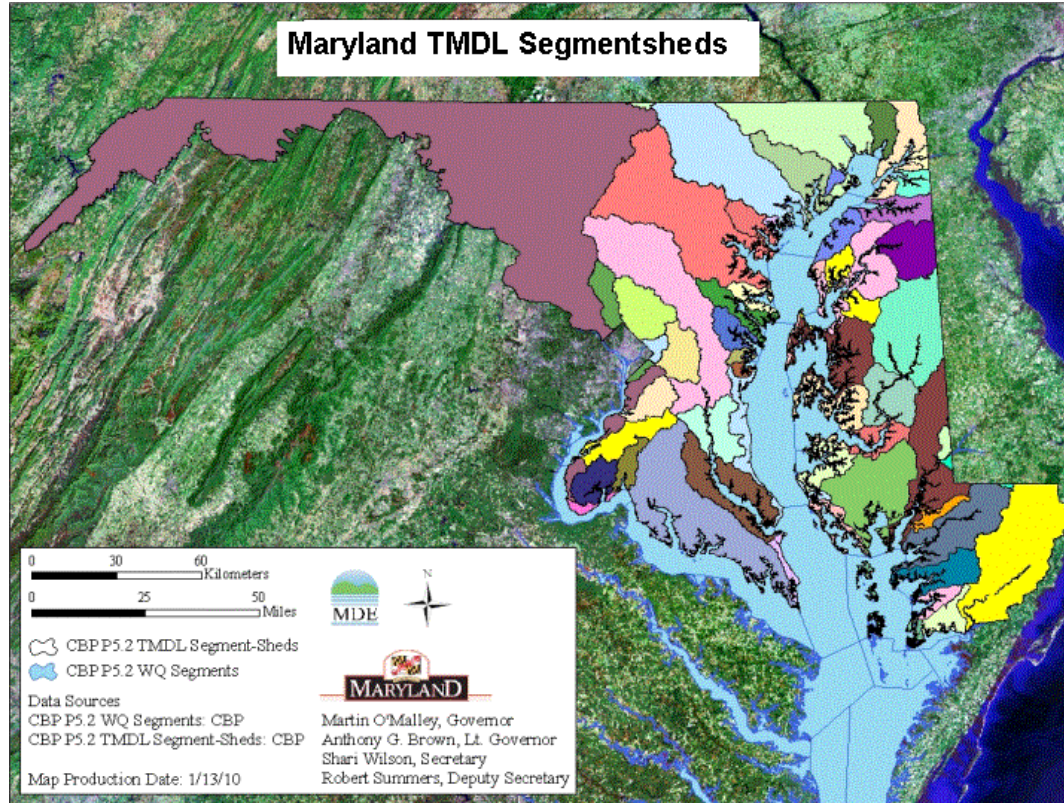


Moving to Phase II Watershed Implementation Plans



Sustainable Growth Commission
December 13, 2010

Basic Background

- Court Settlement: Chesapeake Bay TMDLs by December 2010
- EPA Led a Regional TMDL Development Process
 - Sets limits, by State, on Nutrient & Sediment Pollution
- EPA Required “Watershed Implementation Plans”:
 - Allow States to Allocate Loads
 - Support “Reasonable Assurance” of Implementation
 - Part of new federal “Accountability Framework” to Ensure Results

What is Different?

- Federal “Accountability Framework”
 - Bay TMDLs
 - Watershed Implementation Plans
 - 2-Year Implementation Milestones
 - Tracking & Evaluating Progress
 - Federal “Consequences”

Phase I Watershed Plans

Developed in 2010:

- Set federal loading limits
 - Equitable allocations by sector and impaired segment
- Nutrient and Sediment Load Targets:
 - Final Targets by 2020 (EPA Deadline 2025)
 - Interim Target by 2017 (70% of Final Target)
- Strategies & Contingencies for 2017 Targets
- Provides “reasonable assurance” of TMDL implementation including non-regulated sectors

Phase I Plans (Con't)

- Creates the foundation for implementation schedules and milestones (accountability)
- Provides a “default” implementation plan that can be used “as is” or modified during Phase II
- Provides a foundation for more discussion

Highlights of Phase I

- Continue Upgrades of Major WWTPs
- Leaves room for Smart Growth
- Upgrade Septic Systems in Critical Area
- Reduction Deadlines for Phase I & Phase II MS4 Stormwater Permits plus New Flexibility
- Offset Program for Septic & Development Loads by 2013
- Many new Agricultural Practices.

