

**January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones**

Target Date	Milestone (WIP page reference)*	Deliverable	Lead Agency	Comments/Status Updates
<b>Agriculture</b>				
12/31/2014	Complete EPA CAFO program assessment and ensure consistency with EPA regulatory requirements. (WIP Page 97)	<p>DEP submitted requested documentation to EPA on March 27, 2014.</p> <p>EPA–CBF Settlement agreement significantly influences this milestone. DEP will work with EPA to address EPA’s required actions from the EPA-CBF CAFO Settlement Agreement. (NOTE: PA is not a party to this settlement agreement.)</p>	DEP	<p>DEP will assist EPA to finalize the CAFO program assessment by December 31, 2014</p> <p><b><u>December 2014 Status:</u></b>                      In March 2014, DEP provided comments/edits to EPA’s “survey” of Pennsylvania’s AFO/CAFO program. In November 2014, EPA provided DEP with a <i>Pennsylvania Animal Agriculture Program Assessment</i> draft report. In December 2014, DEP provided preliminary comments to EPA on this <i>Pennsylvania Animal Agriculture Program Assessment</i> draft report.</p> <p><b><u>December 2015 Status:</u></b>                      EPA completed their Pennsylvania Animal Agriculture Program Assessment in February 2015. EPA provided nine observations on Pennsylvania’s CAFO program. No specific suggestions or program changes were provided, but EPA did indicate that the CAFO “lacks cohesion” because of the involvement of DEP, SCC and County Conservation Districts and that the implementation of priority BMPs were not memorialized.</p>

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<p>6/30/2015</p>	<p>Visit farms to ensure farm operators are aware of their regulatory requirements under Pennsylvania’s Erosion Control regulations and the Manure Management Manual. (WIP Page 100)</p> <p>NOTE: These are not inspections and are not indicated as such in the WIP.</p>	<p>4000 on-farm visits/year</p>	<p>DEP / CD</p>	<p>Conservation district staff have visited over 11,000 farms and provided education/outreach materials on the existing Pennsylvania’s existing regulatory programs.</p> <p>These district staff also will continue to engage the farm community in the technical assistance necessary for education/implementation of BMPs. Without this technical assistance, the BMPs necessary to achieve water quality improvements will not occur.</p> <p><b><u>December 2014 Status:</u></b> By September 30, 2014 – last quarterly reporting date – county conservation districts conducted 4,272 farm visits in 2014.</p> <p>Since the inception of this effort in July 2011, county conservation district have conducted 13,950 farm visits.</p> <p><b><u>December 2015 Status:</u></b> By September 30, 2015 – the last quarterly reporting date – county conservation districts conducted 2,690 farm visits in the first nine months of 2015.</p> <p>Since beginning this effort in July 2011, county conservation districts have conducted 17,171 farm visits.</p>
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12/31/2015	Conservation District Nutrient Management Techs inform about 3,800 farm operations about regulatory requirements and address the manure management planning requirements	100 per staff position per year (38 staff positions).  Reported in CBRAP Grant.	DEP / CDs	<p>Will provide CBRAP reports to support this milestone.</p> <p><b><u>December 2014 Status:</u></b> From the most recent CBRAP report, the activities addressed by these conservation district nutrient management technicians during the most recent 6-month reporting period (Jan 1, 2014 thru June 30, 2014) include:</p> <ul style="list-style-type: none"> <li>• 1,069 Outreach Activities</li> <li>• 6,798 Outreach Contacts</li> <li>• 118 Consultants Trained</li> <li>• 114 Complaints Processed</li> </ul> <p>Of these complaints, 48 required some form of compliance and 20 were referred to DEP. (No additional information on these 20 is available, as DEP does not separately track referrals from conservation districts at this time.)</p>
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			<p><b>December 2015 Status:</b></p> <p>From the most recent CBRAP report, the activities addressed by these conservation district nutrient management technicians during the most recent 12-month reporting period (July 1, 2014 thru June 30, 2015) include:</p> <ul style="list-style-type: none"> <li>• 2,054 Outreach Activities</li> <li>• 9,381 Outreach Contacts</li> <li>• 158 Consultants Trained</li> <li>• 229 Complaints Processed</li> </ul> <p>Of these 229 complaints, 102 some form of compliance response/activity by the district and 30 were referred to DEP for compliance action. (The annual Model Complaint Response Policy report was forwarded to EPA on October 1, 2015.)</p>
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12/31/2015	DEP CBRAP Compliance Staff perform 450 compliance inspections, 100 compliance actions	Per year: 450 inspections; 100 compliance actions.  Reported via CBRAP Grant.	DEP	<p>Since January 2011, DEP CBRAP staff has currently engaged in over 950 inspections, over 400 compliance actions and over \$120,000 in fines collected for agriculture violations. The 413 compliance activities are 140% more than the “target outcomes” for this grant.</p> <p><b><u>December 2014 Status:</u></b> From the most recent CBRAP report, the activities addressed by these DEP staff during the most recent 6-month reporting period (Jan 1, 2014 thru June 30, 2014) include:</p> <ul style="list-style-type: none"> <li>• 144 Ag inspections</li> <li>• 94 Stormwater inspections</li> <li>• 42 Compliance actions</li> </ul> <p>Several CBRAP staff positions were vacant during 2014. At this point, three of the four CBRAP positions are filled.</p> <p>All three DEP regional offices and the CBRAP staff in the Chesapeake Bay Watershed have been engaged in the Regional Ag Watershed Assessment Program Initiative.</p>

