**Restoration Effort Indicators**

***Reducing Pollution***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Reducing Nitrogen Pollution](http://www.chesapeakebay.net/indicators/indicator/reducing_nitrogen_pollution) | Update w/ 2011 data in April 2012 | okay | Water Quality GIT updated w/ 2011 data; embargoed until 2012 EC mtg | Water Quality GIT to update with 2012 data when avail. **(embargo for EC?)** |
| [Reducing Phosphorus Pollution](http://www.chesapeakebay.net/indicators/indicator/reducing_phosphorus_pollution) | Update w/ 2011 data in April 2012 | okay | Water Quality GIT updated w/ 2011 data; embargoed until 2012 EC mtg | Water Quality GIT to update with 2012 data when avail. **(embargo for EC?)** |
| [Reducing Sediment Pollution](http://www.chesapeakebay.net/indicators/indicator/reducing_sediment_pollution) | Update w/ 2011 data in April 2012 | okay | Water Quality GIT updated w/ 2011 data; embargoed until 2012 EC mtg | Water Quality GIT to update with 2012 data when avail. **(embargo for EC?)** |
| [Wastewater](http://www.chesapeakebay.net/indicators/indicator/wastewater) (supplemental to the Reducing Pollution indicators) | Develop new indicator in time for 2012 EC mtg | okay | Water Quality GIT updated w/ 2011 data; embargoed until 2012 EC mtg | Water Quality GIT to update with 2012 data when avail. **(embargo for EC?)** |

***Restoring Habitats***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Bay Grasses Planted](http://www.chesapeakebay.net/indicators/indicator/planting_bay_grasses)  | Update w/ 2011 data in time for 2012 EC mtg; tracking revised target | okay | Habitat GIT updated w/ 2011 data prior to 2012 EC mtg; did not revise target | Habitat GIT to update with 2012 data when avail. and revise target |
| [Wetlands Restoration Efforts](http://www.chesapeakebay.net/indicators/indicator/restoring_wetlands)  | Update w/ 2011 data in time for 2012 EC mtg; tracking revised target | okay | Habitat GIT revised to track new target and updated w/ 2011 data prior to 2012 EC mtg | Habitat GIT to update with 2012 data when avail. May need to track black duck outcome as well. |
| [Wetlands Enhancement and Rehabilitation](http://www.chesapeakebay.net/indicators/indicator/wetlands_enhancement_and_rehabilitation)  | Update w/ 2011 data in time for 2012 EC mtg; tracking revised target | okay | Habitat GIT was not able to update or revise to track new target prior to EC mtg | Habitat GIT to revise and ***update w/ 2011 data as soon as possible*** |
| [Re-Opening Fish Passage](http://www.chesapeakebay.net/indicators/indicator/reopening_fish_passage) | Update w/ 2011 data in time for 2012 EC mtg | okay | Habitat GIT updated w/ 2011 data prior to EC mtg | Habitat GIT to update with 2012 data when avail. |
| [Restoring Oyster Reefs](http://www.chesapeakebay.net/indicators/indicator/restoring_oyster_reefs) | Will no longer be used; replace w/ new metrics for oyster habitat/populations; partial assessment data available by 2013 EC mtg | okay | Fisheries GIT presented oyster metrics to MB in January 2012 | Fisheries GIT to develop new indicator when avail; Nita will remove old indicator from CBP website **(now? later?)** |

***Managing Fisheries***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Blue Crab Fishery Management](http://www.chesapeakebay.net/indicators/indicator/blue_crab_fishery_management)   | Update w/ 2011 data in time for 2012 EC mtg; tracking revised target | okay | Fisheries GIT revised to track new target; updated w/ 2011 data prior to EC mtg and 2012 data after | Fisheries GIT to update with 2013 data after 2013 Advisory Report is released (summer 2013) |
| Oyster Restoration | Developing indicator using new metrics for oyster habitat/populations by 2013 EC mtg | okay | Fisheries GIT presented oyster metrics to MB in January 2012 | Fisheries GIT to report partial assessment data in new indicator when avail. |

***Protecting Watersheds***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Planting Forest Buffers](http://www.chesapeakebay.net/indicators/indicator/planting_forest_buffers)  | Update w/ 2011 data in time for 2012 EC mtg; tracking revised target | okay | Forestry Workgroup revised to track new target and updated w/ 2011 data prior to 2012 EC mtg | Forestry Workgroup to update with 2012 when avail. |
| [Developing Watershed Management Plans](http://www.chesapeakebay.net/indicators/indicator/developing_watershed_management_plans) | Will no longer be used | Concerned this may have been a staff decision; wants to know if the Watershed GIT has dismissed indicator | Watershed GIT to follow up | Watershed GIT conducting a poll; ***will respond to MB request ASAP.*** |
| [Preserving Lands](http://www.chesapeakebay.net/indicators/indicator/preserving_lands) | Update w/ 2011 data in summer/fall 2012; tracking revised target | okay | Stewardship GIT working to revise and update | Stewardship GIT to revise and ***update w/ 2011 data in fall 2012*** |

