

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Berks County

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 # Green Yellow Red	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 (2022 + 2023)	Reason for Change
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Priority Initiative 1: Little Swatara												
1.1	Upper Little Swatara (ULS) 319 Plan Development and Implementation	Summer 2022 for 319 Plan	Upper Little Swatara (ULS) 319 Plan Steering Committee, Center for Watershed Protection (CWP), BCCD, NRCS, Ag Technical Service Providers (TSPs)	Upper Little Swatara (ULS) catchments	Mid 2021-mid 2022 for plan development followed by implement.	Carry over identified 319 plan opportunities and initiatives into the Berks Bay Action Plan (BBAP) and Catchment Targeting inventories BBAP participation with 319 plan steering committee "Leaning" on 319 Plan development as the driver for BBAP implementation in the ULS catchments	CWP, BCCD, BerksNature, County, local engineers/consultants, TSPs	Growing Greener (GG) (funding secured for 319 Plan develop.)		BMP implement. funding (as noted under Action 3.1 for implement. challenges and recom.)	2023: 319 Plan modelling process is complete. Center for Watershed Protection is currently developing an implementation schedule and outreach strategy to finish up the plan for review by EPA. Awarded \$104,000 CAP Implementation Grant for BMP implementation. 2022: Awarded \$277,000 CAP Implementation Grant for BMP installation which includes projects in Upper Little Swatara. 2022: QAPP for 319 plan approved by EPA. Held Little Swatara 319 plan & BMP funding meeting with local farmers & stakeholders. Awarded \$277,000 CAP Implementation Grant for BMP installation (projects lined up for Spring 2023 implementation)	
1.2	One-on-one farmer engagements via Catchment Management Database (CMD) prioritization	Engagements list for each catchment per Action 3.1	CWP, BCCD, NRCS, TSPs	All catchments	On-going with inherent tie to Actions 1.1 and 3.1	Augmented messaging and outreach combining 319 plan goals and objectives with BBAP action items and goals	CWP, BCCD, TSPs; additional person hired by BCCD for on-the-ground verifications	\$30k verifications funds being applied toward efforts			2023: Ag parcels lists for initial watersheds generated for cross-reference with PK data and potential one-on-one engagements. 2022: Completed first verification run (test run) focused on ag parcels to fine tune process for remaining catchments. Current plan is finalize two watersheds through the end of 2022 and continue into 2023 per action 3.1.	
1.3	One-on-one municipal engagements	Engagements list for each catchment per Action 3.1	CWP, County	All catchments	On-going with inherent tie to Actions 1.1 and 3.1	Augmented messaging and outreach combining 319 plan goals and objectives with BBAP action items and goals	BCCD, County, local engineers/consultants				2023: Field surveys conducted for potential unreported urban-suburban BMPs. BMP implementation rates updated to reflect encountered BMPs. Minimal non-ag BMPs encountered. Potential opportunities outlined. 2022: Currently working with the Berks County Planning Commission/GIS to prioritize catchments for verifications and capture non-ag BMPs. Coordinating with Berks Ag Preservation for additional verifications for ag BMPs.	Assuming next MS4 permit will dictate level of municipal engagements.
			County, BCCD	Catchments within shared watersheds	On-going	Watershed-based, multi-entity, collaborative grant applications are viewed favorable with conventional funding organizations (NFWF, etc.)		NFWF Small Watershed Grant (SWG), Most Effective Basins Funding (MEBF), Ches. Bay Trust (CBT), Growing			2023: Crosskill CMD efforts within both Berks and Lebanon completed. Coordination for farms straddling both counties conducted as needed. 2022:	

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1.4	Explore partnerships with Lebanon and Schuylkill counties for regional efforts					Lower Little Swatara identified as a priority watershed in the Lebanon CAP.		Greener (GG)			Contacting LCDD and possibly CBF to coordinate. Initial efforts underway in Crosskill Creek watershed (shared with Lebanon) where a partnership may be applicable.	
