

WESTTOWN TOWNSHIP

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AGENDA

Westtown Township Board of Supervisors Regular Meeting

Monday, November 18, 2024 – 7:30 PM

Westtown Township Municipal Building

1039 Wilmington Pike, Westtown

- I. Call to Order & Pledge of Allegiance
- II. Summary of Board of Supervisors Workshops – November 11, 2024 and November 18, 2024
- III. Approval of Board of Supervisors Meeting Minutes – November 4, 2024
- IV. Departmental Reports
 - A. Westtown-East Goshen Police Department – Chief Bernot
 - B. Planning Commission – Jack Embick
 - C. Fire Marshal – Gerry DiNunzio
 - D. Finance Department – Cindi King
- V. Public Comment (Non-Agenda Items)
- VI. Old Business
- VII. New Business
 - A. Consider Revised Settlement Proposal for the Stokes Estate Conditional Use Application
 - B. Authorize Advertisement of 2025 Township Budget
 - C. Public Comment for Total Maximum Daily Load and Pollution Reduction Plan
 - D. Consider Microphone Upgrades to the Stokes Hall
 - E. Consider Escrow Release Request #1 for the Westtown School Lane House Land Development Project
 - F. Consider Payment Application #1 from Allan Myers for 2024 Road Program
- VIII. Announcements
 - A. Parks & Recreation Commission and the Historical Commission Vacancies
 - B. Yard Waste Collection – Saturday, November 23
 - C. Office Closure - Thursday, November 28 & Friday, November 29
 - D. Holiday Trash Schedule – Thursday trash, recycle and bulk pickup will roll to Friday, November 29
 - E. Good Fellowship 2025 Subscription Drive
 - F. Chester County Hazard Mitigation Plan Update: Public Survey
- IX. Public Comment (All Topics)
- X. Payment of Bills
- XII. Adjournment

How to Engage in the Public Comment Sections of a Township Meeting

Public Comment is heard at three (3) different points during the meeting:

1. BEFORE OLD BUSINESS - The public is permitted to make public comment on any matter not on the agenda. This comment period is subject to the time constraint in (d) below
2. PRIOR TO any action on a motion on an Agenda item. Public Comment at this stage is limited to the item under discussion (e.g. it is not appropriate to initiate a discussion on police services if the body is acting upon a sewer issue).
3. AFTER NEW BUSINESS. - Public Comment is open to any legitimate item of business which can be considered by that Township Board/Commission (e.g. Planning Commission can discuss issues having to do with plan reviews, but cannot discuss why the Township does not plow your street sooner. Supervisors can discuss nearly every issue).

How to make a comment to any Township Board/Commission:

- a. The Chair will announce that the Board/Commission will now hear public comment, either on a specific issue or generally.
- b. You must then obtain recognition from the Chair prior to speaking.
- c. Once you have the floor, state your name and address for the record.
- d. You may then make your comment or ask your question. You will have three (3) minutes to make your statement, unless the Chair has announced otherwise, so please come prepared!

WESTTOWN TOWNSHIP BOARD OF SUPERVISORS REGULAR MEETING
Westtown Township Municipal Building, 1039 Wilmington Pike, Westtown
Monday, November 4, 2024 at 7:30 PM

Present: Chair Tom Foster, Vice Chair Ed Yost, Police Commissioner Dick Pomerantz, Township Manager and Director of Planning & Zoning Mila Carter, Director of Public Works Mark Gross, and Township Solicitor Patrick McKenna.

I. Pledge of Allegiance & Call to Order

Mr. Foster called the meeting to order at 7:30 PM. He stated that the meeting was being recorded on Zoom, and with a slight delay on YouTube.

II. Summary of Board of Supervisors Workshop, November 4, 2024

Mr. Foster reported that the Board met in Executive session prior to tonight's meeting to discuss personnel, legal, and real estate matters. In the workshop, the Board met to hear the results of the Crebilly land acquisition fundraising campaign, to discuss 2025 budget requests from the Historical Commission and the Environmental Advisory Council, and to discuss proposed ordinance amendments to Article XVIII, Signs, and to accept public comment.

III. Approval of Meeting Minutes from October 21, 2024

Mr. Yost made a motion to approve the meeting minutes from October 21. Mr. Pomerantz seconded. There was no public comment, and the motion passed 3-0.

IV. Departmental Reports

A. Public Works Department – Mark Gross

Mr. Gross reported that the annual road maintenance project is almost complete. He stated that at the Oakbourne mansion, an HVAC contractor had replaced a valve on the boiler. Mr. Gross also stated that the shingles on the roof of the pole barn at the Public Works facility have been replaced after nearly 28 years. He added that at Oakbourne Park, multiple trees have come down in the woodland area off E. Pleasant Grove Road knocking into wires and causing frequent power outages. Public Works removed all limbs and trees that looked dead or deformed, at the park and at the wastewater plant. There have been multiple repairs to the pumps at Kirkwood pump station, Pleasant Grove pump station, and mixers at the treatment plant - all expected with the age of the equipment.

Mr. Gross provided that the Pleasant Grove force main replacement project is running on schedule and should be completed by the end of November.

B. Planning Commission (PC) – Tom Sennett

Mr. Sennett reported that there are a few pending Zoning Hearing Board applications for the Planning Commission to consider: special exception for the ice hockey rink expansion and variance for future 2-lot subdivision. He provided that the Commission has been working on ordinance amendments related to digital displays, outdoor lights and fences. Mr. Sennett noted that the Commission was focusing on having the rationale behind specific recommendations to better explain the ordinance parameters to applicants and residents. He felt it was crucial to get away from arbitrary and ambiguous regulations.

C. Historical Commission (HC) – Dan Campbell

Mr. Campbell reported that the Commission is currently focusing on the Huey ruins. He provided that a roadside marker has been ordered for the site, but will not be made and installed until the next year. He also pointed out that the artifacts discovered by the West Chester University (WCU) archaeology students are being cataloged and potentially

curated. Mr. Campbell noted that the Commission is seeking to buy a case to display these artifacts at the Township building. He announced that the next history lecture is on November 9 about the Darlington's Corner, which is located at the intersection of Route 202 and 926. Mr. Campbell also recapped that the planning session organized by the Commission to gather public feedback on schedule of America250 activities was poorly attended.

Mr. Campbell stated that the Commission is interested in revisiting the Historic Resources Ordinance amendments, which was previously presented to the Board of Supervisors, and is looking forward to meeting with Pat McKenna for the next steps.

D. Environmental Advisory Council (EAC) – Bob Yeats

Mr. Yeats reported that the Township received two more Bird Town designation signs and thanked Public Works for installing them. He reported that the Council decided to suspend their riparian buffer project in Plumly Farms open space, and will consider other locations more in line with the Township's Pollutant Reduction Plan. He added that the EAC booth at Westtown Day was well attended.

E. Township Solicitor – Patrick McKenna

Mr. McKenna reported that his office is working on the items related to the Crebilly land acquisition, with the settlement coming up in a month. He assisted with the bond closing and will continue to meet with the title company to work through the last remaining title commitment issues. Mr. McKenna also provided that he is assisting with two litigation matters. In addition, he is reviewing the sign ordinance, and assisting with zoning questions and code enforcement issues.

V. Public Comment (Non-Agenda Items)

John Hala, 920 Trellis Lane, expressed concern over speeding on his street, and requested speed signs or speed bumps. Mr. Pomerantz stated that speed complaints should be sent to the Police Department. Ms. Carter provided that she followed up with Sgt. Lewis about the absence of speed signage on Trellis Lane, and was informed that there is not enough distance on Trellis Lane to meet the minimum requirement for posting a speed sign. Mr. Gross pointed out that the neighborhood has a very active Homeowner's Association (HOA), and suggested that Mr. Hala reach out to them, because the neighborhood is not used as a cut through. He also pointed out that any traffic observed in the area in the last few weeks is due to the road closures related to the sewer force main replacement on S. Concord Road.

VI. Old Business

There was none.

VII. New Business

A. Public Hearing to Consider Adoption of Resolution 2024-13 Authorizing the Acquisition of Crebilly Farm

Mr. Foster explained that Resolution 2024-13 authorizes the Westtown Township Board of Supervisors to acquire an interest in real property of 206 acres known as Crebilly Farm (UPI. No. 67-4-29.4) to be designated as Township Open Space. He stated that it was an extensive process towards land acquisition started in 2022 with the passing of an open space tax referendum. It involved the amendment to the 2019 Westtown Township Comprehensive Plan, collaboration with a variety of stakeholders, including federal, state, and non-profit organizations, submissions of grant applications, purchase of conservation easements, and issuance of bonds.

Mr. Foster recapped the funding sources for the \$20,603,700 land acquisition of Crebilly Farm, which include a \$6,000,000 reimbursement grant from the National Park Service Land and Water Conservation Fund (LWCF) administered by the Department of Conservation and Natural Resources (DCNR), a \$4,206,750 reimbursement grant from the Chester County Preservation Partner Program (PPP), \$5,431,081 funded by open space tax, an anonymous donation of \$1,000,000 from a Natural Lands donor, a challenge grant of \$1,000,000 from Mt. Cuba, \$100,183 from private donor through Brandywine Conservancy, \$100,000 from Marshall Reynolds Foundation, a grant of \$550,000 from the Delaware River Watershed Protection Fund administered by the Open Space Institute Land Trust, Inc. (OSI), and the remaining \$2,215,686 to be jointly funded by Westtown Township, Crebilly Farm Family Associates, and the fundraising campaign managed by Natural Lands. Mr. Foster provided that the proposed resolution was reviewed by the Township solicitor, and tonight's hearing was advertised in the Daily Local News on October 23, 2024.

Mr. Yost made a motion to adopt Resolution 2024-13 authorizing the Acquisition of Crebilly Farm, to be designated as Township open space. Mr. Pomerantz seconded. There was no public comment, and the motion passed 3-0.

Mr. McKenna commented that the advertisement was actually on the 24th not the 23rd. He also mentioned that Mr. Robinson, on behalf of the landowner, was present at the work session and decided not to attend the hearing, although he was aware of it.

B. Consider Resolution 2024-14 Accepting Terms and Conditions of the Open Space Institute (OSI) Grant Program Award

Mr. Foster stated that Natural Lands applied for a Delaware River Watershed Protection Fund grant administered by the Open Space Institute Land Trust, Inc. (OSI) to assist with the acquisition of Crebilly Farm and on September 27, 2024 a grant in the amount of \$550,000 was awarded, subject to terms and conditions to close the grant. He stated that they include compliance with the terms of the Open Space Institute Land Trust Inc. grant documents relating to preconditions to closing; commitment by Westtown Township to reforest a minimum of 75% of the property including 300-foot minimum width on stream buffer areas; closing must occur before December 31, 2025; and other conditions as may be required on the basis of additional due diligence. Mr. Foster also provided that the special conditions to be included in grant agreement are reporting by grantee to OSI at closing of the transaction, and such other conditions that may be deemed necessary by OSI.

Mr. Yost made a motion to adopt Resolution 2024-14 accepting the terms and conditions of the Delaware River Watershed Protection Fund grant award administered by the Open Space Institute towards the acquisition of Crebilly Farm to be designated as Township open space. Mr. Pomerantz seconded.

Mr. Foster expressed concern over the grant conditions, including that 75% of the property must be forested. He suggested to wait until the Township has additional information from OSI before signing resolution. Mr. Yost said he would like more clarification on what constitutes a forest and the timing of the terms. Mr. Foster asked Mr. McKenna whether the Township has to accept the grant if it adopts this resolution. Mr. McKenna responded that Natural Lands has signed off on the grant agreement and stated that if the grant is not accepted, then it may affect the Township's cash obligation for settlement. Mr. McKenna also noted that he would review the agreement before giving a final opinion. There was no public comment, and the motion passed 2-1, with Mr. Foster opposed.

C. Authorize Act 247 Review for Proposed Ordinance Amendments to Article XVIII, Signs and Advertisement of Ordinance 2024-08 Amending Zoning Provisions for Signs

Mr. Foster stated that Westminster Presbyterian Church and Advent Lutheran Church approached the Planning Commission requesting amendment to the zoning ordinance to allow digital sign displays for properties with religious uses. He further explained that the Commission reviewed and discussed the request and the entire sign ordinance for other potential changes and provided their recommendations. The draft ordinance amendment was recommended for approval by the PC at its meeting on October 23. The proposed changes include permit use of digital displays for lots with religious uses; add definitions for ambient light conditions and tri-vision board sign; clarification to the definitions of billboard, changeable copy sign, digital display, message center sign, and flag; clarification that the use of full-motion video is prohibited; modifications of brightness standards; additional requirements pertaining to message center signs and digital displays; and changes to permit requirements and time limits for temporary signs;

Mr. Yost made a motion to authorize Act 247 review with the Chester County Planning Commission and advertisement of Ordinance 2024-08 amending the Zoning Ordinance for sign related provisions. Mr. Pomerantz seconded. There was no public comment, and the motion passed 3-0.

