



Responding to the PSC Request to Improve the CBP Monitoring Networks

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Principal Staff Committee Meeting

May 17, 2022



Recap: Interaction with Principal Staff Committee



- PSC request to enhance monitoring (Jan 2021)



- STAR-STAC leadership team conducted a CBP monitoring review (March 2021-February 2022)



- Draft report delivered and CBP community review (March-April, 2022)

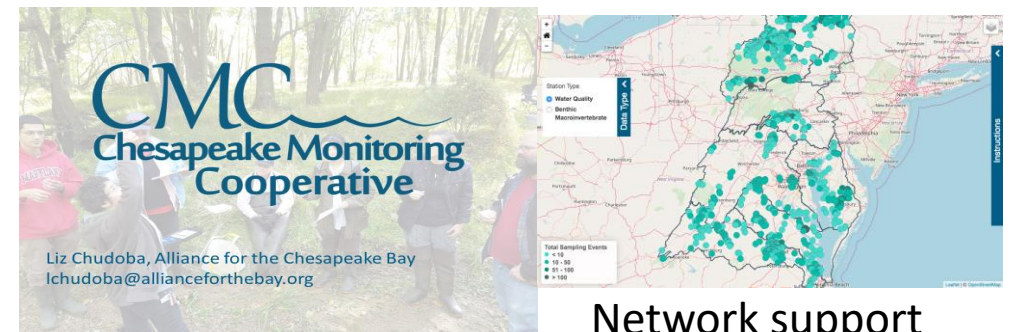
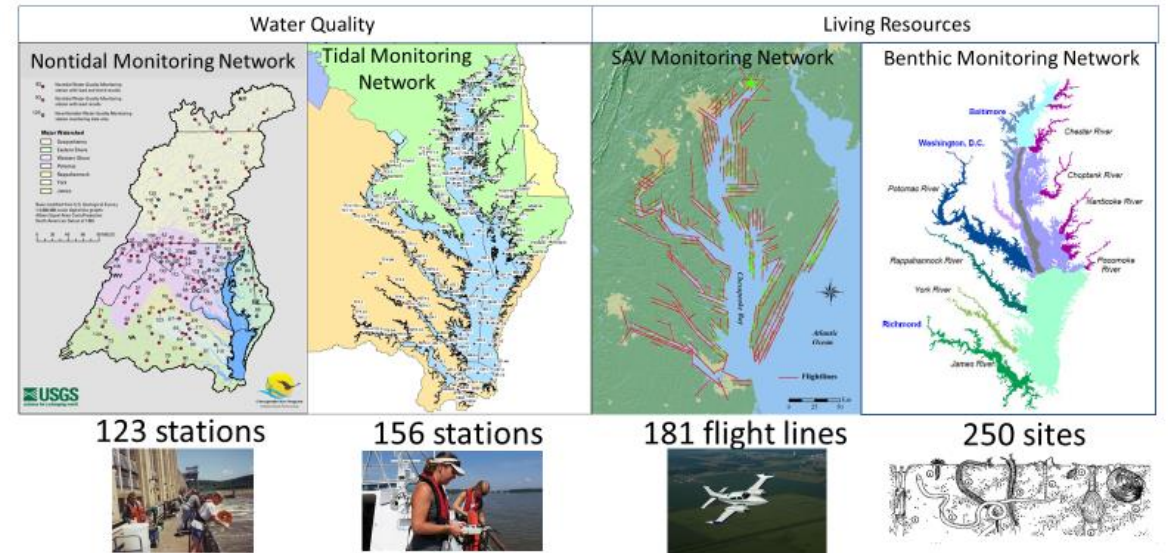


WORK IN PROGRESS

- Response to comments (underway May-June 2022)

- Report finalized (May-June 2022)