1.5	Promote and monitor BMP implementation	Per BMP targets outlined in P.1.3 Coordination for individual catchments	County, BCCD, TSPs, municipal, farmers, local watershed groups, non-profits	Upper Little Swatara catchments	On-going with inherent tie to Actions 1.2 and 1.3	Outreach materials may be needed for individual engagements (Expanded BMP Quick Reference Guide with all BMPs included would assist this effort)*	CWP, BCCD, County, TSPs, local engineers/consultants	All noted under other actions		BMP implement. funding (as noted under Action 3.1 for implement. challenges and recom.)	2023: Continued efforts from 2022 including individual stakeholder meetings in Little Swatara watershed to discuss RCPP funding for BMP's. Held cover crop/nutrient management workshop in Little Swatara watershed to promote CAP Implementation grant and NFWF-MEB grant. Continue entering, updating, capturing, etc. BMP's into Practice Keeper (PK) as part of the overall catchment targeting initiative, long-term verification processes (LTVPs) implementation, and 319 plan(s) development and implementation. 2022: Meeting with stakeholders in Little Swatara watershed to discuss RCPP funding	
Priority Initiative 2: Conestoga-Cocalico												
2.1	Upper Conestoga (UC) 319 Plan development and implementation	Summer 2023 for 319 plan (dependent on securing funding)	UC 319 Plan Steering Committee, Chesapeake Bay Found. (CBF), Berks County Conservation District (BCCD), NRCS, Ag Technical Service Providers (TSPs)	Upper Conestoga catchments	2022-2023 for plan development followed by implement.	Carry over identified 319 plan opportunities and initiatives into the Berks Bay Action Plan (BBAP) and Catchment Targeting inventories BBAP participation with 319 plan steering committee "Learning" on 319 plan development for BBAP implementation in the UC catchments	CBF, BCCD, BerksNature, County, local engineers/consultants, TSPs, Lancaster Farmland Trust (LFT)	Growing Greener (GG) (CBF applying for 319 plan develop. Funds)		BMP implement. Funding (as noted under Action 3.1 for implement. Challenges and recom.)	2023: 319 efforts led by CBF underway. BCCD is currently a participant in the Upper Conestoga WIP Steering Committee. Monthly meetings with the Steering Committee are occurring. 2022: Plan development in very early stages, but initial steps underway or upcoming. Current target date for 319 plan completion is June 1, 2023.	
2.2	One-on-one farmer engagements via Catchment Management Database (CMD) prioritization	Engagements list for each catchment per Action 3.1	CBF, BCCD, NRCS, TSPs	All catchments	On-going with inherent tie to Actions 2.1 and 3.1	Augmented messaging and outreach combining 319 plan goals and objectives with BBAP action items and goals Conduct Cocalico-based efforts in conjunction with Upper Conestoga efforts	CBF, BCCD, TSPs			Funding for expanded engagements as noted under Action 3.1	2023: CMD prioritization to follow 319 plan development and help guide one-on-one engagements. 2022: This effort is primarily in a holding pattern until 319 plan development is in full swing. However, previously launched efforts underway and adjusted to compliment CAP efforts	
2.3	One-on-one municipal engagements	Engagements list for each catchment per Action 3.1	CBF, County	Municipalities in all catchments	On-going with inherent tie to Actions 2.1 and 3.1	Augmented messaging and outreach combining 319 plan goals and objectives with BBAP action items and goals Conduct Cocalico-based efforts in conjunction with Upper Conestoga efforts	BCCD, County, local engineers/consultants				2023: Effort in early stages and will follow shortly after primary steering committee meetings. 2022: This effort in a holding pattern until 319 plan development is in full swing. It is anticipated the plan will be complete mid-2023.	Assuming next MS4 permit will dictate level of municipal engagements.

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2.4	Explore partnerships with Lancaster and Chester County for regional efforts		County, BCCD	Catchments within shared watersheds	On-going	Watershed-based, multi-entity, collaborative grant applications are viewed favorable with conventional funding organizations (NFWF, etc.)		NFWF Small Watershed Grant (SWG), NFWF Most Effective Basins Funding (MEBF), Growing Greener (GG), Ches. Bay Trust (CBT)			2023: Efforts continue from 2022. 2022: Partnering with CCCD on Implementation Grant funding, submitted \$850,000 grant request to NFWF Most Effective Basins (MEB). Upper Conestoga 319 plan (2023 completion) may reveal further partnering opportunities.	