VIII. Announcements

Mr. Foster made the following announcements:

- A. The Township is seeking applicants for Director of Zoning and Code Enforcement.**
The full job description can be found on the Township website. Interested applicants should send their resume and letter of interest to Township Manager. Westtown Township offers a competitive salary and benefits package.
- B. The Township is seeking applicants for the Parks & Recreation Commission and the Historical Commission** - Information on what each of these commissions do can be found on the Township website. Interested residents should submit a resume or brief statement of interest to the Township Manager. Applicants must be current in all municipal obligations.
- C. Trustee for West Chester Public Library Board Vacancy** – West Chester Public Library Board is seeking a dedicated and community-minded individual to join their Board as a Trustee. Trustees play a crucial role in guiding the library’s strategic direction, ensuring financial stability, and supporting the library’s mission to provide equal access to information, ideas, and knowledge. More details are available on the West Chester Public Library website.
- D. Office Closure – Tuesday, November 5** - The Township office will be closed for the general election, and will reopen Wednesday at normal business hours.
- E. Historical Commission Lecture - Saturday, November 9 at 10am** - Westtown Historical Commission will present “Darlington Corners: Westtown’s historic crossroads village.” Discover the businesses and people who lived and worked in Darlington’s Corners at the intersection of Street Road and Wilmington Pike. Now largely demolished for modern purposes and Rte. 202 widening, this village was once the heart of Westtown Township. This event is free, and no registration is required.
- F. Yard Waste Collection – Saturday, November 9** - Yard waste must be in biodegradable paper bags or containers that can be dumped. Plastic bags are not accepted. Branches under 3” in diameter must be cut approximately 3 foot in length, bundled and tied, and placed at the curb by 6 AM on collection day. No rocks, logs, stumps, dirt, or ashes will be taken.

G. Tree Planting with Chester Ridley Crum (CRC) Watershed Association – Saturday, November 9, 9 to 11:30am. - Ms. Carter announced that the event has been cancelled.

IX. Public Comment (All Topics)

Robert Yeats, 1136 Talleyrand Road, expressed his support for the Crebilly land acquisition.

X. Payment of Bills

Mr. Yost made a motion to approve the General Fund bills in the amount of \$468,203.00, Enterprise Fund bills of \$52,770.82, and Capital Project Fund bills of \$28,095.91, for a grand total of \$549,069.73. Mr. Pomerantz seconded. There was no public comment, and the motion passed 3-0.

XI. Adjournment

There being no further business, Mr. Foster made a motion to adjourn the meeting at 8:08 PM.

Respectfully submitted,
Liudmila Carter
Township Manager

DRAFT



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November 10, 2024

Westtown Township incident report for October 2024

For October, there were 111 calls for service in Westtown (Fire and EMS). Fifty-six incidents were in the West Chester Fire Department district and 55 in the Goshen Fire Company district. Year to date, there have been 905 calls for service.

The peak time for incidents in September was between 9 am and 7 pm.

The West Chester Fire Department responded to 16 calls for service of those 16, 8 were fire alarms, and the Goshen Fire Company responded to 12 calls for service, of those 12, four were fire alarms.

The remaining 83 calls for service were medical responses handled by Good Fellowship EMS and Goshen Fire Company EMS.

There were two burning complaints in October, I also continue to take phone calls from residents about the burning ban. I attended a meeting about the Stokes project.

The fire department responded to a house fire on Sissinghurst Drive but was electrical in nature, no damage.

Respectfully submitted,

Gerald R. DiNunzio, Jr
Fire Marshal
Emergency Management Coordinator

**WESTTOWN TOWNSHIP
TREASURER'S REPORT
OCTOBER 2024**

ACCT#	DESCRIPTION	10/1/2024 BALANCE	OCTOBER RECEIPTS	OCTOBER EXPENDITURES	10/31/2024 BALANCE
GENERAL FUND		<u>\$8,346,763.89</u>	<u>\$1,764,449.33</u>	<u>-\$2,046,479.23</u>	<u>\$8,064,733.99</u>
01-100-015	Univest General Fund	\$626,644.74	\$589,053.00	(\$760,313.20)	\$455,384.54
01-100-100	PLGIT P-Card Prime	\$412,164.85	\$1,171.15	(\$140,000.00)	\$273,336.00
01-100-110	PLGIT P-Card Class	\$327.08	\$140,091.22	(\$140,305.12)	\$113.18
01-106-000	PLGIT Prime	\$1,937,867.96	\$8,437.58	(\$2,175.25)	\$1,944,130.29
01-106-100	PLGIT Class	\$592.86	\$2.38	\$0.00	\$595.24
01-106-115	Univest GF Savings	\$4,366,347.29	\$1,024,440.92	(\$13.00)	\$5,390,775.21
01-107-000	KBCM Investments	\$1,002,365.70	\$1,253.08	(\$1,003,618.78)	\$0.00
01-110-000	Petty Cash	\$453.41	\$0.00	(\$53.88)	\$399.53
OPEN SPACE FUND		<u>\$345,395.90</u>	<u>\$679,828.70</u>	<u>-\$341,831.10</u>	<u>\$683,393.50</u>
04-106-000	Open Space - PLGIT Prime	\$342,512.43	\$371,215.14	(\$292,931.10)	\$420,796.47
04-106-010	Open Space - Maintenance Fund		\$243,791.10		\$243,791.10
04-106-100	Open Space - PLGIT Class	\$2,883.47	\$64,822.46	(\$48,900.00)	\$18,805.93
SEWER FUND		<u>\$3,443,286.39</u>	<u>\$327,472.04</u>	<u>-\$235,911.68</u>	<u>\$3,534,846.75</u>
08-100-015	Univest Enterprise Checking	\$516,900.98	\$310,297.44	(\$235,911.68)	\$591,286.74
08-100-115	Univest Prepaid UB Cash	\$3,009.65	\$2,682.80	\$0.00	\$5,692.45
08-106-000	PLGIT Prime	\$2,128,563.96	\$9,008.31	\$0.00	\$2,137,572.27
08-106-015	Univest WW MM	\$794,811.80	\$5,483.49	\$0.00	\$800,295.29
REFUSE FUND		<u>\$722,564.56</u>	<u>\$153,549.57</u>	<u>-\$131,454.92</u>	<u>\$744,659.21</u>
09-100-015	Univest CASH - REFUSE FUND	\$222,564.56	\$153,549.57	(\$131,454.92)	\$244,659.21
09-106-015	Univest Refuse MM	\$500,000.00	\$0.00	\$0.00	\$500,000.00
OPEN SPACE BOND PROCEEDS		<u>\$0.00</u>	<u>\$9,802,746.81</u>	<u>-\$360,000.00</u>	<u>\$9,442,746.81</u>
16-106-024	Open Space Bond-A PLGIT Prime	\$0.00	\$7,798,812.73	(\$360,000.00)	\$7,438,812.73
16-106-025	Open Space Bond-B PLGIT Prime	\$0.00	\$2,003,934.08	\$0.00	\$2,003,934.08
CAPITAL PROJECT FUNDS		<u>\$613,892.48</u>	<u>\$528,092.81</u>	<u>-\$853,756.87</u>	<u>\$288,228.42</u>
18-100-015	Univest Capital Projects Checking	\$25,037.21	\$427,998.11	(\$426,903.75)	\$26,131.57
18-100-105	Univest CP Oakbourne Park Master	\$277,610.21	\$0.00	(\$273,005.65)	\$4,604.56
18-100-115	Univest CP Special Projects	\$3,326.90	\$0.00	\$0.00	\$3,326.90
18-100-125	Univest Thorne Drive Basin	\$57,902.78	\$100,000.00	(\$124,764.06)	\$33,138.72
18-100-205	Univest Credit Card Rewards	\$151,213.79	\$0.00	\$0.00	\$151,213.79
18-100-605	Univest 926/Shady Grove Signal	\$51,835.00	\$0.00	(\$4,040.00)	\$47,795.00
18-100-805	Univest CP Sewer	\$46,966.59	\$94.70	(\$25,043.41)	\$22,017.88
ARPA FUND		<u>\$643,163.70</u>	<u>\$2,721.81</u>	<u>\$0.00</u>	<u>\$645,885.51</u>
19-100-000	ARPA FUND - PLGIT PRIME	\$642,539.34	\$2,719.30	\$0.00	\$645,258.64
19-100-100	ARPA FUND - PLGIT CLASS	\$624.36	\$2.51	\$0.00	\$626.87
DEBT SERVICE FUNDS		<u>\$1,705,883.44</u>	<u>\$165,563.09</u>	<u>\$0.00</u>	<u>\$1,871,446.53</u>
23-100-105	Univest 2022 DS (Oakbourne Park)	\$322,329.33	\$22,807.89	\$0.00	\$345,137.22
23-100-115	Open Space DS - A	\$124,672.01	\$41,789.65	\$0.00	\$166,461.66
23-100-125	Open Space DS - B		\$7,500.00		\$7,500.00
23-100-805	Univest 2021 DS (05/12)	\$374,845.37	\$24,500.00	\$0.00	\$399,345.37
23-100-815	Univest 2021 DS (SE06)	\$884,036.73	\$68,965.55	\$0.00	\$953,002.28
CAPITAL RESERVE FUNDS		<u>\$6,885,107.41</u>	<u>\$73,858.38</u>	<u>-\$100,000.00</u>	<u>\$6,858,965.79</u>
30-122-000	GF Univest MM Capital Rsv (U)	\$3,193,385.65	\$28,555.98	\$0.00	\$3,221,941.63
30-122-001	GF Univest MM Capital Rsv (D)	\$2,025,105.08	\$8,133.90	(\$100,000.00)	\$1,933,238.98
30-122-200	WW Univest MM Capital Rsv (D)	\$1,666,616.68	\$37,168.50	\$0.00	\$1,703,785.18
LIQUID FUEL FUNDS		<u>\$387,807.67</u>	<u>\$985.41</u>	<u>\$0.00</u>	<u>\$388,793.08</u>
35-100-105	Liquid Fuel Ckng - Univest	\$387,807.67	\$985.41	\$0.00	\$388,793.08
ESCROW FUND		<u>\$2,468,827.38</u>	<u>\$6,273.25</u>	<u>\$0.00</u>	<u>\$2,475,100.63</u>
40-100-015	Univest Landscapes Escrow	\$23,212.54	\$58.98	\$0.00	\$23,271.52
40-100-025	Univest Flintlock (Rustin Res)Escro	\$5,417.75	\$13.77	\$0.00	\$5,431.52
40-100-035	Univest 1594 W Chester Realty Esc	\$17,884.20	\$45.44	\$0.00	\$17,929.64
40-100-045	Univest WT School -Athletic Fld Esc	\$2,422,312.89	\$6,155.06	\$0.00	\$2,428,467.95

**WESTTOWN TOWNSHIP
TREASURER'S REPORT
OCTOBER 2024**

<u>ACCT#</u>	<u>DESCRIPTION</u>	<u>10/1/2024 BALANCE</u>	<u>OCTOBER RECEIPTS</u>	<u>OCTOBER EXPENDITURES</u>	<u>10/31/2024 BALANCE</u>
GRAND TOTAL - ALL FUNDS		\$25,562,692.82	\$13,505,541.20	(\$4,069,433.80)	\$34,998,800.22
	Key Bank Totals	\$1,002,365.70	\$1,253.08	(\$1,003,618.78)	\$0.00
	PLGIT Totals	\$5,468,076.31	\$10,644,007.96	(\$984,311.47)	\$15,127,772.80
	Univest Totals	\$19,091,797.40	\$2,860,280.16	(\$2,081,449.67)	\$19,870,627.89
	Petty Cash	\$453.41	\$0.00	(\$53.88)	\$399.53

WESTTOWN TOWNSHIP

PUBLIC NOTICE is hereby given that the entire proposed 2025 budget for Westtown Township is available for public inspection online at www.westtownpa.org, and at the Township Building, 1039 Wilmington Pike, West Chester, from 8:00 am to 4:30 pm, M-F. The Board of Supervisors will consider adoption of the proposed 2025 budget at their December 16, 2024 regularly scheduled meeting.

Cindi King
Finance Director



October 21, 2024

Goose Creek TMDL and Pollutant Reduction Plan for Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, Ridley Creek

August 11, 2017
Updated March 2019
Updated June 2019
Updated September 2023
Updated October 2024

Prepared For:

Westtown Township
1039 Wilmington Pike
West Chester, PA 19382



Prepared By:



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Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1.0 Purpose and Scope.....	1
2.0 Permit Requirements	1
Goose Creek TMDL	1
PRP for Discharges to Waters Impaired for Sediment	2
3.0 Background/Setting	3
3.1 Plum Run.....	5
3.2 Radley Run.....	5
3.3 Brandywine Creek	5
3.4 Chester Creek.....	6
3.5 Goose Creek (TMDL).....	6
3.6 East Branch Chester Creek.....	7
3.7 Hunters Run	7
3.8 Ridley Creek	8
4.0 Pollutant Reduction.....	8
4.1 Public Participation.....	9
4.2 Storm Sewersheds/Planning Area.....	9
4.3 Pollutants of Concern	10
4.4 Existing Pollutant Loading.....	11
Westtown Reserve Dry Extended Detention Basin	14
Simon and Jude Dry Extended Detention Basin	14
Kolbe Lane Dry Extended Detention Basin	15
West Glen Dry Extended Detention Basin.....	15
Kilduff Circle Dry Extended Detention Basin	15
Arborview Wet Pond.....	16
Arborview Infiltration Trench.....	16
Stetson Middle School Dry Extended Detention Basin.....	17
4.5 Proposed Best Management Practices (BMPs)	18

Tyson Park Bioswale (Existing).....	21
Thorne Drive Basin Retrofit.....	22
Sage Road Basin Retrofit.....	22
Radley Run Stream Restoration.....	23
Pleasant Grove Stream Restoration	23
Crebilly Farm Meadow Conversion	24
Detailed BMP Descriptions – Long-Term (> 2024-2026)	24
Stream Restoration (Goose Creek Watershed).....	24
4.6 Funding Mechanisms.....	24
4.7 Operations and Maintenance.....	25
5.0 Conclusion.....	26
6.0 Definitions.....	27

APPENDICES

DRAFT



EXECUTIVE SUMMARY

The Westtown Township Goose Creek TMDL and Pollutant Reduction Plan for Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, and Ridley Creek has been updated (October 2024) to reflect changes in planned projects to remediate issues that have arose with private landowners, funding, and implementation feasibility. Alternative projects have been evaluated and chosen to replace removed projects within their respective plan areas. The TMDL/Pollutant Reduction Plan is a requirement of the Township's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit to reduce pollution to impaired streams within Westtown Township, Chester County, PA.

