

Application Type

Renewal

Facility Type

MS4

Permit Type

Individual

Application No.

PAI130036

APS ID

950318

Authorization ID

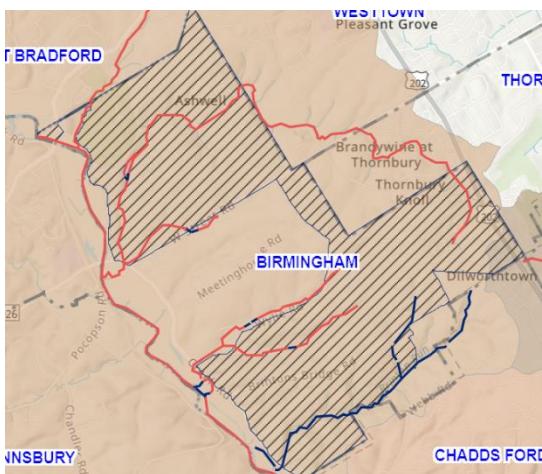
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## NPDES PERMIT FACT SHEET MS4s

Applicant and Facility Information			
Applicant Name	<u>Birmingham Township Chester County</u>		
Applicant Address	<u>1040 W Street Road</u>		
	<u>West Chester, PA 19382-8012</u>		
Applicant Contact	<u>Quina Nelling</u>		
Applicant Phone	<u>(610) 793-2600</u>		
Client ID	<u>78155</u>		
SIC Code	<u>9199</u>		
SIC Description	<u>Public Admin. - Genral Government, Nec</u>		
Date Application Received	<u>September 13, 2017</u>		
Date Application Accepted	<u>September 20, 2024</u>		
Purpose of Application	<u>Permit Renewal</u>		
Facility Name	<u>Birmingham Township MS4 UA</u>		
Facility Address	<u>1040 West Street Road</u>		
	<u>West Chester, PA 19382-8012</u>		
Facility Contact	<u>Quina Nelling</u>		
Facility Phone	<u>(610) 793-2600</u>		
Site ID	<u>613963</u>		
Municipality	<u>Birmingham Township</u>		
County	<u>Chester</u>		

### Internal Review and Recommendations

BIRMINGHAM TWP	PAG130047	Yes	TMDL Plan	West Branch Chester Creek	Appendix E-Siltation (5)	Cause Unknown (5), Other Habitat Alterations, Water/Flow Variability (4c)
				Christina River Basin Sediment	TMDL Plan-Siltation, Suspended Solids (4a)	
				Radley Run		Water/Flow Variability (4c)
				Plum Run		Water/Flow Variability (4c)
				Unnamed Tributaries to Brandywine Creek		Other Habitat Alterations (4c)



### 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.

Approve	Deny	Signatures	Date
<input checked="" type="checkbox"/>		 Carrie M Konnovitch, P.E. / Environmental Engineer Trainee	October 1, 2024
<input checked="" type="checkbox"/>		 Elizabeth A Mahoney / Environmental Group Manager	10-03-2024

**Internal Review and Recommendations**

PRP:

**Birmingham Township Simplified Sediment Baseline Loading**

PA DEP Simplified Method	
Sediment (lbs/yr)	
West Branch Chester Creek Baseline Sediment Loading	6,387.73
Required Sediment Reduction Percent	10%
Required Sediment Reduction (lbs/yr)	638.77

**Birmingham Township Simplified Sediment Baseline Loading Including Existing BMPs**

PA DEP Simplified Method	
Sediment (lbs/yr)	
West Branch Chester Creek Sediment Loading	6,387.73
Existing BMP Reductions	553.45
Sediment Loading with Existing BMPs	5,834.28
Required Sediment Reduction Percentage	10%
Required Sediment Reduction (lbs/yr)	583.43

**Birmingham Township Selected PRP BMPs**

Watershed	BMP ID	BMP Description	Drainage Area (AC)	Sediment (lbs/yr)
West Branch Chester Creek	BMPWBCC-BR1	Basin Retrofit – Dry Extended Detention Basin	5.54	2,767.23
<b>Required Sediment Reduction</b>				<b>583.43</b>
Surplus Sediment Reduction				+2,183.80

**Reductions Provided by Existing BMPs**

BMP ID	BMP Type	Watershed	Impervious Area (AC)	County Impervious TSS Loading Rate (lbs/ac/yr)	Pervious Acres	County Pervious TSS Loading Rate (lbs/ac/yr)	Total TSS Loading	TSS BMP Effectiveness Percentage	TSS Reduction (lbs/yr)
BMP015	Dry Detention Basins and Hydrodynamic Structures	West Branch Chester Creek	3.50	1,504.78	1.47	185.12	5,534.45	10	553.45

**Final Load Reduction Requirement**

Watershed	Drainage Area (AC)			PA DEP Land Loading TSS (lbs/yr)
	Impervious	Pervious	Total	
West Branch Chester Creek	3.31	7.60	10.91	6,387.73
BMP Reductions	1.54	4.00	5.54	553.45

**Base Pollutant Loading with Existing BMPs**

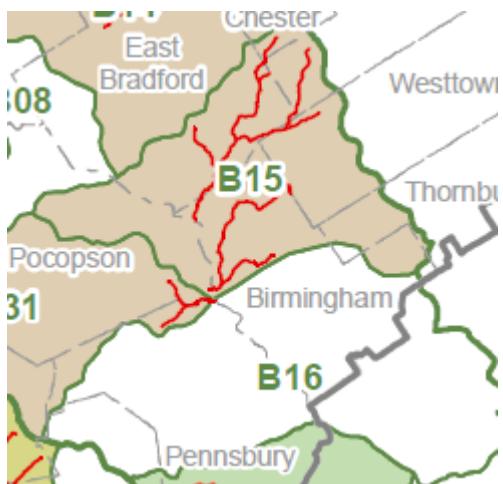
Required Reduction Percent 10%

Required Reduction (lbs/yr) **583.43**

Internal Review and Recommendations

TMDL Plan:

MUNICIPALITIES LISTED IN TMDL REPORTS	Sediment (tons/year)			
	Baseline MS4 Load <sup>1b.</sup>	MS4 Load Allocation <sup>1b.</sup>	MS4 Load Reduction <sup>1c.</sup>	% Reduction <sup>1b.</sup>
Brandywine Creek Watershed BIRMINGHAM TWP	310.81	130.35	180.46	58.06%



Birmingham Township Model My Watershed Sediment Baseline Loading

Model My Watershed	
Sediment (lbs/yr)	
Christina River Basin B15 Baseline Sediment Loading	648,305.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	64,830.50
Required Long-Term Sediment Reduction Percentage	58.06%
Required Long-Term Sediment Reduction (lbs/yr)	376,405.88

Birmingham Township Model My Watershed Sediment Baseline Loading Including Existing BMPs

Model My Watershed	
Sediment (lbs/yr)	
Christina River Basin B15 Sediment Loading	648,305.00
Existing BMP Reductions	37,073.00
Sediment Loading with Existing BMPs	611,232.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	61,123.20
Required Long-Term Sediment Reduction Percentage	58.06%
Required Long-Term Sediment Reduction (lbs/yr)	354,881.30

Birmingham Township Short-Term TMDL Requirement

Christina River Basin TMDL	
Sediment (lbs/yr)	
Subbasin B15 Final Sediment Loading	611,232.00
Required Short-Term Sediment Reduction Percentage	10%
Required Short-Term Sediment Reduction (lbs/yr)	61,123.20

Internal Review and Recommendations

**Birmingham Township Long-Term TMDL Requirement**

Christina River Basin TMDL	
Sediment (lbs/yr)	
Subbasin B15 Final Sediment Loading	611,232.00
<i>Required Long-Term Sediment Reduction Percentage</i>	58.06%
<b>Required Long-Term Sediment Reduction (lbs/yr)</b>	<b>354,881.30</b>

**Birmingham Township Selected TMDL BMPs**

Subbasin	BMP ID	BMP Description	Linear Footage	Sediment (lbs/yr)
Christina River Basin – B15	BMPCR-SR1	Stream Restoration	3,500	402,500.00
<b>Required Short-Term Sediment Reduction</b>				<b>61,123.20</b>
<b>Required Long-Term Sediment Reduction</b>				<b>354,881.30</b>