

Enhance Watershed Monitoring to Assess Progress Toward the Chesapeake Bay TMDL

An enhancement of 36 sites is needed in the Chesapeake Bay Program (CBP) nontidal water-quality monitoring network to better track progress toward the Chesapeake Total Maximum Daily Load (TMDL). The additional sites will allow USEPA and its partners to better measure nutrient and sediment load changes for major sources sectors (with a focus on agricultural and urban areas), in more local areas, and support re-evaluation of the TMDL and refinement of watershed implementation plans in 2017.

Current funding: EPA CBP program: \$916,000/yr;

Proposed increase FY2011: \$1,024,000

- 19 new primary sites
 - including 1 secondary site upgraded to primary site and 8 out-of-network existing monitoring sites with stream gages
- 10 new stream flow gages
- Sites will improve assessment of changes in major source sectors, small watersheds, watersheds with a large degree of BMP implementation, and will provide data in areas lacking monitoring to improve future calibration of the CBP model (i.e. Coastal Plain)
- Brings District of Columbia online as a monitoring partner and increases monitoring coverage in Maryland, Pennsylvania, Virginia and West Virginia
- These 19 sites are considered highest priority among partners for funding

Proposed increase FY2012: \$827,000

- 17 new primary sites
 - including 5 secondary sites upgraded to primary sites and 9 out-of-network existing monitoring sites with stream gages
- 3 new stream flow gages
- Sites will improve assessment of changes in major source sectors, watersheds with a large degree of BMP implementation, and will provide monitoring in areas lacking monitoring to improve future calibration of the CBP model (i.e. Coastal Plain)
- Increased monitoring coverage in Maryland, New York, Pennsylvania, and Virginia
- These 19 sites are second in priority among partners for funding

New combined additional funding for FY2011-2012: \$1,851,000 (Table 1).

Table 1. FY2011 and FY2012 budget by jurisdiction for new nontidal water-quality monitoring network sites to help assess progress toward the TMDL.

Jurisdiction	FY2011			FY2012			FY2011-2012
	# Sites	# Gages	Cost (\$)	# Sites	# Gages	Cost (\$)	Total Cost (\$)
Delaware	0	0	0	0	0	0	0
District of Columbia	4	4	244,000	0	0	0	244,000
Maryland	5	1	245,000	1	1	61,000	306,000
New York- SRBC	0	0	0	2	0	92,000	92,000
Pennsylvania - SRBC and PADEP	1	0	46,000	9	2	444,000	490,000
Virginia	4	2	214,000	5	0	230,000	444,000
West Virginia	5	3	275,000	0	0	0	275,000
Total Cost	874,000	150,000*	1,024,000	782,000	45,000*	827,000	1,851,000

* Gage cost is a one-time cost for gage installation