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1.0 Purpose and Scope

Westtown Township is required to develop and implement a Total Maximum Daily Load (TMDL) Plan for phosphorous for Municipal Separate Storm Sewer System (MS4) discharges to Goose Creek and a Pollutant Reduction Plan (PRP) for sediment for MS4 discharges to Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, and Ridley Creek. These plans are required as part of the 2018 National Pollutant Discharge Elimination System (NPDES) MS4 Individual Permit application to the Pennsylvania Department of Environmental Protection (PA DEP) and will be continued in the 2024 NPDES MS4 Individual Permit renewal.

This document will serve as the single plan for both the TMDL and PRP. This plan was originally prepared and has been updated based on the best and most current guidance made available by PA DEP. Definitions of relevant regulatory terms are provided in Section 6.0.

2.0 Permit Requirements

To develop the Township’s TMDL and PRPs, it is important to understand the Township’s requirements. These are summarized in the following paragraphs.

Goose Creek TMDL

Goose Creek has a TMDL established by the United States Environmental Protection Agency (EPA) for total phosphorous (TP), documented in a report entitled “Nutrient Total Maximum Daily Load in Goose Creek Watershed, Pennsylvania”, dated June 30, 2008. The report cites Westtown Township’s existing TP load as 1.40 lb/day and allocates a TP load reduction of 0.64 lb/day, which is a required reduction of 53.9 percent. Table 1 below lists each MS4 in the Goose Creek Watershed and the corresponding TMDL requirements, taken from Table 3-3 of the Goose Creek TMDL report entitled “Land Based Non-Point TP Load in the Goose Creek Watershed by MS4 Area.” This TMDL was developed based on the 2001 National Land Cover Dataset but does not cite pollutant loading rates by land cover.

Table 1: Goose Creek TMDL MS4 Allocations and Required Reductions

MS4 Permit Holder	Area by MS4 (acres)	Existing TP Load (lb/day)	Allocated TP Load (lb/day)	Required Reduction
West Goshen Township	1,488	1.16	0.54	53.9%
West Chester Borough	310	0.24	0.11	53.9%
Westtown Township	1,791	1.40	0.64	53.9%
Thornbury Township (Chester County)	772	0.60	0.28	53.9%
Thornbury Township (Delaware County)	113	0.09	0.04	53.9%
TOTAL:	4,474	3.49	1.61	53.9%

The Township's Goose Creek TMDL Plan must illustrate how the following two (2) objectives will be achieved through the implementation of projects or Best Management Practices (BMPs):

1) Short-term TP reduction

Per the PA DEP TMDL Plan Instructions (3800-PM-BCW0200d Rev. 3/2017), "short-term reduction" is defined as a plan for reducing TP by five (5) percent over the five (5) year permit term (March 16, 2018, to March 15, 2023), if the wasteload allocations (WLAs) or overall required percent reduction of 53.9 percent cannot be achieved during this timeframe.

2) Long-term TP reduction

"Long-term reduction" is defined by the PA DEP TMDL Plan Instructions as a general plan describing how WLAs or overall required percent reductions will ultimately be achieved.

Goose Creek drains to Chester Creek, which is listed as impaired for sediment. By complying with the Goose Creek TMDL requirements, the Township will simultaneously work towards achieving the required sediment reduction for Chester Creek, which is further described below.

PRP for Discharges to Waters Impaired for Sediment

Westtown has MS4 discharges or "outfalls" to Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, and Ridley Creek, which are all listed by the 2014 Pennsylvania Integrated Water Quality Monitoring and Assessment Report (Integrated Report) as impaired for siltation (i.e. sediment) and highlighted in Table 2 below (although more recent Integrated Reports are available, for consistency, the 2014 version will continue to be used). Therefore, in addition to the Goose Creek TMDL requirement, Westtown Township is required by the PA DEP and Environmental Protection Agency (EPA) to reduce the sediment loading to Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, and Ridley Creek by ten (10) percent within five (5) years of permit approval by implementing projects or Best Management Practices (BMPs)/Stormwater Control Measures (SCMs).

Westtown has no outfalls that discharge directly to Brandywine Creek. Brandywine Creek is listed because the Township has outfalls that discharge to Plum Run and Radley Run, which ultimately flow into Brandywine Creek, and the main stem of the Brandywine Creek is listed as impaired for sediment within five (5) miles downstream of the Township's most downstream outfall.

Table 2: PA DEP MS4 Requirements Table (Municipal) Excerpt (last revised May 9, 2017)

MS4 Name	NPDES ID	Individual Permit Required?	Reason	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)	Other Cause(s) of Impairment
Westtown Twp, Chester County	PAI130528	Yes	TMDL Plan, SP, IP	Ridley Creek	Appendix E-Siltation (5)	Cause Unknown (5), Water/Flow Variability (4c)
				Radley Run	Appendix E-Siltation (4a)	Water Flow Variability (4c)
				Brandywine Creek	Appendix E-Siltation (4a)	
				Hunters Run	Appendix E-Siltation (5)	Cause Unknown (5), Water/Flow Variability (4c)
				Chester Creek	Appendix B-Pathogens (5), Appendix E-Siltation (5)	Cause Unknown (5), Flow Alterations, Other Habitat Alterations, Water Flow Variability (4c)
				East Branch Chester Creek	Appendix E-Siltation (5)	Cause Unknown (5), Other Habitat Alterations, Water/Flow Variability (4c)
				Goose Creek TMDL	TMDL Plan-Nutrients (4a)	Cause Unknown (4a)
				Plum Run	Appendix E-Siltation (4a)	Water/Flow Variability (4c)

3.0 Background/Setting

Westtown Township comprises approximately 8.8 square miles located near the eastern boundary of Chester County, in southeast Pennsylvania (Figure 1). The 2010 Urbanized Area (U.S. Census Bureau) covers the entire land area of the Township.

Figure 1: Westtown Township Location Map

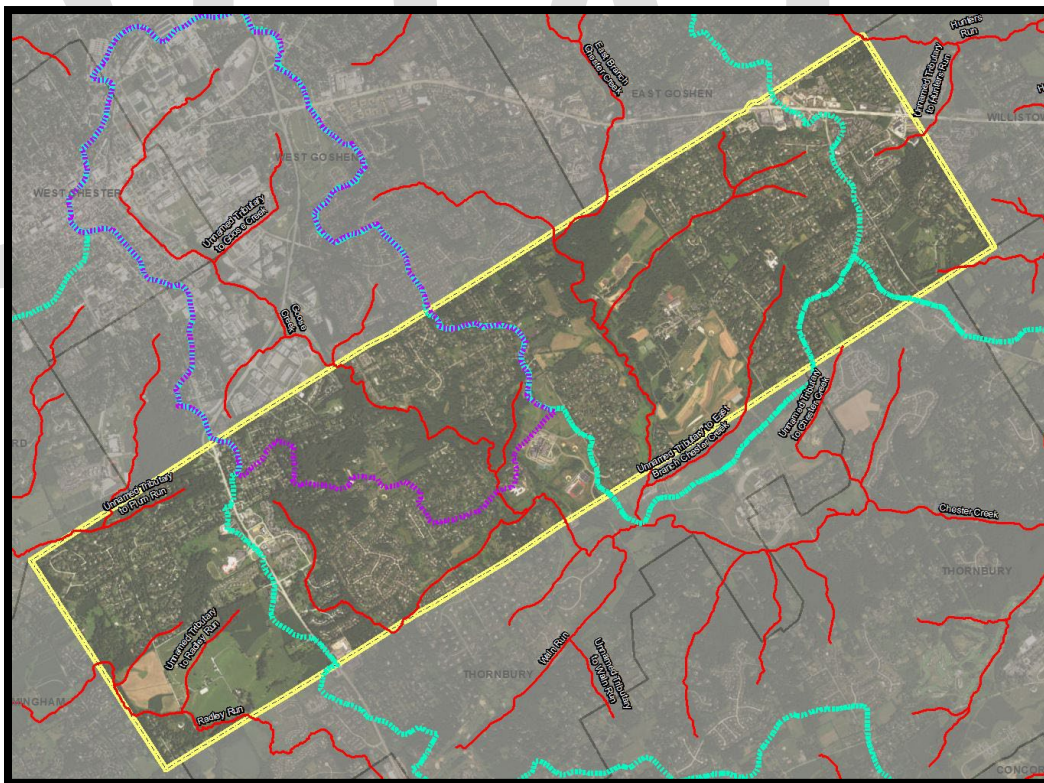


Figure 2 below displays a map of the streams that cross Westtown Township. Stream segments displayed in red indicate impaired streams. All streams mapped in Westtown and the surrounding communities are listed as impaired. The purple dashed line delineates the Goose Creek Watershed and the turquoise dashed lines delineate U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) Hydrologic Unit Code (HUC)-12 boundaries. From southwest to northeast, HUC-12s within Westtown include the following:

- Upper Brandywine Creek (contains Plum Run, Radley Run, and Brandywine Creek)
- Chester Creek (contains Goose Creek TMDL and Chester Creek)
- East Branch Chester Creek
- Ridley Creek (contains Hunters Run and Ridley Creek)

Westtown Township has 210 MS4 outfalls. These MS4 outfalls discharge to the sediment-impaired Plum Run, Radley Run, Brandywine Creek, Chester Creek (includes 45 outfalls that discharge to Goose Creek), East Branch Chester Creek, Hunters Run, and Ridley Creek. A total of forty-five (45) of these 210 MS4 outfalls discharge to Goose Creek.

Figure 2: Westtown Township Impaired Streams



3.1 Plum Run

An unnamed tributary (UNT) to Plum Run originates in the western portion of Westtown Township and flows in a southwesterly direction where it meets another tributary that enters the main stem of Plum Run west of the Township boundary in East Bradford Township. The UNT tributaries are listed as impaired for sediment and water flow variability. Table 3 below lists the impairment information for the UNTs from the 2014 Integrated Report.

There are fourteen (14) MS4 outfalls that discharge to the UNTs to Plum Run. Plum Run discharges to Brandywine Creek and is part of the Upper Brandywine Creek HUC12. Refer to Appendices for MS4 mapping.

Table 3: 2014 Integrated Report – Plum Run

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	1998
Siltation	Urban Runoff/Storm Sewers	4a	Aquatic Life	1998
Siltation	Agriculture	4a	Aquatic Life	1998

3.2 Radley Run

Radley Run flows in a northwesterly direction through the southwestern corner of Westtown Township. Two (2) UNTs originate in the west-central portion of the Township and flow in a southwesterly direction into Radley Run within the boundaries of the Township. Both Radley Run and its tributaries are listed as impaired for sediment and water/flow variability. Table 4 below lists the impairment information from the 2014 Integrated Report.

There are twenty-four (24) MS4 outfalls that discharge to Radley Run and its UNTs. Radley Run discharges to Brandywine Creek and is part of the Upper Brandywine Creek HUC12. Refer to Appendices for MS4 mapping.

Table 4: 2014 Integrated Report – Radley Run

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2010
Siltation	Agriculture, Urban Runoff/Storm Sewers	4a	Aquatic Life	1998

3.3 Brandywine Creek

Brandywine Creek lies outside of the township to the west. Radley Run and UNTs to Plum Run flow through Westtown Township into Brandywine Creek, which is listed as impaired for

sediment. Table 5 below lists the impairment information for Brandywine Creek from the 2014 Integrated Report.

No MS4 outfalls discharge directly to the Brandywine Creek; however, Radley Run and Plum Run both flow into the Brandywine Creek. Brandywine Creek is listed as impaired for sediment. Refer to Appendices for MS4 mapping.

Table 5: 2014 Integrated Report – Brandywine Creek

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Siltation (sediment)	Agriculture, Urban Runoff/Storm Sewers	4a	Aquatic Life	2010

3.4 Chester Creek

Chester Creek originates in the western portion of the Township where it flows in a south-southeasterly direction to the southern boundary of the Township, where it turns and begins flowing in a northeasterly direction. Goose Creek flows into Chester Creek before it turns south-southeast again and continues to flow out of the Township in a south-southeasterly direction. There are outfalls that drain to Chester Creek in the south-eastern half of the Township. Chester Creek is listed as impaired for sediment, other habitat alterations, water/flow variability and cause unknown. Table 6 below lists the impairment information from the 2014 Integrated Report.

There are ninety-four (94) MS4 outfalls that discharge to Chester Creek listed as impaired for sediment. Refer to Appendices for MS4 mapping.

Table 6: 2014 Integrated Report – Chester Creek

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Cause Unknown	Urban Runoff/Storm Sewers	4a	Aquatic Life	2014
Siltation	Urban Runoff/Storm Sewers	5	Aquatic Life	2014
Other Habitat Alterations	Habitat Modifications	4c	Aquatic Life	2014
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2014

3.5 Goose Creek (TMDL)

Goose Creek flows through the center of the Township in a southeasterly direction until it meets Chester Creek at the southern boundary of the Township. Goose Creek roughly parallels the railroad that transects the Township. Table 7 below lists the impairment information from the 2014 Integrated Report.