CBP Partnership Monitoring Networks: Annual Monitoring



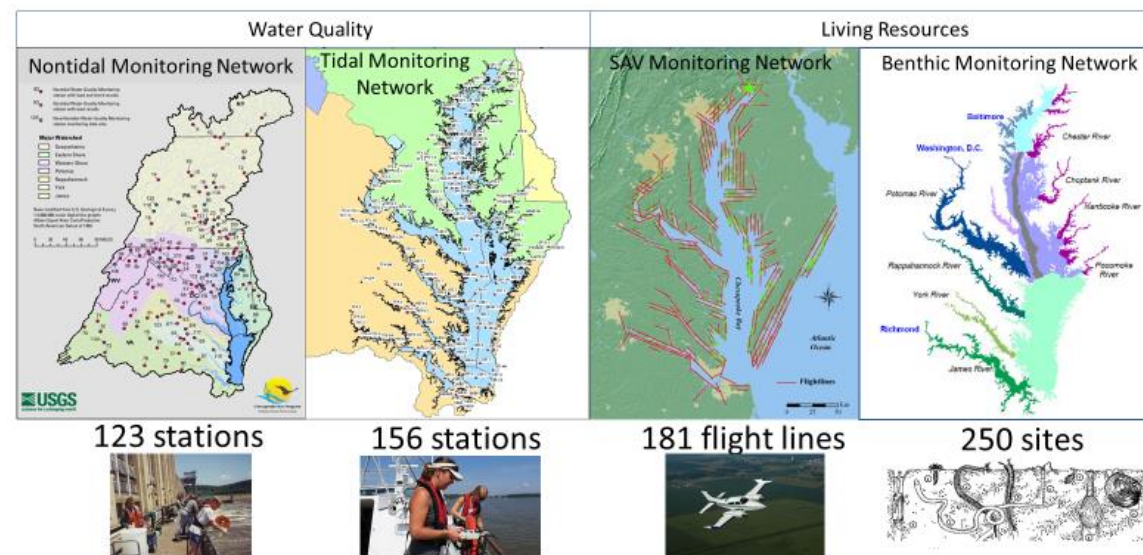
Path forward: Interaction with Principal Staff Committee



CBP Partnership Monitoring Networks: Annual Monitoring



- Next steps for PSC and today's ask
 - Identify monitoring leaders
 - Kick-off partnering meeting
 - More detailed discussions
 - Yearly check-in

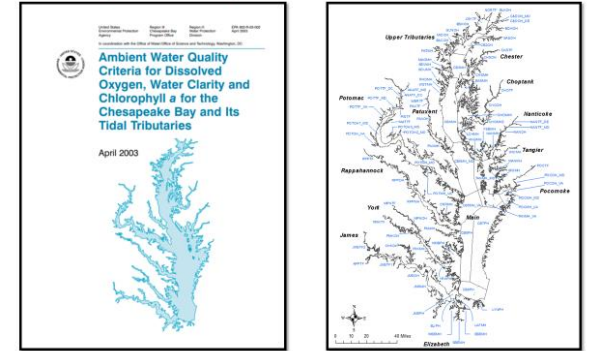


Network support

Reminder: Report recommendations developed around 3 themes

- Assessing tidal water quality standards to support living resources
- Evaluate implementation priorities for watershed-based outcomes
- Document CBP progress toward Watershed Agreement goals and outcomes

Chesapeake Bay Water Quality Standards



BEST MANAGEMENT PRACTICES (BMP'S)



Reminder: Key Findings of the Report

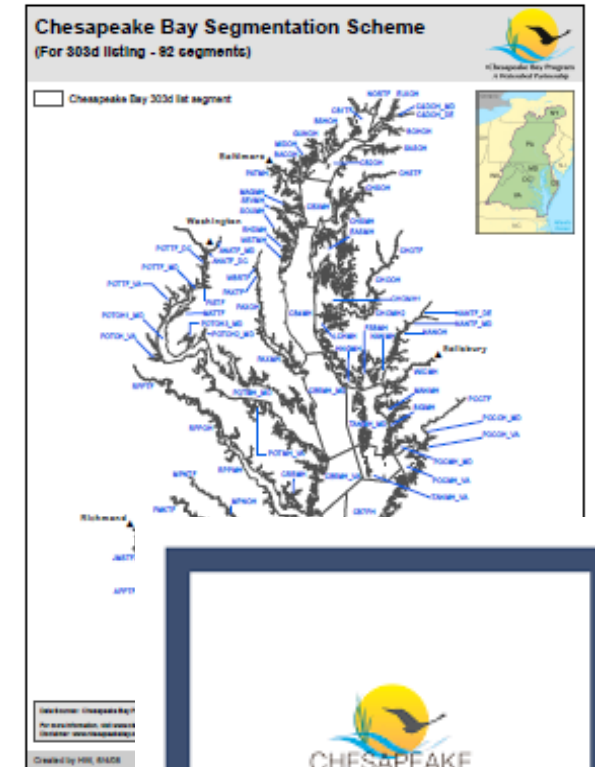
- Monitoring is critical

- Return on investment: Monitoring shows CBP partners progress towards goals from restoration efforts
- Need to maintain and enhance core CBP monitoring networks AND partner monitoring programs



Key Findings of the Report

- Monitoring for many CBP outcomes is insufficient
 - No segment of the bay has assessed all water-quality criteria, and therefore can't be delisted!
 - Some Outcomes need a more coordinated effort to track progress
 - Some Outcomes lack information to assess progress



Key Findings of the Report

- Opportunities for fundings exist
 - The CBP partners committed to achieving these outcomes have a unique opportunity to build monitoring capacity.