***Fostering Stewardship***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Public Access Index](http://www.chesapeakebay.net/indicators/indicator/public_access) | Will no longer be used; replace w/ supporting indicator (public access points, see below) | okay | Remove index from CBP website and elevate the supporting indicator | Nita/Mike to remove index from CBP website and elevate supporting indicator **(now? later?)** |
| [Public Access Points to the Bay and Tributaries](http://www.chesapeakebay.net/indicators/indicator/public_access_points_to_the_chesapeake_bay_and_its_tributaries_by_state) | Update w/ 2011 data in summer/fall 2012; tracking revised target | okay | Stewardship GIT working to revise and update | Stewardship GIT to revise and ***update w/ 2011 data in fall 2012*** |
| [K-12 Education](http://www.chesapeakebay.net/indicators/indicator/education_and_interpretation) | MWEE will be revised by Spring 2013. Revision will be informed by the outcomes of STAC workshop | okay | Education Workgroup will revise and update but wants to keep current indicator up until the new one is ready | Education WG will develop draft metric by spring 2013, based on results of STAC workshop; pilot with 2013/14 academic year |
| PK-12 grade environmental literacy | Potential supplement to the K-12 Education Indicator; by 2013 EC meeting | okay | Education Workgroup will develop new indicator | Education Workgroup will develop in 2013 based on results of STAC workshop |
| [Citizen and Community Action: Bay Partner Communities](http://www.chesapeakebay.net/indicators/indicator/citizen_and_community_action) | Will no longer be used | okay | Remove old indicator from CBP website | Nita will remove old indicator from CBP website **(now? later?)** |

**Bay Health Indicators**

***Habitats & Lower Food Web***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Bay Grass Abundance](http://www.chesapeakebay.net/indicators/indicator/bay_grass_abundance_baywide) | Update w/ 2011 data in March 2012 | okay | SAV Workgroup updated w/ 2011 data | SAV Workgroup to update with 2012 data when avail. |
| [Phytoplankton (Index of Biotic Integrity)](http://www.chesapeakebay.net/indicators/indicator/phytoplankton) | Update w/ 2011 data in March 2012; may no longer be used | In addition to looking into the continued utility of the current phytoplankton indicator, determine if the removal of that indicator in the Habitats and Lower Food Web category will create a gap that needs to be filled or if reporting only on SAV and bottom habitat (B-IBI) is sufficient. | Tidal Workgroup updated w/ 2011 data; STAR will follow-up on MB response | Tidal Workgroup will ***respond to MB request ASAP.***  To discuss at Sept 6 (or Oct 4) TMAW mtg |
| [Bottom Habitat (Benthic Index of Biotic Integrity)](http://www.chesapeakebay.net/indicators/indicator/bottom_habitat) | Update w/ 2011 data in Feb 2012 | okay | Tidal Workgroup updated w/ 2011 data | Tidal Workgroup to update with 2012 data when avail. |
| [Tidal Wetlands Abundance](http://www.chesapeakebay.net/indicators/indicator/tidal_wetlands_abundance) | May no longer be used; Issues w/ tracking | Determine feasibility of continued updates | STAR will follow-up | Fred Irani (working w/ NOAA) ***will report back to Wetlands Workgroup*** |

***Fish & Shellfish***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Blue Crab Abundance](http://www.chesapeakebay.net/indicators/indicator/blue_crab_abundance_adults) | Update w/ 2011 data in time for EC mtg; tracking revised target for females | okay | Fisheries GIT revised to track new target; updated w/ 2011 data prior to EC mtg and 2012 data after | Fisheries GIT to update with 2013 data after 2013 Advisory Report is released (summer 2013) |
| [Striped Bass Abundance (Spawning Female Biomass)](http://www.chesapeakebay.net/indicators/indicator/striped_bass_abundance) | Update w/ current data in time for EC mtg; will revise to report coastal stock assessment | okay | Fisheries GIT not able to update in time for EC mtg | Fisheries GIT to revise and ***update with 2011 data as soon as possible*** |
| [Juvenile Menhaden Abundance in Maryland](http://www.chesapeakebay.net/indicators/indicator/juvenile_menhaden_abundance_maryland) | Update w/ current data in time for EC mtg; will revise to report coastal stock assessment | okay | Fisheries GIT not able to update in time for EC mtg | Fisheries GIT to revise and ***update with 2011 data as soon as possible*** |
| [American Shad Returning to Chesapeake Bay](http://www.chesapeakebay.net/indicators/indicator/american_shad_abundance) | May no longer be used | Want to know why not; believes CBP should continue to use indicator | Fisheries GIT to follow up | Fisheries GIT to ***respond to MB request ASAP;***STAR action teamto recommend new indicator |
| [Native Oyster Abundance (Biomass)](http://www.chesapeakebay.net/indicators/indicator/native_oyster_abundance) | Will no longer be used; replace w/ new metrics for oyster habitat/populations; partial assessment data available by 2013 EC | okay | Fisheries GIT presented oyster metrics to MB in January 2012 | Fisheries GIT to develop new indicator prior to 2013 EC; Nita will remove old indicator from CBP website **(now? later?)** |

