



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Point and
Non Point Source Management



Pennsylvania's Nutrient Trading Program

STAC Workshop

May 14, 2013

Monitoring & Verification

- Goal
 - Ensure credits exist
 - Consistency and transparency
- Types of Participants
 - Point Sources and NPS Treatment Technologies
 - Actual Monitoring Data
 - eDMRs or before and after sampling
 - Nonpoint Source
 - Certification and Verification Plan
 - Field maps, photographs, field data sheets, residue testing
 - Signature and qualification of the verifier
- Self-Verification Program Now

Monitoring & Verification

- Auditing Program
 - Comment response tool
 - Check & Balance tool
- Credit Tracking
 - Begins at Verification
 - Registry Number assigned at point of sale

Goals & Baseline

- Before “TMDL Land”
 - Baseline defined to:
 - Provide additional resources to incentivize installation of agriculture practices
 - Mitigate costs for treatment plant upgrades
 - Regulatory Compliance + Threshold =
 - Erosion & Sedimentation/Conservation Plan + Nutrient Management Plan + either:
 - 35 foot buffer
 - 100 foot setback
 - 20% reduction off the top

Goals & Baseline

- After “TMDL Land”
 - TMDL defines baseline
 - Goal:
 - Agreement that meets the intent of the TMDL
 - Defensible, sound science and easy to explain
 - Manageable with existing resources
 - Not too difficult to participate
 - 8 Scenarios
 - Modifications to Existing Concept
 - Practice Based
 - Performance Based
 - Uncertainty Ratio

Additional Challenges

- Supply and Demand
- Economics vs/and the Environment
- Perception of Risk
- Fairness
- Moving Targets
 - Changing Watershed Model Parameters
 - Impact on Permittees
- Credibility & Transparency



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