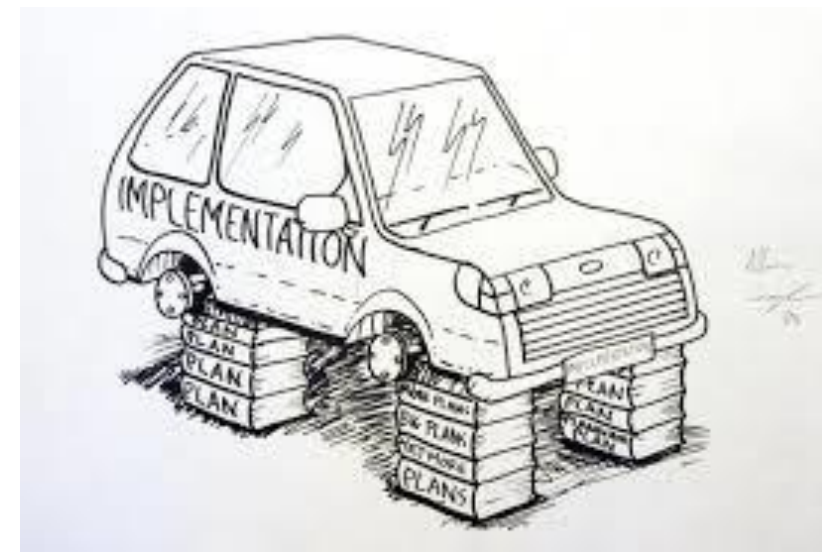
Major report review comments

- Majority of jurisdictions plus federal agency partners provided comments (Thank you! Really helpful!)



Major report review comments

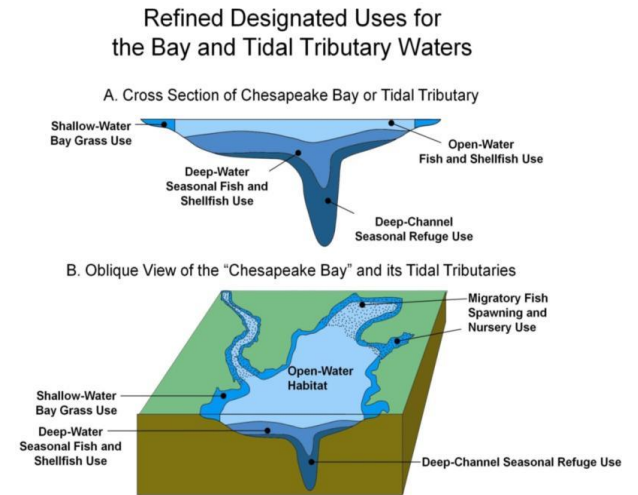
- Comment highlights
 - Better identify priorities
 - Provide more details on activities aligned with monitoring (such as data management)
 - Implement recommendations and pay for monitoring



Better identify priorities

Initial priorities have been identified

- Nearterm priorities
 - Maintain existing monitoring networks
 - Address regulatory requirements:
 - CBP outcomes for Attainment of standards
 - Monitoring for CBP outcomes that are behind schedule
- Extended priorities:
 - Expand support for watershed outcomes that don't currently have monitoring