2.5	Promote and monitor BMP implementation	Per BMP targets outlined in P.I. 3 Coordination for individual catchments	County, BCCD, TSPs, municipal., farmers, local watershed groups, non-profits	Upper Conestoga (and Cocalico) catchments	On-going with inherent tie to actions 2.2 and 2.3	Outreach materials may be needed for individual engagements (Expanded BMP Quick Reference Guide with all BMPs included would assist this effort)* Coordinating Action Team (AT) to bring along Cocalico catchments simultaneously with 319 plan development	CBF, BCCD, County, TSPs, local engineers/consultants	CAP imp. funds, ACAP, RCPP, EQIP, NFWF, GG-(see Action 3.2 also)		BMP implement. funding (as noted under Action 3.1 for implement. challenges and recom.)	2023: Implementing BMP's with \$2.2m NRCS/RCPP funding and \$850,000 NFWF-MEB grant. Projects underway with CAP implementation funds. 2022: Implementing BMP's with NRCS/RCPP funding. Projects in queue for spring 2023 with CAP implementation funds. Stroud applied for GG+ funding for soil health efforts that may apply to this area.	
Priority initiative 3: Coordination												
3.1	Catchments Assessments and Prioritization	TBD for each individual catchment See timeline for annual targets of assessments; each catchment will have an identified BMP acreage from the BMP targets identified in Actions 3.2 – 3.5 Game plan by late 2021	Berks County Conservation District (BCCD), Berks County Planning Commission (BCPC)/GIS, 319 plan comm., local municipalities, County GIS, Ag Preserve. Board, NRCS	All areas (all catchments to be analyzed and prioritized) Analyses order will follow "worst-to-first" hierarchy based on Catchment Management Database (CMD) mass and incremental loading scores.	Funding assisted timeline: 27 total catchment groups: 2021-4, 2022-18, 2023-4 Existing funding timeline: 27 total catchment groups, 6/ year (2022-2026)	Upper Little Swatara and Upper Conestoga efforts will result in prioritization info, opportunities identification, etc. for catchments in these areas Action Teams (ATs) will provide additional focus on areas outside of 319 Plan(s) efforts GIS overlay analyses of individual catchments to outline engagements, opportunities, etc. ("game plan" for each catchment) Results of these analyses are intended to outline specific BMP implementation actions. Implementation actions will only be realized with additional funding and permitting flexibility across all considerations.*	Catchment Management Database (CMD), County GIS, USGS SPARROW, Practice Keeper (PK)	NFWF SWG/INSRG programs; \$30k verifications funding		Berks Bay Action Plan (BBAP) implement. activities associated with assessments, engage., data entry, etc. that drive long-term BMP imp. would occur 2021-2030 without funding	2023: Initial CMD data generated and ag parcel lists for PK data reference and identification of opportunities. 2022: \$30,000 implementation grant obtained for physical BMP verifications and entry of data into Practice Keeper. Completed a practice verification run (test run) of 1 watershed (5 catchments). Overall process being fine-tuned for remaining catchments based on results of the test run (actions to be finalized include identification of exact data entry responsibilities (PK vs. PK partner portal, transfer of information, etc.).	Prioritization efforts longer than anticipated, but still moving ahead. Original timeline assumptions have been extended 2 years.
