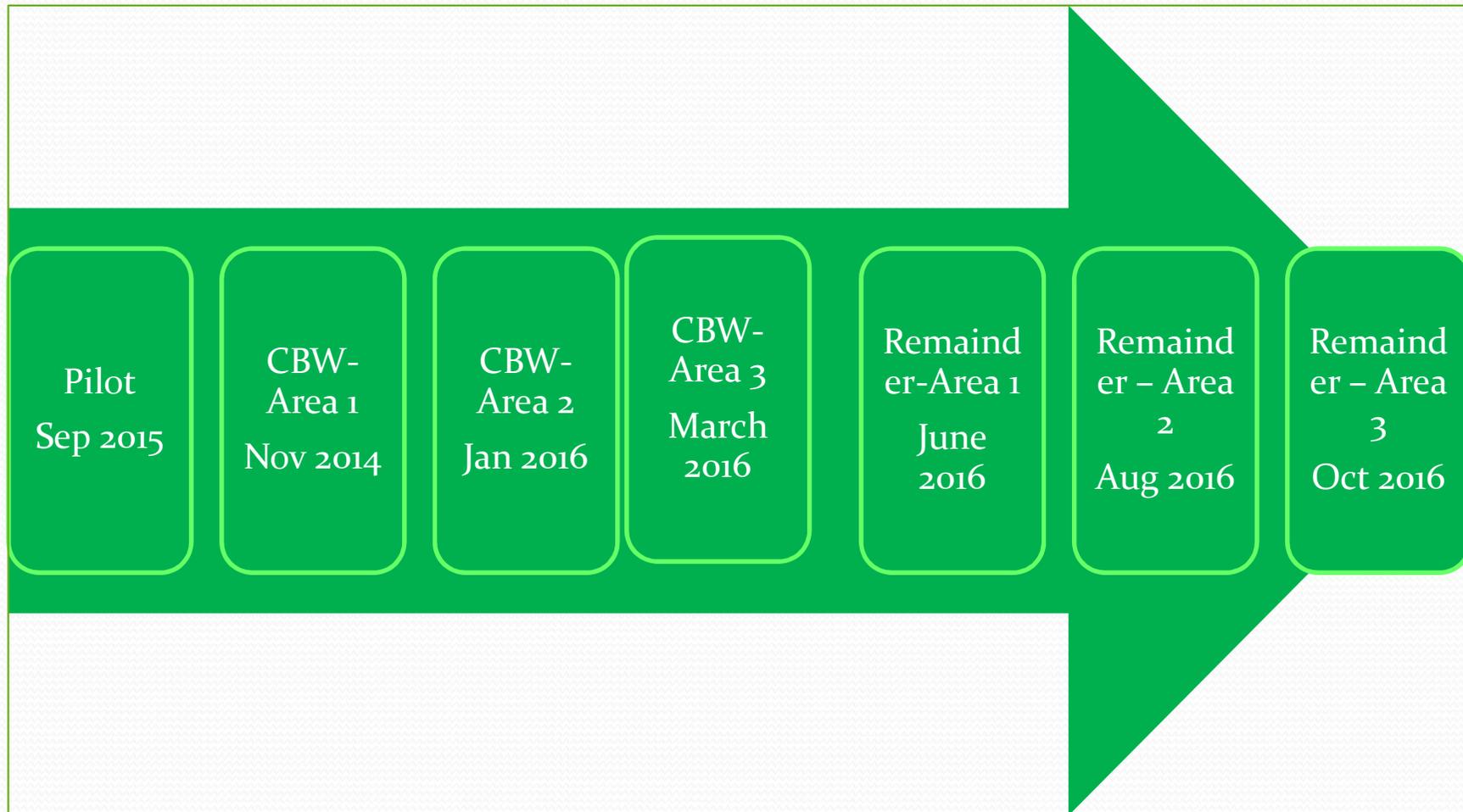
# Land Cover Deliverables

- Raster and vector feature classes for each land cover class
  - Pervious – Turf/Grass
  - Impervious
  - Forest
  - Tree
  - Harvested/Disturbed Forest
  - Scrub/Shrub
  - Agriculture – Cropland
  - Agriculture – Pastureland
  - Wetlands
  - Barren
  - Water
- Data will be freely accessible via the GIS Clearinghouse upon completion
  - Web services
  - Data downloads

