

Final Phase 3 WIP Sediment Targets

Principals' Staff Committee

January 24, 2020

James Martin

Chair, Water Quality Goal Implementation Team

with recognition to

Low Linker, EPA-CBP; Gary Shenk, USGS-CBP;
and the CBP Modeling Team



Chesapeake Bay Program
Science, Restoration, Partnership



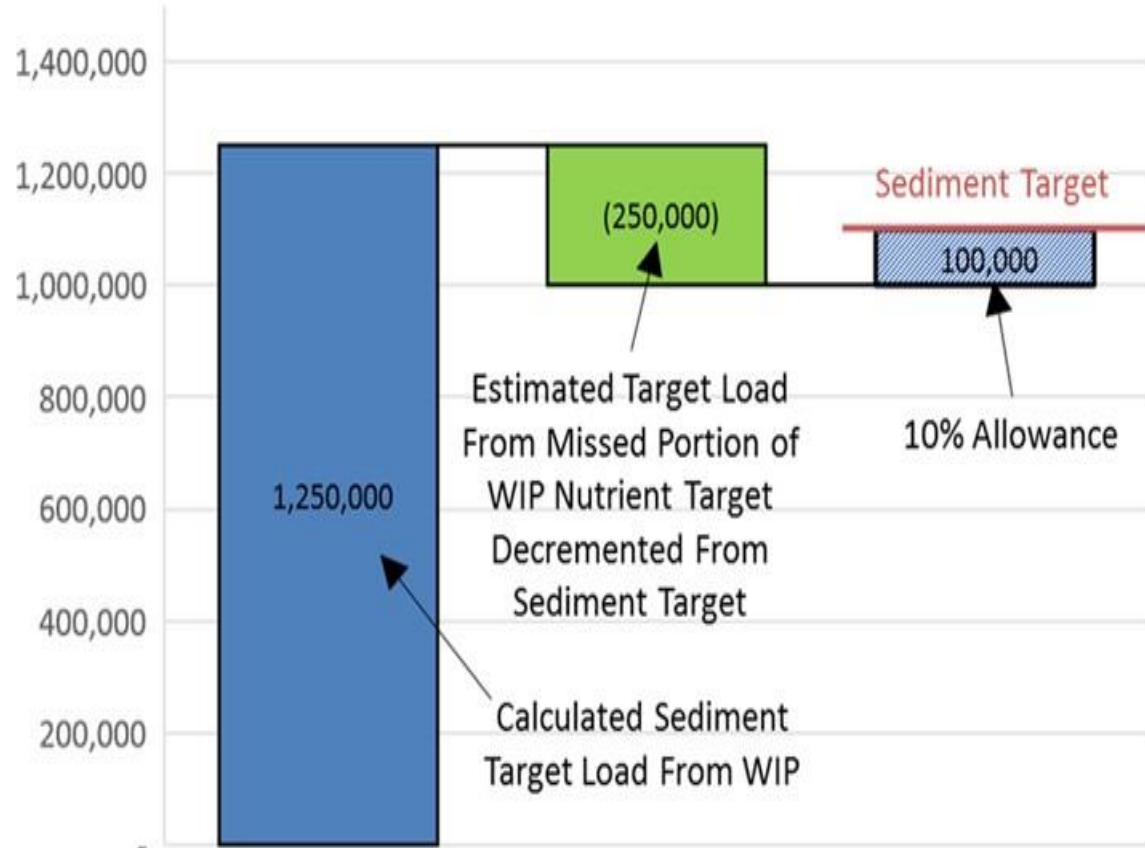
From PSC Phase III WIP Sediment Planning Target Document

“The sediment targets developed for the Phase III Watershed Implementation Plans (WIPs), as they have been for previous WIPs, **will be formed on the basis of the sediment load delivered to the Chesapeake Bay associated with management actions taken to address the Phase III WIP nitrogen and phosphorus targets.** In other words, the Best Management Practices (BMPs) that are identified in this WIP to meet the Phase III WIP nitrogen and phosphorus targets will be run through the Chesapeake Bay Program (CBP) partnership’s Phase 6 suite of modeling tools, and the resulting sediment loads will form the basis for the Phase III WIP sediment targets. **These sediment loads will be adjusted proportionally to account for any overshooting or undershooting of the Phase III WIP nitrogen and phosphorus targets. An additional 10% allowance will be added to the calculated Phase III WIP sediment target in each major basin.**”



Sediment Target Calculation

Example: Basin Jurisdiction Missed Nutrient Targets



Example: Basin Jurisdiction Exceeded Nutrient Targets



Final Planning Targets and Final WIPs with Sediment

StateBasin	2019 Planning Targets with Exchanges and Sediment			Final WIP3		
	Nitrogen	Phosphorus	Sediment	Nitrogen	Phosphorus	Sediment
DC Potomac	2.42	0.130	41.9	2.31	0.105	35.8
DE Eastern Shore	4.55	0.108	26.7	4.46	0.081	23.5
MD Eastern Shore	15.60	1.290	2903.4	15.44	1.211	2585.1
MD Patuxent	3.21	0.300	437.7	3.08	0.241	370.4
MD Potomac	15.80	1.090	1928.0	15.64	0.814	1692.5
MD Susquehanna	1.60	0.050	113.8	1.57	0.050	101.8
MD Western Shore	9.63	0.950	2959.9	8.97	0.918	2526.8
NY Susquehanna	11.53	0.587	532.7	12.53	0.544	518.0
PA Eastern Shore	0.46	0.022	27.4	0.54	0.022	28.9
PA Potomac	6.14	0.338	295.5	7.34	0.338	316.9
PA Susquehanna	66.87	2.544	1838.2	75.38	2.544	1866.3
PA Western Shore	0.02	0.001	0.3	0.02	0.001	0.3
VA Eastern Shore	1.83	0.152	473.3	1.55	0.141	368.1
VA James	21.81	2.241	2015.2	20.92	2.126	1752.4
VA Potomac	16.51	1.823	1929.7	15.38	1.674	1630.2
VA Rappahannock	7.09	0.819	1505.1	6.43	0.764	1247.2
VA York	5.71	0.548	949.1	5.30	0.524	803.6
WV James	0.05	0.006	13.0	0.05	0.005	10.9
WV Potomac	8.18	0.427	595.9	7.45	0.375	492.1



Conclusions

- Following the direction of the PSC and MB the Sediment Planning Targets were developed based on the final Phase III WIPs.
- All basin-to-basin and N:P exchanges were carried out and achieved Bay water quality standards as well or better than the July 2018 Targets agreed to by the PSC.
- The resulting final planning targets will guide the CBP until 2025 or until adjusted by the PSC.
- The Phase III WIP sediment targets will not affect the BMPs called for in the WIPs and are not intended to be the driver for implementation moving forward.
- The resulting final Phase III WIP sediment targets will be appended to the final Phase III WIPs by each jurisdiction.
- Sediment targets associated with the Conowingo planning targets pends completion of the final Conowingo WIP.