***Water Quality***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Dissolved Oxygen Standards Attainment](http://www.chesapeakebay.net/indicators/indicator/dissolved_oxygen) | Update w/ 2011 data in April 2012 | okay | Tidal Workgroup updated w/ 2011 data | Tidal Workgroup to update with 2012 data when avail. |
| [Mid-Channel Water Clarity](http://www.chesapeakebay.net/indicators/indicator/mid_channel_water_clarity) | Update w/ 2011 data in April 2012 | okay | Tidal Workgroup updated w/ 2011 data | Tidal Workgroup to update with 2012 data when avail. |
| [Chlorophyll a](http://www.chesapeakebay.net/indicators/indicator/chlorophyll_a) | Update w/ 2011 data in April 2012 | okay | Tidal Workgroup updated w/ 2011 data | Tidal Workgroup to update with 2012 data when avail. |
| [Chemical Contaminants](http://www.chesapeakebay.net/indicators/indicator/chemical_contaminants) | Update w/ 2011 data in Nov 2012 | okay | STAR to follow up | STAR to ***update with 2011 data in Nov 2012*** |

**Watershed Health Indicators**

***Health of Freshwater Streams***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Health of Freshwater Streams in Watershed](http://www.chesapeakebay.net/indicators/indicator/health_of_freshwater_streams_in_the_chesapeake_bay_watershed) (B-IBI) | Update w/ 2011 data in April 2012 | okay | Non-Tidal Workgroup updated w/ 2011 data | Non-Tidal Workgroup to update with 2012 data when avail. |
| Brook Trout/Stream Health | Hope to have new indicator in April 2012 | okay | Habitat GIT/EBTJV presented concept to MB in May 2012; STAR in Aug 12 | STAR to assemble task group to make recommendations |

***Flow Adjusted Pollution Trends***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Nitrogen in Rivers Entering the Bay: Long-Term Flow Adjusted Concentration Trends](http://www.chesapeakebay.net/indicators/indicator/nitrogen_in_rivers_entering_chesapeake_bay_long_term_flow_adjusted_concentr) | Update with more current data in June 2012 | okay | Non-Tidal Workgroup updated with 2010 data prior to EC mtg | Non-Tidal Workgroup will ***update with 2011 data in fall 2012*** |
| [Phosphorus in Rivers Entering the Bay: Long-Term Flow Adjusted Concentration Trends](http://www.chesapeakebay.net/indicators/indicator/phosphorus_in_rivers_entering_chesapeake_bay_flow_adjusted_concentration_tr) | Update with more current data in June 2012 | okay | Non-Tidal Workgroup updated with 2010 data prior to EC mtg | Non-Tidal Workgroup will ***update with 2011 data in fall 2012*** |
| [Sediment in Rivers Entering the Bay: Long-Term Flow Adjusted Concentration Trends](http://www.chesapeakebay.net/indicators/indicator/sediment_in_rivers_entering_chesapeake_bay_flow_adjusted_concentration_tren) | Update with more current data in June 2012 | okay | Non-Tidal Workgroup updated with 2010 data prior to EC mtg | Non-Tidal Workgroup will ***update with 2011 data in fall 2012*** |
| [Nitrogen Yields and Short-Term Trends in Watershed Streams/Rivers](http://www.chesapeakebay.net/indicators/indicator/nitrogen_yields_and_short_term_trends_measured_in_watershed_streams_and_riv) | Update with more current data in 2012; revise maps | okay | Non-Tidal Workgroup to develop revised maps and update data | Non-Tidal Workgroup will revise/***update with 2011 data in fall 2012*** |
| [Phosphorus Yields and Short-Term Trends in Watershed Streams/Rivers](http://www.chesapeakebay.net/indicators/indicator/phosphorus_yields_and_short_term_trends_measured_in_watershed_streams_and_r) | Update with more current data in 2012; revise maps | okay | Non-Tidal Workgroup to develop revised maps and update data | Non-Tidal Workgroup will revise/***update with 2011 data in fall 2012*** |
| [Sediment Yields and Short-Term Trends in Watershed Streams/Rivers](http://www.chesapeakebay.net/indicators/indicator/sediment_yields_and_short_term_trends_measured_in_watershed_streams_and_riv) | Update with more current data in 2012; revise maps | okay | Non-Tidal Workgroup to develop revised maps and update data | Non-Tidal Workgroup will revise/***update with 2011 data in fall 2012*** |

