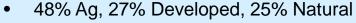


- 153 Square Miles
- 240.5 Stream Miles
- 207 Miles Aquatic Life Impairments
- Watershed Roughly 25 Miles by 8 Miles
- 2 Counties, 18 Municipalities
- 50,000 Inhabitants (325 per Square Mile)
- Fills an Olympic Pool every 6.5 Minutes





(...or the right way, the wrong way, and the Pequea)

















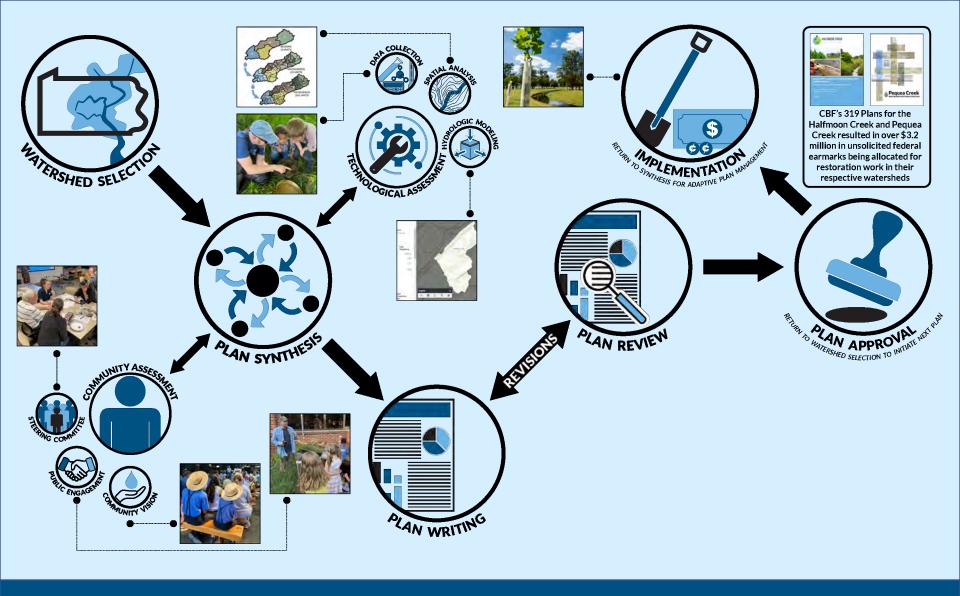




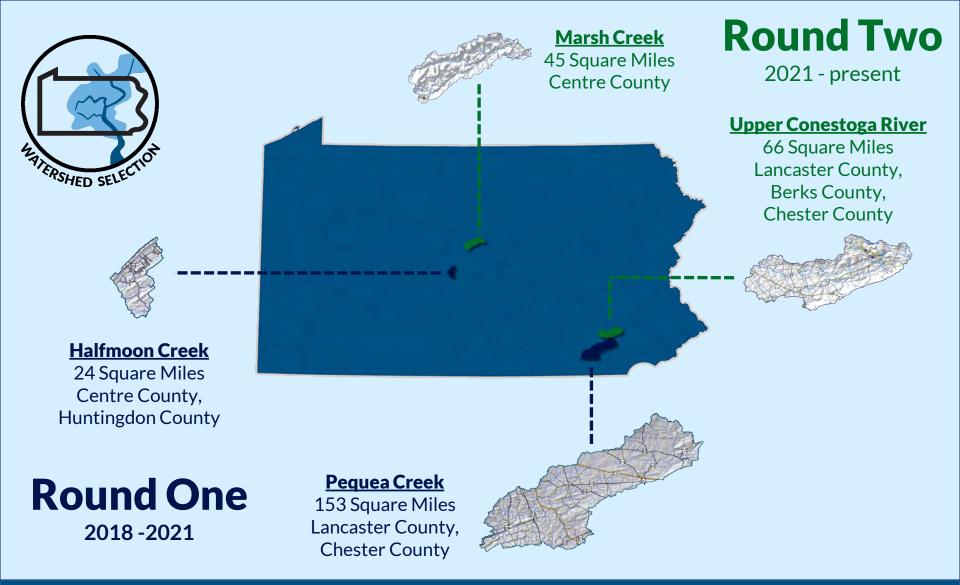




Pennsylvania 319 Team

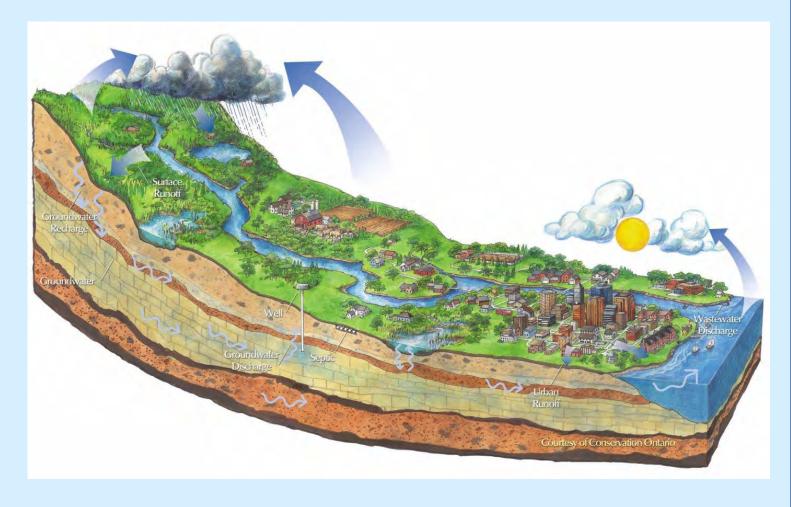




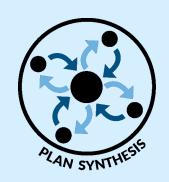






































































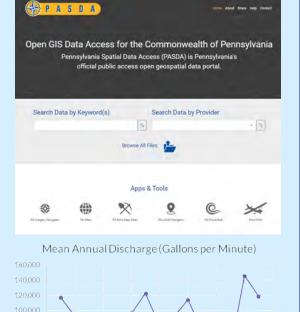




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7	c	D	É	F	G	н				
	STREAM	Lat	Long	Des Use	drainage area (sq mi)	2020 303(d) for Aquatic Lif				
2 Co	nestoga River	40.15040	-76.09700	WWF	54	IMPAIRED				
3. Co	nestoga River	40.13960	-76.02950	WWF	43.1	IMPAIRED				
4 Ce	dar Creek	40.13850	-76.02470	WWF	5.47	IMPAIRED				
5 Lit	tle Conestoga River	40.14580	-75.99080	WWF	6.79	IMPAIRED				
6 Lit	tle Conestoga River	40.13880	-75.96300	WWF	3.84	IMPAIRED				
7 Co	nestoga River	40.14140	-75,99790	WWF	27.7	IMPAIRED				
8 Co	nestoga River	40.13040	-75.97700	WWF	26.5	IMPAIRED				
9 Co	nestoga River	40.13889	-75.91374	WWF	18	IMPAIRED-				
10 Co	nestoga River	40.14720	-75.88120	WWF	14.7	IMPAIRED				
11 W	B Conestoga River	40.15390	-75.89646	WWF	3.85	IMPAIRED				
