

# BayTAS – Unveiling Proposed System Design Components and Considerations

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Attachment D  
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# BayTMDL Accounting and Tracking System (BayTAS) Version 1.0

- Purpose and Reason for BayTAS
- Data Needs and Process for Tracking WLAs, LAs, and Measuring Progress
- Overview of Proposed Data Flows/Basic System Configuration
- Presentation of BayTAS Data

# BayTAS Version 1.0 Purpose

- Required by May 12<sup>th</sup> EPA Settlement (roll out for tracking by Jan 2011)
- TMDLs for 92 Segments in Bay Watershed
  - WLAs for NPDES Points Sources
  - LAs for Non-Point Sources
  - Practices reported in WIPS
- Are States on target to achieve the Bay TMDL?
  - Are WLAs being achieved?
  - Are LA's being achieved?
  - Status of practice implementation?
  - Status of programmatic activities?
  - Verification tracking
  - Future capacity to track generation of offsets and support trading
- Make allocations, progress and verification public

# Tracking WLAs for Point Sources

- Individual or Aggregate end-of-pipe WLAs for NPDES Permits
- Determine if WLA is being achieved
- For Individual Permits with DMR data (eg, POTWs)
  - Discharge Monitoring Data for progress tracking
  - Delivered loads: modeling/adjustment to account for downstream effects
- For Individual or General Permits without DMR data:
  - Permit conditions assumed within wasteload allocations (e.g, performance standards for MS4 stormwater)
  - Modeling to determine load reductions/milestone progress for each sector
- Permit compliance schedules.

# WLA Tracking Data Requirements – Individual Permits

## **Data Category/Classes for Individual Permits**

Basic Facility/Permit Tracking

Pipe/Outfall Basic Information

Permit Limits – WLAs for N, P and Solids at the Pipe Level

Discharge Monitoring Data – N, P, and Solids

Verification information: Verifier name, type, % of inspections, penalties, and confidence levels.

# WLA and Progress Data Reporting – Data Sources for NPDES Point Sources

- Option 1
  - Use existing wastewater facility data reported to wastewater facility database or through NEIEN as specified in CWA §117 grant guidance
- Option 2
  - Direct Reporting for ALL settlement-affected individual permits in Bay Watershed into PCS and ICIS-NPDES
  - Data is transferred from PCS/ICIS-NPDES to BayTAS by O&M Team

# BayTAS – Non-Point Sources – Key Points/Assumptions

- Non-point load allocations will be allocated to sectors for each Bay TMDL segment
- WIPs and BayTAS will include segment-level and NPS sector-level target loads for non-Tidal States even if receive gross allocation
- Progress (load reductions and practices) will be reported for each scenario builder segment and non-point sector using National Environmental Exchange Network (NEIEN)
- NEIEN for non-point source reporting will be available in Dec, 2010
- The Bay Model will determine load reductions/progress
- Verification methods, rates and penalties to ensure practices are properly designed, installed and maintained. Discount progress if low confidence

# LA Tracking Data Requirements – Non-Point Sources

## Data Category/Classes for Non-Point Sources to Scenario Builder

### Year

Segment ID (this is NOT one of the 92 segments but rather the scenario builder input id, each id “should” roll up to the 92 segments where the allocations actually occur. Segment captures BMP location from NEIEN information.

BMPs – a standardized list of BMPs for all 7 States (still being built)

Amount and Units (acres, percent, feet or pounds)

### Land Use

Verification Data: Who is verifying? Type? % Inspections? Penalties? Confidence Level.