		Soil Conservation and WQ Plans – 12,496 acres Nutrient Management Core Nitrogen – 16,445 acres Nutrient Management Core Phosphorus – 5,023 acres Nutrient Management Placement Nitrogen – 3,598 acres Nutrient Management Timing Nitrogen – 4,030 acres Nutrient Management Data	BCCD, NRCS, Ag Technical Service Providers (TSPs), farmers, Center for Watershed Protection (CWP), Chesapeake Bay Foundation (CBF)	All areas with emphasis provided towards prioritized catchments through Action 3.1 and 319 plan(s) development	On-going with inherent tie to Action 3.1 and 319 plan(s) development timelines	Broad slate of BMP types across ag industry and based on individual farm conservation needs as identified through CMD prioritization and 319 plan objectives Several rates based on a combination of underreported BMPs where capture of unreported acres will be achieved through catchment prioritization efforts and Practice Keeper (PK) data entry and management	Farm survey, NRCS, TSPs, BCCD, Ag Preserve Board, CWP, CBF, Penn State Ext.	REAP, CEG, EQIP, RCPP, MEBF, State reimb. Program, PennVEST, PLS66, \$30k verifications funding	2 persons: PK manage. and BMP verifications and/or reconcile. processes (these individuals would perform these activities indefinitely)	\$120,000/yr for additional personnel (2 persons noted under technical needs; this includes funding for added personnel and equipment costs) Capital Cost: ~\$8.9 million	2023: BCCD has received \$2.2 million from NRCS/RCPP. NRCS/RCPP is being supplemented with ACAP and CAP implementation funding. A grant was received in 2022 from NFWF Most Effective Basins totaling \$850,000 for BMP incentive payments, precision nutrient management, cover crops and nutrient management core planning. Cost-shared 800 acres of manure injection and	

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3.2	Promote and monitor ag BMP implementation	<p>Nutrient Management Rate Nitrogen – 2,880 acres</p> <p>Nutrient Management Placement Phosphorus – 2,880 acres</p> <p>Nutrient Management Timing Phosphorus – 2,880 acres</p> <p>Nutrient Management Rate Phosphorus – 2,880 acres</p> <p>Conservation Tillage – 6,908 acres</p> <p>High Residue Tillage – 6,730 acres</p> <p>Traditional Cover Crops – 4,500 acres</p> <p>Cover Crops with Fall Nutrients – 4,500 acres</p> <p>Commodity Cover Crops – 550 acres</p> <p>Prescribed Grazing – 500 acres</p> <p>Pasture Alternative Watering – 643 acres</p> <p>Horse Pasture Management – 20 acres</p> <p>Barnyard Runoff Controls – 47 acres</p> <p>Loafing Lot Management – 2 acres</p> <p>Dairy Precision Feeding – 2,300 animal units</p> <p>Animal Waste Management Systems – 10,520 animal units</p> <p>Manure Transport out of Berks County – 2,000 dry tons/year</p> <p>Mortality Composting – 3 systems</p> <p>Manure Incorporation – 500 acres</p>				<p>Farmer resistance and buy-in</p> <p>Education to be achieved via one-on-one engagements by balancing farmer's needs and wants with fitting into a recognized BMP for nutrient and sediment reductions.</p> <p>Limited definition of cover crops and what counts as a reduction*</p> <p>Transfer of plans in NRCS platform to PK would reduce long-term additional resource needs tied to data entry*</p> <p>Multiple composting approaches should be considered in the 2023 scenario update (Mushroom composting may be an additional potential alternative for reductions*)</p> <p>Engagements with retailers/vendors and NRCS for fertilizers should help long-term promotion of nutrient management goals</p> <p>Clear messaging regarding livestock in streams would improve engagements with farmers*</p> <p>CAP implementation funding as incentive payments via EQIP/NRCS funding</p> <p>Identification of demonstration projects based on initial farmer engagements during Action 3.1 activities to be able to demonstrate worthiness of a particular BMP will provide a strong basis for future buy-in</p> <p>350 inspections occurring annually (with NRCS visiting ~500 farms/year), these efforts and knowledge will streamline Action 3.1 activities for farms in targeted catchments; added persons would augment these visits for verifications</p>			<p>(includes ~\$300,000 for SC plans, ~\$700,000 for cover crops, ~\$7.0 million for AWS, and ~\$40,000 for prescribed grazing practices)</p>	<p>200 acres of split-N application in 2022. Berks County & LSI have begun verifications in 1 watershed (5 catchments). Received \$30,000 Implementation Grant for BMP verification & data entry into Practice Keeper. 2022: BCCD has received \$2.2 million from NRCS/RCP which has been contracted to 10 operations for structural BMP's. A grant request has been submitted to NFWF Most Effective Basins totaling \$850,000 for BMP incentive payments, precision nutrient management, cover crops and nutrient management core planning. Berks County & LSI have begun verifications in 1 watershed (5 catchments). Received \$30,000 Implementation Grant for BMP verification & data entry into Practice Keeper.</p>		