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			<p><b>December 2015 Status:</b></p> <p>From the most recent CBRAP reports, the activities addressed by these DEP regional staff 12-month reporting period (July 1, 2014 thru June 30, 2015) include:</p> <ul style="list-style-type: none"> <li>• 275 Ag inspections</li> <li>• 60 Stormwater inspections</li> <li>• 70 Compliance actions</li> </ul> <p>DEP CBRAP staff positions were vacant during 2015. However, as of December 2015 and for the first time in several years, the four regional Ag inspection CBRAP positions are filled.</p> <p>Since beginning this effort in early 2011, DEP CBRAP staff has conducted over 1,300 inspections of ag operations, took 550 enforcement actions and assessed over \$144,000 in fines/penalties.</p>
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<p>12/31/2015</p>	<p>Unreported BMPs:</p> <ul style="list-style-type: none"> <li>▪ Develop BMP Reporting mechanisms consistent with the Chesapeake Bay Program BMP reporting/verification protocol.</li> <li>• Continue successful and cost-effective conservation tillage BMP collection mechanism.</li> <li>• Develop a system to track commodity cover crops.</li> </ul>	<p>Reporting of non-cost shared BMPs</p> <p>BMP verification program</p> <p>Commodity cover crop tracking system</p> <p>CTIC Tillage Survey</p>	<p>DEP / CD</p>	<p><b><u>December 2014 Status:</u></b></p> <p>Verification and Reporting: DEP staff has been actively working on CBPO’s BMP verification initiative. Draft verification protocols are due to CBPO in mid-2015 and staff is actively working to meet that goal.</p> <p>CTIC Tillage Survey: Received final report on 2012 -2014 CTIC tillage survey from Capital RC&amp;D in July 2014. Will continue this effort in 2015 and 2016 crop years. 2015/16 effort will include a pilot effort, based on survey efforts in Delaware, to track cover crop acres.</p> <p>New Effort: NRCS remote sensing pilot project: Discussions with NRCS have resulted in a contract – funded with CBRAP funds – to collect BMP data using NRCS remote sensing capabilities. DEP expects to have results from this effort in the Potomac watershed in 2015.</p>
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			<p><b>December 2015 Status:</b></p> <p>CTIC Tillage Survey: Received a report on 2015 CTIC tillage survey from Capital RC&amp;D. This continues the effort begun in 2010.</p> <p>Capital RC&amp;D will conduct a survey of cover cropping in 13 Pennsylvania counties using transect routes and data collection points previously identified and surveyed in 2013 for a crop residue survey. A follow-up survey in Spring 2016 will revisit the fall survey points and confirm data collected as well as determine if the cover crops were burned down or harvested. The survey will use the procedures and data collection standards developed in the 2014 trial cover crop survey.</p> <p>Under a contract with PA DEP, USDA-NRCS conducted a remote sensing pilot project in Pennsylvania's portion of the Potomac watershed. NRCS is currently finalizing the results. DEP expects to have these results before the end of 2015.</p> <p>Pennsylvania submitted its Verification Program documentation to EPA on 11/16/2015.</p> <p>NRCS remote sensing pilot project: This project is nearing completion. Once the project is complete, presentations will be made to Chesapeake Bay Program Advisory Committees, to help determine the effectiveness of this technology for verifying BMPs.</p>