# Non-Point Source Data Flows – Load Allocations and Practices

Sep 1, 2010

WIPs are submitted. Load allocations for each non-point sector is known segment

BayTAS Design Team reviews WIPs and adjusts system design to track load allocations and practices as reflected in WIPs

Data is Reported to Public  
Via ChesapeakeStat

Dec. 31,  
2010

EPA Publishes Final TMDL (either what is proposed in WIP or assigns TMDL itself)

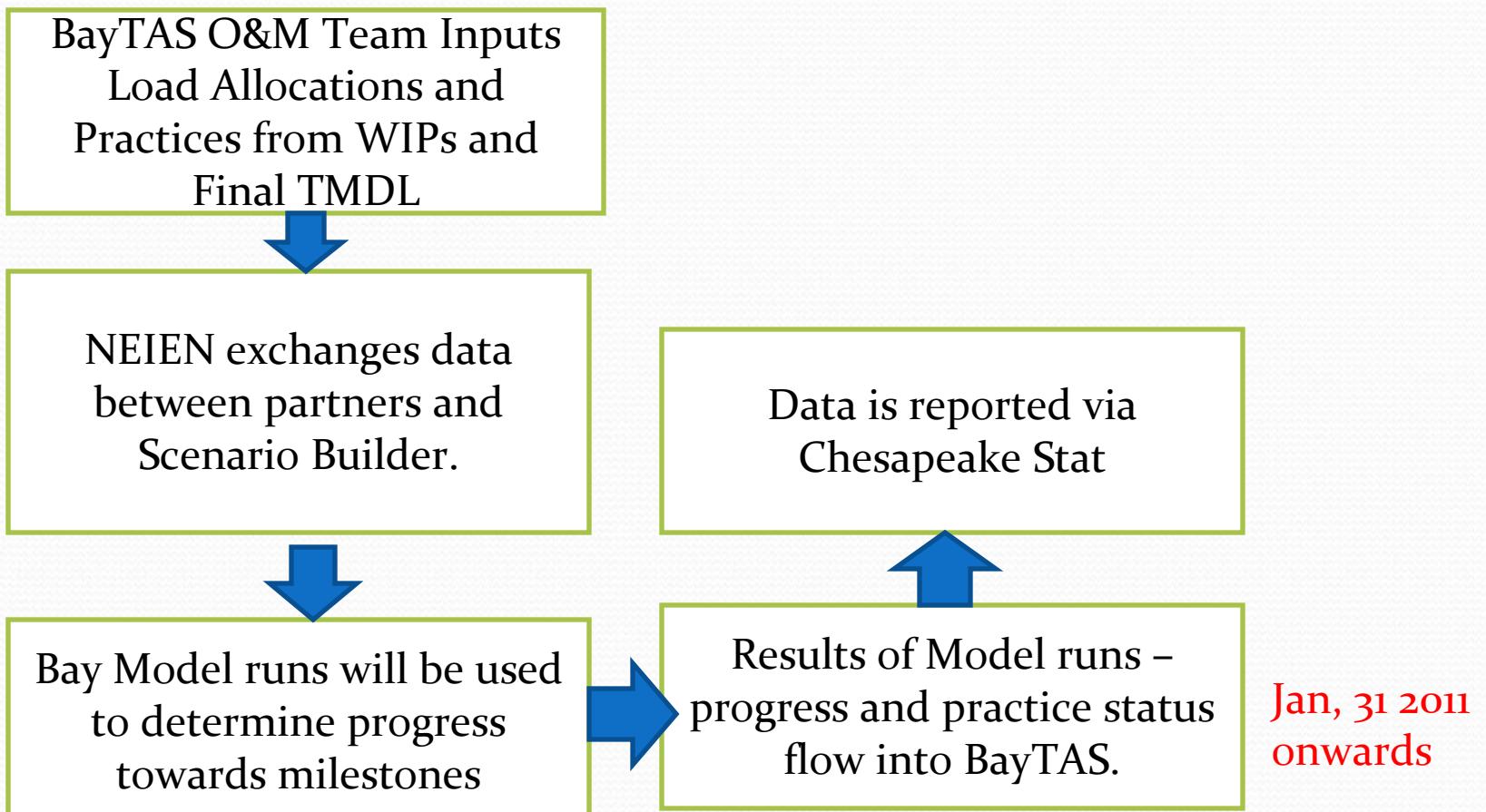
BayTAS O&M Team Inputs  
Load Allocations and Practices into BayTAS

