



Core Monitoring Network Funding

- FY22 Monitoring Needs Identified ~ \$5,200,000
 - O&M = \$3,000,000
 - Capital = \$1,800,000
 - Backfill = \$385,000
- FY22 EPA Monitoring Funds ~\$2,250,000
 - O&M = \$700,000
 - Capital = \$1,200,000
 - Backfill = \$500,000
- Includes:
 - 8 profiler continuous stations
 - 7 new RIM Con-Mon sensor packages
 - 5 new small watershed Con-Mon locations
- FY22 – FY26 EPA Funding
 - Maintain new and existing monitoring

Tidal Water Quality (WQ) Monitoring Network

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
Tidal WQ	8 new sites for vertical sensor arrays packages	Infrastructure	NOAA	\$422,000				
Funder				EPA				
Tidal WQ	Operate and maintain vertical sensor arrays	Operation & Maintenance	NOAA-IA	\$142,000	\$259,000	\$272,000	\$285,000	\$298,000
Funder				EPA	EPA	EPA	EPA	EPA
Tidal WQ	4D interpolator	Operation & Maintenance	USGS IA-MD		\$60,000	\$60,000	\$60,000	\$60,000
Funder					EPA	EPA	EPA	EPA
Tidal WQ	Nutrient limitation survey, calibrate and verify models	Operation & Maintenance	RFA	\$275,000	\$275,000			
Funder				EPA	EPA			

Nontidal Monitoring Network (NTN) [1]

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
NTN	7 RIM Con-Mon sensor packages completes RIM	Infrastructure	USGS IA- MD	\$325,000				
Funder				EPA				
NTN	10 more discrete samples at Marietta annually	Operation & Maintenance	USGS IA - MD	\$17,460	\$17,460	\$17,722	\$17,988	\$18,258
Funder				EPA	EPA	EPA	EPA	EPA
NTN	New 7 RIM ConMon network O&M	Operation & Maintenance	USGS IA - MD	\$240,000	\$248,400	\$257,094	\$266,092	\$275,406
Funder				EPA	EPA	EPA	EPA	EPA
NTN	Station loss backfill annual risks coverage	Operation & Maintenance	USGS IA		\$45,000	\$45,000	\$45,000	\$45,000
Funder					EPA	EPA	EPA	EPA
NTN	5 new Small Watershed ConMon locations. 6 sensor instrument	Infrastructure	USGS IA	\$375,000				
Funder				EPA				

Nontidal Monitoring Network (NTN) [2]

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
NTN	Operating 5 new Small Watershed ConMon sites	Operation & Maintenance	USGS IA		\$157,500	\$165,375	\$173,644	\$182,326
Funder					EPA	EPA	EPA	EPA
NTN	3 Lower Susquehanna Reservoir input ConMons <i>PA USGS cost basis</i>	Infrastructure	NA	\$126,300				
Funder				PA DEP				
NTN	Lower Susquehanna Reservoir (Marietta) ConMon operation	Operation & Maintenance	PA & USGS	\$246,000	\$234,000			
Funder				PA DEP	PA DEP			

Community Science (CS) Monitoring Network

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
CS	Under-represented community (5) monitoring equipment	Infrastructure	RFA		\$10,000			
Funder					EPA			
CS	SAV database API improving	Infrastructure	RFA		\$50,000			
Funder					EPA			
CS	SAV Watchers database development	Infrastructure	RFA		\$30,000			
Funder					EPA			
CS	Volunteer/Community Science SAV Watchers & Nitrate Monitoring program	Operation & Maintenance	RFA		\$211,150	\$217,485	\$224,010	\$230,730
Funder					EPA	EPA	EPA	EPA
CS	SAV Watchers database management	Operation & Maintenance	RFA		\$10,300	\$10,609	\$10,927	\$11,255
Funder					EPA	EPA	EPA	EPA

Submerged Aquatic Vegetation (SAV) Monitoring Network [1]

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
SAV	Satellite imagery	Infrastructure						
Funder								
SAV	AI interpretation of diverse satellite imagery	Infrastructure	NA	\$240,000				
Funder				NASA/ODU				
SAV	Calibrate/align historical and new assessments	Operation & Maintenance	NA	\$50,000				
Funder				VIMS				
SAV	Sentinel Site network	Operation & Maintenance	MD DNR					
Funder								

Submerged Aquatic Vegetation (SAV) Monitoring Network [2]

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
SAV	Computer science SAV area polygon drawing with AI output of SAV	Infrastructure	RFA (2 year)	\$70,000	\$70,000			
Funder				EPA	EPA			
SAV	Proof of concept: Test AI satellite-derived assessment on spring Zannachelia survey	Operation & Maintenance	RFA			\$150,000	\$150,000	
Funder						EPA	EPA	
SAV*	SAV program COLA	Operation & Maintenance	VIMS		\$35,525	\$54,090	\$73,213	\$92,909
Funder					EPA	EPA	EPA	EPA

Land Use Land Cover (LULC) Monitoring Network

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
LULC	Annual high resolution image acquisition and processing	Operations & Maintenance	NA	\$1,000,000 from the base budget				
Funder				EPA				

Toxics Monitoring Network

CBP NETWORK	Project	CATEGORY	Award Entity	FUNDING				
				Year 1	Year 2	Year 3	Year 4	Year 5
Toxics	3 new sites, 1 geo-region Fish/shellfish & surface water quality (PCB)	Operations & Maintenance	NA					
Funder								

Backfill Funds to Sustain Monitoring Networks

- Goal
 - Maintain existing monitoring networks
- Four Award Entities
 - USGS
 - PA
 - VA
 - MD