There are forty-five (45) MS4 outfalls that discharge to Goose Creek. Goose Creek has a TMDL for phosphorous as referenced in Section 2.0. It is also listed as impaired for sediment. Refer to Appendices for MS4 mapping.

Table 7: 2014 Integrated Report – East Branch Chester Creek

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2014
Other Habitat Alterations	Habitat Modification	4c	Aquatic Life	2014
Cause Unknown	Urban Runoff/Storm Sewers	5	Aquatic Life	2014
Siltation	Urban Runoff/Storm Sewers	5	Aquatic Life	2014

3.6 East Branch Chester Creek

The East Branch Chester Creek flows through the center of the Township (east of Goose Creek), roughly paralleling the western side of Westtown Road. There are multiple unnamed tributaries to East Branch Chester Creek within the Township, all of which are listed as impaired for sediment, water/flow variability, other habitat alterations, and cause unknown. Table 8 below lists the impairment information from the 2014 Integrated Report.

There are one-hundred fifty-nine (159) MS4 outfalls that discharge to East Branch Chester Creek and its UNTs that are listed as impaired for sediment. Refer to Appendices for MS4 mapping.

Table 8: 2014 Integrated Report – East Branch Chester Creek

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Cause Unknown	Urban Runoff/Storm Sewers	5	Aquatic Life	2014
Other Habitat Alterations	Habitat Modification	4c	Aquatic Life	2014
Siltation	Urban Runoff/Storm Sewers	5	Aquatic Life	2014
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2014

3.7 Hunters Run

Hunters Run flows across the northeastern corner of the Township in a southeasterly direction. An unnamed tributary to Hunters Run originates in the eastern portion of the Township and flows in an east-northeasterly direction, eventually into Hunters Run outside of the Township boundary to the east. Hunters Run and its tributary are listed as impaired for

sediment. This stream was listed as impaired for other water/flow variability, siltation and cause unknown in 2012. Table 9 below lists the impairment information from the 2014 Integrated Report.

There are ten (10) MS4 outfalls that discharge to Hunters Run and its UNT. Refer to Appendices for MS4 mapping.

Table 9: 2014 Integrated Report – Hunters Run

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Cause Unknown	Urban Runoff/Storm Sewers	5	Aquatic Life	2012
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2012
Siltation	Urban Runoff/Storm Sewers	5	Aquatic Life	2012

3.8 *Ridley Creek*

An unnamed tributary to Ridley Creek originates in the southeastern corner of the Township and flows in an easterly direction out of the Township eventually into Ridley Creek. This tributary is listed as impaired for sediment, water/flow variability, and cause unknown. Table 10 below lists the impairment information for the UNT from the 2014 Integrated Report.

There are three (3) MS4 outfalls that discharge to the UNT to Ridley Creek listed as impaired for sediment. Refer to Appendices for MS4 mapping.

Table 10: 2014 Integrated Report – Ridley Creek

Impairment Cause	Impairment Source	Category	Assessed Use	Date Listed
Cause Unknown	Urban Runoff/Storm Sewers	5	Aquatic Life	2012
Water/Flow Variability	Urban Runoff/Storm Sewers	4c	Aquatic Life	2012
Siltation	Urban Runoff/Storm Sewers	5	Aquatic Life	2012

4.0 **Pollutant Reduction**

Per the MS4 permit and PRP Instructions document (3800-PM-BCW0100k Rev. 3/2017), the following sections are addressed below: Public Participation, Storm Sewersheds, Pollutants of Concern, Existing Sediment Loading, Proposed Best Management Practices (BMPs), Funding Mechanisms, and Operations and Maintenance.

4.1 *Public Participation*

The TMDL-PRP was updated to address comments received from the PA DEP in a letter dated January 30, 2018. The Township completed the required public comment period. A copy of the affidavit of publication in the Daily Local News is included in Appendix A. No comments were received. The PRP was presented at a regular Board of Supervisors meeting on March 18, 2019, and comments were accepted from any interested members of the public.

The TMDL-PRP was updated again in 2023 to reflect a change in the proposed stormwater Best Management Practice (BMP) for the Thorne Drive Basin Retrofit project. The Township completed the required public review period, and a copy of the affidavit of publication in the Daily Local News on August 4, 2023, is included in Appendix A. The PRP was announced at a regular Board of Supervisors meeting on August 7, 2023, and public comments were accepted at a subsequent meeting on August 21, 2023. One comment was received and summarized in Appendix A. Once the 30-day public review period ended, the PRP update was officially accepted on September 5, 2023.

The TMDL-PRP is being updated again in October 2024 to reflect a change in proposed projects to be undertaken to meet the remaining load reductions as required as part of the 5-year MS4 Permit PRP review as required by PADEP. The PRP will be presented to the Board of Supervisors and a public comment period will be conducted. Any comments received during this public comment period will be addressed by the Township and the updated PRP will detail the remaining projects to be completed.

4.2 *Storm Sewersheds/Planning Area*

Storm sewersheds, the areas which drain to each of the 210 outfalls, were manually delineated in ArcMap 10.6 using two (2) foot topographic contours from the 2006-2008 PAMAP Program data published by the Pennsylvania Department of Conservation and Natural Resources (DCNR), while referencing Google Street View and multiple sources of aerial imagery.

“Parsing” is defined by the PRP Instructions Attachment A, entitled “Parsing Guidelines for MS4s in Pollutant Reduction Plans”, as a “process in which land area is removed from a Planning Area in order to calculate the actual or target pollutant loads that are applicable to an MS4.” The examples cited include:

- 1) The land area associated with non-municipal stormwater NPDES permit coverage that exists within the urbanized area of a municipality;
- 2) Land area associated with PennDOT roadways and the Pennsylvania Turnpike (roads and right of ways);

- 3) Lands associated with the production area of a Concentrated Animal Feeding Operation that is covered by an NPDES permit;
- 4) Land areas in which stormwater runoff does not enter the MS4. If an accurate storm sewershed map is developed, these lands may be parsed or excluded as part of that process.

Land areas that have been parsed from the Planning Area during the development of this PRP fall under category #2 and #4 as described above. These parsed areas have been further categorized and identified on the Storm Sewershed/Planning Area Map in Appendix D.

Storm sewersheds that extend outside of the municipal boundary are not included in the overall planning area. The drainage areas to existing, and/or proposed, BMPs located outside of the storm sewersheds were added to the overall planning area.

Per the “Pollutant Aggregation Suggestions for MS4 Requirements Table Instructions” (dated April 4, 2017) and the “Pollutant Aggregation Suggestions for MS4 Requirements Table (Municipal)” (revised May 9, 2017), Westtown Township may achieve the ten (10) percent sediment pollutant reduction in the following aggregated Planning Areas, as opposed to a 10 percent reduction in the Planning Areas for each receiving impaired surface water.

Table 11: Pollutant Aggregation Suggestions for MS4 Requirements Table (Municipal) Excerpt

MS4 Name	NPDES ID	HUC-12	Impaired Downstream Waters or Applicable TMDL Name	Requirement(s)
Westtown Twp, Chester County	PAI130528	Middle Brandywine Creek, Upper Brandywine Creek	Brandywine Creek, Plum Run, Radley Run	Appendix E-Siltation
		Chester Creek	Chester Creek, Goose Creek TMDL	Appendix B-Pathogens, TMDL Plan-Nutrients
		Chester Creek, East Branch Chester Creek, Ridley Creek	Chester Creek, East Branch Chester Creek, Hunters Run, Ridley Creek	Appendix E-Siltation

To simplify planning and reporting efforts, from this point forward the report will reference the Middle Brandywine Creek/ Upper Brandywine Creek PRP Planning Area, the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area, and the Goose Creek TMDL Planning Area (which is also contained within the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area, since Goose Creek drains to Chester Creek).

4.3 Pollutants of Concern

Westtown Township is required to reduce total phosphorous loading for MS4 outfalls that discharge to Goose Creek per the TMDL. Additionally, for the PRPs, Westtown Township is required to reduce sediment loading for MS4 outfalls that discharge to waters impaired by sediment, which includes all receiving streams within the Township.

To meet the PRP requirements, a minimum of ten (10) percent sediment reduction within five (5) years of permit approval has been demonstrated in this plan. Though not required, existing loading and BMP reduction calculations were also provided for phosphorous and nitrogen in Appendix C.

To meet the short- and long-term Goose Creek TMDL reduction objectives, the entire 53.9 percent total phosphorous reduction required has been demonstrated as being implemented within five (5) years of permit approval in this plan.

4.4 Existing Pollutant Loading

To determine existing sediment loading to Plum Run, Radley Run, Brandywine Creek, Chester Creek, East Branch Chester Creek, Hunters Run, and Ridley Creek, the general methodology described in the DEP guidance document entitled “Pollution Reduction Plan: A Methodology” was used. To provide a consistent calculation methodology across the Goose Creek TMDL and the PRP requirements, the total phosphorous allocation for Goose Creek was recalculated for the Goose Creek Planning Area per the same methodology. The short and long-term reduction objectives of the TMDL were then applied to the recalculated load. Utilizing ArcGIS 10.6, 2011 National Land Cover Dataset (NLCD) data, the acreage of each land cover classification type within the Planning Area was calculated.

The aggregate National Land Cover Data (NLCD) statistics within the Planning Areas for each aggregation group is compiled in Table 12 below with a breakdown of the area by land cover classification type. Refer to Appendix F for the Land Cover Map.

Table 12: NLCD 2011 Land Cover by PRP Planning Area

PRP Planning Area/Aggregated HUC-12s	Aggregated Receiving Sediment-Impaired Surface Waters	NLCD 2011 Land Cover Classification within Planning Area	Area (acres)	Percent Impervious	Impervious Area (acres)	Pervious Area (acres)
Middle Brandywine Creek/ Upper Brandywine Creek	Brandywine Creek, Plum Run, Radley Run	Developed, Open Space	306.80	19	58.29	248.51
		Developed, Low Intensity	14.12	49	6.92	7.20
		Developed, Medium Intensity	8.52	79	6.73	1.79
		Developed, High Intensity	3.16	100	3.16	0
		Deciduous Forest	70.04	0	0	70.04
		Evergreen Forest	2.03	0	0	2.03
		Mixed Forest	13.27	0	0	13.27
		Shrub/Scrub	33.76	0	0	33.76
		Hay/Pasture	45.87	0	0	45.87
		Cultivated Crop	10.03	0	0	10.03
		Woody Wetlands	1.36	0	0	1.36
		Grassland/Herbaceous	1.33	0	0	1.33
TOTAL:			510.29		75.10	435.19
Chester Creek/East Branch Chester Creek/Ridley Creek	Chester Creek, East Branch Chester Creek, Hunters Run,	Developed, Open Space	1494.95	19	284.04	1210.91
		Developed, Low Intensity	206.13	49	101.00	105.13
		Developed, Medium Intensity	77.20	79	60.99	16.21
		Developed, High Intensity	10.44	100	10.44	0
		Deciduous Forest	421.95	0	0	421.95

Ridley Creek, Goose Creek	Evergreen Forest	16.01	0	0	16.01
	Mixed Forest	38.24	0	0	38.24
	Shrub/Scrub	109.74	0	0	109.74
	Hay/Pasture	67.97	0	0	67.97
	Cultivated Crop	11.97	0	0	11.97
	Woody Wetlands	37.12	0	0	37.12
	Emergent Herbaceous Wetland	0.72	0	0	0.72
	Grassland/Herbaceous	1.56	0	0	1.56
TOTAL:		2494.00		456.47	2037.53

The Goose Creek TMDL Planning Area is located within and included in the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area. However, because Goose Creek has a separate TMDL requirement, this information is also provided separately in Table 13 below.

Table 13: NLCD 2011 Land Cover within Goose Creek TMDL Planning Area

TMDL Planning Area	NLCD 2011 Land Cover Classification within Planning Area	Area (acres)	Percent Impervious	Impervious Area (acres)	Pervious Area (acres)
Goose Creek	Developed, Open Space	332.55	19	63.18	269.37
	Developed, Low Intensity	28.73	49	14.08	14.65
	Developed, Medium Intensity	5.66	79	4.47	1.19
	Developed, High Intensity	0.67	100	0.67	0
	Deciduous Forest	154.02	0	0	154.02
	Evergreen Forest	2.65	0	0	2.65
	Mixed Forest	8.35	0	0	8.35
	Shrub/Scrub	35.28	0	0	35.28
	Hay/Pasture	17.35	0	0	17.35
	Woody Wetlands	6.64	0	0	6.64
	Grassland/Herbaceous	1.56	0	0	1.56
	Cultivated Crops	3.78	0	0	3.78
	TOTAL:		597.24		82.40

“Developed” land cover classifications were then converted to percent impervious coverage based on the NLCD 2011 definitions. The impervious percentages used are as follows:

- Developed, Open Space - 19% impervious
- Developed, Low Intensity - 49% impervious
- Developed, Medium Intensity - 79% impervious
- Developed, High Intensity - 100% impervious

All other land cover classifications were assumed to be 100 percent pervious. The “Developed Land Loading Rates for PA Counties” (Attachment B of the PRP Instructions) for Chester County were then applied for impervious developed and pervious developed land categories. This table is attached as Appendix B.

The existing PRP sediment loading is in Table 14 below. Please refer to Appendix C for supporting calculations. Calculations for phosphorous and nitrogen loading have also been

provided, though not required. The recalculated total phosphorous loading for Goose Creek is in Table 15 below.

Using the pollutant removal efficiency rates specified in the PA DEP NPDES Stormwater Discharges from Small MS4s BMP Effectiveness Values Table (Revised 6/2018), BMPs were credited to reduce the existing sediment loading. The existing sediment loading quantified from the Middle Brandywine Creek/Upper Brandywine Creek PRP Planning Area is 193,571.35 lbs/yr. The existing sediment loading quantified from the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area is 1,064,074.48 lbs/yr. A more detailed breakdown is in the table below. Please refer to Appendix C for supporting calculations.

Table 14: Existing Sediment Loading for PRP Planning Areas

PRP Planning Area	Category	Area (ac)	TSS [Sediment] (lbs/yr)
Middle Brandywine Creek/ Upper Brandywine Creek	Impervious, Developed	75.10	113,008.98
	Pervious, Developed	435.19	80,562.37
SUBTOTAL:		510.29	193,571.35
Existing BMP Reduction:			5,803.23
TOTAL:			187,768.12
Required 10% Sediment Reduction			18,776.81
Chester Creek/East Branch Chester Creek/Ridley Creek/Goose Creek	Impervious, Developed	456.47	686,886.93
	Pervious, Developed	2,037.53	377,187.55
SUBTOTAL:		2,494.00	1,064,074.48
Existing BMP Reduction:			30,944.78
TOTAL:			1,033,129.70
Required 10% Sediment Reduction			103,312.97

The existing (recalculated) total phosphorous loading for the Goose Creek TMDL is 305.65 lbs/yr and is provided separately in Table 15 below. Please refer to Appendix C for supporting calculations.

Table 15: Existing Phosphorous Loading for Goose Creek TMDL Planning Area

TMDL Planning Area	Category	Area (ac)	TP [Phosphorous] (lbs/yr)
Goose Creek	Impervious, Developed	82.40	120.30
	Pervious, Developed	514.84	185.34
TOTAL:		597.24	305.65
Required Short-Term 5% Phosphorous Reduction			15.28
Required Long-Term 53.9% Phosphorous Reduction			164.75

Thirteen (13) existing BMPs were credited to reduce the existing loading to 187,768.12 lbs/yr for the Middle Brandywine Creek/Upper Brandywine Creek and 1,033,129.70 lbs/yr for the Chester Creek/East Branch Chester Creek/Ridley Creek, which resulted in a required 10 percent reduction of 18,776.81 lbs/yr for the Middle Brandywine Creek/Upper Brandywine Creek and 103,312.97 lbs/yr for the Chester Creek/East Branch Chester Creek/Ridley Creek. Each existing BMP is described below and summarized in Table 16. Please refer to Appendix

C for supporting calculations and the Storm Sewershed Map in Appendix E for BMP locations. Individual maps of the existing BMPs and their drainage areas are located in Appendix D.

Westtown Reserve Dry Extended Detention Basin

This dry extended detention basin is located at the corner of Pleasant Grove Road and Skiles Boulevard. The basin is associated with Outfall #76. The basin is functioning and is operated and maintained by Westtown Apartments Property Owner, LLC. The total drainage area is 17.27 acres; it provides a total sediment pollutant load reduction of 10,810.08 lbs./yr.

Figure 3: Overall View of Westtown Reserve Dry Extended Detention Basin



Simon and Jude Dry Extended Detention Basin

This dry extended detention basin is located near the corner of Cavanaugh Court and Chester Road. The basin is associated with Outfall #45. The basin is functioning and is operated and maintained by Archdiocese of Philadelphia. The total drainage area is 6.00 acres; it provides a total sediment pollutant load reduction of 2,440.06 lbs./yr.

Figure 4: Overall View of Simon and Jude Dry Extended Detention Basin



Kolbe Lane Dry Extended Detention Basin

This dry extended detention basin is located off of Kolbe Lane behind house #1128. The basin is associated with Outfall #161. The basin is functioning and is operated and maintained by John Zabilowicz and Maryann Rock-Zabilowicz. The total drainage area is 12.35 acres; it provides a total sediment pollutant load reduction of 3,231.51 lbs./yr.

Figure 5: Overall View of Kolbe Lane Dry Extended Detention Basin



West Glen Dry Extended Detention Basin

This dry extended detention basin is located near the corner of Piedmont Road and Dalmally Drive. The basin is associated with Outfall #77. The basin is functioning and is operated and maintained by West Glen Community Association. The total drainage area is 14.93 acres; it provides a total sediment pollutant load reduction of 5,134.29 lbs./yr.

Figure 6: Overall View of West Glen Dry Extended Detention Basin



Kilduff Circle Dry Extended Detention Basin

This dry extended detention basin is located behind 940 Kilduff Circle. The basin is associated with Outfall #24. The basin is functioning and is operated and maintained by Russell Hatton

and Shirley Leclerc. The total drainage area is 35.39 acres; it provides a total sediment pollutant load reduction of 7,548.24 lbs./yr.

Figure 7: Overall View of Kilduff Circle Dry Extended Detention Basin



Arborview Wet Pond

This wet pond is located near the corner of Wilmington Pike and Pleasant Grove Road. The basin is associated with Outfall #58. The basin is functioning and is operated and maintained by Arborview HOA. The total drainage area is 13.42 acres; it provides a total sediment pollutant load reduction of 2,820.80 lbs./yr.

Figure 8: Overall View of Arborview Wet Pond



Arborview Infiltration Trench

This filtering practice is located between Hidden Pond Way and West Pleasant Grove Road. The basin is associated with Outfall #58. The basin is functioning and is operated and maintained by Arborview HOA. The total drainage area is 5.32 acres; it provides a total sediment pollutant load reduction of 938.10lbs./yr.

Figure 9: Overall View of Arborview Infiltration Trench



Stetson Middle School Dry Extended Detention Basin

This dry extended detention basin is located on Stetson Middle School grounds; 1060 Wilmington Pike. The basin is associated with Outfall #20. The basin is functioning and is operated and maintained by West Chester Area School District. The total drainage area is 4.88 acres; it provides a total sediment pollutant load reduction of 1,009.19 lbs./yr.

Figure 10: Overall View of Stetson Middle School Dry Extended Detention Basin



Table 16: Existing BMP Sediment Reduction

BMP Name	Drainage Area (ac)	TSS [Sediment] Reduction
Chester Creek/East Branch Chester Creek/Ridley Creek		
Westtown Reserve Basin	17.27	10,810.08
Simon and Jude Basin	6.00	2,440.06
Kolbe Lane Basin	12.35	3,231.51
West Glen Basin	14.93	5,134.29
Kilduff Circle Basin	35.39	7,548.24
Thorne Drive Basin	19.86	887.22
Sage Road Basin	20.59	893.38
SUBTOTAL:	126.39	30,944.78
Middle Brandywine Creek/Upper Brandywine Creek		
Arborview Wet Pond	13.42	2,820.80
Arborview Infiltration Trench	5.32	938.10
Stetson Middle School Basin	4.88	1,009.19
Dunvegan Road Basin	9.90	408.68
General Greene Basin B	12.38	534.90
General Greene Basin A	9.76	437.17
SUBTOTAL:	55.66	6,148.84
TOTAL:	182.05	37,093.62

4.5 Proposed Best Management Practices (BMPs)

Proposed BMP locations were identified in coordination with the Township by analyzing the most fiscally responsible solutions that will provide a water quality improvement and real-world benefit, while meeting the mandated pollutant reduction requirements. This analysis was performed in ArcMap 10.6 using aerial imagery, two (2)-foot topographic contours, and hydrologic data. Site visits were conducted to verify project viability and to collect information and measurements of existing BMPs.

Where possible, BMPs that treat a larger drainage area were selected to reduce the number of BMPs to be implemented. Existing BMPs on Township-owned property within the Planning Areas were assessed for retrofit.

Pollutant reductions resulting from the proposed BMPs were quantified using the same methodology described above for existing sediment loading within the drainage area for each BMP, then applying reduction rates. Reductions from new BMPs (infiltration trenches and bioretention swale) were calculated using the efficiency rates specified in the NPDES Stormwater Discharges from Small MS4s BMP Effectiveness Values table (May 2016). Reductions from retrofits of existing BMPs were calculated using the methodology in the “Recommendations of the Expert Panel to Define Removal Rates for Urban Stormwater Retrofit Projects” (revised January 20, 2015). Please refer to Appendix C for supporting calculations.

TMDL and PRP Objectives

Westtown Township proposes to meet the entire Goose Creek TMDL total phosphorous reduction requirement of 53.9 percent through an existing BMP, and two (2) basin retrofit projects within five (5) years of permit approval and approximately 2,150 linear feet of stream restoration (>5 years) for the Goose Creek TMDL Planning Area. The location(s) of the 2,150 linear feet of stream restoration are planned to be installed within a township owned parcel adjacent to the pleasant grove neighborhood.

Because Goose Creek drains to Chester Creek, these BMPs will also satisfy a portion of the ten (10) percent sediment load reduction requirements within the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area. A stream restoration project along a reach of East Branch Chester Creek, referred to as Pleasant Grove Stream Restoration, will satisfy the remainder of these requirements.

The Township will meet its ten (10) percent sediment load reduction requirements within the Middle Brandywine Creek/Upper Brandywine Creek PRP Planning Area through the implementation of a stream restoration project along Radley Run along with three (3) basin retrofit projects.

Maps of the proposed BMPs and the land cover within their drainage areas are in Appendix D. The BMP locations are also illustrated on the Storm Sewershed/Planning Area Map in Appendix E and the Land Cover Map in Appendix F.

Pollutant Load Reductions through Proposed BMP Implementation

Phosphorous load reductions achieved through the implementation of the proposed BMPs in the Goose Creek TMDL Planning area are documented in Table 17.

Table 17: Goose Creek TMDL Planning Area: Total Phosphorous Load Reductions from Proposed BMPs

Timeline	BMP Name	Drainage Area (ac)	TP Reduction		
			lbs/yr	% Reduction	% of Required Reduction to meet 53.9%
2019-2024	Tyson Park Bioswale (installed 2015)	41.4	17.01	5.57	10.33
	Thorne Drive Basin Retrofit	19.86	1.15	0.38	0.70
	Sage Road Basin Retrofit	20.59	1.17	0.38	0.71
SUB-TOTAL:		97.01	19.33	7.08	13.14
>2024	Stream Restorations (Pleasant Grove & Radley Run)	3,250 LF	142.80	47.83	88.74
SUB-TOTAL:			142.80	47.83	88.74
TOTAL:		97.01	162.13		99.8

Sediment load reductions achieved through the implementation of the proposed BMPs in each PRP Planning Area are in Table 18 below. Because the Goose Creek TMDL Planning Area is contained within the Chester Creek/ East Branch Chester Creek/ Ridley Creek PRP Planning Area, these BMPs were also counted towards the PRP sediment reduction requirements.

Table 18: PRP Planning Areas: Sediment Load Reductions from Proposed BMPs

PRP Planning Area	BMP Name	Drainage Area (ac)	TSS Reduction		
			lbs/yr	% Reduction	% of Required Reduction
Chester Creek/ East Branch Chester Creek/ Ridley Creek (contains Goose Creek TMDL Planning Area)	Tyson Park	41.4	13,595.28	1.32	13.16
	Thorne Drive Basin Retrofit	19.86	4,436.12	0.43	4.29
	Sage Road Basin Retrofit	20.59	4,466.88	0.43	4.32
	Pleasant Grove Stream Restoration	21.36	71,808.00	7.49	74.93
TOTAL:		118.37	94,306.28	5.8	91.28
Middle Brandywine Creek/Upper Brandywine Creek	Crebilly Meadow Conversion	135	22,864.32	13	121.61
	Radley Run Stream Restoration	1.92	11,984.36	6.39	63.95
TOTAL:		33.96	34,848.68	18	185.56

Detailed BMP Descriptions – Short-Term (2019 – 2024)

Each of the BMPs proposed to meet short-term objectives are described in more detail below.

Tyson Park Bioswale (Existing)

A bioswale was designed and constructed in Tyson Park, a Township-owned park property, in 2015, in anticipation of the TMDL Plan requirements. The drainage area to the bioswale is 41.4 acres. This existing BMP has been properly maintained by the Township as illustrated in the photograph below. The Township has also installed educational signage as a component of the project.

It is being credited as reducing the existing sediment loading for the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area and towards achieving the long-term total phosphorous reduction of 53.9 percent in the Goose Creek TMDL Planning Area, reducing total phosphorous loading by 17.01 lbs/year (5.57 percent).

Figure 11: Tyson Park Bioswale and Signage



Thorne Drive Basin Retrofit

This existing basin is located in the southwest quadrant of the intersection of Thorne Drive and Little Shiloh Road in the west-central portion of the Township on a Township-owned property. The basin has a drainage area of 19.86 acres. The existing basin is located outside of the Planning Area as the outfall is located to the north in West Goshen Township. Therefore, the drainage area has been added to the Goose Creek TMDL Planning Area and the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area and accounted for in the existing loading.

The basin is overgrown and has reduced volume capacity. In addition, a defined channel has eroded through it causing the basin to short-circuit. The existing outlet of the basin is an open pipe that is the same elevation as the basin bottom. The basin effectively holds no water during smaller storm events, providing no water quality benefit.

The scope of the proposed retrofit includes removing the trees, vegetation, and sediment accumulation, regrading/removing the defined channel, and installing a new outlet structure to convert the basin to a wet bond Best Management Practice. This project will provide an estimated removal of 4,436.12 lbs/yr of sediment (0.43 percent) within the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area and an estimated removal of 1.15 lbs/yr of total phosphorous (0.38 percent) within the Goose Creek TMDL Planning Area.

Sage Road Basin Retrofit

This existing basin is located at the southern end of a cul-de-sac off Sage Road on a Township-owned property. It has been proposed to retrofit this existing basin. The basin has a drainage area of 20.59 acres. Goose Creek is the receiving stream for this area, which lies within the Chester Creek Hydrologic Unit Code (HUC) 12.

The basin is overgrown and has accumulated mounds of sediment in some areas. The scope of the proposed retrofit includes removing trees and shrubs, accumulated sediment, as well as modifying the outlet structure orifice to increase volume treated through infiltration and extended detention. Assumptions for the preliminary calculations included reducing the orifice from 12 inches to 6 inches through the installation of a steel plate and coring 6-inch orifice 2 feet above the basin bottom. This project will provide an estimated removal of 4,466.88 lbs/yr of sediment (0.43 percent) within the Chester Creek/East Branch Chester Creek/Ridley Creek PRP Planning Area and an estimated removal of 1.17 lbs/yr of total phosphorus (0.38 percent) within the Goose Creek TMDL Planning Area.

Radley Run Stream Restoration

The section of Radley Run proposed for restoration is located on the west side of S. New Street between W. Pleasant Grove Road and W. Street Road on private property. This reach has been identified for restoration based on the presence of bank erosion and the lack of tree removal required. Radley Run is the receiving stream for this area, which lies within the Upper Brandywine Creek Hydrologic Unit Code (HUC) 12.

For the purposes of this plan, it has been assumed that approximately 260 linear feet of restoration along with wetland pockets being formed as part of the restoration. The stream restoration will be completed at a sediment reduction rate of 44.88/lbs/ft/yr. Between the stream restoration and the wetland pockets, this project will provide an estimated removal of 11,984.36 lbs/yr of sediment (6.38 percent) within the Middle Brandywine Creek/Upper Brandywine Creek PRP Planning Area.

Pleasant Grove Stream Restoration

An approximately 1,600 linear foot section of East Branch Chester Creek is being proposed for floodplain restoration within the Pleasant Grove Development; which includes wetland pockets. This section of East Branch Chester Creek flows through a large, open space property owned by the Township in an easterly direction. Chester Creek is the receiving stream for this area, which lies within the Chester Creek Hydrologic Unit Code (HUC) 12.

A feasibility study was completed in December 2018 by LandStudies, Inc. The recommended length and location of restoration includes two sections of East Branch Chester Creek totaling approximately 1,450 linear feet from Tower Course Road to Blenheim Road and from Blenheim Road to South Concord Road. An additional 150 linear feet of restoration on the tributary from the existing pond is recommended for an overall total restoration length of 1,600 linear feet. The feasibility study indicates that this reach demonstrates an excellent opportunity for floodplain restoration because of the following factors:

- 1) High degree of channel instability and overall need for restoration.
- 2) Adequate amount of available space (width) for use as floodplain exists on-site.

- 3) High potential for significant measurable ecological uplift.
- 4) Limited existing tree cover (mostly all invasive/undesirable); and well-defined tie-in locations (bridges).

The 1,600 linear feet of stream restoration implemented with a sediment reduction rate of 44.88/lbs/ft/yr and the wetland pockets associated with the restoration will yield an estimated removal of 77,408.39 lbs/yr of sediment (7.49 percent) within the Chester Creek PRP Planning Area.

Crebilly Farm Meadow Conversion

Located in the southwest corner of Westtown Township, Crebilly Farm is a historic 300-acre property. The farm has been operated as a working farm tending fields of grain crops. Over the last few years an interest from a real estate developer to develop the land was made public and resulted in public outcry. The property is being purchased by the Township via open space funds to prevent the privatized development of the parcel; in turn, 206 acres will be utilized as a passive use park.

For the purposes of this plan 135 acres of active grain agriculture will be converted to natural meadow. Meadow TSS loading reduces the converted area from 185.12 lbs/ac/yr to 17 lbs/ac/yr; thus, this conversion is expected to contribute an annual reduction of 22,864.32 lbs toward meeting the Township's goal.

Detailed BMP Descriptions - Long-Term (> 2024-2026)

The BMP proposed to meet long-term objectives is described in more detail below.

Stream Restoration (Goose Creek Watershed)

Approximately 2,100 linear feet of stream restoration is proposed within the Goose Creek watershed to meet long-term TMDL objectives (>5 years). Location(s) of the stream restoration will be determined at a later date, as the next permit term approaches. These project(s) will provide an estimated removal of 96,492 lbs/yr of sediment and 146.20 lbs/yr of total phosphorus (47.83 percent) within the Goose Creek TMDL Planning Area for the long-term reduction.

4.6 Funding Mechanisms

The funding mechanisms and estimated costs for the implementation of each proposed BMP to be implemented within five (5) years of permit approval are included in Table 19. Note that the 1,700 linear feet of proposed stream restoration to meet the long-term (>5 years) objectives of the Goose Creek TMDL is not included. The costs provided are conceptual, to be utilized for preliminary planning purposes only, and subject to change.

Table 19: Proposed BMP Funding Mechanisms

Proposed BMP	Property Owner	Funding Mechanism	Total Estimated Cost (Low)	Total Estimated Cost (High)	Total Estimated Cost (Median)
Tyson Park Bioswale	Westtown Township	Existing BMP	n/a	n/a	n/a
Thorne Drive Basin Retrofit	Westtown Township	Westtown Township	\$146,831	\$220,247	\$183,539
Sage Road Basin Retrofit	Westtown Township	Westtown Township	\$47,625	\$71,438	\$59,532
Crebilly Meadow Conversion	Westtown Township	Open Space Funding	NA	NA	NA
Pleasant Grove Stream Restoration	Westtown Township	Westtown Township	\$438,811	\$658,217	\$548,514
Radley Run Stream Restoration	Brent & Celeste Celek	Westtown Township	\$79,672	\$119,508	\$99,590
TOTAL:			\$975,361	\$1,463,044	\$1,219,203

*Estimated Cost includes survey, design, engineering, any anticipated permitting, bid administration, construction inspection, construction, materials, and as-built survey. Thorne Drive Basin Retrofit cost estimate is based on the 2023 costs/rates; all other BMPs developed based on 2019 costs/rates. It does NOT include costs associated with operations and maintenance (O&M).

4.7 Operations and Maintenance

To ensure the long-term effectiveness of these proposed BMPs, operation and maintenance (O&M) is crucial. Table 20 below outlines the responsible party and the necessary O&M practices required for each proposed BMP (Pennsylvania Stormwater BMP Manual, December 30, 2006).

Table 20: Proposed BMP O&M Responsibilities

BMP	Current Owner	Responsible Party for O&M	O&M Responsibilities
Tyson Park Bioswale (Installed in 2015)	Westtown Township	Westtown Township	<ul style="list-style-type: none"> Inspect at least 2x per year Pruning, weeding, watering Re-spread mulch every 2-3 years Remove sediment buildup Repair and re-stabilize areas of erosion Maintain vegetation
Pleasant Grove Stream Restoration	Westtown Township	Westtown Township	<ul style="list-style-type: none"> Inspect at least 2x per year Avoid excess use of fertilizers, pesticides, or other chemicals Mow surrounding area as appropriate (remove clippings) Remove invasive species Remove debris
Thorne Drive Basin Retrofit	Westtown Township	Westtown Township	<ul style="list-style-type: none"> Inspect at least 2x per year Clean inlets at least 2x per year Maintain vegetation Remove invasive species

Table 20: Proposed BMP O&M Responsibilities

BMP	Current Owner	Responsible Party for O&M	O&M Responsibilities
			<ul style="list-style-type: none"> • Mow as appropriate (remove clippings) • Remove accumulated sediment
Sage Road Basin Retrofit	Westtown Township	Westtown Township	<ul style="list-style-type: none"> • Inspect at least 2x per year • Clean inlets at least 2x per year • Maintain vegetation • Remove invasive species • Prohibit vehicular access • Avoid excessive compaction by mowers • Drain-down time < 72 hours • Mow as appropriate (remove clippings) • Remove accumulated sediment
Radley Run Stream Restoration	Brent & Celeste Celek	Brent & Celeste Celek	<ul style="list-style-type: none"> • Inspect at least 2x per year • Avoid excess use of fertilizers, pesticides, or other chemicals • Mow surrounding area as appropriate (remove clippings) • Remove invasive species • Remove debris
Crebilly Farm Meadow Conversion	Westtown Township	Westtown Township	<ul style="list-style-type: none"> • Survey Meadows 2x per year for invasive species. • Mow or prescribed burn annually • Administer spot treatment for invasive species.
Pleasant Grove Stream Restoration	Westtown Township	Westtown Township	<ul style="list-style-type: none"> • Inspect at least 2x per year • Avoid excess use of fertilizers, pesticides, or other chemicals • Mow surrounding area as appropriate (remove clippings) • Remove invasive species • Remove debris

5.0 Conclusion

The required ten (10) percent sediment reduction for the PRP Planning Areas and the short-term objectives of the Goose Creek TMDL have been demonstrated through the existing bioswale and proposed implementation of two (2) stream restoration projects two (2) basin retrofits, and one (1) meadow conversion . BMPs will be implemented within 5 years of PA DEP approval of this plan. An additional 2,100 linear feet of stream restoration is proposed within the Goose Creek watershed to meet the long-term objectives of the TMDL, which is a total phosphorous reduction of 53.9 percent.

6.0 Definitions

Best Management Practices (BMPs): Schedules of activities, prohibitions of practices, structural controls (e.g., infiltration trenches), design criteria, maintenance procedures, and other management practices to prevent or reduce pollution to the waters of the Commonwealth. BMPs include Erosion and Sedimentation Control Plans, Post Construction Stormwater Management Plans, MS4 TMDL Plans, Stormwater Management Act Plans, and other treatment requirements, operating procedures and practices to control runoff, spillage or leaks, sludge or waste disposal, drainage from raw material storage, and methods to reduce pollution, to recharge groundwater, to enhance stream base flow and to reduce the threat of flooding and stream bank erosion. [NPDES Stormwater Discharges from Small MS4s General Permit 5/2016 (PAG-13)]

Municipal Separate Storm Sewer System (MS4): All separate storm sewers that are defined as “large” or “medium” or “small” municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(18), or designated as regulated under 40 CFR § 122.26(a)(1)(v). [PAG-13]

National Pollutant Discharge Elimination System (NPDES): A permit issued under 25 Pa. Code Chapter 92a (relating to National Pollutant Discharge Elimination System permitting, monitoring and compliance) for the discharge or potential discharge of pollutants from a point source to surface waters. [PAG-13]

Outfall: A “Point Source” as defined by 40 CFR § 122.2 is the point where an MS4 discharges stormwater to other surface waters of this Commonwealth. This does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream and are used to convey waters of the Commonwealth (40 CFR § 122.26 (b) (9)). [PAG-13]

Owner or operator: The owner or operator of any “facility” or “activity” subject to regulation under the NPDES program. [PAG-13]

Parsing: A process in which land area is removed from a Planning Area in order to calculate the actual or target pollutant loads that are applicable to an MS4. [NPDES from Small MS4 PRP Instructions- Attachment A]

Planning Area: All of the storm sewersheds that an MS4 must calculate existing loads and plan load reductions for. [NPDES from Small MS4 PRP Instructions]

Pollutant: Any contaminant or other alteration of the physical, chemical, biological, or radiological integrity of surface water which causes or has the potential to cause pollution as defined in section 1 of The Clean Streams Law, 35 P.S. § 691.1. [PAG-13]

Storm Sewershed: The catchment area that drains into the storm sewer system based on the surface topography in the area served by the storm sewer. (Source: NPDES Stormwater Discharges from Small MS4s General Permit [PAG-13])

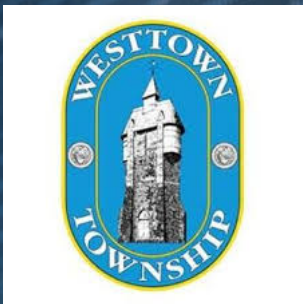
Stormwater: Runoff from precipitation, snow melt runoff and surface runoff and drainage. “Stormwater” has the same meaning as “Storm Water.” (Source: NPDES Stormwater Discharges from Small MS4s General Permit [PAG-13])

Urbanized Area (UA): Land area comprising one or more places (central place(s)) and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile, as defined by the United States Bureau of the Census and as determined by the latest available decennial census. The UA outlines the extent of automatically regulated areas. UA maps are available at: <http://www.epa.gov/npdes/stormwater/urbanmaps>, or at: <http://www.epa.gov/enviro/html/em/index.html>. [PAG-13]

DRAFT

H^AVERFORD SYSTEMS ⁷

Audio-Visual Solutions



Microphone Upgrades

HAV-339

November 14, 2024

Prepared for : Pam Packard, Westtown Township
Created by : R.T. Chalfant, Haverford Systems, Inc.
Project ID: HAV-339

INTRODUCTION

November 14, 2024

Pam Packard
Westtown Township

Dear Pam,

Thank you very much for the opportunity to present this proposal and contract for your project. We appreciate the time spent describing your objectives. The Haverford Systems Integration Team has carefully considered your requirements to create a customized solution aligned with your needs.

As you review this proposal, please feel free to contact us with any questions you may have.

Best Regards,

R.T. Chalfant





COUNCIL CHAMBERS

SCOPE

Haverford Systems will install ten new Shure gooseneck microphones to upgrade the sound quality of the current A/V system at the Westtown Township building. The new system will not have individual speakers at each microphone station like the old system had. The HSI installation will include:

- Ten Shure MX418D/C Gooseneck Microphones
- QSC Core 110f-v2 - To process, manage, and control audio sources within the system
- XLR cable runs from the dias to the AV rack
- QSYS programming for the Core

MICROPHONE UPGRADE

IMAGE	QTY	DESCRIPTION	PRICE	TOTAL
	10	Shure MX418D/C Cardioid-18" Desktop Gooseneck Condenser Microphone, Attached 10' XLR Cable, Logic Functions, Programmable Switch and LED Indicator, Attached Desktop Base	\$286.80	\$2,868.00
	1	QSC CORE 110f-v2 Unified Core with 24 local audio I/O channels, 128x128 total network I/O channels with 8x8 Software-based Dante license included, USB AV bridging, dual LAN ports, POTS and VoIP telephony, no GPIO, 16 next-generation AEC processors, 1RU.	\$3,031.20	\$3,031.20
	1	Haverford Systems Installation Services Onsite installation labor, design, administration, project management and logistics		\$5,264.00
	1	Haverford Systems Misc. Hardware and Cabling Misc. Hardware and Cabling	\$616.00	\$616.00
MICROPHONE UPGRADE TOTAL				\$11,779.20
SHIPPING				\$159.48
COUNCIL CHAMBERS TOTAL				\$11,779.20






TELEVIC MICROPHONE SYSTEM

SCOPE

This option is for an upgrade of the current conferencing microphone system with individual microphones and speakers at each individual microphone station. The Televic system to be installed will be more similar to what is currently installed but will be an upgrade in quality with newer hardware. Haverford systems will install:

- Televic Conference D-Cerno AE- A digital control unit with integrated recording capability
- Televic Conference D-Cerno D SL - Ten Digital Delegate Discussion units with microphone button, volume control button, built-in loudspeaker, headphone option
- Televic Conference D-MIC 40 SL - Ten gooseneck microphones to be connected to the discussion units
- Cat6 Cabling to the A/V rack
- Programming for the Televic digital control unit

MICROPHONE UPGRADE

IMAGE	QTY	DESCRIPTION	PRICE	TOTAL
	1	Televic Conference D-Cerno AE Digital control unit with integrated recording capability - 4 digital RJ 45 ports - Branch or loop connection (redundancy) - LAN connection for web server, camera control protocol or AES67 communication - 2 x USB-C for audio connection with UC or multi-channel recording - 2 x XLR OUT, 2 x XLR IN - 3,5mm line in and out - Plug and Play - Eco Power Safe mode - Power connector with locking - External power supply included	\$1,890.00	\$1,890.00
	10	Televic Conference D-Cerno D SL Digital Delegate Discussion unit with removable microphone (30, 40, 50 or 70 cm) - Microphone connector - Microphone button and volume control button - Built-in loudspeaker - Headphone connector - Cable of 2 meters included D-MIC type microphone to be ordered separately.	\$344.40	\$3,444.00
	10	Televic Conference D-MIC 40 SL GSM immune gooseneck microphone of 40 cm with screwlock. Bi-color led ring indication (red / green). Windscreen included. Not to be used with Confidea FLEX G4	\$155.40	\$1,554.00
	1	Haverford Systems Installation Services Onsite installation labor, design, administration, project management and logistics		\$4,984.00
	1	Haverford Systems Misc. Hardware and Cabling Misc. Hardware and Cabling	\$366.52	\$366.52
MICROPHONE UPGRADE TOTAL				\$12,238.52
SHIPPING AND TAXES				\$0.00

SUMMARY

EQUIPMENT TOTAL	\$7,254.52
LABOR	\$4,984.00
SHIPPING	\$179.34
SHIPPING	\$0.00
TAX	\$0.00
TELEVIC MICROPHONE SYSTEM TOTAL	+\$12,417.86

PROJECT SUMMARY

LOCATIONS

COUNCIL CHAMBERS

EQUIPMENT

LABOR

TOTAL

\$6,515.20

\$5,264.00

\$11,779.20

PROJECT TOTAL

\$11,938.68

*PLUS APPLICABLE TAXES

Client Responsibilities/Assumptions

- Network connectivity, configuration, set up, and firewall traversal
- Electrical cabling/conduit

WORKMANSHIP WARRANTY DESCRIPTION

If your system was installed by Haverford Systems, it is supported by a 1 full year Workmanship Warranty, starting from the date of owner sign-off. As these systems are typically heavily integrated, using products from many manufacturers and software publishers, and are additionally integrated with owner provided and 3rd party provided products and systems, it is important to understand what is covered by our Workmanship Warranty. Haverford Systems does everything that we can to guarantee a successful deployment and lifecycle for every system that we install but many things are not under our control and responsibility must be taken by owner or other involved parties.

Workmanship Warranty – What is covered

- System Design (system design must be capable of fulfilling written system scope as proposed in writing)
- Product selection (all products proposed must be appropriate and suitable for proposed use)
- Product placement (all equipment must be located per system design scope, as approved by owner, during scope development or as modified scope by owner during installation)
- Initial Cable pull integrity (cables must not be damaged during routing)
- Cable terminations (cable terminations must be installed/performed properly)
- Mounting hardware (must be suitably chosen and installed per manufacturer's specifications and any applicable codes)
- Assembly (all components must be assembled per system design)
- Equipment configuration (all proposed equipment must be configured according to design scope)
- System testing (all systems must be fully tested under normally expected operating conditions)
- System training (owner representative must be trained in each major aspect of end user system operation)

Workmanship Warranty – What is NOT covered

A Workmanship Warranty is only designed to cover issues that the provider has direct and sole control over and that are specifically part of the proposed system and are solely supplied by the provider. There are many elements of an integrated system which must be managed and supported by the owner themselves or by third parties. Some of them are described below. These are examples only and not an exhaustive list.

- All of the products purchased directly from Haverford Systems are covered by an original manufacturer's warranty of some specific length and scope. The length and scope of these warranties can vary greatly. It is important for you to understand that manufacturer warranties are always limited to varying degrees. Most manufacturers' warranties do not cover: troubleshooting, on-site labor and expenses, loaner equipment or freight expenses for products sent back to and returned from the factory for repair. These additional services (and their associated costs) may be necessary to provide full service of your systems.
- Consumable and high wear items (e.g. projector lamps, filters, interface cables, etc.)
- Component repair or replacement cost for equipment failure outside of manufacturer's warranty scope or manufacturer's warranty period.
- Replacement or repair costs of any items damaged by abuse or misuse.
- Replacement or repair costs of items damaged by environmental factors (incl. heat, liquid, smoke, dust, etc.)
- Replacement or repair costs of items damaged or altered by any party other than Haverford Systems personnel, including other system or service providers.
- Incompatibility relating to owner furnished equipment or systems.
- Programming and other changes to functionality that diverge from the original project design.
- Suitability or proper configuration/operation of owner's infrastructure, including IP or other networks, buildings and furniture.
- Changes to configuration of owner networks or other integrated systems after system has been signed off by owner.
- 3rd Party software, including any operating systems or firmware and including software, firmware and operating system updates.
- Failure or sub-par performance of systems related to any 3rd party or owner provided equipment, software, furniture, infrastructure or systems.
- Any systems, equipment or work provided by 3rd party providers and tradespeople.
- End user operator errors or operator capability limitations of any kind with regard to system use operation or maintenance.
- End user or third party provided content for processing, presentation or distribution.
- Geometric, acoustical, optical, thermal or other physical limitations of owner's provided space for proposed systems.

HAVACARE SERVICE

Why Choose HavaCare™

If your system was installed by Haverford Systems, all workmanship is supported for 1 full year. All of the products purchased from Haverford Systems are also covered by an original manufacturer's warranty. It is important for you to understand that manufacturer warranties are limited. Most manufacturers' warranties do not cover: troubleshooting, on-site labor and expenses, loaner equipment or freight expenses for products sent back to and returned from the factory for repair. These services are necessary to provide full service of your systems. With HavaCare™ you get peace of mind, knowing that your systems will always be working when you need them.

Haverford Systems Service Options: Choose the coverage type and payment plan that works best for your organization.

PREPAID PLANS:

1. **HavaCare™ Priority Service Agreement:** Available with Yearly and Discounted Multi-Year Rates

PAY-AS-YOU-GO PLANS:

1. **T&M** - Time and Materials Based Repair and Maintenance Services
2. **Lump Sum** - Proposed Project Based Repair and Maintenance Services

HavaCare™ Priority

During each year of HavaCare™, Haverford Systems will provide free and unlimited toll-free technical telephone support with 1 hour response time. Haverford Systems will also provide next day response time for on-site technical service. If phone support fails to correct technical issues with the system, a field technician will respond on-site within one business day of reporting the problem. Technical service will provide for troubleshooting and repairing the system as required, to return it to full functionality. A field technician will also make a scheduled site visit once each year for preventative maintenance, cleaning, testing and tuning of the system and components. The integrity of all cabling and connections is explicitly covered by this warranty as far as these cables and connections are part of the original system and have not been changed or tampered with by any other party than Haverford Systems. All service calls are immediately logged with a Field Service RMA issued to the client. All Field Service RMAs are actively managed until all related issues are resolved.

HavaCare™ Priority Benefits

- Priority Technical Support on Toll Free Phone Line – 1 Hour Response Time during normal business hours
- Priority Troubleshooting Service – Next Business Day On-Site Response Time
- Consumable Replacement Labor (e.g. projection lamp - cost of consumable materials is not included)
- Annual System Preventative Maintenance, Cleaning, Testing and Tuning
- Facilitation of Manufacturer's Warranties
- Facilitation of Manufacturer Provided Loaners and Replacements (where applicable).

HavaCare™ Priority Limitations:

 Items not included or covered by HavaCare™ Priority Plans:

- Consumable items (e.g. projector lamps, filters, etc...)
- Component repair or replacement cost for equipment failure outside of mfg's warranty or warranty period.
- Replacement or repair costs of any items damaged by abuse or misuse.
- Replacement or repair costs of any items damaged by environmental factors (incl. heat, liquid, smoke, dust, etc.)
- Replacement or repair costs of any items damaged or altered by any party other than Haverford Systems personnel.
- Incompatibility relating to client furnished equipment or systems.
- Programming and other changes to functionality that diverge from the original project design.
- Delays in scheduled service, due to client use or other limited access to systems and rooms or reasons otherwise not caused by Haverford Systems, may be subject to additional charges to client.
- On-Site Field Service is normally provided between the hours of 7:00 am and 5:30 pm during the working week.

ACCEPTANCE

FINANCIAL

PAYMENT SCHEDULE

40% Initial Payment

60% Final Payment Once Project is Complete

Acceptable Forms of Payment

- Purchase orders upon with Terms upon credit review
- Company Check
- Credit Card, VISA, MC, AMEX, Discover - additional 3.5% transaction fee will be applied for this method
- EFT, direct or other forms

OPTIONS Not included in the project total. Initial to the left to add the option to your project.

_____ TELEVIC MICROPHONE SYSTEM +\$12,417.86

TERMS

Proposals are valid for thirty (30) days following issue. Should you wish to reconsider a project at a later date, we will review and revise the proposal and timeline to reflect current conditions. Unforeseen conditions, such as the need to overcome previously unknown construction obstacles, can significantly affect project costs and timeline estimates.

This proposal and its entire scope of work are limited to the explicit scope(s) of work and systems descriptions as defined herein. Any changes or modifications beyond these explicit scopes and descriptions may require additional charges, which must be contracted for with guaranteed payment before changes or modifications can be accepted and completed. Technical design, details, and all of its other contents represent a pre-contract investment by Haverford Systems, Inc. and as such, are the sole property of Haverford Systems, Inc. This proposal is provided for engineering reference only and may not be used for the purposes of acquiring competitive bids. This proposal is based upon industry standard hours of Monday to Friday, 8 am through 5 pm. Work conducted outside these times may be billed at an overtime rate.

Any and all taxes on the transaction will be added to the invoice and will be the responsibility of the buyer. If a purchase is made via credit card, a 3.5% transaction fee will be applied to the invoice. Overdue invoices will incur a 2.5% late fee after 30 days.

ACCEPTANCE

WESTTOWN TOWNSHIP

SIGNED

DATE

PRINT NAME

TITLE

HAVERFORD SYSTEMS

SIGNED

DATE

PRINT NAME

TITLE



November 6, 2024

Mila Carter, Township Manager & Director of Planning and Zoning
Westtown Township
1039 Wilmington Pike
West Chester, PA 19382

RE: Westtown School Lane House
Escrow Release 1
Westtown Township
0236-22-0258

Dear Ms. Carter,

Cedarville Engineering Group is in receipt of an escrow release request from the Developer of the referenced site, Westtown School Lane House.

CEG recommends the Township release the amount of **\$55,755.51** from the withheld funds in accordance with the approved Westtown School Lane House Financial Security Agreement following satisfactory completion of the items outlined at the end of this letter. The signed Construction Escrow Spreadsheet has been enclosed, with a summary of recommended releases referenced below.

1. Rock Construction Entrance: The Developer has requested a release of \$3,000.00. A release of \$3,000.00 is recommended, representing the full amount requested by the Owner.
2. 12" Compost Filter Sock: The Developer has requested a release of \$600.00. A release of \$600.00 is recommended, representing 100% of the amount requested by the Owner.
3. 18" Compost Filter Sock: The Developer has requested a release of \$1,232.00. A release of \$1,232.00 is recommended, representing 100% of the amount requested by the Owner.