Jan, 31 2011  
onwards

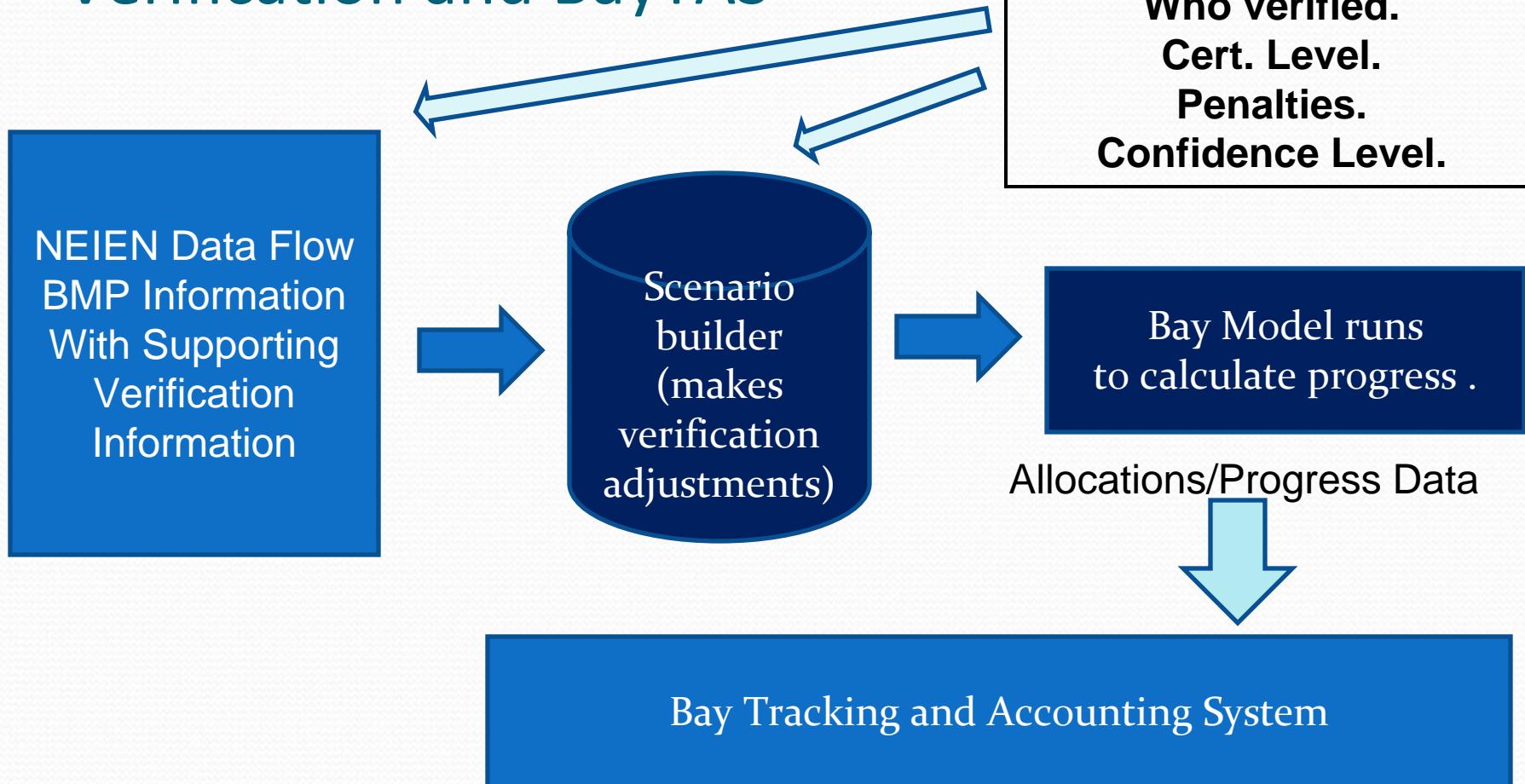
# Non-Point Source Data Flows –

Tracking progress towards allocations and practice implementation

>Jan 31, 2011



# Proposed Process for Verification and BayTAS



# Proposed System Configuration and Flows