***Land Cover***

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| --- | --- | --- | --- | --- |
| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Chesapeake Bay Watershed Forest Cover](http://www.chesapeakebay.net/indicators/indicator/bay_watershed_forest_cover) | Data source changing; historic time period to be reduced; move to this group (“Watershed Health”) | Okay w/ addition; asked STAR to review new data/time period | Nita/Mike added in July 2012; STAR will follow up with review | Peter Claggett and Sally Claggett will review and ***report back to Forestry Workgroup and STAR.*** |

***Additional Comments from MB:***

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| --- | --- | --- |
| **MB Response** | **Our Response** | **Next Steps** |
| Determine if the current mix of indicators in the Watershed Health categories are sufficient | STAR will follow-up | Watershed GIT and Non-Tidal Workgroup will work together to ***respond to MB request*** |

**Factors Impacting Health Indicators**

***Pollutants***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Nitrogen Loads and River Flow To the Chesapeake Bay](http://www.chesapeakebay.net/indicators/indicator/nitrogen_loads_and_river_flow_to_the_bay1) | Update w/ 2011 data in May 2012 | okay | Non-Tidal Workgroup not able to update May | Non-Tidal Workgroup to ***update with 2011 data in fall 2012*** |
| [Phosphorus Loads and River Flow To the Chesapeake Bay](http://www.chesapeakebay.net/indicators/indicator/phosphorus_loads_and_river_flow_to_the_bay) | Update w/ 2011 data in May 2012 | okay | Non-Tidal Workgroup not able to update May | Non-Tidal Workgroup to ***update with 2011 data in fall 2012*** |
| [Sediment Loads and River Flow To the Chesapeake Bay](http://www.chesapeakebay.net/indicators/indicator/sediment_loads_and_river_flow_to_the_bay) | Update w/ 2011 data in May 2012 | okay | Non-Tidal Workgroup not able to update May | Non-Tidal Workgroup to ***update with 2011 data in fall 2012*** |

***Land Use***

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| --- | --- | --- | --- | --- |
| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [Chesapeake Bay Watershed Population](http://www.chesapeakebay.net/indicators/indicator/chesapeake_bay_watershed_population) | Update w/ 2011 data in April 2012 | okay | STAR updated w/ 2011 data in June | Peter Claggett to update with 2012 data when avail. |
| [Chesapeake Bay Watershed Forest Cover](http://www.chesapeakebay.net/indicators/indicator/bay_watershed_forest_cover) | Data source changing; historic time period to be reduced; move to Watershed Health group | Asked STAR to review new data/time period; okay w/ adding to Watershed Health; concern w/ removal from “Factors” group | STAR will review; kept in “Factors”; added to new Land Cover category w/in Watershed Health group | Peter Claggett and Sally Claggett will review and ***report back to Forestry Workgroup and STAR.*** |

***Natural Factors***

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| **Indicator w/ Link** | **What We Told MB** | **MB Response** | **Our Response** | **Next Steps** |
| [River Flow](http://www.chesapeakebay.net/indicators/indicator/river_flow_into_chesapeake_bay) | Update w/ 2011 data in April 2012 | okay | Non-Tidal Workgroup updated w/ 2011 data in July | Non-Tidal Workgroup to update with 2012 data when avail. |
|  |  | Need new indicator in this category: *Water Temperature*  | STAR will follow up | Tidal Workgroup to discuss tidal water temp indicator at Sept 6 (or Oct 4) mtg; Non-Tidal Workgroup to develop non-tidal water temp indicator |

***Additional Comments from MB:***

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| --- | --- | --- |
| **MB Response** | **Our Response** | **Next Steps** |
| Determine if the current mix of indicators in the Factors Impacting Health categories are sufficient | STAR will follow-up | Watershed GIT and Non-Tidal Workgroup will work together to ***respond to MB request.*** Fisheries GIT may to become involved to consider incorporating an invasive catfish indicator. |