Provide more details on activities that align with monitoring

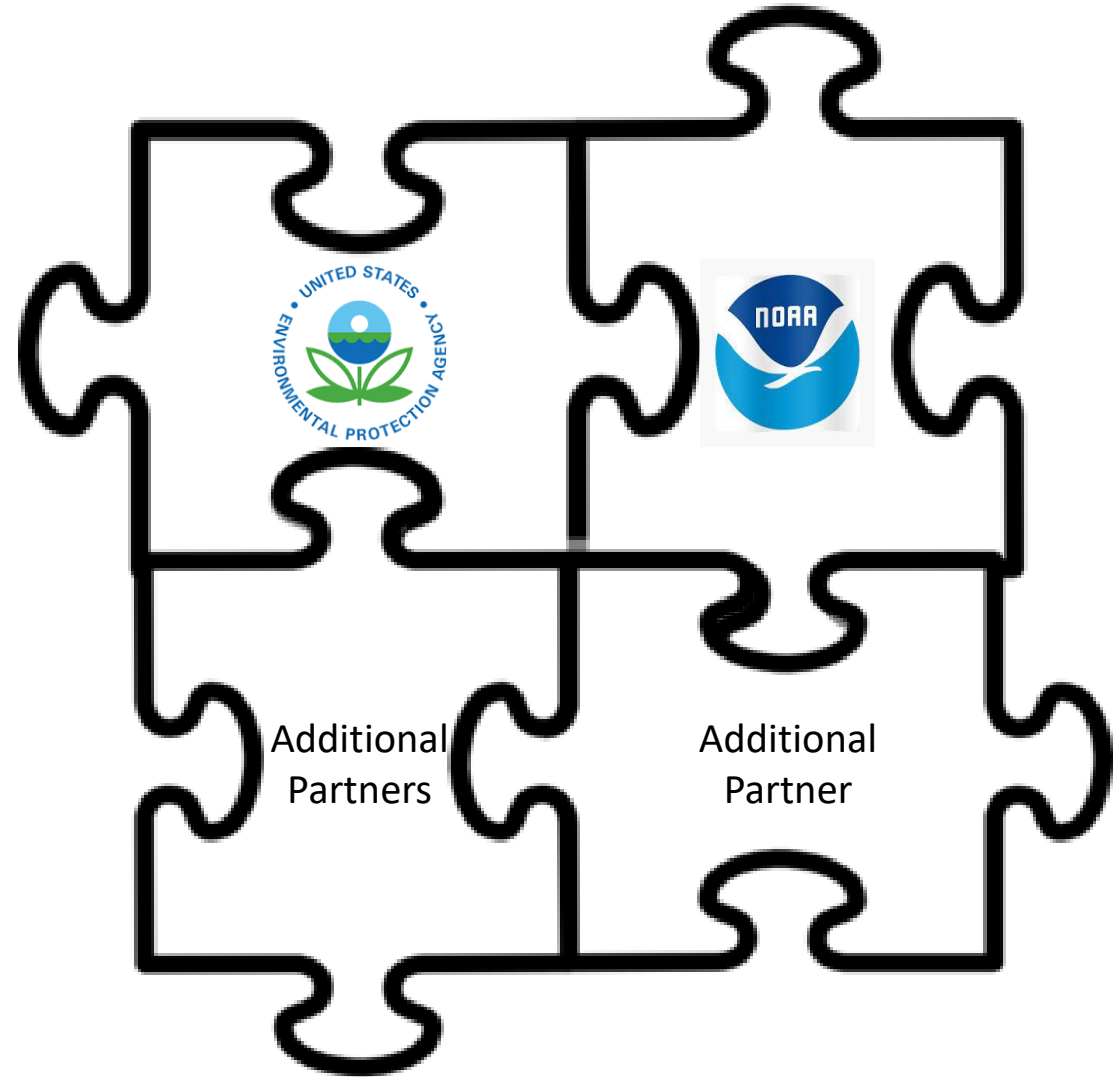
The report provides an a la carte menu of choices to enhance monitoring



- Priority data collection needs were the focus of this review
- Data management, analysis and reporting were recognized as important but not emphasized. These will be discussed during the monitoring implementation phase.
- The analysis framework already exists and will be improved through enhanced monitoring.

Implement recommendations and pay for monitoring

- Need a *multi-partner approach* to invest in gaps.
- Partners can identify which monitoring items they want to support
- Example: Hypoxia collaborative



Several partnerships are already developing for identified priority investments!