12 EB	Conestoga River	40.15870	-75.87720	WWF	6.67	IMPAIRED				
13 ER	Conestoga River	40 16800	-75.87110	WWF	3.53	IMPARED				

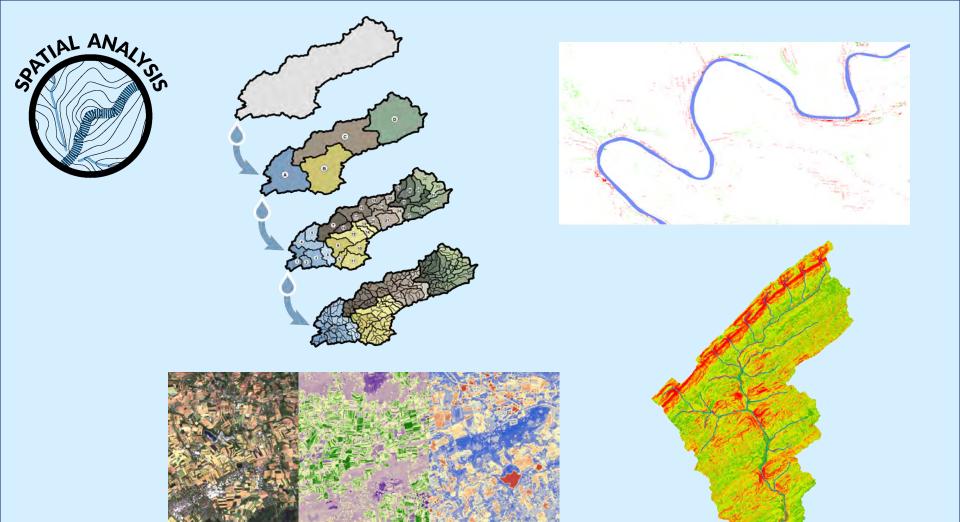






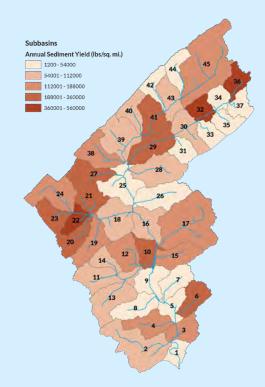
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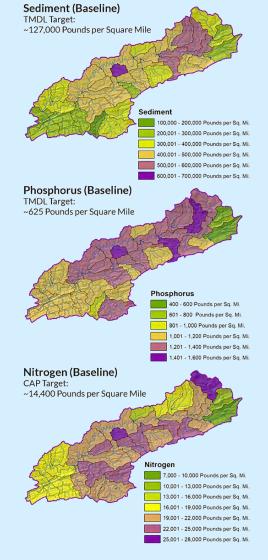
2004 2006 2008 2010 2012 2014 2016 2018 2020

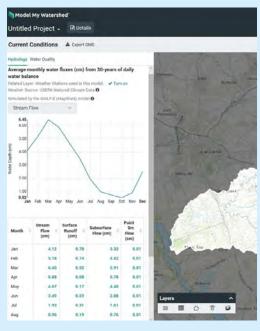


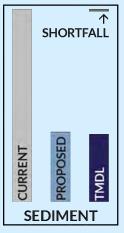


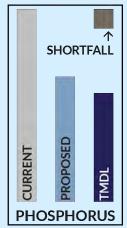




























































**Quantitative + Qualitative = Success** 



# **The Nine EPA Requirements**

## **We Determine**



Pollution Causes + Sources
Pollutant Loading + Load Reductions
Management Measures to Reduce Load
Implementation Assistance
Information/Education Component
Project Schedule
Interim, Measurable Milestones
Indicators to Measure Progress
Monitoring Component

Goals
Values
Priorities
Focus
Engagement
Strategies
Format
Partnerships
Buy-in



tent if we had the received in Salach the extent Prepara, the scanning list page and complicate entity, and more size first all great would be an illustration through the centre that result is a beauty size of the first war a morber of under milk combinations cannot the extended. First is the central risk that soldered plays in the purple. Though device in qualities with an analysis of the price of the extended of the interval present and the present and a size of the present and the present present an

