Status of Current and Upcoming BMP Expert Panels of the Chesapeake Bay Program Partnership

The Chesapeake Bay jurisdictions implement Best Management Practices (BMPs) to achieve the goals set forth in the 2010 Chesapeake Bay TMDL. Through the Protocol for Development, Review and Approval of Loading and Effectiveness Estimates for Nutrient and Sediment Controls, newer practices and technologies are considered and evaluated for inclusion in the Chesapeake Bay Program partnership modeling tools by expert panels. Existing practices are re-evaluated to ensure they reflect the best available scientific data and information. Below is a table identifying those BMPs that are currently undergoing the expert panel process. A list of completed expert panels can be found on Chesapeake Stat: http://stat.chesapeakebay.net/?q=node/130&quicktabs_10=3

BMP Expert Panel	Key Contact(s)	Description	Current Status	Next Steps
Current Panels				
Nutrient Application Management ***Start Date: 2011*** ***Anticipated End Date: October 2015***	Agriculture Workgroup: Chris Brosch and Mark Dubin	The Expert Panel was charged with defining the effectiveness of nutrient management on reducing nutrient and sediment pollution. The panel has organized the practice into three tiers, each building on the previous tier in succession.	The Management Board agreed that the Tier I nitrogen and phosphorus efficiencies and the Tier II and Tier III nitrogen efficiencies stand. They additionally approved the Tier II efficiencies for phosphorus and agreed that acres being credited for Tier II phosphorus are conditional on the pending Nutrient Management Taskforce's cross-walk and on the states providing adequate compliance documentation for Tier II phosphorus.	The Nutrient Management Taskforce is in the process of receiving completed crosswalk forms from the jurisdictions. The Taskforce will present a summary of the crosswalk and any issues, gaps, or concerns during the November Agriculture Workgroup meeting and December Water Quality GIT meeting.
Manure Technologies ***Start Date: December 2014***	Agriculture Workgroup and Virginia Tech: Jeremy Hanson	Expert Panel will determine pollution control performance measure estimates for the following six (6) prioritized manure technology BMPs: Microbial Digestion (aerobic/anaerobic); Chemical	The expert panel is compiling their report.	The panel currently plans to release its full set of recommendations for partnership review in late 2015.

Anticipated End Date: February 2016		Treatments – Dry Manure; Thermal (or Thermochemical) Treatment; Solid-Liquid Separation; Composting; and Chemical Treatments – Wet Manure		
Phase 6 Nutrient Management ***Start Date: July 2015*** ***Anticipated End Date: April 2016***	Agriculture Workgroup: Mark Dubin and Frank Coale	The Expert Panel is charged with reviewing definitions and estimates from Phase 5.3.2, determining how nutrient management practices can be applied to Phase 6.0 land uses, making recommendations on model representation of soil nutrient residuals, and collaborating with other Agriculture Workgroup panels.	The Panel held its open stakeholder meeting on September 10th, and presented its initial work to the Agriculture Workgroup during the September quarterly meeting.	The panel will work towards developing a provisional report during its next meeting on November 20th.
Phase 6 Cover Crops ***Start Date: August 2015*** ***Anticipated End Date: April 2016***	Agriculture Workgroup: Mark Dubin and Ken Staver	The Expert Panel is charged with translating all Phase 5.3.2 cover crop efficiencies to the Phase 6.0 model, reviewing and updating efficiencies for eligible commodity cover crops, and collaborating with Conservation Tillage Panel to address credits for winter crops that receive fall nutrients.	The open stakeholder meeting was held on August 19th, and the panel presented its initial work to the Agriculture Workgroup during the September quarterly meeting.	The panel will work towards developing a provisional report.
Phase 6 Conservation Tillage ***Start Date: August 2015*** ***Anticipated End Date: April 2016***	Agriculture Workgroup: Mark Dubin and Wade Thomason	This Expert Panel is tasked with reviewing Phase 5.3.2 definitions and effectiveness estimates for conservation tillage and HRTill, and making adjustments for Phase 6.0. The Panel will also determine which Phase 6.0 land uses conservation tillage can be applied to.	The panel presented its initial work to the Agriculture Workgroup during the September quarterly meeting, and held follow-up meetings on October 15th and November 2nd.	The panel is reviewing relevant literature and will work towards developing a provisional report.
Animal Waste Storage Facilities ***Start Date: Fall 2015***	Agriculture Workgroup and Virginia Tech: Jeremy Hanson	The panel will evaluate the nutrient reduction potential of various manure storage and handling systems implemented in the region for various livestock categories. This evaluation will	The AgWG approved the panel membership in October 2015.	The panel is currently working to schedule its first few calls and open stakeholder session.

