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**January 1, 2012 – December 31, 2013 Jurisdiction Programmatic Two-Year Milestones**

	<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
Urban and Construction Stormwater					
1.	12/31/13	Reduce concurrent permitted disturbed construction area (p. 34 and Appendix B. 6)	Reduction in concurrent permitted disturbed construction area	DEP	These reductions are currently being met.
2.	12/4/12	Reissuance of the Construction Stormwater General Permit	Permit	DEP	The reissuance of the Construction Stormwater Permit will take place by the December 4, 2012 expiration date of the current permit. A draft copy will be given to EPA as outlined in the MOA for NPDES Permitting between EPA and DWR/WVDNR (now DWWM/WVDEP).
3.	12/31/12	Complete statewide stormwater management guidance manual (p. 37 and 39)	Statewide stormwater manual	DEP	All chapters of the statewide stormwater management guidance manual have been sent to the technical review committee for review and comments.
4.	6/30/12	Complete MS4 annual reporting form with Chesapeake Bay reporting supplement (p.41)	Annual Report Form with Chesapeake Bay supplement	DEP	MS4 The statewide annual report form is under development at this time and several meetings have been held with the consultant. The Chesapeake Bay supplement is approximately 50% complete at this time.
5.	12/31/13	If indicated by census urbanized area delineation, bring new Jefferson County MS4s under WV's MS4 general permit (p.35)	MS4 permittees	DEP	Census urbanized areas to be released in spring 2012.

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6.	12/31/12	Develop an evaluation protocol to verify that new and existing regulated and non-regulated urban and construction stormwater BMPs are in place and functioning as designed (p.41)	Copy of form or web site	DEP	Paper version in use, paperless version in planning.
7.	6/30/13	Site visits for urban stormwater BMP evaluations following the protocol and for reporting to the Chesapeake Bay Program through NEIEN (p.42)	150 sites	DEP	These are historic sites previously reported to Bay Program. 140 already completed.
8.	12/31/12	Develop and implement a tracking and reporting system for stormwater BMPs within and outside of MS4 areas and for industrial stormwater BMPs	Tracking system	DEP	Tetra Tech is currently assisting WV DEP in developing a system that will also be compatible with NEIEN.
9.	6/30/13	Training for local MS4 inspectors on construction stormwater and post construction BMP evaluation (p. 37)		DEP	Compliance Assistance
10.	12/31/12 12/31/13	Provide funds to local governments from CBRAP to facilitate reviews/audits of county codes and ordinances and to adopt provisions of the model stormwater ordinance.	CBRAP grant reports on projects	DEP	
Wastewater – see attachment for additional details					
11.	6/30/13	Upgrades to Shepherdstown, Fort Ashby/Frankfort PSD, and WVDNR Reeds Creek for TN and TP WLA compliance (App. A.1)	2013 progress report	DEP	Permits
12.	12/31/12 12/31/13	Tracking of WWTP upgrade and permit compliance schedules		DEP	SRF and Permits

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Offsets and Trading					
13.	3/31/12	Finalize point and nonpoint source baselines	Final Phase 2 WIP	DEP	
14.	ongoing	Approve offset and trading requests on a case by case basis	Draft permits to EPA	DEP	Permits
15.	12/31/12	Address unresolved Tier 1 and Tier 2 recommendations from EPA	Quantitative demonstration to EPA	DEP/WVDA	
16.	12/31/13	Address applicable unresolved recommendations that are common to all jurisdictions.			WV has a clear and transparent plan / process for offsets through our NPDES permit. We will not be establishing a new program at this time.
Agriculture – see attachment for additional details					
17.	3/31/12	Draft permitting and monitoring and enforcement strategies for CAFO WV/NPDES program	Strategies	DEP	Permits / EE
18.	5/31/12	Review and update P-Index	P-index	Agriculture	WVU College of Ag and Forestry, NRCS and Extension Service
19.	7/31/12	Revise state code to incorporate WV Nutrient Management Rule	State Code	WVDA	
20.	6/30/12	Fill WVDA/NRCS cooperative position to focus on Farm Bill implementation in priority watersheds		WVDA	
21.	6/30/12	Review, adapt and begin implementation of	NRCS	Agriculture	NRCS, WVDA, and other ag agencies