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12/31/2015	Work with PennVEST and others to advance implementation of manure technologies and to quantify their nutrient reduction benefits.	Opportunities to advance manure technologies	DEP	<p><b><u>December 2014 Status:</u></b></p> <p>Staff continues to explore options for this milestone.</p> <p><b><u>December 2015 Status:</u></b></p> <p>Staff has provided information to the Chesapeake Bay Program Office as part of the Manure Technology Expert Panel review and the other state jurisdictions upon request relative to the effectiveness of these technologies as they relate to two projects in Pennsylvania.</p> <p>Based on this work and experience, Pennsylvania looks forward to the results of the Expert Panel in quantifying the nutrient reduction benefits of these technologies. Due to these efforts, the state considers this milestone completed.</p>
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<p>12/31/2015</p>	<p>Continue to focus grant funding to BMPs that provide cost-effective solutions for the reduction of nutrient and sediment loads to the Bay. These include no-till/conservation tillage, cover crops, and conservation and nutrient management planning activities.</p> <p>In addition, continue to support grant funding for BMP tracking efforts that increase BMPs reported to the Chesapeake Bay model; Riparian corridor protection/restoration improvements, including streamside practices, streamside animal fencing, and riparian buffers; and barn yard practices and manure storages that provide reductions of nutrient and sediment loads to the Bay. (Phase 1 WIP, pg. 82)</p>	<p>Fund Installation of BMPs via <b><u>CBIG grant</u></b>. Annual addition of:</p> <p>4000 acres No-Till 4000 acres Cover Crops 100 conservation plans 100 nutrient/manure plans 10 Barnyards 5 miles Stream Bank Fencing</p>	<p>DEP</p>	<p><b><u>This milestone supports the CBIG grant special projects.</u></b> DEP plans to increase the amount of funds available for BMPs by switching staff funds to CBRAP grant and utilizing the CBIG to fund additional BMPs.</p> <p><b><u>December 2014 Status:</u></b> In July 2014, DEP began the transition of staff funding from CBIG to CBRAP grant. This will be accomplished once EPA approves the 2014 CBRAP grant. This will free up an additional \$1 million plus for BMP projects in any given year. These additional BMP funds have not been awarded, as the CBIG grant was not awarded until October 2014 and the CBRAP grant has not yet been approved by EPA. Expectation is that these additional grant funds will become available in 2015 and awarded to conservation districts no later than July 2015.</p> <p>From the most recent quarterly report, the activities addressed by these conservation districts thru September 30, 2014) include:</p> <ul style="list-style-type: none"> <li>• 2,363 acres of No-Till</li> <li>• 4,557 acres of Cover-Crops</li> <li>• 96 Conservation Plans</li> <li>• 56 Nutrient management plans</li> <li>• 7 Barnyard practices</li> <li>• 37,595 feet of stream bank fencing (approximately 7 miles)</li> </ul>
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**Jurisdiction Restore Clean Water Action Items  
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			<p><b>December 2015 Status:</b></p> <p>In May 2015, EPA notified DEP that they would withhold grant funds for BMPs reported by this milestone. In September, EPA reaffirmed this and withheld grant funds for the BMPs reported in this milestone.</p> <p><u>Previous CBIG grant resulted in:</u></p> <p>No Till: 19,123 acres          Barnyards 57 practices          Cover Crops 19,000 acres          Rotational Grazing 266 acres          Stream bank Fencing 38.3 miles</p> <p><u>Current CBIG grant thru June 30, 2015:</u></p> <p>NM/ manure plans 433 plans          Ag E&amp;S plans 203 plans          No Till 185 acres          Barnyards 0 Practices          Cover Crops 1,338 acres          Rotational Grazing 0 acres          Stream bank Fencing 701 feet</p>