Anticipated End Date: TBD		include Poultry Heavy Use Area Concrete Pads. The panel will also assess existing model assumptions for storage and handling nutrient losses that affect baseline loading from animal production areas.		
Manure Injection/Manure Incorporation ***Start Date: July 2015*** ***Anticipated End Date: April 2016***	Agriculture Workgroup: Mark Dubin and Curtis Dell	This Exert panel will identify and define appropriate manure injection and incorporation technology, evaluate nutrient and sediment transport associated with this technology for effectiveness estimates, and consider variations of application and effectiveness estimates associated with physiographic regions and cropping systems in the Bay watershed.	The panel had a meeting on October 14th and discussed the literature review.	The panel will continue reviewing the relevant literature and will work towards developing a provisional report.
Urban Tree Planting/Expanded Tree Canopy ***Start Date: March 2015*** ***Anticipated End Date: June 2016***	Forestry Workgroup & Virginia Tech: Jeremy Hanson	The Panel will be charged with determining pollution control performance measure estimates for the expansion of urban tree canopy. The Expert Panel will define the conditions under which trees planted in the urban environment reduce stormwater runoff and associated nutrient and sediment loads.	The panel is evaluating evidence to quantify options for an annual BMP and is starting to formulate its recommendations for its forthcoming report.	The panel will continue to build on its work thus far to deliver its recommendations report in late 2015 or early 2016.
Wetlands Panel ***Start Date: October 2014*** ***Anticipated End Date: July 2016***	Habitat GIT and Virginia Tech: Jennifer Greiner and Jeremy Hanson	The Panel will discuss proposed methods to define and allocate loads to wetlands wetlands as a land use in the Phase 6 CBP modeling tools. Also reviewing wetland restoration, creation, and enhancement, as water quality BMPs and their possible habitat benefits.	The partnership has agreed to include two land use classes for nontidal wetlands in the Phase 6 Watershed Model (Floodplain and Other).	The panel will now focus on the water quality benefits of existing wetlands and wetland BMPs.

Floating Wetlands ***Start Date: Sep 2013*** ***Anticipated End Date: Summer 2016***	Stormwater Workgroup: Tom Schueler and Cecilia Lane	The Expert Panel was charged with determining pollution control performance measures for Floating Treatment Wetlands.	Panel developing recommendations.	Panel will continue developing their report.
Street Sweeping ***Start Date: September 2013*** ***Anticipated End Date: September 2015***	Stormwater Workgroup: Tom Schueler	The Expert Panel was charged with determining pollution control performance measures for Street Sweeping practices.	The panel conducted a debut webinar of the recommendations on September 29 and presented to the USWG on October 20.	The Panel is developing a response to comments document based on feedback received during the open comment period, and the USWG review.
Advanced Onsite Systems, Part 2 (broader view) ***Start Date: June 2014*** ***Anticipated End Date: January 2016***	Wastewater Treatment Workgroup: Ning Zhou, and Dave Lindbo	The Panel will determine how to factor nutrient attenuation into Chesapeake Bay TMDL onsite wastewater treatment system load estimates and BMP efficiency factors. The Panel will provide recommendations on the development of spatial variable nutrient attenuation rates based on many factors such as soil, site location, and system characteristics. They will determine whether the Bay model can be improved by using the variable attenuation rates, rather than using a constant attenuation rate.	The Panel has completed the development of its recommendations and is making final edits to its report.	The Panel will release the report for Partnership review in December, 2015.
Algal Flow-Way Technologies	Watershed Technical Workgroup:	The panel is reviewing draft recommendations for nutrient and sediment reductions from algal flow-	The Panel finalized their recommendations and the report was distributed to the	The Panel is presenting their recommendations to the WTWG on November