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		new NRCS 590 Standard	Technical Standard		writing NMPs
22.	12/31/12 12/31/13	Develop nutrient management plans for CAFOs	WV/NPDES permits	WVDA	
23.	12/31/13	Conduct outreach and education to encourage producers to install and maintain BMPs		Agriculture	WVDA, Conservation Districts, WVU
<p>* As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.</p>					

## Documentation for 2012-2013 Wastewater and CSO milestones

### **Nonsignificant Wastewater**

For all non-significant wastewater facilities, input values are equal to those of the 5.3.2 Phase 1 WIP Intent scenario. Inputs are design flow and no action default concentrations. The West Virginia WIP does not call for reductions from this source category and indicates this format will be used for tracking and reporting.

### **Significant Wastewater**

2013 milestone inputs for significant wastewater facilities were developed based upon assessments of current performance levels, the need to install additional treatment to achieve/maintain established wasteload allocations, and the schedule for installation and attaining operational reliability of new treatment technologies.

The following facilities are currently compliant with wasteload allocations for nitrogen and phosphorous and are expected to maintain compliance. 2013 milestone inputs are based upon the facility's individual TMDL wasteload allocation.

WV0005649 USDOI - Leetown  
WV0112500 WVDNR- Spring Run  
WV0116149 CONSERVATION FUND  
WV0005525 VIRGINIA ELECTRIC & POWER CO  
WV0027707 WARM SPRINGS PSD - BS

The following facilities are not currently compliant with wasteload allocations for nitrogen and phosphorous but are expected to have new controls implemented by June 30, 2012 so as to be compliant with annual loads when assessed for the period ending June 30, 2013. 2013 milestone inputs are based upon the facility's individual TMDL wasteload allocation.

WV0024775 SHEPHERDSTOWN  
WV0041521 FORT ASHBY/FRANKFORT PSD  
WV0111821 WVDNR - Reeds Creek

The following facilities are not currently compliant with wasteload allocations for nitrogen and phosphorous and the additional controls necessary to achieve compliance are not expected to be in place prior to June 30, 2012. 2013 milestone inputs are based upon the facility's design flow and no action nitrogen and phosphorous concentrations. However, these facilities are associated with construction projects that would have necessary treatment installed and operational prior to June 30, 2014 and are expected to be compliant in the 2015 two-year milestone assessment.

WV0005495 PILGRIMS PRIDE CORPORATION

WV0047236 PILGRIMS PRIDE CORPORATION  
 WV0020150 MOOREFIELD  
 WV0024392 CHARLES TOWN

Completion of the upgrade projects will reduce delivered nitrogen and phosphorus loading by 63,400 pounds per year and 86,400 pounds per year, respectively. When added to the performance predicted by the 2013 milestone input deck, the load reduction from those projects alone will allow attainment of 2015 straight line projection goals.

The remaining facilities identified below are not currently compliant with wasteload allocations and 2013 milestone inputs are based upon the facility’s design flow and no action nitrogen and phosphorous concentrations. All are planned to have necessary treatment installed and operational prior to December 31, 2015 and are expected to be compliant in the 2017 two-year milestone assessment. Recently enacted Senate Bill 245 will provide financial assistance necessary to accomplish needed upgrades.

- WV0020699 ROMNEY
- WV0021792 PETERSBURG
- WV0023167 MARTINSBURG
- WV0024392 KEYSER
- WV0082759 BCPSSD – Opequon/Hedgesville
- WV0082759 BCPSSD - Inwood
- WV0082759 BCPSSD - Baker Heights
- WV0082759 BCPSSD - North End

As evidenced in the above documentation, implementation progress for significant wastewater facilities is not uniform between 2009 and 2025. Wastewater delivered load expectations for 2013, 2015 and 2017 are shown in the following table:

Milestone Period	N (del) #/yr	P(del) #/yr	Source
2013	522,536	177,860	2013 model run (indus +wwtp)
2015	459,136	91,460	Calculated 2013 – Mrfld. + CTown
2017	233,392	38,475	2017 model run (indus +wwtp)

**CSO**

The four WV CSO communities have achieved controls resulting in 6 or less overflows per/yr. The existing level of control attains the performance expected by the West Virginia Phase 1 WIP and is expected to be maintained. Inputs for model representation of the expected performance in 2013 are equal to those used for the 5.3.2 Phase 2 WIP scenarios.

