

Template 1. Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template

Green - action has been completed or is moving forward as planned **Yellow** - action has encountered minor obstacles **Red** - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available			Resources Needed				
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
Priority Initiative 1:														
1	Continue PA BNR POTW Initiative	Compliance with existing CAP Loads in NPDES Permits	Significant Sewage and IW Dischargers	Bay Drainage Area	On going	Continue Required Reductions	Plant Operators , DEP, and Private Engineering Consultants	Existing	Customer Rates, Limited Grants and loans	Rate Payers, PENNVES T (SRF), Private Financing	DEP, and Engineering Consultants as needed	NA	NA	NA
Priority Initiative 2:														
2 (alt1)	Sewage Facility Plant Optimization by DEP sponsored program	Meet an Avg Monthly Concentration of 6.0 mg/L TN and 0.8 mg/L TP	Sewage dischargers and PA DEP Optimization Program	Bay Drainage Area	By 2025	Recommend Voluntary and not required reductions.	Expertise for process optimization available, but additional required	Existing Program	None	Existing DEP Budget	DEP technical assistance staff and equipment	Hire additional DEP staff dedicated to optimization of facilities	Annual DEP staff and ongoing optimization program cost \$900K with upfront procurement of	New Optimization and Operation and Maintenance Reimbursement Program

													equipment to be \$800K	
2 (alt 2)	Sewage Facility Plant Optimization funded by discharger	Meet an Avg Monthly Concentration of 6.0 mg/L TN and 0.8 mg/L TP	Significant Sewage dischargers, PA DEP Optimization Program, and Discharger hired operations consultant	Bay Drainage Area	By 2025	Recommend Voluntary and not required reductions.	Expertise for process optimization available, but additional required	Existing DEP program Operations consultants available but not engaged	None	Existing DEP Budget	Additional DEP staff, Operations consultants to facilitate optimization	Hire additional DEP staff dedicated to data collection for optimization of facilities. Operations consultant hired by Discharger	Annual DEP staff and ongoing optimization program cost \$450K with upfront procurement of equipment to be \$500K	New Optimization and Operation and Maintenance Reimbursement Program Cost for optimization of facility by third party not developed

Priority Initiative 3:

3	Non-Sig sewage facilities to perform a nutrient reduction alternative evaluation prior to any upgrade or major capital improvement that includes the	Meet an Avg Monthly Concentration of 6.0 mg/L TN and 0.8 mg/L TP	Non-Significant sewage dischargers	Bay Drainage Area	None		Design and operation consultants available for hire.	Consultants	Rate payers	Discharger				
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	biological treatment component. The evaluation should compare the costs and ability to implement a nutrient reduction project to achieve PA BNR reduction. The evaluation would be submitted to DEP for review and consideration prior to moving forward with a project.													

Priority Initiative 4:

4	Sewage management programs that incorporate septic system inspection and pumping are recommended. Onlot system oversight is the responsibility of municipalities per	Onlot inspections and septic tank pumping	Municipalities or local agencies	Bay Drainage Area		Existing Law and regulations requires oversight of onlot system, but not all responsible entities have complied, and DEP has not enforced compliance.	DEP has a number of guidance documents on Sewage Management Plan development and consultant	DEP Sewage Planning Staff, and consultants	Some existing Municipalities have sewage management programs currently	Existing DEP Budget	Database for DEP and Municipalities to tracking and manage onlot system data and outreach	IT consultant for database development as well as data storage space on server	Cost for database development and ongoing database IT cost unknown One additional Water	????
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<p>the PA Sewage Facilities Act. Recommend that municipalities implement sewage management programs. Recommend that DEP develop a GIS based online monitoring and reporting program that municipalities can use to report information to DEP for Bay reporting.</p>						<p>ts have expertise to help municipalities who have not already developed and implemented programs</p>				<p>to municipalities who have not implemented a sewage management program</p>	<p>An Addition DEP Staff dedicated to provide outreach and guidance to municipalities on Sewage Management Program Development and implementation</p>	<p>Program Specialist in Sewage Planning Section \$140k Annual for position</p>	

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Each county-based local area will use this template to identify:

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.
3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the “who, what, where, when and how” of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items through outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description)