PREVENT







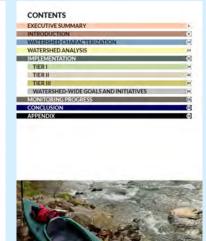












CONCLUSION

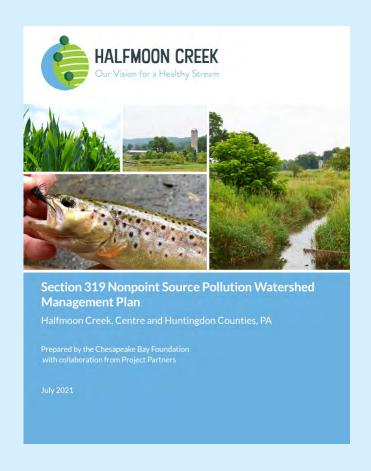


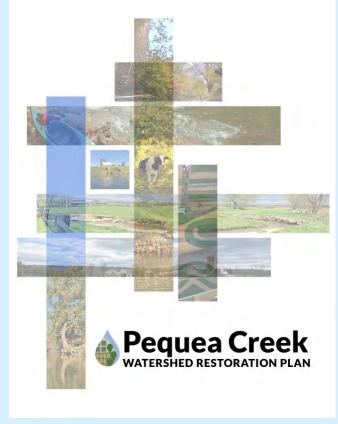




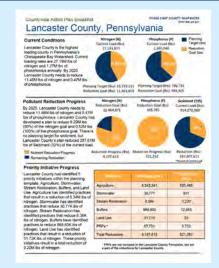




























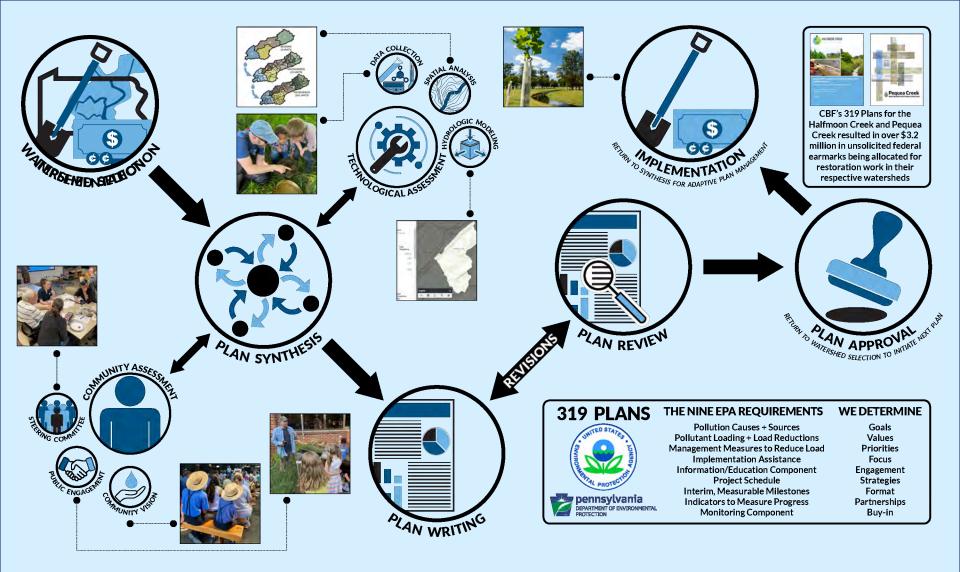












# The Nine EPA Requirements

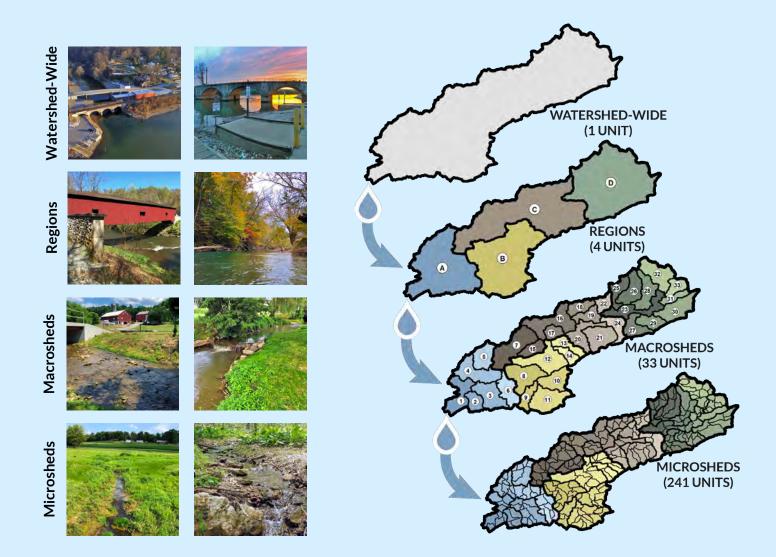
## **We Determine**

Pollution Causes + Sources
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Indicators to Measure Progress
Monitoring Component

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Buy-in









## TIER I

## PRIORITY PRESERVATION AREAS

(3 Basins, 9% of Pequea Creek Watershed, 5% of Resource Allocation)



## **TIER II**

NEAR-TERM RESTORATION AND DELISTING AREAS (7 Basins, 23% of Pequea Creek Watershed, 80% of Resource Allocation)



