pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

POLLUTANT REDUCTION PLAN (PRP) / TMDL PLAN FINAL REPORT

Before completing this report please review the instructions, which are located within the Annual MS4 Status Report Instructions (3800-FM-BCW0491)

PRP / TMDL PLAN SUMMARY

Permittee Name: North Franklin Township Permit No.: PAI136148

☒ PRP ☐ TMDL Plan ☐ Combined PRP / TMDL Plan

Plan Approval Date: 2024 Required Completion Date: **9/30/2024**

Joint Plan? ☐ Yes ☒ No *If Yes, identify all participating permittees as an attachment to this report*

Surface Waters Addressed by Plan: Chartiers Creek

Permittee's Planning Area (acres): **134** Total Planning Area (Joint Plans): **-0** acres

Pollutant Load Reduction Calculation Methodology:

☐ Simplified Method ☐ Mapshed ☐ ModelMyWatershed ☒ Other: NLCD Land Cover in GIS

	TSS		TN		TP	
Baseline Pollutant Load – Planning Area	561995	lbs/yr	0	lbs/yr	1039	lbs/yr
Pollutant Load Reduction Requirement (%)	10	%	0	%	5	%
Pollutant Load Reduction Requirement (lbs/yr)	52011	lbs/yr	0	lbs/yr	**50**	lbs/yr
WLA Reduction Requirement *(TMDL Plan only)*		lbs/yr		lbs/yr		lbs/yr

BMP IMPLEMENTATION

BMP Type	No. of BMPs	Pollutant Load Reductions Achieved (Credit)		
		TSS	TN	TP
Structural BMPs		lbs/yr	lbs/yr	lbs/yr
Non-Structural BMPs		lbs/yr	lbs/yr	lbs/yr
Total		lbs/yr	lbs/yr	lbs/yr

Pollutant Load Reductions are documented on the following attachments:

☐ Attachment A – Infiltration BMPs No.: _____

☐ Attachment B – BMP Retrofits No.: _____

☐ Attachment C – Stream and/or Floodplain Restoration No.: _____

☐ Attachment D – Street Sweeping or Storm Drain Solids Removal No.: _____

☐ Attachment E – Riparian Buffers No.: _____

☐ Attachment F – Tree Planting No.: _____

☐ Attachment G – Non-structural (Annual Practice) BMPs No.: _____

☐ BMP(s) have been implemented for which there are no attachments *(attach calculations)*

COMPLIANCE DETERMINATION

Were the pollutant load reduction requirements of the permit met? ☐ Yes ☐ No

If the pollutant load reduction requirements of the permit were **not met**, report the required load reductions remaining in lbs/yr and as a percentage of the total required load reduction.

	TSS		TN		TP	
Load Reduction Remaining	52011	lbs/yr		lbs/yr	1039	lbs/yr
Percent of Required Load Reduction Remaining	100	%		%	100	%

If the pollutant load reduction requirements of the permit were not met, attach an explanation and provide a schedule for completing implementation of the PRP or TMDL Plan, including interim milestones.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Erin Dinch
Responsible Official Name

Director of Planning and Development
Official Title


Signature

9/27/24
Date Signed

ATTACHMENT A – INFILTRATION BMPs

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Construction of the BMP is Complete. Date Construction Completed: _____

☐ Photographs, Drawings, and O&M Plan are attached. Inspection/Monitoring Frequency: _____

Permits or Approvals Obtained: _____

Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

Type of BMP (see instructions): _____

BMP Effectiveness Values: TSS: _____ % TN: _____ % TP: _____ %

Effectiveness Values Source: ☐ DEP ☐ CB Expert Panel Report ☐ Other: _____

BMP CONSTRUCTION

BMP Infiltrating Surface Area (ft^2): _____ Ponding Depth (ft): _____ ☐ Underdrain

Media Description: _____ Media Depth (ft): _____

☐ Vegetated Loading Ratio *(see instructions)*: _____ WQ Storage Volume (ft^3): _____

TSS LOAD DELIVERED TO BMP

Total Drainage Area Treated by BMP: _____ acres (Treatment Area)

TSS Load Delivered to BMP – Simplified Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS Load Delivered to BMP – Land Cover-Based Calculation Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value (%) = _____ lbs/yr TSS Credit

Permittee Credit for Joint BMPs (if applicable): % or lbs/yr TSS Credit

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.***

ATTACHMENT B – BMP RETROFITS

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Construction of the BMP is Complete. Date Construction Completed: _____

☐ Photographs, Drawings, and O&M Plan are attached. Inspection/Monitoring Frequency: _____

Permits or Approvals Obtained: _____

Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

Effectiveness Values Source:

☐ DEP: BMP Type (Pre): _____ BMP Type (Post): _____

Retrofit TSS Effectiveness Value: ____ % *(Post – Pre Effectiveness Values)*

☐ CB Expert Panel Report: ☐ Runoff Reduction (RR) ☐ Sediment Treatment (ST)

RS (ac-ft): _____ IA (ac): _____ R/IA (in): _____ Retrofit TSS Effectiveness Value: ____ %

BMP CONSTRUCTION

BMP Infiltrating Surface Area (ft^2): _____ Ponding Depth (ft): _____ ☐ Underdrain

Media Description: _____ Media Depth (ft): _____

☐ Vegetated Loading Ratio *(see instructions)*: _____ WQ Storage Volume (ft^3): _____

TSS LOAD DELIVERED TO BMP

Total Drainage Area Treated by BMP: _____ acres (Treatment Area)

TSS Load Delivered to BMP – Simplified Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

Sediment Load Delivered to BMP – Land Cover-Based Calculation Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value = _____ lbs/yr TSS Credit

Permittee Credit for Joint BMPs (if applicable): % or _____ lbs/yr TSS Credit

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.***

ATTACHMENT C – STREAM RESTORATION

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Construction of the BMP is Complete. Date Construction Completed: _____

☐ Photographs, Drawings, and O&M Plan are attached*. Inspection/Monitoring Frequency: _____

Permits or Approvals Obtained: _____

Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

STREAM RESTORATION TYPE

Stream Restoration – Default Rate:

☐ Simplified Method (44.88 lbs/ft/yr)

☐ Mapshed/Model My Watershed (115 lbs/ft/yr)

Expert Panel Report Protocols (Select all that apply):

☐ Protocol 1: Prevented Sediment

☐ Protocol 2: Instream and Riparian Nutrient Processing

☐ Protocol 3: Floodplain Reconnection

Does the restoration meet all the minimum qualifying conditions for stream restoration? ☐ Yes ☐ No

TSS LOAD REDUCTION – DEFAULT RATE

Total restoration length (center line of stream) (ft): _____

Restoration length stabilized using hard armoring (if applicable) (ft): _____

Restoration length armored by "Creditable w/Limits" practices (if applicable) (ft): _____

Percent of total restoration length armored by "Creditable w/Limits" practices (%): _____

Creditable restoration length (ft): _____

TSS Credit: Creditable restoration length (ft) x Default Rate (lbs/ft/yr) = _____ lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

POLLUTANT LOAD REDUCTIONS – EXPERT PANEL PROTOCOLS

Total restoration length (ft): _____ Floodplain area created (if applicable) (ac): _____

Protocol 1 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr

Protocol 2 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr

Protocol 3 Pollutant Load Reduction: TSS: _____ lbs/yr TN: _____ lbs/yr TP: _____ lbs/yr

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.***

ATTACHMENT D – STREET SWEEPING OR STORM SEWER SOLIDS REMOVAL

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Required documentation is attached*. Sweeping/Removal Frequency: _____

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

CREDITING METHOD

BMP Type: ☐ Street Sweeping ☐ Storm Sewer Solids Removal

Expert Panel Report Advanced Sweeping Technology: ☐ SCP-1 (AST- 2 PW) ☐ SCP-2 (AST- 1 PW)
☐ SCP-3 (AST- 1 P2W) ☐ SCP-4 (AST- 1 P4W) ☐ SCP-5 (AST- 1 P8W) ☐ SCP-6 (AST- 1 P12W)
☐ SCP-7 (AST- S1 or S2) ☐ SCP-8 (AST- S3 or S4)

Expert Panel Report Mechanical Broom Technology: ☐ SCP-9 (MBT- 2PW) ☐ SCP-10 (MBT- 1 PW)
☐ SCP-11 (MBT- 1 P4W)

DEP Effectiveness Value Table: ☐ DEP Default

Expert Panel Report: ☐ Mass Loading – Street Sweeping ☐ Mass Loading – Solids Removal

Impervious area swept within planning area: _____ acres

BMP Effectiveness Values (if applicable): TSS: _____ % TN: _____ % TP: _____ %

TSS LOAD REDUCTION – EFFICIENCY APPROACH

Sediment Load Generated by Impervious – Simplified Method

Pollutant	Land Cover	Area Swept (ac)	Loading Rate (lbs/ac/yr)	Generated Load (lbs/yr)
TSS	Impervious			

Sediment Load Generated by Impervious – Land Cover-Based Calculation Method

Pollutant	Land Cover	Area Swept (ac)	Loading Rate (lbs/ac/yr)	Generated Load (lbs/yr)
TSS				
TSS				
			Total:	

