

**Requests for Information and Additional Documentation from the
Chesapeake Bay Program Partnership's BMP Verification Review Panel's
December 6th, 2012 Meeting**

Chesapeake Bay Program Office Staff Responses: January 25, 2013

All these responses, the provided attachments, and the links will also be posted on-line under the "Projects and Resources" tab on the Panel's web page at:

http://www.chesapeakebay.net/groups/group/bmp_verification_review_panel

1. *Chesapeake Bay Program Office (CBPO) staff will distribute a copy of the CBP BMP Protocol and provide the URL links to the BMP documentation generated to date, and the list of existing and planned BMP panels to the BMP Verification Review Panel members.*
 - a. Provided as an attachment. Alternatively, the BMP Review Protocol is available here: http://www.chesapeakebay.net/documents/merged_Nutrient-Sediment_Control_Review_Protocol.pdf
 - b. Documentation and Tables for CBP-approved BMPs is available under the "Projects and Resources" tab of the BMP Verification Committee webpage: http://www.chesapeakebay.net/groups/group/best_management_practices_bmp_verification_committee
 - c. A list of planned and ongoing BMP expert panels is available here: http://stat.chesapeakebay.net/?q=node/130&quicktabs_10=3
2. *CBPO staff will provide the BMP Verification Review Panel members with a copy of the compiled comments from Panel members on the then draft BMP verification principles.*
 - a. The minutes to the Verification Committee's October 31st conference call includes responses to the Panel members' comments: http://www.chesapeakebay.net/channel_files/18700/cbp_bmp_verification_committee_10_31_2012_conf_call_summary.pdf
3. *CBPO staff will provide the Panel members with a spreadsheet summarizing the past and present levels of BMP implementation by jurisdictions as well as basinwide along with summaries of BMPs planned to be implemented through 2025 under the jurisdictions' Phase II Watershed Implementation Plans.*
 - a. Prior to providing Panel members with BMP spreadsheet data, notification to jurisdictions about public posting of reported historic as well as planned (Milestone and WIP) BMP implementation will go through Watershed Technical Workgroup at 2/4/13 meeting. Jurisdictions have already been informed of future availability of this information through ChesapeakeStat Water Quality (<http://stat.chesapeakebay.net/?q=node/130>). Also, see number 11 below.
4. *CBPO staff will share the draft Agriculture Workgroup's Tetra Tech report with the Panel members.*
 - a. Provided as an attachment. The report is in draft form and subject to change.

5. *CBPO staff will provide the Panel members with the URL links to the jurisdictions' Phase II Watershed Implementation Plans.*
 - a. *Links to the jurisdictions' Phase I and Phase II Watershed Implementation Plans or WIPs are available here:*
<http://www.epa.gov/reg3wapd/tmdl/ChesapeakeBay/EnsuringResults.html>
6. *CBPO staff will provide the Panel members with an estimate of the stormwater loads that currently come from regulated vs. non-regulated areas across the Chesapeake Bay watershed.*

Total and relative loads from regulated and non-regulated stormwater areas in the Chesapeake Bay (2011 delivered loads) as estimated through the Phase 5.3.2 Chesapeake Bay Watershed Model

	<i>TN (lbs/yr)</i>	<i>TP (lbs/yr)</i>	<i>TSS (lbs/yr)</i>
Regulated Stormwater	22,725,000	1,504,000	1,011,239,000
Non Regulated Stormwater	17,348,000	1,534,000	1,034,872,000
Total Stormwater	40,073,000	3,038,000	2,046,111,000
Regulated (% of total)	57%	50%	49%
Non Regulated (% of total)	43%	50%	51%

Data provided by Sucharith Ravi, UMCES/CBPO 1/7/2013

7. *CBPO staff will work to develop an estimate of the level of reductions the seven watershed jurisdictions are seeking from non-regulated stormwater sources/areas in their Phase II WIPs.*

Non-regulated stormwater reductions as percent of total reductions (all sources combined) in annual delivered loads, 2009-2025 as estimated through the Phase 5.3.2 Chesapeake Bay Watershed Model based on the seven jurisdictions' Phase II TMDL Tracking

	<i>TN (%)</i>	<i>TP (%)</i>	<i>TSS (%)</i>
DC	0.31	-0.17 [#]	-17 [#]
DE	35 ⁺	29 ⁺	-3126 ⁺
MD	12	20	123
NY	-	-	-
PA	10	17	28
VA	5	9	34
WV	-16 [#]	2	8
Basinwide*	9	13	35
<p>Note: NY Phase II WIP results are pending * based on sum of all 2009 loads (including NY) and 2009-2025 reductions (excluding NY) [#] These values are negative because the</p>			

jurisdiction already met its 2025 target in its 2009 progress.

⁺ Delaware's Phase II WIP shifts all non-regulated stormwater loads into the regulated category, so these values are based on a 2025 target of 0 lbs/yr.

Data provided by Sucharith Ravi, UMCES/CBPO, 1/22/2013. See page 4 for the full table of loads and reductions (for all sources and non-regulated stormwater) by jurisdiction.