Satellite-based SAV assessment



Hypoxia network

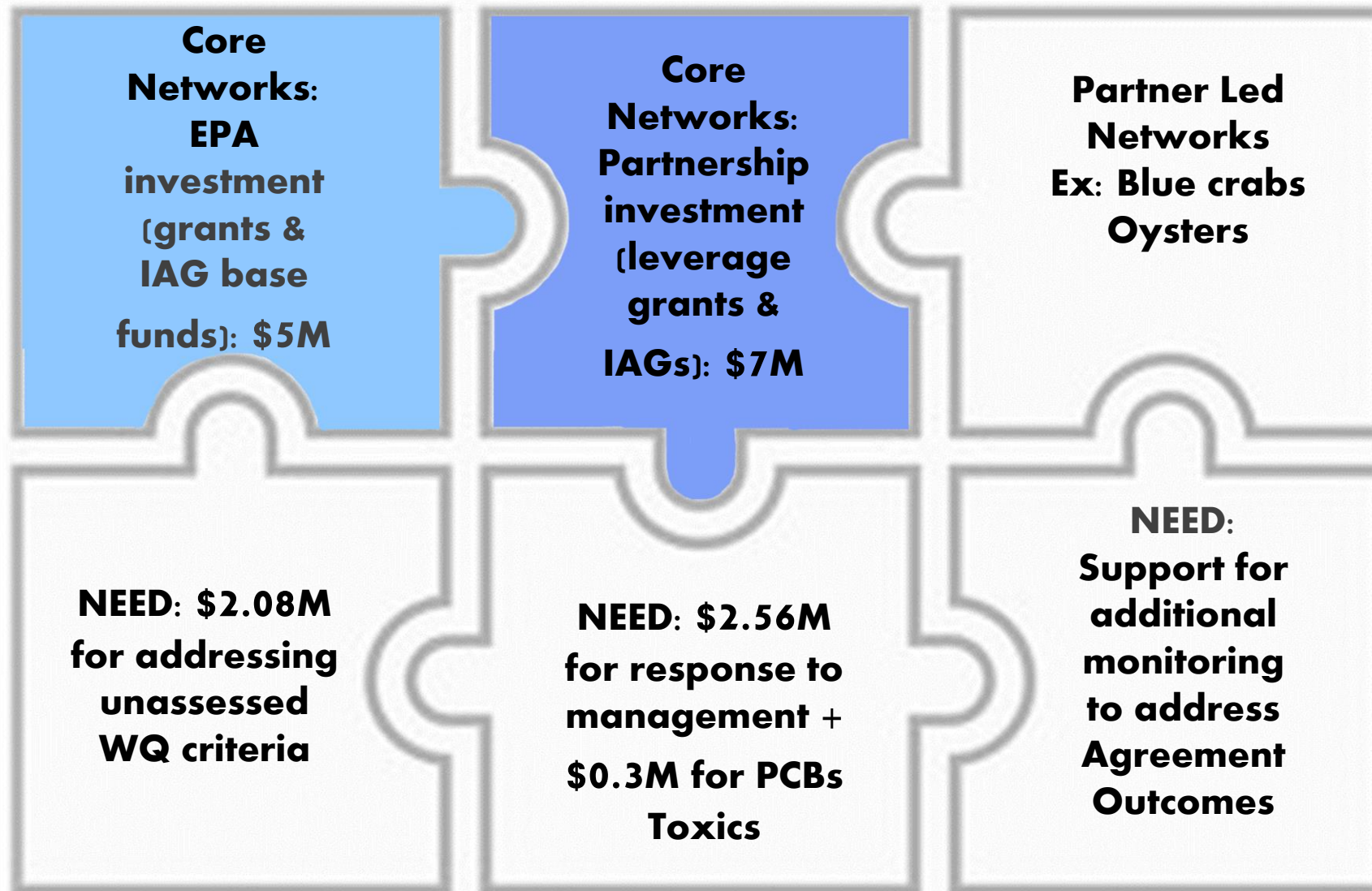


Continuous water quality monitoring at Conowingo Pool (Marietta)



Kick-off meeting: based on CBP needs assessment

Core Networks now. More networks to come.



Kick-off meeting: Work together with investment menu (subset of line items shown from the report)



Tidal Water Quality \$

- Program maintenance
- Hypoxia network 8 arrays
- 4D water quality interpolator
- Nutrient limitation surveys



Nontidal Water Quality \$

- Program maintenance
- Conowingo Continuous monitoring
- River input continuous monitoring
- Small watershed studies



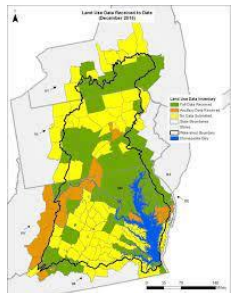
• Tidal SAV assessment \$

- AI satellite image interpretation
- Automated Polygon method development
- Sentinel site network
- Assessment calibration
- Pilot study of proposed satellite assessment on spring grasses



• Land Use Land Cover \$

- High resolution imagery



• Community Science \$

- Database enhancement for SAV
- SAV and nitrate field monitoring



Today's Ask: PSC and CBP work together to implement recommendations

- **There would be a kick off meeting of monitoring program managers to begin to implement short and long term recommendations.**
 - **PSC identify program managers for this meeting.**
Example: Lee McDonnell (EPA)
- **The Review Team suggests an annual update of the monitoring investment and implementation progress to the PSC.**
 - **STAR will coordinate development and maintenance of new network portfolios**