Goals of Phase II Plan

- Refinement of Phase I Plan
 - Finalize Local Allocations
 - More Geographic Detail of Target Loads
 - Load Reduction Analysis
 - Refined Strategies & Contingencies
- Respond to model changes
- Increased Emphasis on Funding
 - Better cost estimates
 - More cost effective strategies, e.g., Trading
 - Funding Strategies

Goals of Phase II (Con't)

- Provide context for local watershed planning
- Assign responsibility for load reductions
- Begin Developing Policies and Programs to Offset Growth in Loads

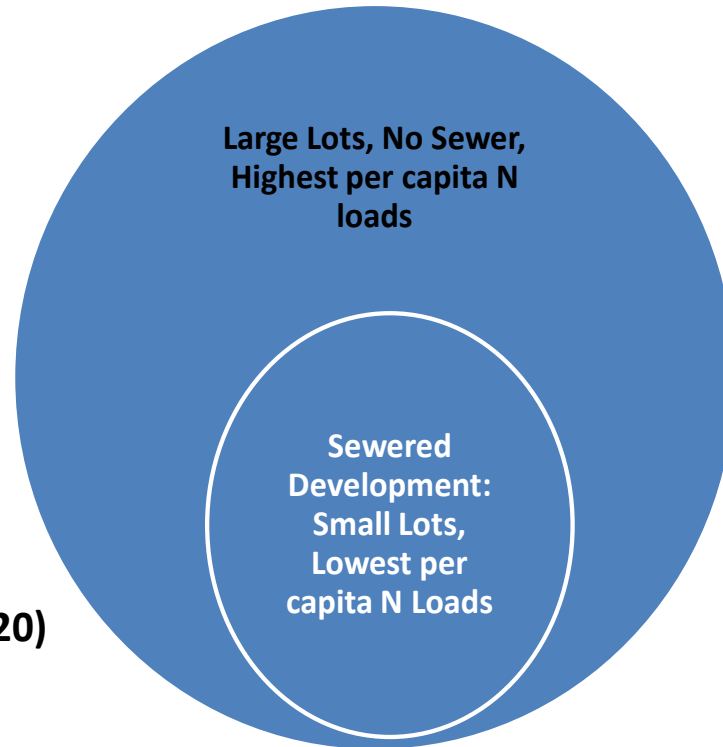
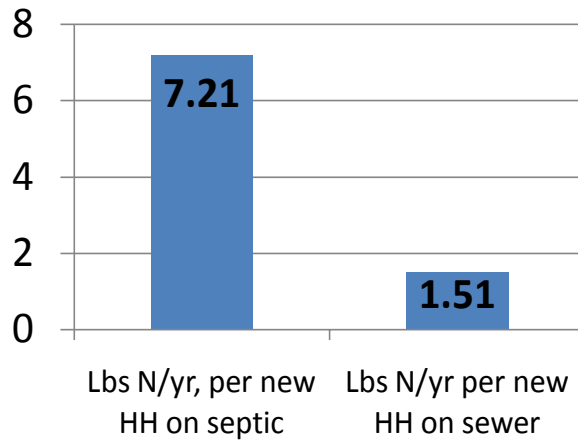
Phase II Process

- General Approach
 - State “Liaisons”
 - State Steering Committee
 - Identify & Invite Stakeholders – Local Leads
 - Step-by-Step Schedule
 - Support Materials, e.g., WIP Document Template
 - Request Essential Local Information
 - **Discuss & Refine Strategies and Target Loads**
 - Reach Consensus, Use State Default or Hybrid
 - Identify 2-yr Milestones by end of 2011

Phase II Schedule

- 2011 Schedule (Subject to Potential Extension)
 - **Jan/Feb:** Regional Orientation Workshops
 - **Feb:** Initial Local Team Working Meetings
 - **March:** Initiate Allocation Discussions
 - **April/May:** Finalize Allocation & Strategy Discussions
Wrap-up Draft Phase II Plans
 - **June 1:** Submit Draft Plan to EPA
 - **June:** Confirmation Model Runs (if necessary)
 - **July:** Revise/Adjust Draft Plans
 - **August:** Public Review
 - **September:** Finalize Documentation
 - **November 1:** Submit Final Plan to EPA

Accounting for Growth in Loads



**263,225 Additional Households
Forecasted in Maryland (2010 -2020)
29% served by septic tanks
71% served by ENR WWTP**

Accounting for Growth in Loads

1. Power Plant Atmos. Cap Strategy (In Place)
2. Wastewater Cap Strategy (In Place)
3. WIP Reduction Strategies will Account for Projected Future Loads
4. Commitment to Offset NPS Loads:
 - a. Loads from New Land Development
 - b. Loads from New Septic Systems

Commitment to Offset NPS Loads

- Conceptual Approach:
 - Incentives to Promote Smart Growth
 - Proposes Three Types of Geographic Areas:
 - Offsets tighter in lower density areas
- Option for Local Alternative Approach
- Trading System is Essential Element
- Schedule Envisions 2013 Implementation

Offsetting Growth in Loads

- Growth adds to the nutrient load, but not equally, e.g. ENR plant vs. Septic Systems
- Anticipate Competition for Scarce Offsets
- Conserve allocations by planning ahead:
 - Water Resource Elements of Land Use Plans
 - Sub-Area Plans and Local Watershed Plans