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<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
12/31/2015	Targeted Watershed Compliance (Phase 1 WIP, pg. 102)	Six watershed assessments in Pennsylvania. (Three will be in the Bay watershed.)	DEP	<p>Statewide implementation of a focused watershed initiative began in November 2013. Based on the Soft Run watershed pilot project, each of DEP’s six regional offices will complete at least one watershed by December 2015.</p> <p><b><u>December 2014 Status:</u></b>                      In February 2014, DEP selected six small watersheds each having water quality impaired by agriculture. Each of the working farms in these watersheds was assessed by staff in 2014. Three of these were in the Chesapeake Bay watershed.</p> <p>Working with a local conservation district, DEP made available technical and financial support to assist farming operations to correct any problems and achieve regulatory compliance. Financial assistance agreements of \$592,400 were made to the six conservation districts. These grants will support development of required plans and implementation of BMPs necessary to implement these plans and to address water quality problems. The funds have been allocated from the Environmental Stewardship Fund.</p>

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				<p>In 2014, 140 farms were assessed. Thirty-five (35) were found to have water quality problems and put on a 90-day clock for follow-up. Of these 35, ten (10) were issued Field Orders because they did not comply with the initial 90-day request for action. Additional field orders are anticipated.</p> <p>DEP plans to extend this Regional Agriculture Watershed Assessment Program Initiative to additional watersheds in 2015. Expectations are that three will be in the Chesapeake Bay watershed (see Attachment 1).</p> <p><b><u>December 2015 Status:</u></b> Planning completed for three 2015 regional watershed assessments in Bay watershed. Assessments were not conducted in 2015 as DEP reviews effectiveness of the regional assessments and compatibility with future Bay efforts.</p>
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12/31/2015	Conservation District Agricultural Complaint Response Policy Report (Phase 1 WIP, pg. 99)	Documentation of implementation of the Complaint Response Policy	DEP	<p>Per CBRAP grant, a report to document the implementation of the September 2012 SCC Model Complaint Response Policy will be prepared and submitted to EPA on July 28, 2014.</p> <p><b><u>December 2014 Status:</u></b> Report on the Model Complaint Response Policy was submitted to EPA on August 20, 2014.</p> <p><b><u>December 2015 Status:</u></b> Report on the Model Complaint Response Policy was submitted to EPA on October 1, 2015.</p>
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<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
<p><b>Point Sources: Number of Bay Facilities Who Must Comply with Nutrient Cap Loads Beginning During the Period January 1, 2014 to December 31, 2015</b></p> <ul style="list-style-type: none"> <li>▪ <b>Significant Sewage and Industrial Facilities (212 facilities)</b></li> </ul>				
12/31/2015	<p>Permitting and Compliance with nutrient cap loads for all the Significant Sewage facilities (Section 7 of the WIP):</p> <ul style="list-style-type: none"> <li>▪ 173 prior to January 1, 2014</li> <li>▪ Nine (9) additional facilities starting 10/1/2014.</li> <li>▪ Three (3) additional facilities starting 10/1/2016.</li> </ul>		DEP	<p>There is only one Phase 3 sewage facility that does not yet have cap loads in their final permits. A draft permit with the cap loads has been issued. PA plans on issuing all the permits with cap loads prior to January 2017.</p> <p><b><u>December 2014 Status:</u></b> There are 190 significant sewage dischargers in PA.</p> <p>There is one (Phase 3) significant sewage discharger that does not yet have cap loads in its final NPDES permit (delayed due to EPA objections over nutrient trading permit language).</p> <p><b><u>December 2015 Status:</u></b> Update to numbers: Permitting and Compliance with nutrient cap loads for all the Significant Sewage facilities (Section 7 of the WIP):</p> <ul style="list-style-type: none"> <li>• 174 prior to 1/1/2014.</li> <li>• Nine (9) additional facilities starting 10/1/2014.</li> <li>• Two (2) additional facilities starting 10/1/2015.</li> </ul>

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<p>12/31/2015</p>	<p>Permitting and Compliance with the nutrient cap loads for all the Significant Industrial facilities (Section 7 of the WIP):</p> <ul style="list-style-type: none"> <li>▪ Ten (10) prior to January 1, 2014</li> <li>▪ Three (3) additional facilities starting 10/1/2014.</li> <li>▪ Two (2) additional facilities starting 10/1/2015.</li> </ul>		<p>DEP</p>	<p>At this time, 16 of the 23 facilities have cap loads established in draft or final NPDES permits. Out of the seven remaining significant industrial facilities, two of the facilities were issued the draft permits. PA plans on issuing all the permits with cap loads prior to 2017.</p> <p><b><u>December 2014 Status:</u></b> There are 23 significant IW dischargers.</p> <p>There are seven significant IW dischargers that do not yet have cap loads in their final NPDES permits (delayed in part due to EPA objections over nutrient trading permit language).</p> <p><b><u>December 2015 Status:</u></b> As of 11/23/2015, 19 of the 23 facilities have cap loads established in final NPDES permits.</p> <p>Update to numbers: Permitting and Compliance with the nutrient cap loads for all the Significant Industrial facilities (Section 7 of the WIP):</p> <ul style="list-style-type: none"> <li>• Four (4) additional facilities starting 10/1/2015.</li> <li>• One (1) additional facility starting 10/1/2016.</li> <li>• One (1) additional facility starting 10/1/2017.</li> </ul>
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Target Date	Milestone (WIP page reference)*	Deliverable	Lead Agency	Comments/Status Updates
<b>Stormwater/MS4-PAG 13 (PA General Permit 13)</b>				
12/31/2015	Conduct a series of five to ten MS4 workshops and/or webinars across the state to educate the regulated community on the implementation of the permit, including TMDL Plans and Chesapeake Bay Pollutant Reduction Plans.		DEP	<p><b>December 2014 Status:</b> Up to 8 workshops (4 scheduled dates with the possibility of conducting a second session the next day if registration exceeds 100) have been scheduled for MS4 permit compliance training in February 2015. Up to 8 additional workshops have been scheduled in March and April 2015 for TMDL Plan and Bay PRP training.</p> <p>Century Engineering has been selected as the contractor to help with the logistics of these workshops. The first four sessions will provide information on the basics of MS4 permit compliance. The second four sessions will emphasize the additional MS4 requirements which apply to MS4 permittees with TMDL and CB Pollution Reduction Plan obligations.</p> <p>MS4 Permit Compliance Sessions:</p> <ul style="list-style-type: none"> <li>• February 10 – Best Western, Central Hotel &amp; Conference Center, 800 East Park Drive, Harrisburg, PA</li> <li>• February 12 – The Woodlands Inn, 1073 Highway 315, Wilkes-Barre, PA</li> <li>• February 18 – Holiday Inn, Morgantown/PA Turnpike, 6170 Morgantown Road, Morgantown, PA</li> <li>• February 25 – Pittsburgh Marriott North, 100 Cranberry Woods Drive, Cranberry Township</li> </ul>

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			<p>TMDL Plan / Chesapeake Bay Pollutant Reduction Plan Sessions:</p> <ul style="list-style-type: none"> <li>• March 17 – Holiday Inn Lansdale, 1750 Sumneytown Pike, Kulpsville, PA</li> <li>• March 19 – Inn at Leola Village, 38 Deborah Drive, Leola, PA</li> <li>• March 25 – The Woodlands Inn, 1073 Highway 315, Wilkes-Barre, PA</li> <li>• April 1 – Pittsburgh Marriott North, 100 Cranberry Woods Drive, Cranberry Township</li> </ul> <p><b>December 2015 Status:</b></p> <p>There were 925 attendees that attended the 12 different sessions. (Additional sessions were held on February 11, February 19, February 26 and March 20 to handle additional attendees when previous day sessions were filled.) Of that, 361 were from consulting or engineering firms, 462 were representatives of municipalities, 38 from government agencies, 32 from environmental groups, 26 from universities and another 6 from undefined organizations. Another round of workshops more focused on the development of pollutant reduction plans and TMDL plans are planned for the Summer, 2016. In addition, smaller more focused sessions on programmatic requirements for new MS4 communities are also planned. Number of sessions, final dates and locations will be determined once the budget impasse is over and timing/contracting issues can be addressed.</p>
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12/31/2015	Begin implementation of its MS4 Inspection SOP by conducting office inspections and where necessary field inspections to verify implementation of BMPs, with the objective of inspecting all permitted MS4s within the Chesapeake Bay Watershed within 5 years.		<p>DEP</p> <p><b><u>December 2014 Status:</u></b> 178 MS4 inspections were conducted between January 1, 2014 and December 12, 2014; of these there were 117 administrative reviews of submitted reports and 61 inspections of MS4 records (data audits) or field inspections.</p> <p><b><u>December 2015 Status:</u></b> Between 1/1/2015 and 11/24/2015, DEP conducted 60 compliance evaluation (CEI) inspections (both field and office evaluations), 232 data audit / administrative inspections, and 6 inspections as a result of complaints. These numbers reflect inspections for both Phase 1 and 2 MS4s.</p>
12/31/2015	Update guidance materials for TMDL/Bay PRPs and develop model plans		<p>DEP</p> <p><b><u>December 2014 Status:</u></b> A template for TMDL Plans and Bay PRPs has been on DEP’s website since August 2013. This also includes an FAQ document attached to the instructions. DEP is also working with a contractor to create model TMDL Plans that will be used in March/April 2015 training events.</p> <p><b><u>December 2015 Status:</u></b> A model TMDL Plan and a model Bay PRP are complete and are available on DEP’s website. Both model plans are under review and will be updated. In particular, the model Bay PRP is being updated to reflect the proposed requirement for MS4s to meet specific pollutant loading reductions. Since this requirement does not exist in the 2013 PAG-13 General Permit, DEP is planning to wait until after the 2018 PAG-13 General Permit is published final to complete the model Bay PRP.</p>

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12/31/2015	Submit to EPA for review up to 20 Chesapeake Bay Pollutant Reduction Plans.		DEP	<p><b><u>December 2014 Status:</u></b> Work on this milestone is in progress.</p> <p><b><u>December 2015 Status:</u></b> DEP provided EPA Region 3 with a list of email addresses for all MS4 permittees that were required to develop Bay PRPs.</p> <p>EPA volunteered to contact permittees to acquire electronic versions of these plans.</p> <p>This milestone is complete.</p>
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<b>Stormwater/Chapter 102</b>				
08/29/2014	Extract data from DEP construction stormwater BMP database needed to assist in transition to reporting performance standards instead of individual BMPs; send data to Chesapeake Bay Program for review	Data Extraction and Transmittal	DEP	<p>DEP will work with CBP throughout the milestone period on steps needed to complete the transition to reporting based on performance standards</p> <p><b>December 2014 Status:</b> Data have been submitted to the Chesapeake Bay Program for stormwater BMPs that have been implemented; this reporting was done in accordance with the Urban Stormwater Workgroup’s expert panel performance standard methodology. DEP is implementing schema changes to upload these data using the performance standard approach.</p> <p><b>December 2015 Status:</b> DEP worked with Tetra Tech to design tools for post-processing of DEP reported BMP data to allow for its reporting to the model. DEP has submitted construction stormwater BMP data through the current year (2015) in accordance with the Urban Stormwater Workgroup’s expert panel performance standard methodology. DEP continues to implement schema changes to be able to upload these data using the performance standard approach.</p>

**Jurisdiction Restore Clean Water Action Items  
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12/31/15	Homeowners informational booklet for BMP O&M	3,000 booklets	DEP/ Contractor	<p>The Department has template/example documents that they will be modifying to create the booklet; outreach and distribution of the booklet will be coordinated through collaborating entities.</p> <p><b><u>December 2014 Status:</u></b> The Department will bring on a consultant to assist in bringing draft materials to a final booklet for distribution.</p> <p><b><u>December 2015 Status:</u></b> The Department entered into a contract with Penn State University – Pennsylvania Housing Research Center in November, 2015. Informational booklets will be produced and disseminated and trainings will be held over a two-year period of time ending October 2017.</p>
12/31/14 thru 12/31/15	Stormwater Construction NPDES permit termination inspections	200 annually	DEP/ CDs	<p>Staff are working on forms and reporting mechanisms for collecting permit termination inspection data</p> <p><b><u>December 2014 Status:</u></b> Standard forms are complete and tracking of permit termination inspections has commenced.</p> <p><b><u>December 2015 Status:</u></b> PA exceeded goal with approximately 500 termination inspections completed in 2014-early 2015. DEP is working to improve data systems to track more information related to permit terminations.</p>

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12/30/14	Complete a needs assessment for the development of a program tracking and data management system	Needs assessment	DEP	<p>The Department has had a tracking system that tracks stormwater BMPs implemented through its construction stormwater program since the mid-2000s; this system has been periodically updated since 2011 with both historical (previously implemented and not reported) data and current data (those BMPs that are being implemented on a yearly/current basis); these data include BMPs implemented in MS4 areas as well through both new development and redevelopment</p> <p><b><u>December 2014 Status:</u></b> Work on the needs assessment is ongoing.</p> <p><b><u>December 2015 Status:</u></b> DEP has a “needs assessment” drafted in the form of a scope of work for contractor assistance.</p>
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Target Date	Milestone (WIP page reference)*	Deliverable	Lead Agency	Comments/Status Updates
<b>Trading &amp; Offsets</b>				
1/1/2014 through 12/31/2015	By compliance year, identify the pollutant reduction activities that generated certified, verified and registered credits and the number credits associated with each activity that are consistent with the expectations of the TMDL. (WIP Page 49)		DEP	<p><b>December 2014 Status:</b> The true-up period for the 2014 Water Year is completed. A total of 1,889,079 nitrogen and 109,791 phosphorus credits were verified, of which 803,685 nitrogen and 85,079 phosphorus credits were registered, meaning they were sold to a wastewater treatment system for compliance purposes.</p> <p>A summary table of these credits by pollutant reduction activity is attached (Attachment 2).</p> <p><b>December 2015 Status:</b> The true-up period for the 2015 Water Year is completed. A total of 1,650,857 nitrogen and 105,059 phosphorus credits were verified, of which 609,999 nitrogen and 56,893 phosphorus credits were registered, meaning they were sold to a wastewater treatment system for compliance purposes.</p> <p>A summary table of these credits by pollutant reduction activity is attached (Attachment 2). Of note are the 30,000 nitrogen credits shown as registered from the NPS Manure Destruction Technology,</p>

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				<p>yet no credits from this technology were verified. This is because Energyworks did not generate any credits, but to honor a contract with PPL Brunner Island they bought credits from another POTW. PA's protocol is to track the registered credits by seller.</p>
<p>1/1/2014 through 12/31/2015</p>	<p>Work with PENNVEST to implement the Nutrient Credit Clearinghouse Auction to facilitate the verification and registration of credits that meet the expectations of the TMDL.</p>		<p>DEP</p>	<p><b><u>December 2014 Status:</u></b>                  DEP continues to support Pennvest in the implementation of the Nutrient Credit Clearinghouse. Forward auctions were held on March 19, June 11 and September 10, 2014. A Spot Auction was held on November 5, 2014. Nitrogen credits sold for between \$1.15 and \$2.50 a credit; Phosphorus credits for \$2.00 to \$2.51 per credit.</p> <p><b><u>December 2015 Status:</u></b>                  The March 18 and June 10, 2015 forward auctions were cancelled. A forward auction was held on September 9, 2015 and a Spot auction on November 4, 2015. Nitrogen credits sold between \$0.47 and \$1.47 per credit; phosphorus \$0.68 to \$1.88 per credit.</p>

**Jurisdiction Restore Clean Water Action Items  
PA 2014-2015 Programmatic Milestones**

**January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones**

<p>1/1/2014 through 12/31/2018</p>	<p>Finalize and implement a strategy to ensure Pennsylvania’s Nutrient Trading program meets the expectations of the TMDL.</p>		<p>DEP</p>	<p><b><u>December 2014 Status:</u></b>                  In early April 2014, EPA began objecting to the issuance of NPDES point source discharge permit renewals within the Chesapeake Bay watershed for wastewater treatment systems, asking for the full 90-day review period provided for in the Memorandum of Agreement between EPA and DEP relative to the implementation of the NPDES Program. EPA cited the need to discuss and resolve issues with the definition of the non-point source agricultural baseline as the reason for the objection and the need for the extra time. Pursuant to 40 CFR Section 123.44(b)(2) and Section III.A.2 of the Memorandum of Agreement between EPA and DEP, DEP continued to receive specific objection letters from EPA at the end of the 90-day review period. These letters gave a more detailed explanation for EPA’s objections to the re-issuance of two permits in the Chesapeake Bay Watershed. DEP sent a response to each of these objection letters, requesting public hearings. DEP believes that the latest recommendations submitted to EPA will resolve their issues and public hearings may not be necessary. As soon as DEP has confirmation from EPA that these recommendations are acceptable, DEP will be notifying permittees and program stakeholders as appropriate.</p>
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**January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones**

