Chesapeake Bay Program Verification

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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 Framework

MP Verification Principles

- ✓ BMP Verification Review Panel
- Source sector and habitat specific BMP verification guidance
- Practice life spans
- Ensuring full access to federal cost-shared agricultural conservation practice data
- Enhance data collection and reporting of federally cost-shared practices
- Accounting for non-cost-shared practices
- Preventing double counting
- Clean-up of historical BMP databases
- Development and documentation of jurisdictional BMP verification programs
- Partnership processes for evaluation and oversight
- Communications and outreach

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.

Clean-up of Historical BMP Databases

- Agriculture
 - DCR VACS Database
 - DCR NutMan Database
 - NRCS?
- Urban
 - Grant RFA to Local governments and PDCs
 - Previously reported BMPs (MS4 & Bay Act Reports, Recent WIP related reporting)
 - MS4 Action Plans
 - Nutrient management database
- Septic/Onsite
 - VDH VENIS Database
- Forestry
- Extractive
- Wastewater
- Federal Facilities

Documentation of Verification Program

- Cite verification documents for all partners which are actively reporting implementation, which will be reported by the jurisdiction for nutrient and sediment pollutant load reduction credit
- Cite specific references to the BMP verification guidance and procedures
- Describe any variations from verification guidance and procedures
- Document decisions for verification priorities and BMP grouping
- Document verification protocols , how they will be implemented, by whom, and through what programs/mechanisms
- Document procedures already in place, fully operational, and being routinely carried out
- Document procedures planned for future implementation and programmatic changes necessary to make them fully operational and routinely carried out

Partnership Processes for Evaluation

- Initial Verification Program Plan June 30, 2015
- Verification Panel Review August 7, 2015
- Final Verification Program Plan October 1, 2015
- Verification Panel Recommendations October 16, 2015
- Jurisdiction Response November 16, 2015
- EPA Review and Approval December 18, 2015
 - "EPA will only approve a jurisdiction's proposed verification protocol, procedure or process if it is fully consistent with and supportive of the Chesapeake Bay Program's adopted verification principles."
 - "An approvable jurisdictional quality assurance plan could also provide a detailed schedule and process for how the proposed verification protocols, procedures, and processes will become fully consistent over time."
- Report to Management Board and PSC January 2016

Verification Protocol Design

			D. Initial Inspection				E. Follow-up Check			F. Lifespan/Sunset	G. Data QA,
			(Is the BMP there?)				(Is the BMP still there?)				
A. Sector	B. Data Grouping	С. ВМР Туре	Method	Frequency	Who inspects		Follow-up Inspection	Sub-	Response if Problem	(Is the BMP no longer there?)	Recording & Reporting

- General Approach: 100% initial onsite inspection and follow-up checks with sufficient rigor and frequency to ensure BMPs are still there and functioning
- BMP Grouping by Sector and
 - Practice type
 - Implementation process
 - Susceptibility of the practice to failure

Agricultural BMP Grouping Concept

- State or Federal Cost-Share in contractual period
 - High risk of failure
 - Low risk of failure
- State or Federal Cost-Share out of contractual period or voluntary meeting program design standards
 - High risk of failure
 - Low risk of failure
- Voluntary Resource Improvement practices
 - High risk of failure
 - Low risk of failure
- State or Federal Cost-Share tillage practices or cover crops
- Voluntary tillage practices
- Voluntary cover crops meeting program design standards
- Manure transport
- Nutrient management plans
- Soil conservation and water quality plans

Urban BMP Grouping Concept

- BMPs installed pursuant to MS4 permit requirement
- BMPs installed pursuant to Bay Act requirement
- BMPs installed pursuant to Construction GP and VSMP requirement
- BMPs installed voluntarily (no program/permit requirement)
 - High risk of failure
 - Low risk of failure
- Homeowner BMPs
- Urban nutrient management plans
- Nutrient management homeowner pledge
- Street sweeping
- Erosion and sediment control (below regulatory threshold)

Other BMPs Grouping Concept

Septic/Onsite

- Pumpouts
- Connection to sewer
- Nitrogen reducing systems

Forest

- Forest Harvesting Practices
- Forest Conservation

Extractive

- Erosion and Sediment Control on Extractive
- Dirt/Gravel Roads BMPs
- Mine Reclamation

Verification Program Plan

- Integrate into Existing DEQ Quality Assurance Project Plan (QAPP)
 - Initial Verification Program Plan June 30, 2015
 - Final Verification Program Plan October 1, 2015
- Work with State agencies to develop QAPPs or comparable documents for their data
 - DCR
 - DOF
 - VDH
 - DMME
- Work with other data providers to document QA/QC procedures
 - USDA
 - Federal Facilities
 - Local Governments
 - NGOs

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Verification Questions

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