TSS Load Generated by Impervious (lbs/yr) x TSS Effectiveness Value (%) = _____ lbs/yr TSS

TSS LOAD REDUCTION – MASS LOADING APPROACH

Sediment Load Reduction (lbs of TSS collected)	Permit Year 1 (Y1)	Permit Year 2 (Y2)	Permit Year 3 (Y3)	Permit Year 4 (Y4)	Permit Year 5 (Y5)
	lbs	lbs	lbs	lbs	lbs

Average annual TSS reduction (Y1 + Y2 + Y3 + Y4 + Y5) / 5 = _____ lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.***

ATTACHMENT E – RIPARIAN BUFFERS

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Construction of the BMP is Complete. Date Construction Completed: _____

☐ Photographs, Drawings, and O&M Plan are attached.* Inspection/Monitoring Frequency: _____

Permits or Approvals Obtained: _____

Party Responsible for Long-Term O&M: ☐ Permittee ☐ Other: _____

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

BMP Effectiveness Values: TSS: _____ % TN: _____ % TP: _____ %

Effectiveness Values Source: ☐ DEP ☐ CB Expert Panel Report ☐ Other: _____

BMP CONSTRUCTION

Buffer Implementation Area (ac) _____ Average Buffer Width (ft): _____

Loading Ratio *(see instructions)*: _____

TSS LOAD DELIVERED TO BMP

Total Drainage Area Treated by BMP: _____ acres (Treatment Area)

TSS Load Delivered to BMP – Simplified Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS	Impervious			
	Pervious			
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS Load Delivered to BMP – Land Cover-Based Calculation Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value (%) = _____ lbs/yr TSS Credit

Land Use change credit, if applicable (*see instructions*) = _____ lbs/yr TSS Credit

Total TSS Load Reduction = _____ lbs/yr TSS Credit

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.***

ATTACHMENT F – TREE PLANTING

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Required documentation is attached*.

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

BMP TREATMENT AREA

DEP estimates that 100 fully mature trees of mixed species (both deciduous and non-deciduous) provide pollutant load reductions for the equivalent of one acre (i.e., one mature tree = 0.01 acre).

Trees Planted within Planning Area: _____ x 0.01 = BMP Treatment Area (ac): _____

TSS LOAD REDUCTION CREDIT

TSS loading rate for land prior to planting trees: _____ lbs/ac/yr TSS

Method used to determine existing loading rate prior to planting trees:

☐ Simplified Method – use pervious loading rate for county

☐ Land Cover-based calculation method – use loading rate for land cover type on which trees are planted

BMP effectiveness values for tree planting: TSS 20%; TN 10%; TP 15%

BMP Treatment Area (ac) x TSS loading rate ( ) lbs/ac/yr x 20% = _____ lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.***

ATTACHMENT G – NON-STRUCTURAL (ANNUAL PRACTICE) BMPs

GENERAL INFORMATION

Permittee Name: _____ Permit No.: _____

BMP Name: _____ Latitude: _____

Surface Waters: _____ Longitude: _____

Municipality: _____ County: _____

☐ Required documentation is attached*.

Joint BMP? ☐ Yes ☐ No *If Yes, attach a list of other permittees sharing credit for the BMP*

ELIGIBILITY AND BMP TYPE

Is the BMP located in the Planning Area? ☐ Yes ☐ No

Is the BMP required to meet regulatory requirements? ☐ Yes ☐ No

Permittees may only credit those reductions that will occur as a result of exceeding regulatory requirements.

BMP Type:

☐ Till – Low Residue ☐ Till – High Residue ☐ Conservation Till ☐ Cover Crops

☐ Other: _____

BMP Effectiveness Values: TSS: ____ % TN: ____ % TP: ____ %

Effectiveness Value Source:

☐ Chesapeake Bay Expert Panel Report ☐ Other: _____

BMP IMPLEMENTATION AREA

BMP Implementation Area: _____ acres

TSS Load Delivered to BMP – Simplified Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS	Impervious			
	Pervious			
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS Load Delivered to BMP – Land Cover-Based Calculation Method ☐ Calculations attached

Pollutant	Land Cover	Area (acres)	Loading Rate (lbs/ac/yr)	Delivered Load (lbs/yr)
TSS				
			Total TSS Load Delivered to BMP (lbs/yr) =	

TSS LOAD REDUCTION CREDIT

TSS Load Delivered to BMP (lbs/yr) x TSS Effectiveness Value = _____ lbs/yr TSS Credit

Permittee Credit for Joint BMPs (if applicable): ____ % or _____ lbs/yr TSS Credit

**** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for required attachments.***