				<p><b>December 2015 Status:</b>                  Agreement was reached on modifications to the program. These were posted on the DEP website and shared with the Nutrient Trading Workgroup. EPA has rescinded their objections and the processing of permit renewals has resumed. Program staff are in the process of drafting revisions to program regulations to submit to the Environmental Quality Board in the Spring, 2016.</p>
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
12/31/2014	Development of a Stormwater Management Offsetting Program	Stormwater Offsetting Technical Guidance Document	DEP	<p><b>December 2014 Status:</b>                  A draft guidance document is under review.</p> <p><b>December 2015 Status:</b>                  No additional work has been done on this document.</p> <p>RECOMMEND REMOVING THIS MILESTONE</p>

**January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones**

<b>Tracking and Reporting</b>				
6/30/2014	Acquire contractor help, with assistance of CBRAP funds. Initiate analysis of deficiencies in Pennsylvania’s data reported to the Watershed Model	Finalization of documentation needed to acquire contractor assistance	DEP	<p>EPA assistance will be needed with contracting</p> <p><b><u>December 2014 Status:</u></b> Complete. With EPA Assistance, contractor assistance was secured. Work on analyzing and addressing deficiencies is underway.</p> <p><b><u>December 2015 Status:</u></b> This task is complete.</p>
9/30/2014	Receive contractor summary of reporting deficiencies. Initiate development of plan to address deficiencies.	Summary report	DEP	<p><b><u>December 2014 Status:</u></b> Complete. Summary has been received; work has begun on addressing deficiencies.</p> <p><b><u>December 2015 Status:</u></b> Contractor summary was reviewed. An example of a deficiency that has been addressed: DEP will now submit BMPs for extractive lands on the 2015 Progress Run.</p>
9/30/2014	Conduct final meetings with key federal and state agency staff (both internal and external) to develop a plan to move forward on upgrading the Commonwealth’s Tracking and Reporting System	Plan for moving forward to upgrade BMP Tracking and Reporting System	DEP	<p><b><u>December 2014 Status:</u></b> Several phone calls, discussions and meetings have taken place. Important and significant progress has been made, but there is a need for on-going meetings and discussions.</p> <p><b><u>December 2015 Status:</u></b> While options are still being considered for this task, there is a need for ongoing meetings and discussions.</p>

**January 1, 2014 – December 31, 2015 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>
12/30/2014	Complete analysis of guidance and other deliverables resulting from the CBP BMP Verification Committee, to include addressing historical BMPs	Assurance that a plan is in place to ensure that an upgraded Tracking and Reporting System is consistent with BMP Verification Principles	DEP	<p><b><u>December 2014 Status:</u></b> Partially complete. Significant work is underway analyzing and implementing the guidance on BMP verification.</p> <p><b><u>December 2015 Status:</u></b> While the Department has submitted the Pennsylvania BMP Verification Program documentation to EPA, there is still more work needed to be done in order to upgrade Tracking and Reporting.</p>
03/31/2015	Finalize details for upgraded BMP Tracking and Reporting System	Initiation of any procurement processes that may be required for an upgraded system	DEP	<p><b><u>December 2014 Status:</u></b> Work is ongoing.</p> <p><b><u>December 2015 Status:</u></b> This task was not completed.</p>
06/30/2015	Conduct mid-year review of progress related to BMP Tracking and Reporting, to include progress on review and correction of historical BMP data	Adjustments to plans and implementation activities, as needed	DEP	<p><b><u>December 2014 Status:</u></b> Review will be conducted closer to the target date.</p> <p><b><u>December 2015 Status:</u></b> This task was not completed.</p>

**January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones**

12/31/2015	Finalize steps needed to implement upgraded tracking and reporting system	Upgraded system that will help improve the reporting and tracking of BMPs	DEP	<p><b><u>December 2014 Status:</u></b> Work is ongoing.</p> <p><b><u>December 2015 Status:</u></b> This task was not completed.</p>
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\* 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.