8. *CBPO staff will provide the Panel members with copies of the Center for Watershed Protection's James River visual inspection form as provided by Norm Goulet, CBP Urban Stormwater Workgroup Chair.*
 - a. Provided as attachment.
9. *CBPO staff will provide the Panel members with a breakdown of public vs. private forest lands and the percentage of harvesting on public vs. private lands.*
 - a. Eighty percent of forests in the Chesapeake Bay watershed are on private land.
 - b. Almost all harvesting takes place on private land; only a small portion (~1.5% in VA and MD) occurs on public land.
 - c. Source for (a) and (b): Sally Claggett, U.S. Forest Service, personal communication.
10. *CBPO will provide a written meeting summary to the Panel. Panel members will be asked to review draft summary and provide specific edits to the draft to ensure it fully reflects the Panel's discussions and agreed to follow up actions.*
 - a. Complete, having factored in review comments from Panel members. Provided as attachment. Also view the final meeting summary here:
http://www.chesapeakebay.net/channel_files/18952/cbp_bmp_verification_review_panel_12_6_2012_meeting_summary-final.pdf
11. *CBPO staff will provide materials that identify the most common practices being applied by the jurisdictions as well as those practices which are responsible for the greatest level of pollution load reductions within each of the source sectors.*
 - a. Forthcoming; Analysis underway by Jeff Sweeney, EPA CBPO and Matt Johnston, UMD/CBPO. Results will be shared at the 2/21/13 face-to-face meeting of the BMP Verification Committee: <http://www.chesapeakebay.net/calendar/event/18958/>

Summary Table of Jurisdictions' Reductions from Non-regulated Stormwater under their Phase II TMDL Tracking, 2009-2025 as Estimated through the Phase 5.3.2 Chesapeake Bay Watershed Model

	2009 Total Load (all sources)	2025 Phase II TMDL Tracking	Total Reduction	2009 Load from Non-Regulated Stormwater	2025 Phase II TMDL Tracking for non-regulated stormwater	Reduction in Non-Regulated Stormwater	% Non-regulated stormwater reductions as % of total reductions, 2009-2025
	(delivered lbs/yr)	(delivered lbs/yr)	(delivered lbs/yr)	(delivered lbs/yr)	(delivered lbs/yr)	(delivered lbs/yr)	
District of Columbia							
TN	2,877,080	2,373,144	503,936	41,770	40,222	1,548	0.31
TP	71,054	120,017	-48,964	3,434	3,353	81	-0.17
TSS	16,948,111	17,390,153	-442,042	2,941,689	2,864,486	77,203	-17.47
Delaware							
TN	4,474,253	3,391,049	1,083,204	380,644	0	380,644	35.14
TP	345,140	276,832	68,307	19,499	0	19,499	28.55
TSS	98,946,818	99,793,936	-847,118	26,483,038	0	26,483,038	-3126.25
Maryland							
TN	51,947,957	41,167,378	10,780,579	3,001,318	1,677,527	1,323,791	12.28
TP	3,301,242	2,807,590	493,652	214,495	115,938	98,557	19.96
TSS	1,395,117,266	1,349,654,449	45,462,817	127,645,771	71,681,053	55,964,718	123.10
New York							
TN	10,719,411	<i>Pending</i>	-	1,042,626	<i>Pending</i>	-	-
TP	955,986	<i>Pending</i>	-	105,120	<i>Pending</i>	-	-
TSS	331,835,932	<i>Pending</i>	-	84,844,983	<i>Pending</i>	-	-
Pennsylvania							
TN	116,635,609	78,831,567	37,804,041	8,928,308	5,115,309	3,812,999	10.09
TP	4,984,226	3,599,305	1,384,922	498,723	266,716	232,007	16.75
TSS	2,644,074,201	1,945,232,075	698,842,126	364,256,446	169,687,373	194,569,073	27.84
Virginia							
TN	68,127,540	52,459,123	15,668,417	4,079,034	3,249,761	829,273	5.29
TP	8,671,812	6,461,840	2,209,972	659,967	465,137	194,830	8.82
TSS	3,742,921,311	3,251,381,958	491,539,353	413,327,540	244,133,503	169,194,037	34.42
West Virginia							
TN	5,465,048	4,998,784	466,264	429,010	502,438	-73,428	-15.75
TP	899,433	639,428	260,005	56,208	49,963	6,245	2.40
TSS	445,408,160	372,586,544	72,821,616	46,160,866	40,596,170	5,564,696	7.64
Basinwide							
TN	260,246,897	183,221,045	66,306,440	17,902,710	10,585,257	6,274,827	9.46
TP	19,228,893	13,905,012	4,367,895	1,557,446	901,107	551,219	12.62
TSS	8,675,251,798	7,036,039,115	1,307,376,752	1,065,660,333	528,962,585	451,852,764	34.56
	Total includes NY	Total does not include NY		Total includes NY	Total does not include NY		

Data provided by Sucharith Ravi, UMCES/CBPO, 1/22/2013.