## WV 2012–2013 Agricultural Programmatic Milestones- Final

1. Technical review and update of the WV P-Index is currently being performed by WVU's College of Agriculture, Division of Plant and Soil Sciences, NRCS, and WVU-Extension to ensure that current phosphorus land management science is being used. Collaboration with Mid-Atlantic land-grant institutions has been integrated into this revision process. An external peer-review of the new P-Index and a regional P-Index comparison process will be performed as part of the revision. This review and update is expected to be completed by May 2012. The revised P-Index will be added to the WV-NRCS Nutrient Management (590) Conservation Practice Standard in 2012 and will serve as guidance for all nutrient management plans.
2. The WV Nutrient Management Rule has now formally entered the lawmaking process and will be taken up the WV State Legislature in 2012. This addition to State Code will designate Nutrient Management committee membership and determine requirements for awarding of and maintaining a nutrient management certification.
3. One additional Conservation Specialist and two joint WVCA/NRCS Conservation Technicians have been hired within the basin to target high priority watersheds and agricultural implementation of Farm Bill and 319 practices. A WVDA/NRCS cooperative position also focusing on high priority watersheds will be filled during 2012.
4. Interagency review, adaptation, and implementation of new NRCS 590 Conservation Practice Standard planned for Spring 2012.
5. Through the efforts of the NRCS, Conservation Districts, WVDA, WVCA, WVU Extension Service and producer organizations, West Virginia has had a very strong educational initiative for agriculture throughout the Potomac Headwaters region. Agencies plan to use outreach and educational efforts among the agriculture sector to encourage producers to increase BMP implementation and maintenance. Farmers have voluntarily participated in federal and state cost-share programs that have been recognized as success stories both regionally and nationally. Educational outreach provided by the technical agencies was instrumental in the success of these programs. Moving forward to meet the goals set forth in WV's WIP II to meet the Chesapeake Bay TMDL, West Virginia's agency partners will continue to work collaboratively to bring the most pertinent education and outreach activities to agricultural producers, private industry and technical support staff. **These programs will focus on the nutrient and sediment reductions that the State has committed to within the WIP II as well as the applicable milestones.** WVU Extension Service is the leader in building and helping sustain collaborations and partnerships with people and organizations in West Virginia, to improve their lives and communities. **WVU Extension will be the lead in the**

**coordination and delivery of multi agency collaborations to meet our goals.** Specific examples of such initiatives, both multi-agency and agency specific, are outlined below:

### **Multi-agency efforts**

- Convene a management level round table to bring all agricultural agencies together to discuss and update on the Watershed Implementation Plan, goals, and future of the program.
- Conduct quarterly field staff conference calls to ensure service providers are kept informed of program decisions, goals, funding opportunities, challenges and successes.
- West Virginia is currently partnering with the US Egg and Poultry Association and US EPA to develop a series of modules that will serve as educational tools for poultry producers, industry, and technical staff to evaluate operations and need for CAFO permits. The first module will visually illustrate appropriately functioning BMPs and include an assessment and evaluation tool to determine the necessity of a permit.
- A comprehensive Conservation Reserve Enhancement Program (CREP) inter agency training will be conducted to train new staff and bring cooperating agency partners together to review the program guidelines, goals and evaluate challenges to implementation.

### **West Virginia Department of Agriculture**

- Work with 4-H groups in the eastern panhandle to raise awareness of water quality concerns and discuss negative impacts on the Chesapeake Bay from excess nutrients and sediment.
- Continue Public Service Announcements encouraging the farming community to contact the WVDA for free nutrient management planning services as well as encouraging participation in the tracking and reporting program.
- Take display to “Agriculture Day at the Legislature” to present Watershed Implementation Plan goals.
- Take displays to nearly all County Fairs in West Virginia’s eastern panhandle to present Watershed Implementation Plan goals.
- Continue to provide educational brochures and materials to citizens in the Bay watershed.
- Continue to work with teachers and youth in the school systems to educate about agriculture, environment and Chesapeake Bay issues.

