

## Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones Template

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2020 + 2021) <small>*add new 2021 progress above the existing 2020 progress. Date each entry</small>	Reason for Change to Action Item (2022-2023 milestone period)
<b>Data Management Action Team</b>							Technical	Financial	Technical	Financial		
<b>Priority Initiative 1: Data Management</b>												
1.1	<p style="background-color: yellow; margin: 0;">Create a central location for County conservation plans, restoration project permits, grant applications, etc.</p>		LCCD, DEP, SRBC	Countywide	Ongoing; intend to have the system set up and running by 2023	<p>Explore opening Practice Keeper to more agriculture and conservation professionals; make it talk to programs like CSDatum, etc.;</p> <p>Lack of immediately-available funding to set up the software;</p> <p>Not all partners are ready to share their data;</p> <p>Practice Keeper is currently a private and locked system;</p> <p>Concerns over landowners' privacy</p> <p>FieldDoc use and data integration</p> <p style="background-color: cyan; margin: 0;"><b>Input deck for long-term verification processes may be helpful and need to be considered*</b></p>	<p>Practice Keeper, World View experts at the LCCD and DEP</p> <hr/> <p>CS Datum, ESRI, and ARRO experts ready to help</p> <hr/> <p>County GIS team</p>		<p>1-2 staff people at the Conservation District to spearhead the work (Conservation Plans)</p> <hr/> <p>ArcGIS license and more Practice Keeper licenses</p> <hr/> <p>Staff time to collate data</p>	<p>\$200,000</p> <hr/> <p>\$10,000</p> <hr/> <p>Planning grant \$500,000+</p>	<p>2021: Currently exploring and developing individual modules of data and information (e.g. WQ data from CSDatum) for incorporation into the CWMT. How the data will be displayed for the end-user is still under consideration. Data entry is a bottleneck overall with multiple platforms.</p> <p>2020: There is not a true central location but working through the probability there will be three systems (PracticeKeeper, FieldDoc, and the CMT) that capture and display all the necessary information for CAP implementation and related objectives and goals. LFT (as part of the CAP Coordinator team) is currently entering captured conservation plans into PracticeKeeper (PK). An approach to capture plans previously developed and held by private consultants is under development, but will most likely require fiscal support to compensate for time to transfer plans into PK. FieldDoc is in the early stages of use and will capture projects that don't fit a cost-share category, permit, etc. CMT will be used to assist with prioritization and project-specific information for BMPs. It is anticipated an SOP (or protocol) will be</p>	

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											developed to ensure information is entered into the appropriate platform.	
							FieldDoc					
1.1.1	Manure transport	Better documentation of current practices so we have accurate baselines and are able to measure progress	Haulers, brokers	Countywide	On-going (tied to Ag Action team)	Currently no system to track manure transport;  Funding for staffing;  Funding for PracticeKeeper			Staff time to collate data		2021: Waiting to assess changes to Act 38 reporting to ascertain next steps.  2020: Relevant stakeholders have agreed in principle that a central system is appropriate but that is the extent of results associated with this action.	Timeline updated to reflect this is also a focus of the Ag Action Team
1.3	In-stream monitoring		SRBC, DEP, EPA, USGS, CBP, WSI  Presently: 7 sondes + 4 USGS stations (known)	Countywide	On-going (thru 2025 and beyond)	Collate and organize Lancaster specific data to help us set better baselines and measure progress  Monitor watershed management units  Assess Octorara approach for potential replication	SRBC		Staff time to collate and analyze data		2021: WQ modeling tool under development in the Octorara. Resources shifted with assistance from the Penn State AEC for de-listing strategy monitoring support. Data dump into the CWMT, but end user data display still under development.  2020: Activities have progressed albeit at a slower pace than desired or originally planned due to human and capital resource limitations. Through the PSU Ag and Environment Center, monitoring efforts associated with the Conewago Initiative and other endeavors will be "transferred" to select	The Octorara Watershed Assoc. (OWA) with assistance from multiple partners and the EPA is developing a comprehensive water quality modeling tool designed to better reflect localized conditions. Based on the final product(s) of this tool, it may be appropriate to replicate across other watersheds; but will cross that bridge after the OWA tool is up and running.
							Citizen Data volunteer at Lancaster County Conservancy and LCCD		SRBC staff time			
							PSU-NFWF macro sampling teams/entities		Lab(s) and/or equipment (initial and long-term)	\$160,000 (sondes/stations-initial install, maintain, analyses); long-term equipment maintenance		

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											(priority) areas across the county to capture water quality and macroinvertebrate data.	
1.4	Display of monitoring results spatially to promote greater public involvement in the tracking process		SRBC, DEP, LCCD, LCCWC, municipalities, non-profits and private sector consultants	Countywide	Four per year	Funding and staff for collection and maintenance of units  Acquiring and incorporating WQ data from DEP  Willingness to share data	SRBC portal	NFWF Focus Lancaster grant (till 2020)	Software and web support to display data		2021: Data dump into the CWMT, but end user data display still under development (funding needed to assist-pursuing Campbell Found. for funding)  2020: Components and functionality of information for display has been established. Currently working through multiple platform interface "rules".	
1.5	Implement GIS-based collaborative tool (Collaborative Watershed Management Tool (CWMT))			Countywide		Data alignment with other web-based/GIS-based tools (e.g. FieldDoc, PK, etc.)	CSDatum, WQ portals, etc. for WQ related information		Web support		2021: CWMT "upgrades" continue and a primary tool for the de-listing strategy. Pursuing funding (Campbell Found.) for better organization of WQ data "dumped" into platform  2020: The CMT is up and running; with continued development and data alignment activities underway.	

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

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.

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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.

**Asterisk:** Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

**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).