



# Using Ecosystem Services to Increase Progress Toward & Quantify the Benefits of Multiple CBP Outcomes

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Habitat Goal Implementation Team meeting

Photos by Will Parson, Chesapeake Bay Program

# Workshop objectives

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**Engage with stakeholders on effective application of new ecosystem services (ES) results into tools and decision making at multiple levels**



**Develop recommendations for an actionable work plan of how ecosystem services can be used to address multiple CBP outcomes.**

Both short term (reaching 2025) and longer term (beyond 2025)

## **Day 1**

March 16

Speakers and  
Case Studies,  
concluded with  
listening session

## **Day 1.5**

April 18

Added session to  
fill some Day 1  
gaps

## **Day 2**

June 6

Bringing it all  
together and  
assessing  
potential actions  
from Days 1 & 1.5

# **Workshop Structure**

***Foundation has continued to grow w/in partnership***

## **Context: Why now?**

***Appetite, need and opportunity are increasingly clear***

**Build on 2017 STAC workshop**

McGee et al. 2017

**Partnership has made some progress**

e.g., Rossi et al. 2023

**Partners exploring and making moves in these areas**

See Day 1 speakers  
Elliot Campbell &  
Lisa Wainger

**Current approach falls short**

Reaching 2025 &  
CESR reports

**Water quality is not the salient incentive for most target audiences (implementers, landowners, etc.)**

**We are at a major pivot opportunity with partnership**

Beyond 2025  
Steering  
Committee

**“Make it easier”**

**“Ecosystem  
services can be  
the bridge  
between water  
quality and all the  
other outcomes  
we care about.”**

**“Making the case  
for ecosystem  
services is the  
next big economic  
driver for us in  
agriculture.”**

## **Findings**

*...In the words of three different participants*

# Workshop recommendations

- 01 **Develop a tool that quantifies ecosystem services currently being provided across the Chesapeake Bay Watershed.**
- 02 **Build capacity to support the integration of ecosystem services throughout the Chesapeake Bay Program.**
- 03 **Develop a framework for quantifying the ecosystem service impacts of select BMPs.**

# Workshop recommendations

- 04** Improve consideration of ecosystem services in land use planning and decision-making.
- 05** Improve consideration of ecosystem services in the funding and financing of Chesapeake Bay restoration activities.
- 06** Identify and follow pathways to improve institutional structures and supporting policies to better integrate ecosystem services into the next phase of the Chesapeake Bay Program beyond 2025.





## Conclusions



Why we need ecosystem services:

to help understand “the value of what we already have, what we might lose, and what we could gain, so that we can leverage every single dollar from every type of funding stream to get our projects paid for.” (excerpt from Anna Killius’ Day 1 talk)





## Conclusions



Academic, state, federal and local partners are already exploring piecemeal innovative approaches to apply ES concepts

**The Partnership has a unique opportunity to play an active role to leverage ES concepts at a watershed scale to achieve greater, more lasting progress toward multiple goals and outcomes that support healthy, vibrant and resilient watershed communities**

# THANK YOU!

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## Workshop Steering Committee:

Jeremy Hanson, CRC, Water Quality GIT Coordinator (Workshop Chair)

Ellen Gilinsky\*, Ellen Gilinsky LLC.

Bo Williams, EPA CBPO

Scott Phillips, USGS, Co-Chair of Scientific, Technical Assessment, and Report (STAR) Team (Retired)

Emily Pindilli, USGS, Director of USGS Science and Decision Center

Ryann Rossi, (former) EPA ORISE, now FSU-PC, St. Andrew and St. Joseph Bays Estuary Program

Kristin Saunders, UMCES

Lisa Wainger, UMCES-CBL

Susan Yee, EPA ORD

Kaylyn Gootman, EPA CBPO

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Bill Jenkins, EPA Region 3

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## References from slides

McGee, B., M. Bryer, J. Davis-Martin, L. Wainger, R. Batiuk, J. Greiner, S. Newbold, K. Saunders, S. Phillips, and R. Dixon. 2017. Quantifying Ecosystem Services and Co-Benefits of Nutrient and Sediment Pollutant Reducing BMPs. Edgewater, MD.  
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[https://cfpub.epa.gov/si/si\\_public\\_record\\_report.cfm?dirEntryId=357757](https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=357757)

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