## TIER III

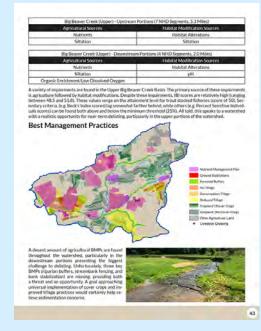
LONG-TERM RESTORATION AND OUTREACH AREAS (23 Basins, 68% of Pequea Creek Watershed, 15% of Resource Allocation)

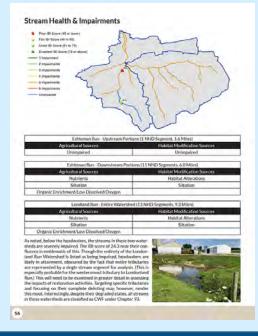




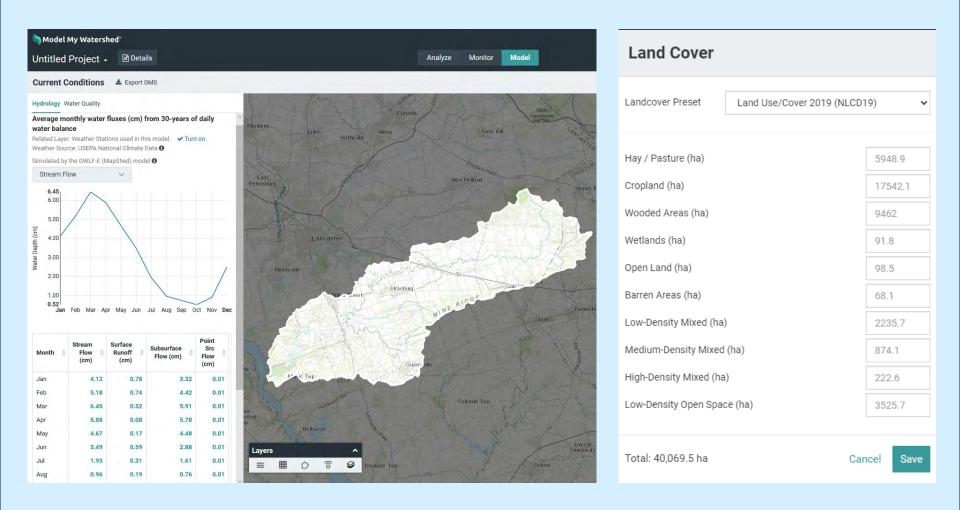


```
Input #1, Temp
                     ory,Status,Stream Name,COMID,HUCO8 ID,HUCO8 Name,Count
   Shared RecordID, ReachCode(2), Tally, CS, Count As Long
 im Shared Miles(2) As Double
 im Shared COMID$(2), LastCOMID$, UseCategory$(2), Status$(2), ImpCategory
 im Shared CauseSourceS(2, 11)
IsFirst = 1
CS = 0
While Not EOF(1)
    'For F = 1 To 100
    Input #1, UseCategory$(2), Status$(2), StreamName$(2), COMID$(2), HUCO
    If Status$(2) = "Unassessed" Then UseCategory$(2) = "Unassessed"
    If IsFirst = 1 Then LastCOMID$ = COMID$(2): LastUseCategory$ = UseCate
    'Print "LastCOMID$="; LastCOMID$; ", COMID$(2)="; COMID$(2); ", LastUs
    'Input Temp$
    If LastCOMID$ = COMID$(2) And LastUseCategory$ = UseCategory$(2) Then
       CS = CS + 1
       CauseSource$(1, CS) = Cause$
       CauseSource$(2, CS) = Source$
        IsFirst = 0
       Print #2, UseCategory$(1); ","; Status$(1); ","; StreamName$(1);
Print #2, MuniType$(1); ","; Zip$(1); ","; DesUse$(1); ",";
       For CS = 1 To 10
            Print #2, CauseSource$(1, CS); ","; CauseSource$(2, CS); ",";
            CauseSourceS(1, CS) = "": CauseSourceS(2, CS) =
       Print #2, CauseSource$(1, 11): ",": CauseSource$(2, 11)
CauseSource$(1, 11) = "": CauseSource$(2, 11) = ""
        CauseSource$(1, 1) = Cause$: CauseSource$(2, 1) = Source$
```

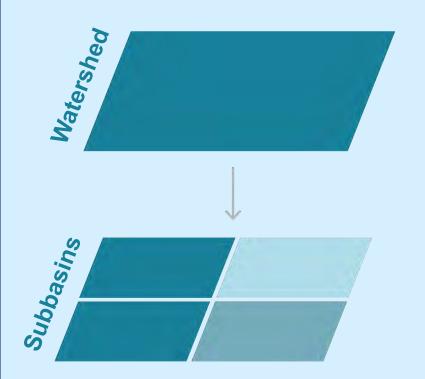












 Methodology developed in collaboration with David Arscott (Stroud Center) and Barry Evans (Penn State)

 Divided the watershed into smaller <u>subbasins</u> to identify "hotspots" for N, P, and sediment loading







Baseline (0%)

Existing (40%)

**Buildout (100%)** 



Baseline (0%)

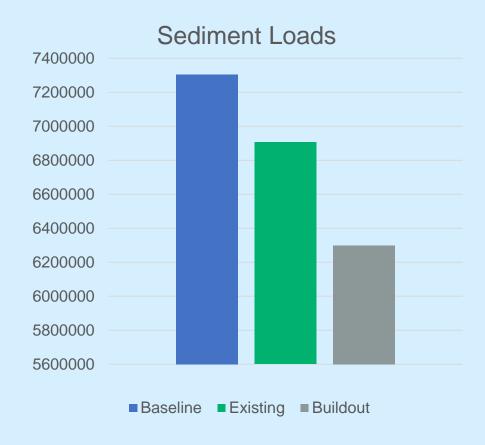
#### Total Total Sources Sediment Phosphorus Nitrogen Total Loads (kg) 7,305,158.3 278,115.6 18,458.0 Loading Rates (kg/ha) 1,027.84 39.13 2.60 Mean Annual Concentration (mg/L) 280.02 10.66 0.71 Mean Low-Flow 1,291.39 15.24 2.96 Concentration (mg/L)

Existing (40%)

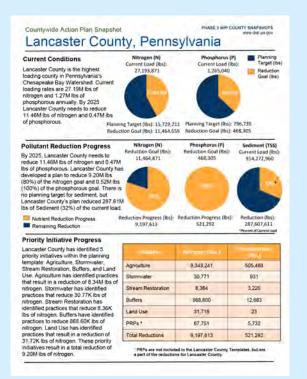
Sources	Sediment	Total Nitrogen	Total Phosphorus
Total Loads (kg)	6,905,924.4	278,382.8	17,941.2
Loading Rates (kg/ha)	971.67	39.17	2.52
Mean Annual Concentration (mg/L)	264.84	10.68	0.69
Mean Low-Flow Concentration (mg/L)	1,309.58	15.48	2.99

Buildout (100%)

Sources	Sediment	Total Nitrogen	Total Phosphorus
Total Loads (kg)	6,299,798.8	278,327.4	17,217.1
Loading Rates (kg/ha)	886.38	39.16	2.42
Mean Annual Concentration (mg/L)	241.70	10.68	0.66
Mean Low-Flow Concentration (mg/L)	1,322.13	15.69	3.01

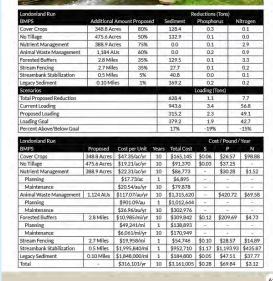






Eshleman Run					Re	ductions	Tons)	
BMPS	Additional	Amount Pr	oposed	5	ediment	Phosphor	us Ni	trogen
Cover Crops	394.1 A	cres	80%		145.2	0.5		0.0
No Tillage	495.7 A	cres	50%		198.0	0.1	4-( Tro	-0.2
Nutrient Management	645.6 A	res	75%		0.0	0.2		4.8
Animal Waste Management	1,137 A	Us	60%		0.0	0.2		1.0
Forested Buffers	2.4 Mil	es	40%		179.4	0.1	11	3.1
Stream Fencing	2.3 Mil	es	35%		20.1	0.1	9.11	0.2
Streambank Stabilization	0.4 Mil	es	5%		48.0	0.1		0.1
Legacy Sediment	0.10 M	les	1%		169.2	0.2		0.2
Scenarios					ı	oading (T	ons)	
Total Proposed Reduction					760.0	1.5		9.3
Current Loading					1,068.3	3.2		53.3
Proposed Loading					308.3	1.7		44.0
Loading Goal					309.3	1.5	- 1	34.8
Percent Above/Below Goal					0%	-16%		-26%
Eshleman Run						Cos	t / Pound /	Year
BMPS	Proposed	Cost per	Unit Ve	ars	Total Cost	S	P	N
Cover Crops	394.1 Acres			0	\$186.588	\$0.06	\$19.93	\$377.8
No Tillage	495.7 Acres	\$19.21/a		0	\$95.226	\$0.02	\$31.88	\$1.50
Nutrient Management	645.6 Acres	\$22.31/a		0	\$144.049	-	\$33.43	
Planning		\$17.73		1	\$11,446		- 1	
Maintenance		\$20.54/au/yr		0	\$132,603	-6-	-	
Animal Waste Management	1.137 AUs	\$117.07/2		.0	\$1.331.006	-	\$388.35	\$69.56
Planning		\$901.09	/au	1	\$1,024,487	140		-
Maintenance		\$26.96/a	u/vr 1	.0	\$306.519	-	-	
Forested Buffers	2.4 Miles	\$10,985/	ni/yr 1	0	\$259,692	\$0.07	\$127.43	\$4.13
		\$49,241	/mi	1	\$116,413	-		-
Planning		4		0	\$143,280	1 6 1	- 00	-
Planning Maintenance		\$6,061/n	n/yr   3				1	411.00
	2.3 Miles	\$19.958		1	\$45,124	\$0.11	\$21.58	514.23
Maintenance	2.3 Miles 0.4 Miles	4-1	/mi	1	\$45,124 \$734,382	\$0.11	\$21.58	-
Maintenance Stream Fencing		\$19,958	/mi IO/mi	_	A select	7-1-1-1	7	\$14.23 \$249.1 \$37.77

60









Management Measures to Reduce Load

Collective Action for Clean Water: A Partners & Resources Inventory, Analysis, and Recommended Integrated Funding **Delivery Strategy for Lancaster County** 



Penn State Agriculture & Environment Center

March 2021

#### TECHNICAL & FINANCIAL ASSISTANCE



A wide range of funding and expertise will be required to implement the recommendations in this plan. And though roval of this plan will make grants available through the EPA's 319 Program, the scope and scale of restoration work in the Pequea far exceeds resources available from this one source. For this plan's goals to become realities, numerous programs and partnerships will need to leveraged.

To aid in implementation of the Lancaster CAP, as well as achieving the Lancaster Clean Water Partners' goal of "clean and clear local streams by 2040," the Pennsylvania State University did a comprehensive funding and resource analysis for projects and BMPs in local watersheds. Their report detailed both funding and technical resources currently being utilized, as well a comprehensive list of additional opportunities. This chapter contains an abridged list from the report, with more detailed information found in the complete report, included in the plan appendix. (See "Collective Action for Clean Water: A Partners & Resources Inventory, Analysis, and Recommended Integrated Funding Delivery Strategy for Lancaster County," Penn State Agriculture & Environment Center, March 2021.)

#### Currently Utilized Technical Assistance & Funding Resources

#### Partners (Staff Capacity)

- · Lancaster Clean Water Partners
- · Lancaster Farmland Trust Chesapeake Bay Foundation
- · Chesapeake Conservancy
- · Alliance for the Chesaneake Bay Pequea Creek Watershed Assoc
- · Lancaster County Conservation District
- TeamAg · Red Barn
- Stroud Water Research Center
- Salisbury Township
- Other Pequea municipalities · Lancaster Conservancy
- Donegal TU
   US Fish & Wildlife Service



#### **Funding Programs**

- USDA Natural Resource Conservation
- Service Programs (NRCS) Environmental Quality Incentives Program (EQIP) Conservation Stewardship Program (CSP)
- Wetland Reserve Easement Program (WRE) USDA Farm Service Agency Conservation Service Programs
- Conservation Reserve Enhancement Program . DCNR Lancaster County Buffers Partnership
- · Lancaster County Buffer Bonus (Growing Greener)
- · Multifunctional Buffers (PACD)
- CBF Keystone Ten Million Trees (K10) Partnership Ag Planning Reimbursement
- PA Infrastructure Investment Authority (PENNVEST)
- Resource Enhancement and Protection Program (REAP)
   Dirt & Gravel Road Program
- Conservation Excellence Grants
- PA Soil Health Coalition (National Fish &
- Wildlife Federation)
- Subsurface Application of Manure · Lancaster Farmland Trust (LFT) Farm Conservation Grants
- · Farm Stewardship Program (FSP) Buffer Programs (Stroud)
- EPA Most Effective Basin Funding Capital Resource Conservation & Protection
- Grazing Program CBF Accelerating Buffers (National Fish &
- Wildlife Federation)

#### Potential Technical Assistance & Funding Resources Resources for Agricultural Best Management Practices

#### Partners (Staff Capacity)

- USDA FSA
- US EPA
- · PA DEP
- State Conservation Commission PENNVEST
- Lancaster County Conservation District
- Lancaster Farmland Trust
   Alliance for the Chesapeake Bay
- Chesapeake Bay Foundation
- Stroud Water Research Center
- Penn State University
- · TeamAg, Inc.
- · Red Barn Consulting
- · REAP PENNVEST Act 13 Watershed Restoration and Protection Program

**Funding Programs** 

Section 319 Program

· Growing Greener

Exelon Habitat Improvement Project Program (PFBC)
 Exelon Habitat Improvement Project Program (LCCD)

Ag Planning Reimbursement Program (APRP).

- Conservation Excellence Grants (CEG)
- Susquehanna Riverlands Mini Grants (Lancaster Conservancy)

NRCS Environmental Quality Incentives Program (EQIP)

• EPA Chesapeake Bay Program Funds (CBIG & CBRAP)

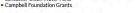
. EPA's SWG and INSR grants (currently administered by NFWF)

NRCS Conservation Innovation Grants (CIG)
 NRCS Conservation Stewardship Program (CSP)

Clean Water State Revolving Loan Fund

• EPA Most Effective Basin Funding

 Lancaster Clean Water Fund Funding from Programmatic Grants



- PA Soil Health Coalition (Stroud NEWE GG Grants)
- Capital RC&D Grazing Management Program (RC&D NFWF)
- Lancaster County Buffer Bonus Program (ACB GG Grant)
   Farm Stewardship Program (Stroud NFWF Grant)
- LFT Farm Conservation Grants (LFT various funding sources)
- Subsurface Application of Manure (LCCD Campbell Grant)

#### Turkey Hill Clean Water Partnership

## Resources for Stormwater Best Management Practices

- **Funding Programs** Section 319 Program
- EPA Chesapeake Bay Program Funds (CBIG & CBRAP)
   EPA's SWG and INSR grants (currently administered by NFWF)
   PA DCNR
- Clean Water State Revolving Loan Fund
- . Community Development Block Grants
- · Growing Greener
- · DCNR C2P2
- PENNVEST
- Act 13 Watershed Restoration and Protection Program
- · Dirt & Gravel/Low Volume Road Program
- Smart Growth Transportation Program LCCWC Stormwater Mini Grants
- · Susquehanna Riverlands Mini Grants (Lancaster Conservancy)
- · Lancaster Clean Water Fund

### Funding from Programmatic Grants

· Lancaster County Buffer Bonus Program (ACB GG Grant)

- Partners (Staff Capacity)

- PENNVEST · PADCED
- Lancaster County Conservation District Lancaster County Planning Department
- Lancaster County Clean Water Consortium
- Lancaster Conservancy Alliance for the Chesapeake Bay
- · Chesapeake Bay Foundation
- · Penn State University
- LandStudies, Inc.
- · RETTEW C.5. Davidson
- David Miller/Associates
- · Earthbound Artisan













#### PRIORITIZED IMPLEMENTATION TIMELINE Phase 1 Phase 3 Phase 4 Phase 2 (Years 1-5) (Years 6-10) (Years 11-15) (Years 16-20+) TIER I Local implementation of projects as deemed applicable Priority Preservation Areas Focus on preservation strategies and management of existing BMPs and critical landscapes; implementation of projects where opportunities arise with interested landowners Ongoing monitoring and assessment Complete implementation of priority Continue implementation of additional projects Implement early-action projects with Continue with implementation TIER II willing and interested landowners of priority projects projects by end of Phase 3 where opportunities arise with landowners Near-Term Begin and continue targeted outreach Restoration and with other priority landowners where **Delisting Areas** projects are not yet implemented in Continue outreach known gap areas Continue to reassess subbasins for delisting and reassignment to Tier I Establish baseline IBI Scores for all Tier II Ongoing monitoring and assessment and implementation adaptation REASSESS TIER III Initiate outreach with priority landowners and host community Continue outreach Long-Term Restoration watershed-related events to get priority landowners engaged Continue to reassess subbasins for reassignment to Tier II and Outreach Areas HER Implementation of projects meeting the outlined Tier III criteria o Ongoing monitoring and assessment PHASE 1 AQUATIC MILESTONE(S): PHASE 2 AQUATIC MILESTONE(S): PHASE 3 AQUATIC MILESTONE(S): PHASE 4 AQUATIC MILESTONE(S): Reduction indicator Baseline IBIs for all Tier II basins Promote 2 "Near-Delisting" Tier II basins · Promote 2 remaining "Near-Delisting" Tier II basins · Promote all remaining Tier II basins from original is a calculation of PHASE 1 LOADING MILESTONE(S)\*: to Tier I (full delisting) to Tier I (full delisting) plan to Tier I anticipated reductions Delist 50% of "Healthy Headwaters" areas streams Promote at least 2 Tier III basins to Tier II 20% Tier II sediment reduction targets Promote 2 Tier III basins to Tier II according to our modeling - not based PHASE 2 LOADING MILESTONE(S)\*: Promote 2 Tier III basins to Tier II PHASE 4 LOADING MILESTONE(S)\*: (842 tons/vear)

upon measured reductions in-stream

- 10% Tier II phosphorus reduction targets (0.8 tons/year)

#### PHASE 1 ADMIN MILESTONE(S):

· Completion of website

- 50% Tier II sediment reduction targets (2,104 tons/year) 25% Tier II phosphorus reduction targets
- (2.0 tons/year) PHASE 2 ADMIN MILESTONE(S):

 Complete comprehensive reclassification assessment

#### PHASE 3 LOADING MILESTONE(S)\*:

- 100% Tier II sediment reduction targets (4,210 tons/year)
- 75% Tier II phosphorus reduction targets (6.1 tons/year)

#### PHASE 3 ADMIN MILESTONE(S):

Develop plan components for new Tier II basins

- 100% Tier II sediment reduction targets (4,210 tons/year)
- 100% Tier II phosphorus reduction targets (8.1 tons/year)

#### PHASE 4 ADMIN MILESTONE(S):

- Develop plan components for new Tier II basins
- Complete comprehensive reclassification assessment









Minimum Mean IBI Score		
Category	Tier III to Tier II	Tier II to Tier I
Warm Water Fishery	≥ 40	≥ 50
Other Designations	≥ 50	≥ 65
All Designations	Two Tier II Criteria Met	≥ 50% Proposed BMP Implementation
	(One If Near-Term Delisting Met)	or Complete Delisting

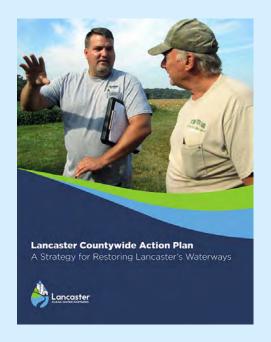


Cr	iteria 1:	Near [	Delistin	g Area	s (15%	Annua	Impro	vemen	t)							
									Year							
	Initial	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	20	23	26	30	35	40	46	53	61	65+	65+	65+	65+	65+	65+	65+
ore	30	35	40	46	52	60	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
Score	40	46	53	61	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
IBI	50	58	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
	60	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+

Cr	iteria 2:	Health	y Head	water	s Areas	(10%	Annual	Impro	vemen	t)						
									Year							
	Initial	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	20	22	24	27	29	32	35	39	43	47	52	57	63	65+	65+	65+
ore	30	33	36	40	44	48	53	58	64	65+	65+	65+	65+	65+	65+	65+
Score	40	44	48	53	59	64	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
IBI	50	55	61	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
	60	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+

									Year							
	Initial	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	20	21	22	23	24	26	27	28	30	31	33	34	36	38	40	42
re	30	32	33	35	36	38	40	42	44	47	49	51	54	57	59	62
Score	40	42	44	46	49	51	54	56	59	62	65+	65+	65+	65+	65+	65+
8	50	53	55	58	61	64	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+
	60	63	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+	65+









Washington, D.C. - Today, U.S. Senator Bob Casey (D-PA) is announcing the inclusion of more than \$3 million for Pennsylvania watershed projects in the Senate Fiscal Year (FY) 2022 Agriculture, Rural Development, Food and Drug Administration and Related Agencies Appropriations Bill. The Pequea Creek Watershed will receive more than \$2 million in congressionally directed spending and the Halfmoon Creek Watershed will receive over \$1 million in congressionally directed spending. The Chesapeake Bay Foundation will receive the funding and is working with local partners on these projects.

"The Chesapeake Bay Foundation is doing critical work to clean up our waterways and reduce further pollution in the Chesapeake Bay," said Senator Casey. "Funding for these projects will help support Pennsylvania farmers develop practices to keep soil and nutrients out of waterways. This is an important step in ensuring our waterways are clean and we're working towards a more sustainable economy. I will continue to









Conventional Tillage <15% Residue



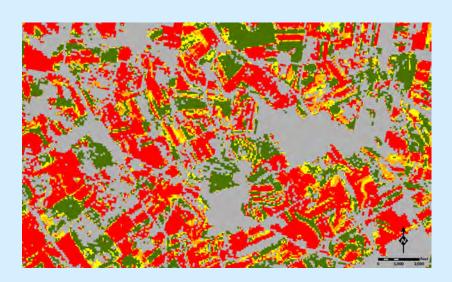
Reduced Tillage 15%-30% Residue



Conservation Tillage 30%-60% Residue



No Tillage >60% Residue



(b) 0.7

(c) 0.7

(d) 0.7

(e) 0.7

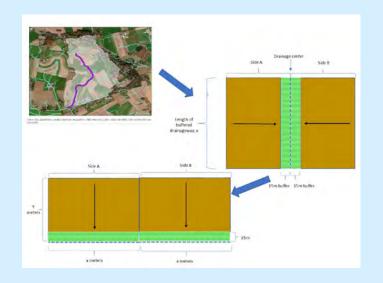
(e) 0.7

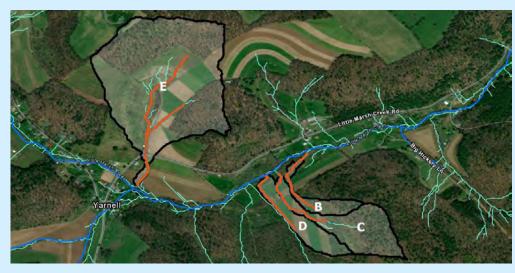
(f) 0.7

(f) 0.7

(g) 0.7

(g)

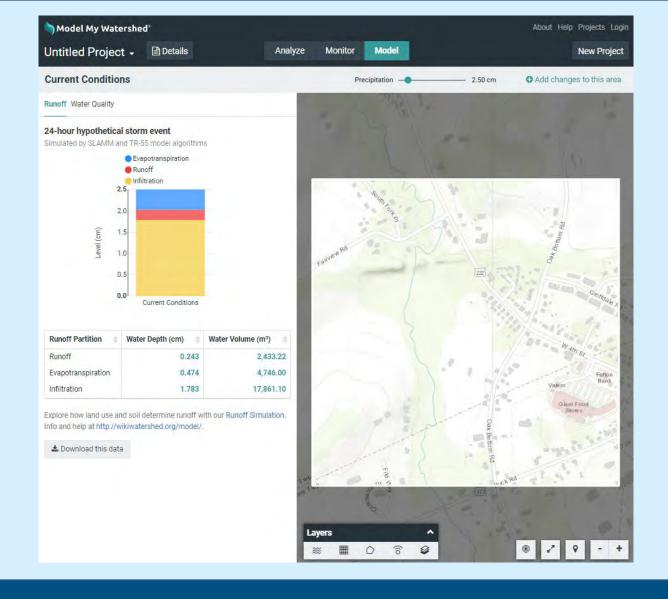




Analysis Courtesy of Michael Morris, PA DEP

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SE	SEDIMENT (Pounds per Acre)		Hay / Pasture	Cropland	Cropland with BMPs	Wooded Areas	Wetlands	Open Land	Barren Areas	Low-Density Mixed	Medium-Density Mixed	High-Density Mixed	Low-Density Open Space
	Hay / Pasture	133	+0	+1,191	+244	-73	-74	-49	-21	+926	+1,405	+1.118	+883
	Cropland	1,324	-1,191	+0	-947	-1,264	-1.265	-1,240	-1,212	-265	+214	-73	-308
	Cropland with BMPs	377	-244	+947	+0	-317	-318	-293	-265	+682	+1,161	+874	+639
	Wooded Areas	60	+73	+1,264	+317	+0	-1	+24	+52	+999	+1,478	+1,191	+956
2	Wetlands	59	+74	+1,265	+318	+1	+0	+25	+53	+1,000	+1,479	+1,192	+957
FROM	Open Land	84	+49	+1,240	+293	-24	-25	+0	+28	+975	+1,454	+1,167	+932
ш	Barren Areas	112	+21	+1,212	+265	-52	-53	-28	+0	+947	+1,426	+1,139	+904
	Low-Density Mixed	1,059	-926	+265	-682	-999	-1,000	-975	-947	+0	+479	+192	-43
	Medium-Density Mixed	1,538	-1,405	-214	-1,161	-1,478	-1,479	-1,454	-1,426	-479	+0	-287	-522
	High-Density Mixed	1,251	-1,118	+73	-874	-1,191	-1,192	-1,167	-1,139	-192	+287	+0	-235
	Low-Density Open Space	1,016	-883	+308	-639	-956	-957	-932	-904	+43	+522	+235	+0

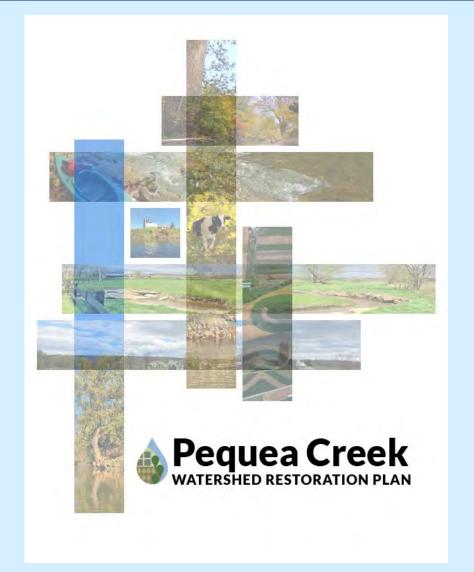














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