# Deliveries by Region



# Land Cover Project Timeline





# James River Chlorophyll Study

- Final draft report from Scientific Advisory Panel (SAP)
  - *“Empirical Relationships Linking Algal Blooms with Threats to Aquatic Life Designated Use in the James River Estuary”*
  - Currently under review by DEQ staff
- Water quality modeling contract extended to the end of December 2015
  - Time needed to include 2011-2013 water monitoring data in the calibration dataset
- *“Draft James River Chlorophyll Study Modeling Report”*
  - Submitted August 14, 2015
  - Under review by an expert Model Review Workgroup
  - Presents information on the 3 linked model components
    - Watershed
    - Hydrodynamic
    - Water Quality/Eutrophication
  - Includes calibration/validation, sensitivity tests and uncertainty results
- Preparing to run model scenarios
- JR Study Stakeholder Advisory Committee meeting planned for late fall



# Verification Defined

- The Bay Program has formally defined verification as “the process through which agency partners ensure practices, treatments and technologies resulting in reductions of nitrogen, phosphorus and/or sediment pollutant loads are implemented and operating correctly.”

# Verification Principals

- **Practice Reporting** - Affirms that verification is required for practices reported for load reduction credit through the Bay Program.
- **Scientific Rigor** - Scientifically rigorous and defensible, professionally established and accepted sampling, inspection and certification protocols in balance with cost-effectiveness and prioritization.
- **Public Confidence** - Calls for transparency in verification processes and the underlying data. Recognizes that levels of transparency will vary.
- **Adaptive Management** - Recognizes that advancements are integral to assuring desired long-term outcomes. Recognizes existing funding and allows for reasonable levels of flexibility in the allocation of funds.
- **Sector Equity** - Strive to achieve equity in the measurement of functionality and effectiveness of implemented BMPs among and across the source sectors.



# Verification Components

- Clean-up of historical BMP databases
- Practice life spans
- Enhance data collection and reporting of federal practices
  - Federal Facilities Reporting
  - USDA 1619 Agreements Needed
- Accounting for non-cost-shared practices
- Preventing double counting
- Documentation of BMP verification programs

# Verification Program Documentation

- Draft Verification Plan submitted
- Reviewed by Bay Program Verification Panel
  - Written Comments
  - Meetings with each Jurisdiction
- Next Steps
  - Make changes to address Panel feedback
  - Submit revised document for EPA review
  - EPA approval
  - Implement and enhance verification program
  - Update Program Plan annually
- [www.chesapeakebay.net/about/programs/bmp/additional\\_resources](http://www.chesapeakebay.net/about/programs/bmp/additional_resources)



# Historical BMP Data Cleanup:

Urban/Developed Lands

*Lara Kling, DEQ*



# What Data is Needed

- Developed/Urban Best Management Practice (BMP) data:
  - July 1, 1999 – June 30, 2015
  - July 1, 1985 – June 30, 1999
- QA/QC practices, procedures related to installation, maintenance, and inspection
- Local land use data
  - Land cover, land use, parcel polygons, sewer service area polygons, zoning



# Why is the Data Needed?

- Calibrating the Phase 6 Watershed Model
- Planning tools
- Verification
- Modeled progress
- Trends in monitoring data

# Current Initiative

Request for Applications (RFA) issued

200+ eligible localities, 67 applied

Contracts issued mid-April to early-May

All data submitted to DEQ by **Sept 1**

**Approved funding for 37 proposals covering 47 cities/counties**

**Allocated \$940k CBRAP funds**

All data sent to EPA by **Oct 1** for inclusion in the Watershed Model

Jan

Feb  
Oct

Mar

Apr

May

June

July

Aug

Sept



# 2015 Federal Funding:

CBIG and CBRAP



## **Chesapeake Bay Implementation Grant (CBIG)**

- Implementation of management mechanisms established under the Bay

## **Chesapeake Bay Regulatory & Accountability Program Grant (CBRAP)**

- Implementation of management mechanisms established under the Bay Agreement

### **Cumulative 2015 Funding:**

- Approx 6.3 million



# DEQ Priority Initiatives

- Non-Significant wastewater facility monitoring
- Enhanced land cover analysis of stream corridors
  - Buffers, exclusion fencing, impervious
  - Land Cover Change Detection
- VCAP – SWCD small parcel scale urban BMP cost-share program
- Ongoing staff support
  - Local TMDL program; CBPA; Bay Program support, grant and data management; Water compliance



# DCR Priority Initiatives

- Agricultural BMP cost-share program
- Nutrient Management and Urban Nutrient Management programs
- Development of the Resource Management Plan (RMP) Module
- Ongoing staff support



# Additional Initiatives

- DOF: BMP Monitoring, Enforcement, and Riparian Forest Buffer Implementation
- VDH: Onsite Sewage Systems Tracking
- VDACS: Fertilizer Sales Data



# Questions/Comments?

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