pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PAI130078**
Facility Type	**MS4**	APS ID	**953007**
Permit Type	**Individual**	Authorization ID	**1203084**

NPDES PERMIT FACT SHEET
MS4s

Applicant and Facility Information

Applicant Name	**Pocopson Township Chester County**	Facility Name	**Pocopson Township MS4 UA**
Applicant Address	PO Box 1	Facility Address	PO Box 1 Pocopson Twp Muni Bldg
	Pocopson, PA 19366-0001		Pocopson, PA 19366-0001
Applicant Contact	Susan Simone	Facility Contact	Susan Simone
Applicant Phone	(610) 793-2151	Facility Phone	(610) 793-2151
Client ID	110302	Site ID	613613
SIC Code	9199	Municipality	Pocopson Township
SIC Description	Electric, Gas And Sanitary Services	County	Chester
Date Application Received	September 18, 2017		
Date Application Accepted	April 8, 2024		
Purpose of Application	Formerly PAG130113.		

Internal Review and Recommendations

The following dates outline Pocopson Township's Public Participation:

Post on Website/Hard Copy Available at Township Office:	**1-17-2024 to 2-27-2024**
Advertise in Daily Local News:	**1-18-2024**
Public Comment Period:	**1-18-2024 to 2-27-2024**
Public Meeting / Board of Supervisors Meeting:	**2-26-2024**
Comment Period Closes:	**2-27-2024**
Submit to PA DEP:	**4-8-2024**

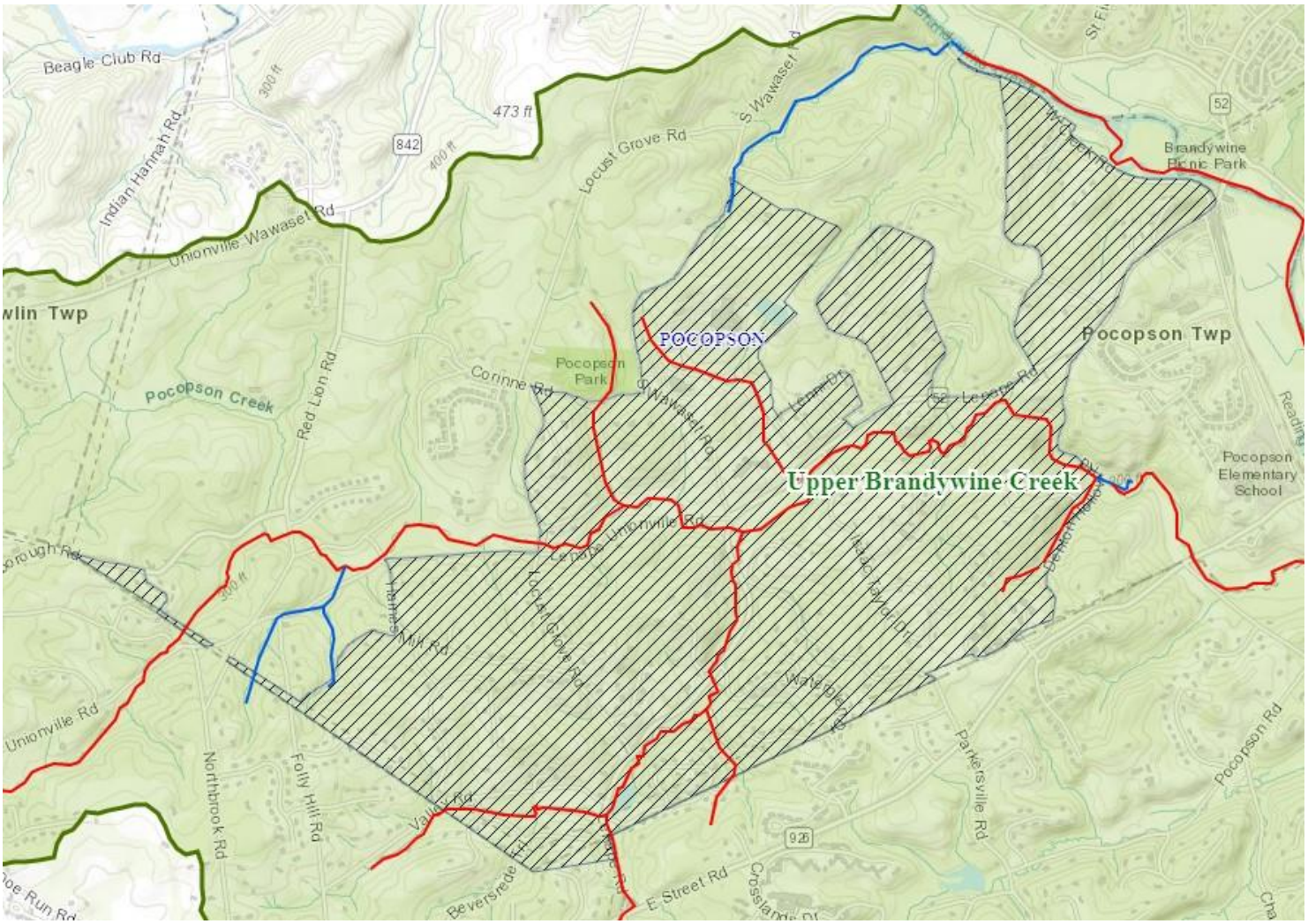
Approve	Deny	Signatures	Date
X		Ian Quinlan / Environmental Engineer	April 9, 2024
x		Elizabeth Mahoney Elizabeth Mahoney / Environmental Group Manager	April 11, 2024