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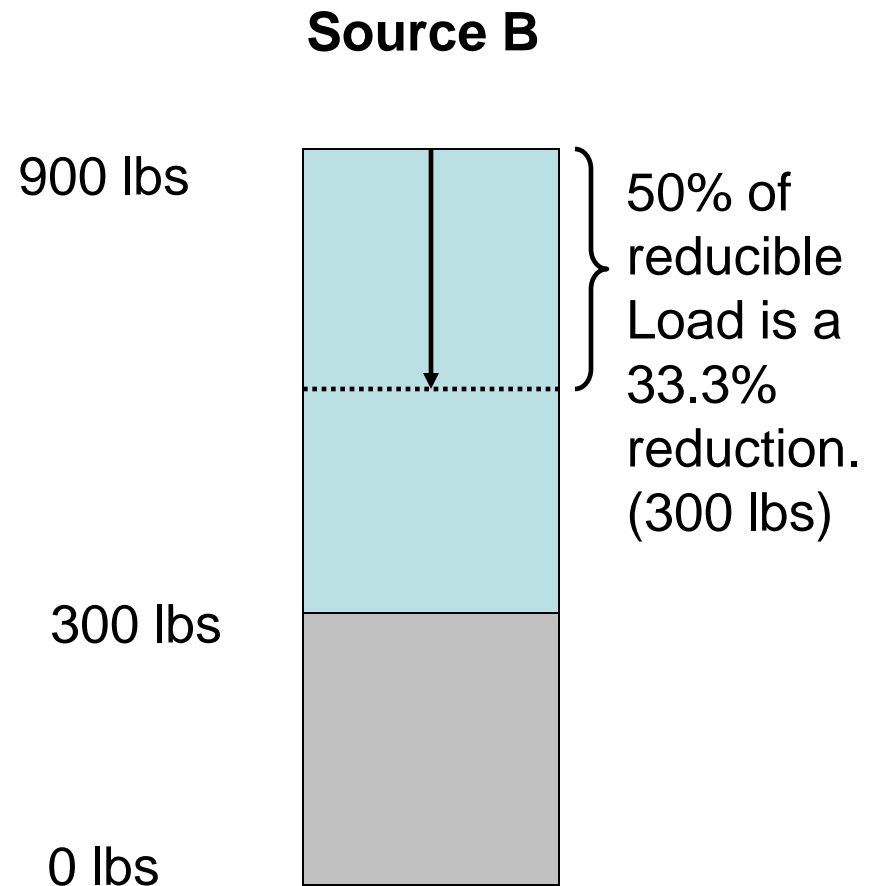
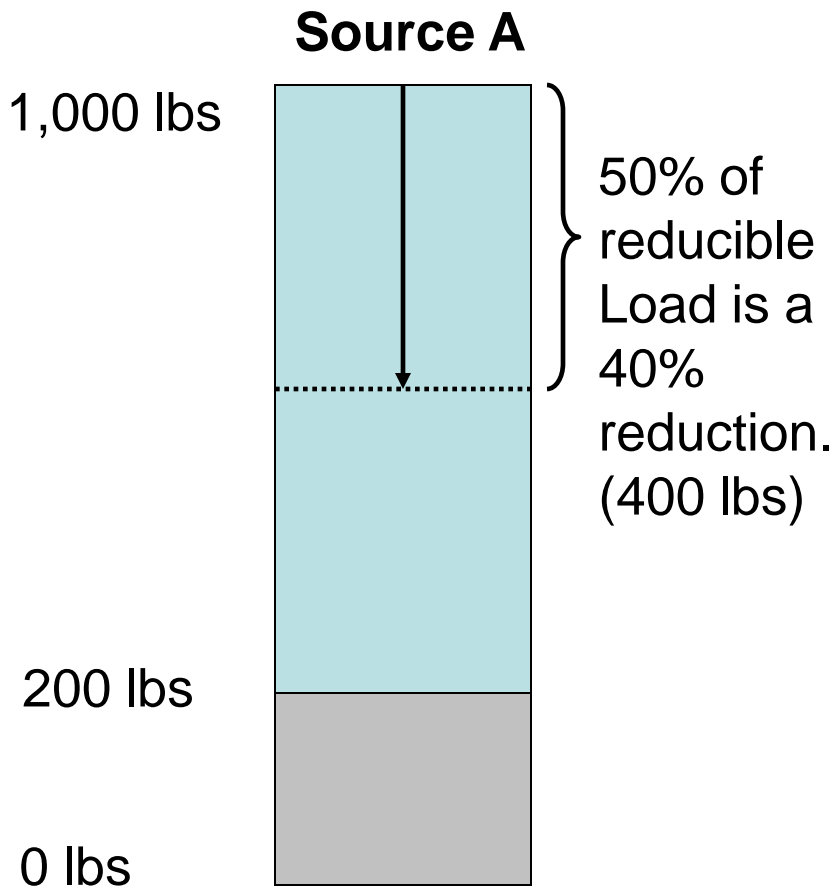
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Equal % of Reducible Load (Con't)

Example: 50% of Reducible Load...



Equal % of Reducible Load

Example:

