



Chesapeake Bay TMDL Tracking and Accounting System Status Overview April 11, 2011

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Bay TMDL Tracking and Accounting System - BayTAS Version 1.0

- Tracking commitment from the Settlement Agreement
 - Reason why BayTAS was developed
- Integrated Project Team (IPT)
- BayTAS Operational Data Flows
- BayTAS Next Steps
 - Short-Term
 - Mid-and-Long Term
- Demonstration

TMDL Tracking – Settlement Commitment

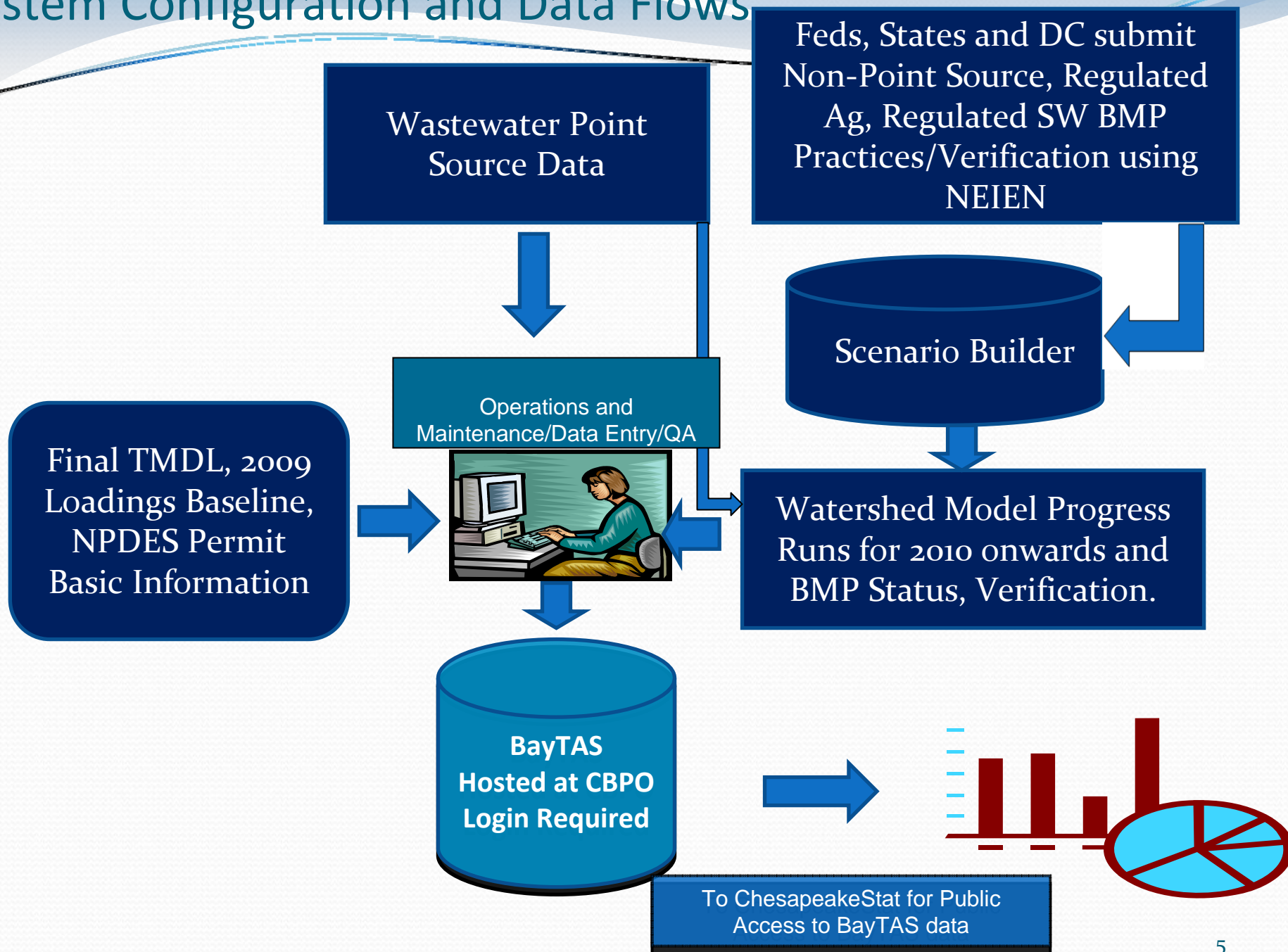
- Executive Order 13508, “Strategy for Protecting and Restoring the Chesapeake Bay Watershed” - May 12 2010
 - Also a commitment of the CBF Settlement Agreement
- Settlement Commitment
 - “Begin to implement” a tracking and accounting system 30 days after final TMDL published
 - Inform EPA, Bay Jurisdictions, and the public about load and wasteload allocations
 - Track progress in attaining WLAs and LAs
 - Track incorporation of WLAs for significant NPDES Permits
 - Track status of individual and general permits
 - Publicly accessible
 - BayTAS Version 1.0 was released on January 28, 2011
 - ChesapeakeStat displayed BayTAS data on January 28, 2011
 - Addresses the “publicly-accessible” component of commitment

BayTAS Version 1.0 - Track Final TMDL

BayTAS contains the final TMDL loadings published on Dec 30, 2010 (Appendix Q of TMDL) for TN, TP, TSS:

- By Bay Jurisdiction
- By Segment
- By Source Sector for WLA and Load Allocations
- By NPDES Permits for Waste Load Allocations
 - Both Individual and Aggregate Waste Load Allocations
- BayTAS tracks whether a Significant Facility has incorporated the WLAs
- BayTAS displays Watershed Model Progress Runs
 - 2009 Baseline is in BayTAS
 - Future model runs (2010 onwards) will also be stored and displayed
 - BayTAS displays 2017 Interim Goals for TN, TP and TSS

System Configuration and Data Flows



BayTAS Version 1.0 – State TMDL View

State TMDL Loads

State	2017 Interim Goal			TMDL 2025 Delivered Loads			2009 Baseline Delivered Loads			WLA Reserve			LA Reserve		
	TN	TP	TSS	TN	TP	TSS	TN	TP	TSS	TN	TP	TSS	TN	TP	TSS
DC	2,531,060	106,673	19,447,809	2,318,343	120,947	11,158,121	2,855,381	86,378	32,003,135	0	0	0	0	0	0
DE	3,419,722	282,370	60,605,097	2,950,920	261,808	57,823,022	4,147,086	315,358	64,778,567	0	0	0	0	0	0
MD	43,303,203	2,941,908	1,280,121,061	39,085,845	2,715,051	1,217,898,864	49,814,473	3,305,081	1,394,023,803	0	0	11,789,933	0	0	0
NY	9,613,201	657,918	310,448,009	8,771,948	565,702	292,960,727	10,947,653	801,589	337,266,496	0	0	0	0	0	0
PA	86,781,967	3,278,259	2,236,513,766	73,938,737	2,932,469	1,983,784,083	108,353,052	3,967,331	2,628,416,085	0	0	0	568,253	75,518	4,133,674
VA	58,312,659	6,010,714	2,757,850,281	53,413,365	5,354,043	2,578,901,969	67,211,928	7,154,001	3,255,651,119	0	0	0	0	0	132,683,985
WV	5,498,609	680,033	325,779,488	5,452,247	593,211	310,880,752	5,933,202	833,216	378,382,315	0	0	0	96,119	0	17,735,424
NonTidal-Atdep	0	0	0	15,700,000	0	0				0	0	0	0	0	0
TOTAL	209,460,421	13,957,876	6,990,765,511	201,631,405	12,543,232	6,453,407,539	249,262,775	16,462,955	8,090,521,521	0	0	11,789,933	664,371	75,518	154,553,082

BayTAS Version 1.0 TMDL Detailed

TMDL Tabbed Views

TMDLs 92 Segments

TMDL Sector WLAs/LAs

Individual WLAs

Practice

State:

Segment:

Search

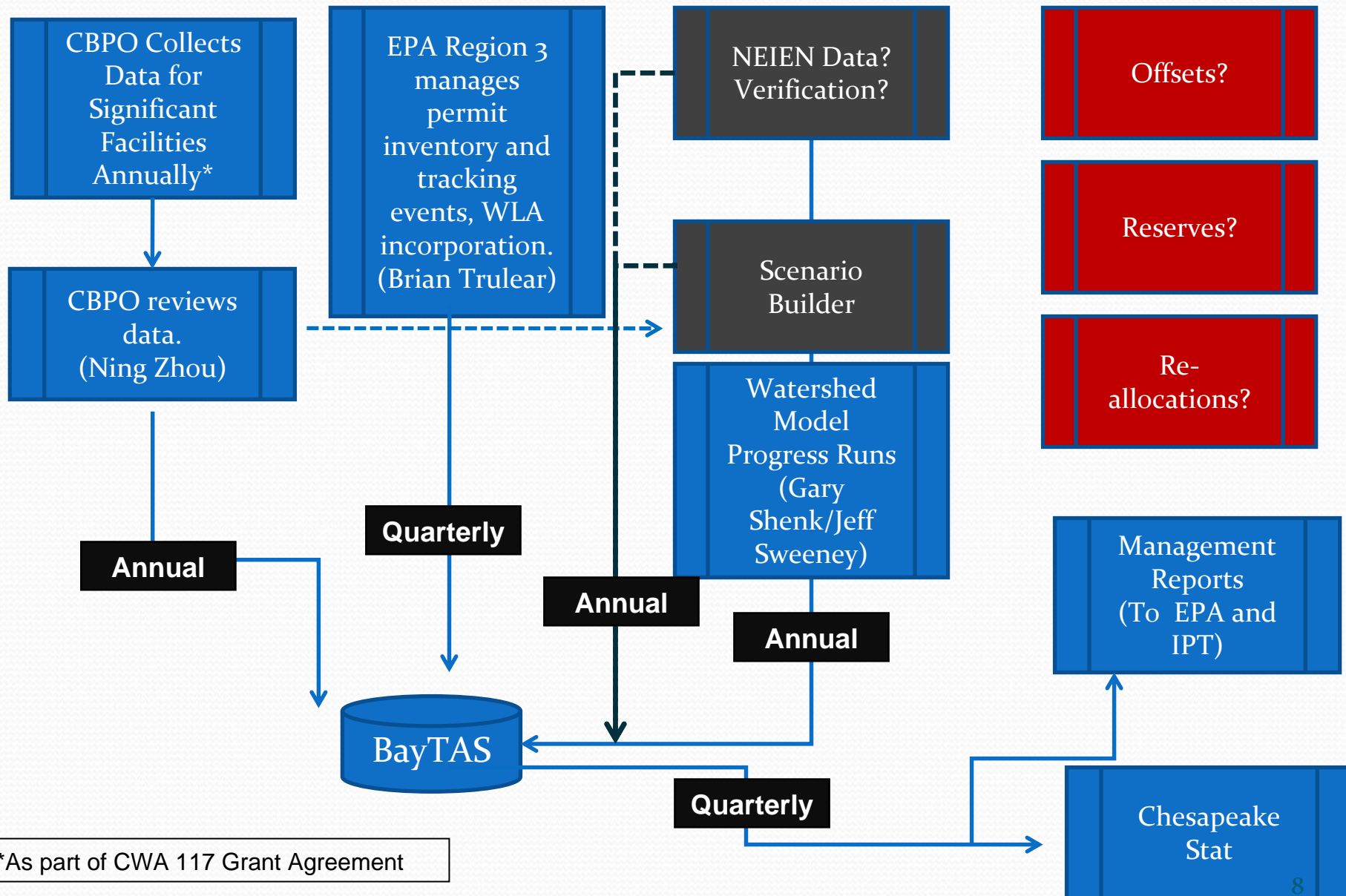
Reset

Date: 2009-2013

Displaying 1 - 50 of 214 results

Segment	Jurisdiction	2017 Interim Goal			2025 TMDL WLA			2025 TMDL LA			Total Reserve			2025 Atdep	
		TN	TP	TSS	TN	TP	TSS	TN	TP	TSS	TN	TP	TSS	TN	TN
ANATF_DC	DC	86,454	16,086	3,136,570	41,153	6,845	1,616,149	17,652	2,283	511,485	0	0	0		58,805
ANATF_DC	MD	49,493	8,364	1,176,926	39,160	6,384	790,954	6,780	357	90,167	0	0	0		45,940
SUBTOTAL		135,948	24,450	4,313,496	80,313	13,229	2,407,104	24,432	2,641	601,651	0	0	0	7,248	111,993
ANATF_MD	DC	12,671	1,999	447,763	11,055	1,433	317,718	970	95	21,960	0	0	0		12,026
ANATF_MD	MD	469,011	48,861	86,454,560	294,029	33,237	47,005,706	149,357	7,208	22,921,343	0	0	0		443,386
SUBTOTAL		481,682	50,859	86,902,323	305,084	34,669	47,323,423	150,327	7,303	22,943,303	0	0	0	1,124	456,535
APPTF	VA	1,935,930	201,095	85,272,712	421,341	46,961	26,032,004	1,392,078	130,326	62,293,157	0	0	16,585,498		1,813,419
SUBTOTAL		1,935,930	201,095	85,272,712	421,341	46,961	26,032,004	1,392,078	130,326	62,293,157	0	0	16,585,498	26,741	1,840,160

BayTAS Data Flows – Current and Future Operational Data Flows



BayTAS Future Versions/Activities

- Short-Term Actions

- Evaluate impact of TMDL Errata on system
- Implement software changes only after Errata is finalized
- Finalize data process flows and other operational considerations
- Evaluate design considerations, feasibility and options (BMP Tracking, Milestones, Offsets etc.)
- Finalize Management Reports
- Continue IPT meetings (expand number of participants)

- Mid-Term Actions (3 months)

- Display Edge-of-Stream Loads
- Any fixes/features deemed “minor”

- Long-Term Actions (3 to 6 months or more)

- Implement BMP Tracking
- Implement Milestones Tracking
- Offsets, Reserves, Re-Allocations

BayTAS Future Versions – BMP Tracking

- BMP Project Status data will be submitted using National Environmental Information Exchange Network (NEIEN) Non-Point Source BMP Schema:
 - BMPs electronically reported in a common format by each Jurisdiction
 - Data includes BMP Type, Location, Components, Source, and verification
 - BMP data undergoes transformation prior to Bay Model use
 - BMP data stored on CDX node can be viewed by users to see most recent submissions
 - BMP data submission final snapshot used in “official” progress run is stored in BayTAS
 - Jurisdictions can “see” what was used by Bay Model for loadings reductions
- What is BMP Verification
 - Assigns credit (% effective or other measure) for a BMP based on quality of certification
 - EPA to finalize the verification scheme
 - BayTAS will save and display verification data used for progress runs

BayTAS Future Versions – Tracking 2-Year Loadings Milestones

- 2-Year Loadings Milestones
 - Jurisdictions' estimates/waypoints towards interim and final TMDL targets
 - Table B.2 of Phase I WIPs contains format
 - Lines up with Allocations and Progress Runs
 - Not all Jurisdictions submitted 2-Year milestones in Table B.2 format
 - Will seek input from IPT on feasibility of storing/tracking 2-Year milestones and other milestones/WIP commitments

BayTAS Future Versions - Offset Tracking

- Appendix S of the Chesapeake Bay TMDL outlines common elements of an Offset Program
- Key Assumptions in Appendix S
 - Expects Jurisdictions to accommodate any new or increased loadings of TN, TP, and TSS that lack a specific allocation in the TMDL with appropriate offsets
 - Offset program must be credible and transparent
 - Proposed Common Elements for Offset Program should ensure offsets and goals of the Bay TMDL are met with reliable pollution controls
 - BayTAS will work with Offset Policy Makers on feasibility/design of offset tracking features

BayTAS Future Versions - Reserves and Re-allocations

- Reserves
 - Final Bay TMDL contains reserves for 4 of 7 Jurisdictions
 - Waiting for guidance from EPA policy staff on procedures to allocate and track the reserves
- Re-allocations – the process by which loads become available for re-distribution within the State/Segment combination?
 - For example – facilities ceasing discharge.
 - Waiting on guidance on procedures from EPA policy staff