Internal Review and Recommendations

MS4 Urban Area Report
POCOPSON TWP, Chester County

INDIVIDUAL PERMIT REQUIRED: Yes	REASON: TMDL Plan	NPDES ID: PAG130113

IMPAIRED DOWNSTREAM WATERS	REQUIREMENTS	OTHER CAUSES OF IMPAIRMENT
Christina River Basin Sediment	TMDL Plan-Siltation Suspended Solids (4a)	



Internal Review and Recommendations

Step T1 – Revised (1995) Christina TMDL Baseline Load

	Mainstem Brandywine to Pocopson Confluence (B15)		
Source	**Area (Acre)**	**Total Sediment Loading Rate (lbs/acre)**	**Sediment (lbs)**
Cropland	53.2	1,727.47	91,901.40
Disturbed	-	164.73	-
Forest	12.4	136.22	2,915.11
HD Mixed Urban	0.2	2,492.67	498.53
MD Mixed Urban	-	1,741.77	-
HD Residential	0.2	2,495.94	499.19
MD Residential	-	2,495.94	-
LD Residential	50.7	730.55	37,038.89
Turf/Golf	-	-	-
Water	-	-	-
Open Land	8.9	296.97	2,643.03
Totals	*134.6*		*135,496.15*

	Pocopson Creek Subshed (B31)		
Source	**Area (Acre)**	**Total Sediment Loading Rate (lbs/acre)**	**Sediment (lbs)**
Cropland	166.80	1,727.47	288,142.00
Disturbed	-	164.73	-
Forest	120.10	136.22	16,360.02
HD Mixed Urban	-	2,492.67	-
MD Mixed Urban	-	1,741.77	-
HD Residential	-	2,495.94	-
MD Residential	-	2,495.94	-
LD Residential	337.10	730.55	246,268.41
Turf/Golf	-	-	-

Internal Review and Recommendations

Water	0.30	-	-
Open Land	3.40	296.97	1,009.70
Totals	627.70		551,780.12

Revised (1995) Christina TMDL Baseline Load = 687,276.27 lbs

Step T3 – 2012 Load

	Mainstem Brandywine to Pocopson Confluence (B15)		
Source	**Area (Acre)**	**Total Sediment Loading Rate (lbs/acre)**	**Sediment (lbs)**
Cropland	32.70	1,818.62	59,468.87
Disturbed	-	228.93	-
Forest	19.30	174.45	3,366.89
HD Mixed Urban	3.30	2,184.96	7,210.37
MD Mixed Urban	-	1,548.50	-
HD Residential	-	2,182.85	-
MD Residential	-	1,547.69	-
LD Residential	79.30	686.92	54,472.76
Turf/Golf	-	202.10	-
Water	-	-	-
Open Land	-	220.20	-
Totals	134.60		124,518.88

	Pocopson Creek Subshed (B31)		
Source	**Area (Acre)**	**Total Sediment Loading Rate (lbs/acre)**	**Sediment (lbs)**
Cropland	89.70	1,818.62	163,130.21
Disturbed	55.80	228.93	12,774.29
Forest	94.30	174.45	16,450.64

Internal Review and Recommendations

HD Mixed Urban	3.70	2,184.96	8,084.35
MD Mixed Urban	1.00	1,548.50	1,548.50
HD Residential	-	2,182.85	-
MD Residential	20.70	1,547.69	32,037.18
LD Residential	361.70	686.92	248,458.96
Turf/Golf	-	202.10	-
Water	0.80	-	-
Open Land	-	220.20	-
Totals	627.70		482,484.14

Revised (1995) Christina TMDL Baseline Load = 607,003.03 lbs

Step T4 – Land Conversion Load Reduction

Revised (1995) TMDL Baseline Load =	687,276.27	lbs sediment
2012 Load =	607,003.03	lbs sediment
Land Conversion Load Reduction =	80,273.25	lbs sediment

Step T5 – Existing BMP Reduction (Urban BMPs)

There are no existing BMPs; therefore the TSS reduction is 0.0 lbs.

Step T6 – Revised 2012 Load

2012 Load =	607,003.03	lbs sediment
Existing BMP Reduction =	-	lbs sediment
Revised 2012 Load =	607,003.03	lbs sediment

Step T7 – Existing 2017 Load

2012 Load = Existing 2017 Load = 607,003.03 lbs sediment

Internal Review and Recommendations

Step T8 – Remaining TMDL Reduction Required after land use conversion and Existing BMP Load Reductions

TMDL Load Reduction Required (STEP T2) =	418,826.16	lbs sediment
Load Reduction from Land Conversion (STEP T4) =	80,273.25	lbs sediment
Existing BMP Reduction (STEP T5) =	-	lbs sediment
Remaining TMDL Load Reduction still to be achieved =	338,552.91	lbs sediment

Step T9 – TMDL Load Reduction Required this Permit Period (Must Choose A or B)

A. Achieve 100% reduction of Remaining TMDL Reduction Required (for sediment, phosphorus, and/or nitrogen) (see Step T8)

338,552.91 lbs of sediment must be reduced in this 5 YR permit period.

Not feasible, use Option B

B. The following reductions from the Existing 2017 Load are required (see Step T7) 10% reduction for sediment.

Existing 2017 Load = 607,003.03 lbs sediment

10% Reduction = 60,700.30 lbs sediment reduction required in this 5 YR permit perio

Step T10 - Remaining Long-term Reduction Required to be Achieved (if T9.B was chosen)

From T8 =	338,552.91	lbs sediment
From T9.B =	60,700.30	lbs sediment reduction to be achieved in 5 YR permit period
	277,852.61	lbs sediment reduction to be achieved in future permit terms

Step T11 - Proposed Urban BMP Load Reduction Calculations:

Internal Review and Recommendations

Name	BMP Type	Year Installed	Stream Restoration Length (ft)	TSS Reduction (lbs/yr)
Pocopson Creek	Stream Restoration	2024	450	51,750.00

Pocopson Township - Brandywine Creek Watershed Proposed Short-Term BMP Sediment Reductions (LBS/YR)

BMP Data		Length of BMP (LF)	BMP Effectiveness Value (LBS/LF/YR)	Reduction (Length x Rate) (LBS/YR)
ID	**P-001**	450	115	51,750
Name	**Stream Bank Restoration**			
Efficiency*	**115 lbs/ft/yr**			
TMDL Subbasin	**B31**			
Description	Stream Bank Restoration to stabilize and vegetate eroded banks.			
Location	Pocopson Creek, below Pocopson Township Administration Building, North of Lenape Unionville Road			
Date of Implementation	**2023/2024**			
			Total Reduction (BMP) LBS/YR	**51,750.00**

BMP Data		Length of BMP (LF)	BMP Effectiveness Value (LBS/LF/YR)	Reduction (Length x Rate) (LBS/YR)
ID	**P-002**	600	115	69,000
Name	**Stream Bank Restoration**			
Efficiency*	**115 lbs/ft/yr**			
TMDL Subbasin	**B31**			
Description	Stream Bank Restoration to			

Internal Review and Recommendations

	stabilize and vegetate eroded banks.		
Location	Pocopson Creek, below Pocopson Township Administration Building, South of Lenape Unionville Road		
Date of Implementation	**2027/2028**	**Total Reduction (BMP) LBS/YR**	**69,000.00**

Total Short-Term Reduction (LBS/YR)	120,750.00

Pocopson Township - Brandywine Creek Watershed Proposed Long-Term BMP Sediment Reductions (LBS/YR)

BMP Data			**Length of BMP (LF)**	**BMP Effectiveness Value (LBS/LF/YR)**	**Reduction (Length x Rate) (LBS/YR)**
ID	**P-003**		500	115	57,500
Name	**Stream Bank Restoration**				
Efficiency	**115 lbs/ft/yr**				
*** TMDL**					
Subbasin	**B31**				
Description	Stream Bank Restoration to stabilize and vegetate eroded banks.				
		Total Reduction (BMP) LBS/YR			**57,500.00**
Location	Pocopson Creek, 899 Denton Hollow Road				
Date of Implementation	**2031/2032**				

BMP Data			**Length of BMP (LF)**	**BMP Effectiveness Value (LBS/LF/YR)**	**Reduction (Length x Rate) (LBS/YR)**
ID	**P-004**		350	115	40,250
Name	**Stream Bank Restoration**				

Internal Review and Recommendations

Efficiency*	**115 lbs/ft/yr**			
TMDL Subbasin	**B31**			
Description	Stream Bank Restoration to stabilize and vegetate eroded banks.			
Location	Pocopson Creek, Public Works Garage, 1440 Lenape Road			
Date of Implementation	**2034/2035**			
		Total Reduction (BMP) LBS/YR		**40,250.00**

BMP Data		Length of BMP (LF)	BMP Effectiveness Value (LBS/LF/YR)	Reduction (Length x Rate) (LBS/YR)
ID	**P-005**	450	115	51,750
Name	**Stream Bank Restoration**			
Efficiency*	**115 lbs/ft/yr**			
TMDL Subbasin	**B15**			
Description	Stream Bank Restoration to stabilize and vegetate eroded banks.			
Location	Unnamed Tributary to Brandywine Creek, PECO property on Lenape Road near Lenape Farm Lane			
Date of Implementation	**2037/2038**			
		Total Reduction (BMP) LBS/YR		**51,750.00**

BMP Data		Length of BMP (LF)	BMP Effectiveness Value (LBS/LF/YR)	Reduction (Length x Rate) (LBS/YR)
ID	**P-006**	600	115	69,000
Name	**Stream Bank Restoration**			
Efficiency*	**115 lbs/ft/yr**			
TMDL Subbasin	**B15**			
Description	Stream Bank Restoration			

Internal Review and Recommendations

	to stabilize and vegetate eroded banks.	**Total Reduction (BMP) LBS/YR** **69,000.00**
Location	Unnamed Tributary to Brandywine Creek, Riverside property below Winston Lane	
Date of Implementation	**2040/2041**	

Total Long-Term Reduction (LBS/YR)	218,500.00

Pocopson Township - Brandywine Creek Watershed BMP Estimated Costs and Potential Funding

Short Term BMP Implementation					
ID	**Type**	**TMDL Subbasin**	**Estimated Cost (design, permitting, construction)**	**Funding Sources**	**Project Sponsors/Partners**
P-001	**Stream Bank Restoration**	**B31**	**$300,000.00**	**American Recovery Plan**	**Township Volunteers**
P-002	**Stream Bank Restoration**	**B31**	**$400,000.00**	**Stormwater/Watershed Grants Township General Funds**	**Brandywine Conservancy Brandywine Red Clay Alliance Township Volunteers**

Long Term BMP Implementation

Internal Review and Recommendations

ID	Type	TMDL Subbasin	Estimated Cost (design, permitting, construction)	Funding Sources	Project Sponsors/Partners
P-003	Stream Bank Restoration	B31	$332,500.00	Stormwater/Watershed Grants Township General Funds	Brandywine Conservancy Brandywine Red Clay Alliance Township Volunteers
P-004	Stream Bank Restoration	B31	$235,000.00	Stormwater/Watershed Grants Township General Funds	Brandywine Conservancy Brandywine Red Clay Alliance Township Volunteers
P-005	Stream Bank Restoration	B15	$300,000.00	Stormwater/Watershed Grants Township General Funds	Brandywine Conservancy Brandywine Red Clay Alliance Township Volunteers
P-006	Stream Bank Restoration	B15	$400,500.00	Stormwater/Watershed Grants Township General Funds	Brandywine Conservancy Brandywine Red Clay Alliance Township Volunteers

Section F – Responsible Parties for Operation & Maintenance (O&M) of BMP's

Operations and Maintenance (O&M) activities associated with each BMP, as well as the anticipated party responsible for O&M of each BMP are included below.

Short Term BMP Implementation				
ID	Type	TMDL Subbasin	Anticipated Party Responsible for O&M	O&M Activities
P-001	Stream Bank Restoration	B31	Pocopson Township	Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals
P-002	Stream Bank Restoration	B31	Pocopson Township	Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals
Long Term BMP Implementation				
ID	Type	TMDL Subbasin	Anticipated Party Responsible for O&M	O&M Activities

Internal Review and Recommendations

P-003	**Stream Bank Restoration**	**B31**	**Pocopson Township**	**Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals**
P-004	**Stream Bank Restoration**	**B31**	**Pocopson Township**	**Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals**
P-005	**Stream Bank Restoration**	**B15**	**Pocopson Township**	**Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals**
P-006	**Stream Bank Restoration**	**B15**	**Pocopson Township**	**Inspect annually and 48 hrs after major storm events and make required repairs Inspect and maintain vegetation Mow surrounding areas to control invasive species Remove sediment and debris Avoid excess use of pesticides and other chemicals**

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.