3.3	Promote and monitor urban/developed BMP implementation	<p>Runoff Reduction Performance Standards – 833 acres</p> <p>Stormwater Treatment Performance Standards – 10 acres</p> <p>Extended Dry Ponds – 10 acres</p> <p>Infiltration Practices – 5 acres</p> <p>Bioretention – 5 acres</p> <p>Vegetated Open Channels – 56 acres</p> <p>Impervious Disconnection – 0.24 acres</p> <p>Advanced IDD&E Control – 140 acres treated</p> <p>Conservation Landscaping – 24 acres</p> <p>Urban Tree Canopy – 1 acre</p> <p>Urban Forest Planting – 10 acres</p> <p>Urban Nutrient Management – 650 acres</p>	Local municipalities, local watershed groups, BerksNature, Alliance for the Chesapeake Bay (ACB), County GIS, developers	Developed and semi-rural areas (all catchments)	On-going with inherent tie to Action 3.1	<p>Significant reconciliation of numbers is necessary (to be completed via catchment analyses)</p> <p>Individual municipal engagements via one-on-one engagements and as part of the catchment prioritization processes will be key for "buy-in" and establishing individual municipal needs.</p> <p>Identify needs and assistance channels for compliant MS4 programs (specifically MCM #3 and education/outreach channels) by individual muni.</p> <p>Modify implementation rates in 2023 after catchment targeting inventories generated.</p> <p>319 plan efforts will focus on ag. Coord. AT will focus on complementing efforts for</p>	Local engineers, DEP, County, MS4 group, County GIS, Clean Water Academy, EPA, ACB	GG, NFWF, CBT, DCNR, Keystone, developers, municipal, PennVEST	<p>Capital Cost: ~\$19.9 million (includes ~\$8,000 for conservation landscaping, ~\$6.3 million for SWM facilities, and ~\$5.7 million for septic systems)</p> <p>Costs are based on if full slate of BMPs are required, current high-level assumption is 60%-75% of the proposed BMPs are already implemented but not captured through an</p>	<p>2023: Field surveys conducted late 2022 and early-to-mid 2023 to gauge level of existing BMPs in place and opportunities. Implementation rates revised to reflect encountered BMPs and potential opportunity levels. 2022: Implementation is occurring. However, data capture and reporting processes are still under development and/or being finalized. One item under consideration/ review is the implementation of a title block requirements for land development plans that pass through county planning (and non-ag BMPs can be captured at that point).</p>		

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		Conv. Septic Denitrification – 150 systems				developed areas in applicable catchments. Track developments by catchments (to track impervious) Separate database may need to be considered for capturing all Ch. 102/ land development BMPs already in place*				appropriate reporting mechanisms		
3.4	Promote and monitor riparian buffers and stream BMP implementation	Forest buffers – 300 acres Forest buffers with exclusion fencing – 50 acres Narrow forest buffers with exclusion fencing – 50 acres Grass Buffers – 300 acres Grass Buffers with exclusion fencing – 10 acres Narrow grass buffers with exclusion fencing – 10 acres Urban forest buffers – 20 acres Urban stream restoration – 1,500 linear feet Non-urban stream restoration – 3,500 linear feet Wetland restoration – 8 acres Wetland creation – 12 acres Dirt & Gravel Road Program (Driving Surface + Raising the Roadbed) – 989 linear feet	BCCD, ACB, CBF, Stroud, TSPs, local municipalities, local watershed groups, local municipalities, Ag Preserve. Board	All areas with emphasis provided towards prioritized catchments	Ongoing with inherent tie to Action 3.1 and 319 plan(s) development timelines	Landowner/farmer resistance or buy-in Buffers with exclusion fencing are exclusive to riparian corridors (and applied to pasture land uses); Buffers (no exclusion fencing) are not exclusive to riparian corridors and applied to crop, hay, turfgrass, and similar land uses (can be applied to field borders and similar upland scenarios) Newly acquired buffer maintenance equipment should assist with long-term considerations	ACB, CBF, BerksNature, BCCD, Stroud, DCNR, NRCS	CREP, DCNR, GG, MEBF, Keystone, NFWF	Added persons noted under Action 3.2 can provide long-term verification processes	Capital Cost: ~\$4.4 million (includes ~\$1.2 million for forest buffers and ~\$2.5 million for stream restoration) Long-term maintenance costs will need TBD	2023: BCCD currently has contracted for 10 acres. Additional acreage for contracting to be determined. 2022: BCCD received \$450,000 Growing Greener to implement 50 acres of riparian buffers in CB watershed in Berks County. Catchment Targeting efforts include capture of known buffers for inventory building.	
3.5	Promote and monitor conservation/preservation BMP implementation	Forest Conservation – 293 acres Agricultural Conservation – 521 acres Wetland Conservation – 15 acres	BCCD, Ag. preserve. Board, BerksNature, local municipalities, Kittatinny Coalition	All areas	On-going	Carbon credits program for private forests (provides incentives for forest conservation that also provides nutrient and sediment reductions) BerksNature, Ag Preserve. Board, and Kittatinny Coalition are drivers for preserved farms	Ag Preserve. Board, BCCD, County, BerksNature, CBF				2023: Approximately 521 acres of farmland preserved in total in 2022, numbers for 2023 will be better understood at the end of the year. 2022: Approximately 108 acres of farmland preserved thus far in 2022.	
3.6	Data Management	Action 3.1 established processes by fall of 2021 to dictate data management tasks and activities	County, BCCD	All areas	Ongoing; game plan by late summer/ early fall 2021 (tied to Catchment Targeting Action 3.1)	House the master CMD and related attributes and inventory at County GIS Final game plan for Catchment Targeting Initiative will dictate layers and attributes table Ag information stored in PK at BCCD	PK, FieldDoc, County GIS		Dependent on PK manager funding noted under Action 3.2	2023: Catchment Targeting Initiative underway. Approach dictated by handling individual watersheds before moving on to the next one. Staff changes and/or rollovers for data entry continue to pose challenges and create "go-stop-go" actions with efforts, but is manageable. 2022: Developed and implemented game plan for Catchment Targeting initiative along with Berks County Planning Commission, BCCD & Ag Preservation. Coded yellow as final details for capture of non-ag BMPs still under development.		

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3.7	Programs/plans alignment as part of assessment process	Master list of plan(s) overlays as part of Action 3.1 established assessment processes game plan	County, BCCD, CWP, CBF	All areas/catchments	On-going with master list established as part of Action 3.1	Ensure efforts do not conflict and/or align with other efforts; alignment protocols built into Catchment Targeting processes. Push/pull applicable information/data from 319 plan(s) development processes Action 3.1 assessments include plan/data overlays during desktop analysis portion of activities (intent is to potentially match BMP opps. With previous plan(s) objectives)	MS4 PRPs, Comp Plan, Source Water Protection (SWP) program, and related local plans				2023: No conflicting goals, objectives, etc. encountered amongst various plans. 2022: Primary focus is centered around the BMPs called for in the Hazard Mitigation Plan against the BMPs called for in the BBAP.	
3.8	BMP Reporting Reconciliation		BCCD, local municipalities, local watershed groups, County, CWP, CBF, TSPs	All areas	On-going; tied to Catchment Targeting and 319 plan(s) development findings, and Action 3.6 for data manage	Ensure centralized platform (County GIS) appropriately captures and displays individual catchment needs, captured unreported BMPs, etc. and aligns with reporting processes Will require "boots-on-the-ground" verifications	Local engineers/consultants, TSPs, BCCD	\$30k verifications funding		Dependent on PK funding noted under Action 3.2 for ag related BMPs reconcile, and data entry Dependent on funding outlined under Action 3.1 for catchment targeting	2023: Ag BMP reconciliation fully developed out, and a component of PK data maagement efforts. Urban-suburban still TBD. 2022: Process is essentially in place as a result of the Catchment Targeting approach. However, urban/suburban BMP reconciliation still needs final details flushed out.	