### **West Virginia Conservation Agency/Eastern Panhandle Conservation District and Potomac Valley Conservation District**

- Will continue to assist in facilitating CAFO round table discussions which began in January 2012. The goal being a coordinated approach to information sharing between agriculture associations and agencies on current CAFO issues.
- Continued technical support to watershed associations in program planning and implementation.
- Technical assistance to WV Project CommuniTree, specifically with buffer plantings.
- Plant 9 on Route 9 tree plantings.
- Healthy Waters Field Days targeting middle school aged students within Elks Run.
- Farm Field Days in cooperation with Food for America and FFA programs to host events to educate students about animal and crop production.



- Healthy Homeowners Workshop in cooperation with Martinsburg Habitat for Humanity Homeowners by providing information on simple, practical conservation practices for those that live in subdivisions; such as, attracting wildlife, planting native vegetation, raised bed gardening, integrated pest management, and nutrient management.
- Cover Crop Field Days will be sponsored to bring the most current and innovative experts in cover crop production, management and research to our agricultural producers.
- Innovative Agriculture Techniques Workshop will demonstrate the newest and most innovative conservation practices and techniques, as well as brand marketing and risk management to farmers.
- The exploration of app development for farmers who utilize smart phone technology to better manage their operations from both a nutrient and production standpoint.
- Sponsorship of educational field days targeting the dairy industry and focusing on managing inputs and outputs and pit management.

### **West Virginia University-Extension**

- Two 'Horse Management and the Environment' workshops for horse owners were offered in the Bay watershed in early 2012 to help raise awareness of the TMDL and environmental management in the equine community.
- Training of agricultural service providers on how to assist producers (AFOs and CAFOs) who are concerned with environmental management, BMP selection, and the CAFO regulations (partially funding dependent).
- Cover Crop Demonstration and Educational Program - Potomac Valley Conservation District and the Eastern Panhandle Conservation District, FY-2012- The establishment of winter cover crops and the use of roller/crimper and no-tillage planting technology is to be demonstrated on four farms in the Potomac Valley Conservation District and on two farms in the Eastern Panhandle Conservation District in 2012 and 2013. Up to 2 acres are to be planted on these six farms in late August or early September 2012 with combinations of cereal grain and legumes. The roller/crimper is to be used to kill the cover crop and press it onto the soil surface just prior to planting a crop with a no-till planter in the spring of 2013. The purpose of these demonstrations is to transfer the technology that has been developed on cover crops and this technique of planting from the Appalachian Plant Materials Center, to real farms in eastern WV. So as to best represent these techniques on a variety of farms that grow annual crops we hope to select corn growers in Pendleton County; along the South Branch of the Potomac River in Grant or Hardy County, and along the Lost River in Hardy County. We would like to select a vegetable grower in Mineral County as well as a corn grower in Jefferson County and a vegetable grower in Berkeley or Morgan County. A set of workshops targeted to Agricultural Service Providers, including County Extension Agents NRCS, West Virginia Conservation Agency and WV Dept. Of Agriculture nutrient management planners to improve their knowledge of nitrogen cycling in cropping systems will be conducted with these cover crop demonstrations. Demonstration of how when and why to use the Pre-Sidedress Nitrogen soil test and the Late Season Corn stalk Nitrate Test will be

incorporated into the cover crop field days to improve adoption of these soil nitrogen evaluation tools.

- Initiation of USDA-NIFA AFRI project involving landowners using smart phone technology in precision application of manure nutrients to avoid loss to surface runoff.
- NE SARE Professional Development Grant awarded to WVU Extension to train WV agricultural service providers to effectively assist AFOs in improving environmental management.
- Applying fertilizer and manures at the right time, at the right amount and in the right location can be enhanced using GPS guidance systems that are placed on the tractor pulling the manure spreader or in the truck cab that is spreading fertilizer. WVU extension has purchased guidance systems that can be easily moved from tractor to tractor. These guidance systems will be incorporated into farm field days to improve farmer and Ag service provider awareness of the capability to improve application accuracy, reduce applicator fatigue, generate application maps of fields areas treated and improve the nutrient record keeping systems within implemented nutrient management plans.