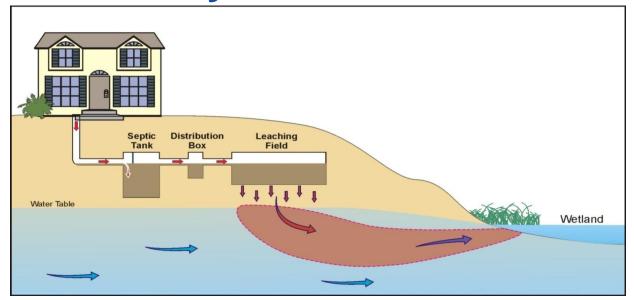


Technical Assistance Manual for Onsite Programs in the Chesapeake Bay Watershed



Chesapeake Bay Wastewater Treatment Workgroup

July 10, 2012



Topics to Cover

- Current Status
- Overview of State Comments
- Input/Coordination with the Workgroup



Technical Manual Status

- Staff Level Report Completed (July 2011)
- Initial Input From State Officials (Aug 2011)
- EPA Management Review (February-March 2012
- Federal Agency Comments (April 2012)
- State Comment Period (Through June 29, 2012)
- Share Draft For Public Comment (July 2012)
- Deadline to Complete

 June 2013



Background

- EPA Committed to Develop a Technical Assistance Manual for Onsite Systems That States Can Use to Augment Existing Programs and Support Nitrogen Reduction
- The Focus of the Model Program is Nitrogen Management



Background

 The Model Program Recognizes That Onsite Nitrogen Management Plans Vary by State

Headwater States
 Have Different
 Onsite System
 Goals





Model Program Elements

- Recommended Standards For Nitrogen Reduction
- Recommended management approaches for advanced/alternative systems
- Site inspection and upgrade processes
- Site evaluation and system design



Model Program Elements (cont)

United States
Environmental Protection
Agency

- Cluster system provisions
- Operation and maintenance
- Data management/TMDL compliance
- Designer and operator training
- Approval of alternative systems
- Outreach
- Funding



Model Program Attachments

- The Framework for Onsite System Management
- Summary of Onsite Technologies
- An Annotated Bibliography
- A Document Map or Checklist
- Model Regulatory Language
- A Model State Reciprocity Agreement
- Case Studies



Nitrogen Treatment Standards

- Currently, Standards Based on Proximity of Onsite Systems to the Bay or its Tidal Tributaries
- Currently, Standards Consistent With EPA's Guidance for Federal Land Management in the Chesapeake Bay Watershed



Nitrogen Treatment Standards

Setback Distance	Treatment Requirement
0-100 feet	No Onsite System Discharges
100-200 feet	5 mg/L Nitrogen Standard
200-1,000 feet	10 mg/L Nitrogen Standard
Beyond 1,000 feet	20 mg/L Nitrogen Standard

Overview of State's Comments

- Discrepancy between testing center and onsite influent characteristics
- Typical Nitrogen influent concentrations:
 - -35-40 mg/L For Test Centers
 - -60 mg/L For Septic Influent



Overview of State's Comments

- Initial Inventory and Upgrades:
 - Concerns With Feasibility of an Inventory/Inspection for all Existing Systems

 Concerns With Installation of New Technologies and Upgrade of all Existing Systems



Overview of State's Comments

- Concerns With Who Funds Routine Nitrogen Sampling For Onsite Alternative Systems?
- Is Routine Testing Necessary For Approved Systems?

 Is There Adequate Staff to Complete Ongoing Inspections?



Workgroup Input Requested

- Presentation of Treatment Goals for Onsite Systems
 - Concentration Based Standards (current approach)
 - Percent reduction approach
 - Provide Nitrogen Credit Information for Meeting a Treatment Threshold (Based on Current Septic System Modeling Information)



Nitrogen Credit Approach

Discharge Nitrogen Concentration (mg/L)	Loading (kg/person/yr)	Nitrogen Reduction (kg/person/yr)	Load Reduction Provided
39	4.04	0.00	0 %
30	3.10	0.93	23 %
20	2.07	1.97	49 %
10	1.03	3.00	74 %
5	0.52	3.52	87 %



Workgroup Input Requested

- How to Leverage Workgroup's Analysis of BMPs and Incorporate This Information in the Manual?
- Approaches for Onsite System Inspection and Tracking of Nitrogen Upgrades to Achieve Credit for Improvements?
- Opportunities to Promote Reciprocity?



Verification of Alternative Systems

- Needed to confirm that technologies can comply with recommended nitrogen standards
- Greater reciprocity on system approvals needed between states to increase the pool of accepted, available technologies
- Draft reciprocity MOU provided and input from the workgroup is welcomed



Questions/Discussion