Start Date: March 2013 ***Anticipated End Date: September 2015***	Sarah Lane and Matt Johnston	way technologies (AFTs). The final report will provide guidelines to facility managers and states for tracking and reporting reductions from these facilities.	Partnership for review on October 23, 2015.	5. That will kick-off the 30 day open comment period.
Impervious Disconnection ***Start Date: August 2015*** ***Anticipated End Date: TBD***	Stormwater Workgroup and Virginia Tech: Jeremy Hanson	The disconnection of existing acres of impervious cover through certain engineering and/or field assessment methods that will be evaluated and defined by the expert panel.	The panel convened for its first call in August. The panel hosted its public stakeholder forum on 9/15.	The panel is compiling and reviewing relevant literature.
Oyster Restoration/Aquaculture ***Start Date: May 2015*** ***Anticipated End Date: Summer 2016***	Oyster Recovery Partnership (ORP): Ward Slacum and Julie Reichert	Four proposed objectives for the Panel include: 1. Establish a crediting framework that evaluates oyster practices and associated nutrient cycling processes on an individual basis, 2. Resolve outstanding policy questions, 3. Evaluate the suitability of modeling approaches to fill in current knowledge gaps, and 4. Evaluate existing scientific information using the established crediting framework to determine nutrient reduction effectiveness of individual oyster practices.	The Panel held their public stakeholder forum on November 2.	The expert panel is in the process of compiling and reviewing relevant literature.
Upcoming Panels				

Cropland Irrigation Management ***Start Date: Fall 2015*** ***Anticipated End Date: TBD***	Agriculture Workgroup: Mark Dubin	TBD	The Agriculture Workgroup has approved the panel charge.	Based on the Agriculture Workgroup's recommendation, a panel is expected to be convened in the fall.
Agricultural Stormwater Structures / Nursery and Greenhouse Runoff Capture and Reuse ***Start Date: Fall 2015*** ***Anticipated End Date: TBD***	Agriculture Workgroup: Mark Dubin	TBD	The Agriculture Workgroup has approved the panel charge.	Based on the Agriculture Workgroup's recommendation, a panel is expected to be convened in the fall.
New Bioretention designs with enhanced nutrient reduction features ***Start Date: Last Quarter of 2015*** ***Anticipated End Date: TBD***	Stormwater Workgroup: Tom Schueler	TBD	TBD	TBD
Onsite Treatment Systems II ***Start Date: TBD*** ***Anticipated End Date: TBD***	Wastewater Treatment Workgroup: Ning Zhou	A peat septic system functions much like a conventional Title 5 septic system with the exception that the wastewater receives treatment by being filtered through 2 to 3 feet of peat before being discharged to the soil for final disposal.	A panel will be convened to determine if a generic class can be established that would encompass a range of peat treatment system technologies and if a higher nitrogen reduction efficiency	The charge and proposed membership for this panel is currently under development and will be presented to the WWTWG for review and approval in December 2015.

		Pressure-dosed dispersal is an in situ, or soil treatment, process that allows for uniform distribution of effluent across the entire dispersal field. Dosing allows for the creation of fluctuating aerobic/anoxic environments, which sets up the conditions for nitrification and denitrification to occur.	can be assigned to the existing Shallow Paced, Pressure Dispersal BMP.	