



**U.S. EPA Chesapeake Bay Program
Tidal Monitoring and Analysis Workgroup**

2013 Workplan

January 25, 2013

[SUBJECT TO REVIEW AND REVISION]

- I) Priorities as they relate to Indicators:
 - a) Sustain the existing Bay Health water quality indicators annually reported by the Chesapeake Bay Program
 - i) Update dissolved oxygen, water clarity, and chlorophyll *a* indicators (LH) *(Spring 2013)*
 - b) Sustain the existing water quality indicators annually reported by EcoCheck's Chesapeake Bay Report Card
 - i) Update dissolved oxygen, water clarity, and chlorophyll *a* indicators (LH, CW, JK) *(Spring 2013)*
 - c) Sustain the EcoCheck Summer Review
 - i) Complete current conditions analyses (LH, CW) *(Fall 2013)*
 - d) Coordinate with Goal Implementation Teams to identify priorities for new indicator development (LH, NS, WB, PT)
 - i) Determine the feasibility and utility of developing a water temperature indicator *(Spring 2013)*
- II) Priorities as they relate to Criteria Assessment:
 - a) Support the Criteria Assessment Protocols (CAP) Workgroup efforts to develop and publish criteria assessment procedures for the remaining dissolved oxygen (DO) criteria currently without Partnership approved and state adopted assessment procedures
 - i) Recommendation for assessing the summer open-water 7-day mean for DO criteria (PT, LH, LR, CB, EP, ML, TR, WB, RT, **MDDNR/MDE**) *(Winter-Spring 2013)*
 - ii) Develop and present the implications of separating shallow-water from the offshore-water for the open-water 30-day mean DO criteria assessment (PT, LH, LR, CB, EP, ML, TR, WB, RT, **MDDNR/MDE**) *(Spring 2013)*
 - iii) Assess alternative definitions of "instantaneous minimum" and present options for a new definition in the context of CBP's DO criteria assessment methods (PT, LH, LR, CB, EP, ML, TR, WB, RT, **MDDNR/MDE**) *(Fall 2013)*
 - iv) Provide recommendations for incorporating high frequency DO measurement results into the 30-day mean assessments (PT, LH, LR, CB, EP, ML, TR, WB, RT, **MDDNR/MDE**) *(Winter 2013-2014)*
 - b) Consider and identify options for next steps related to the completion of the baywide shallow-water monitoring program *(Winter 2013-2014)*
- III) Assess and improve methods to better explain water quality conditions:
 - a) Identify a strategy to improve our current approach to reporting the status and trends of tidal waters (e.g., Absolute Status work) (EP, RK, BR, ML, TR, PT, LH, WB)
 - i) Update software
 - b) Survey techniques used to calculate hypoxia in the Bay and evaluate the various factors affecting hypoxia (LR, WB, LH, PT) *(Spring 2013)*
- IV) Further the understanding of water quality conditions across the watershed and tidal waters:

- a) Complete the summary of the lessons learned from the implementation of best management practices (BMP) as they relate to observed water quality changes to the Chesapeake Bay Watershed (LH, KF, LR, WB, NTWG) *(Spring 2013)*
 - i) Publish Technical Report and Newsletters (LH, KF, LR, CW, WB, SP)
- b) Conduct assessments of factors affecting water quality change in key areas (Eastern Shore – Choptank River Basin) and Potomac (2013-2015) (LH, PT, WB, NTWG, USGS) *(Summer/Fall 2013)*
- c) CERF Storm Effects Session (WB, PT) *(Fall 2013)*

Glossary of Acronyms:

NTWG Nontidal Water Quality Workgroup
 USGS United States Geological Survey

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 LR Lea Rubin, Staffer (CRC/CBPO)
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