4. Tree Protection Fencing: The Developer has requested a release of \$2,420.00. A release of \$2,420.00 is recommended, representing 100% of the amount requested by the Owner.
5. Inlet Protection: The Developer has requested a release of \$900.00. A release of \$900.00 is recommended, representing 100% of the amount requested by the Owner.
6. Temporary Slope Matting, NAG S75: The Developer has requested a release of \$798.00. A release of \$798.00 is recommended, representing 100% of the amount requested by the Owner.
7. Temporary Seed Stockpile: The Developer has requested a release of \$800.00. A release of \$800.00 is recommended, representing 100% of the amount requested by the Owner.
8. Erosion Control Maintenance & Removal: The Developer has requested a release of \$1,500.00. A release of \$0.00 is recommended until completion of all site improvements and removal of E&S BMPs.
9. Stone Recharge Bed – 36.25’ x 26.5’ x 4’, Perforated Pipe, Filter Fabric, and Liner: The Developer has requested a release of \$10,500.00. A release of \$7,875.00 is recommended, pending final acceptance documentation from the design engineer as outlined in the Punchlist.
10. Small Park Grate: The Developer has requested a release of \$4,500.00. A release of \$4,500.00 is recommended, representing 100% of the amount requested by the Owner.
11. 4” PVC: The Developer has requested a release of \$1,410.00. A release of \$1,410.00 is recommended, representing 100% of the amount requested by the Owner.
12. 6” PVC: The Developer has requested a release of \$6,440.00. A release of \$6,440.00 is recommended, representing 100% of the amount requested by the Owner.
13. 8” HDPE: The Developer has requested a release of \$160.00. A release of \$160.00 is recommended, representing 100% of the amount requested by the Owner.
14. Level Spreader: The Developer has requested a release of \$800.00. A release of \$800.00 is recommended, representing 100% of the amount requested by the Owner.
15. Cleanouts: The Developer has requested a release of \$3,000.00. A release of \$1,000.00 is recommended, until confirmation regarding installation of all cleanouts on the stormwater conveyance systems.
16. Retaining Walls: The Developer has requested a release of \$8,400.00. A release of \$6,300.00 is recommended, until completion of backfill material beneath the W retaining wall as outlined in the Punchlist.
17. Concrete Walk, 4” Depth: The Developer has requested a release of \$3,375.00. A release of \$2,868.75 is recommended, pending spot elevation updates noted on the as-built.



18. Connect to Existing 6" Pipe: The Developer has requested a release of \$1,000.00. A release of \$850.00 is recommended, pending receipt of documentation that the utility items have been satisfactorily installed and accepted as outlined on the Punchlist.
19. Sanitary Sewer Lateral, 6" PVC: The Developer has requested a release of \$2,450.00. A release of \$2,082.50 is recommended, pending receipt of documentation that the utility items have been satisfactorily installed and accepted as outlined on the Punchlist.
20. Sanitary Sewer Traps/Cleanouts, 6" PVC: The Developer has requested a release of \$500.00. A release of \$425.00 is recommended, pending receipt of documentation that the utility items have been satisfactorily installed and accepted as outlined on the Punchlist.
21. Site Cut/Fill: The Developer has requested a release of \$286.00. A release of \$286.00 is recommended, representing 100% of the amount requested by the Owner.
22. Site Cut/Export: The Developer has requested a release of \$3,312.50. A release of \$3,312.50 is recommended, representing 100% of the amount requested by the Owner.
23. Rough Grade: The Developer has requested a release of \$340.00. A release of \$340.00 is recommended, representing 100% of the amount requested by the Owner.
24. Final Grade Building Pad: The Developer has requested a release of \$83.30. A release of \$83.30 is recommended, representing 100% of the amount requested by the Owner.
25. Prunus laurocerasus 'Schipkaensis' (2-3' ht): The Developer has requested a release of \$1,050.00. A release of \$0.00 is recommended, until confirmation of installation for all landscaping is received.
26. Betula nigra 'Heritage' (3-3.5" cal.): The Developer has requested a release of \$500.00. A release of \$0.00 is recommended, until confirmation of installation for all landscaping is received.
27. Sweeny Seed Survivor Mix: The Developer has requested a release of \$112.50. A release of \$0.00 is recommended, until confirmation of installation for all landscaping is received and all areas stabilized.
28. 10% Contingency Cost: The Developer has requested a release of \$5,946.93. A release of \$4,848.31 is recommended, representing 10% of the amount recommended for release for installed improvements.
29. 5% Engineering Inspection Cost: The Developer has requested a release of \$2,973.47. A release of \$2,424.15 is recommended, representing 5% of the amount recommended for release for the installed improvements until all Punchlist inspections are completed.

Initial Escrow	\$68,389.70
Previous Escrow Releases	\$0.00
Escrow Release Recommended	\$55,755.51
<hr/>	
Remaining Escrow Balance	\$12,634.19



Please feel free to contact me with any questions.

Best Regards,
Cedarville Engineering Group, LLC

A handwritten signature in black ink, appearing to read "R. E. Flinchbaugh".

Robert E. Flinchbaugh, P.E.
PA Engineering Team Lead

Attachment: Construction Escrow Release Spreadsheet
Working Punchlist #1

cc: Cindi King, Finance Director, cking@westtown.org
Michael Chattin, Cedarville Engineering Group, LLC
mchattin@cedarvilleeng.com
Mike Grigoruk, Construction Manager, Cedarville Engineering Group, LLC
mgrigoruk@cedarvilleeng.com
Michael J. Bowker, P.E., Apex Design + Engineering Group -
mbowker@apexdeg.com
Kate Donnelly, Westtown School - kate.donnelly@westtown.edu
Daniel Umstead, Anchor Management Group - dumstead@anchormg.com

Site Work

ITEM	DESCRIPTION	QUANTITY	UNITS	UNIT COST	UNIT TOTAL	TOTAL PAST RELEASES		CURRENT ESTIMATE		TOTAL RELEASED TO DATE		TOTAL REMAINING	
						QUANTITY	TOTAL	QUANTITY	TOTAL	QUANTITY	TOTAL	QUANTITY	TOTAL
A EROSION AND SEDIMENTATION CONTROL													
1	Rock Construction Entrance	1	EA	\$3,000.00	\$3,000.00	0%	\$0.00	100%	\$3,000.00	100%	\$3,000.00	0%	\$0.00
2	12" Compost Filter Sock	75	LF	\$8.00	\$600.00	0%	\$0.00	100%	\$600.00	100%	\$600.00	0%	\$0.00
3	18" Compost Filter Sock	112	LF	\$11.00	\$1,232.00	0%	\$0.00	100%	\$1,232.00	100%	\$1,232.00	0%	\$0.00
4	Tree Protection Fencing	440	LF	\$5.50	\$2,420.00	0%	\$0.00	100%	\$2,420.00	100%	\$2,420.00	0%	\$0.00
5	Inlet Protection	3	EA	\$300.00	\$900.00	0%	\$0.00	100%	\$900.00	100%	\$900.00	0%	\$0.00
6	Temporary Slope Matting, NAG S75	133	SY	\$6.00	\$798.00	0%	\$0.00	100%	\$798.00	100%	\$798.00	0%	\$0.00
7	Temporary Seed Stockpile	1	EA	\$800.00	\$800.00	0%	\$0.00	100%	\$800.00	100%	\$800.00	0%	\$0.00
8	Erosion Control Maintenance & Removal	1	LS	\$1,500.00	\$1,500.00	0%	\$0.00	0%	\$0.00	0%	\$0.00	100%	\$1,500.00
SUBTOTAL SECTION A					\$11,250.00		\$0.00		\$9,750.00		\$9,750.00		\$1,500.00
B STORM SEWER													
1	Stone Recharge Bed - 36.25'x26.5'x4', Perforated Pipe, filter fabric, and liner.	1	LS	\$10,500.00	\$10,500.00	0%	\$0.00	75%	\$7,875.00	75%	\$7,875.00	25%	\$2,625.00
2	Small Park Grate	3	EA	\$1,500.00	\$4,500.00	0%	\$0.00	100%	\$4,500.00	100%	\$4,500.00	0%	\$0.00
3	4" PVC	47	LF	\$30.00	\$1,410.00	0%	\$0.00	100%	\$1,410.00	100%	\$1,410.00	0%	\$0.00
4	6" PVC	184	LF	\$35.00	\$6,440.00	0%	\$0.00	100%	\$6,440.00	100%	\$6,440.00	0%	\$0.00
5	8" HDPE	4	LF	\$40.00	\$160.00	0%	\$0.00	100%	\$160.00	100%	\$160.00	0%	\$0.00
6	Level Spreader	1	EA	\$800.00	\$800.00	0%	\$0.00	100%	\$800.00	100%	\$800.00	0%	\$0.00
7	Cleanouts	6	LF	\$500.00	\$3,000.00	0%	\$0.00	33%	\$1,000.00	33%	\$1,000.00	67%	\$2,000.00
SUBTOTAL SECTION B					\$26,810.00		\$0.00		\$22,185.00		\$22,185.00		\$4,625.00
C RETAINING WALLS AND CONCRETE													
1	Retaining Walls	210	SF	\$40.00	\$8,400.00	0%	\$0.00	75%	\$6,300.00	75%	\$6,300.00	25%	\$2,100.00
2	Concrete Walk, 4" Depth	25	SY	\$135.00	\$3,375.00	0%	\$0.00	85%	\$2,868.75	85%	\$2,868.75	15%	\$506.25
SUBTOTAL SECTION C					\$11,775.00		\$0.00		\$9,168.75		\$9,168.75		\$2,606.25
D UTILITIES													
1	Connect to Existing 6" Pipe	1	LS	\$1,000.00	\$1,000.00	0%	\$0.00	85%	\$850.00	85%	\$850.00	15%	\$150.00
2	Sanitary Sewer Lateral, 6" PVC	70	LF	\$35.00	\$2,450.00	0%	\$0.00	85%	\$2,082.50	85%	\$2,082.50	15%	\$367.50
3	Sanitary Sewer Traps/Cleanouts, 6" PVC	1	EA	\$500.00	\$500.00	0%	\$0.00	85%	\$425.00	85%	\$425.00	15%	\$75.00
SUBTOTAL SECTION D					\$3,950.00		\$0.00		\$3,357.50		\$3,357.50		\$592.50
E EARTHWORK													
1	Site Cut / Fill	52	CY	\$5.50	\$286.00	0%	\$0.00	100%	\$286.00	100%	\$286.00	0%	\$0.00
2	Site Cut / Export	530	CY	\$6.25	\$3,312.50	0%	\$0.00	100%	\$3,312.50	100%	\$3,312.50	0%	\$0.00
3	Rough Grade	6800	SF	\$0.05	\$340.00	0%	\$0.00	100%	\$340.00	100%	\$340.00	0%	\$0.00
4	Final Grade Building Pad	98	SY	\$0.85	\$83.30	0%	\$0.00	100%	\$83.30	100%	\$83.30	0%	\$0.00
SUBTOTAL SECTION E					\$4,021.80		\$0.00		\$4,021.80		\$4,021.80		\$0.00
F LANDSCAPING													
1	Prunus laurocerasus 'Schipkaensis' (2-3' ht)	14	EA	\$75.00	\$1,050.00	0%	\$0.00	0%	\$0.00	0%	\$0.00	100%	\$1,050.00
2	Betula nigra 'Heritage' (3-3.5" cal.)	1	EA	\$500.00	\$500.00	0%	\$0.00	0%	\$0.00	0%	\$0.00	100%	\$500.00
3	Sweeny Seed Survivor Mix	750	SY	\$0.15	\$112.50	0%	\$0.00	0%	\$0.00	0%	\$0.00	100%	\$112.50
SUBTOTAL SECTION F					\$1,662.50		\$0.00		\$0.00		\$0.00		\$1,662.50

SUBTOTAL ITEMS A. THRU F.	\$59,469.30	0%	\$0.00	82%	\$48,483.05	82%	\$48,483.05	18%	\$10,986.25
10 % CONTINGENCY COST	\$5,946.93	0%	\$0.00	82%	\$4,848.31	82%	\$4,848.31	18%	\$1,098.62
5% ENGINEERING INSPECTION COST	\$2,973.47	0%	\$0.00	82%	\$2,424.15	82%	\$2,424.15	18%	\$549.32

TOTAL CONSTRUCTION COST	\$68,389.70		\$0.00		\$55,755.51		\$55,755.51		\$12,634.19
					\$0.00		\$55,755.51		\$12,634.19

BY: **CEDARVILLE Engineering Group, LLC**



CEDARVILLE Engineering Group, LLC

RECOMMENDED FOR RELEASE:

6-Nov-24
DATE

COMPLETED TO DATE
PREVIOUS RELEASES
RELEASE

\$55,755.51
\$0.00
\$55,755.51



Westtown Township
Westtown School – Lane House
WORKING PUNCH LIST #1
May 17, 2024

CEG Project No. 0236-22-0258

NOTES:

- Punch list is derived from field inspections using original plan set dated June 9, 2022, with latest revision #3 (8/30/2022) at the start of construction, with additional plan revisions through to end of substantially completed construction (See Apex Engineering and CEG files).
- All work shall be per the requirements of the approved project plans, specifications of Westtown Township, and PennDOT Form 408 – latest revision and associated PennDOT RC Standards, also of latest revision.
- ***No punch list repair work of any kind will be accepted without inspection by the Township Engineer, CEG. A minimum of 48 hours notification shall be offered to the Engineer prior to the start of any work for the purpose of scheduling construction inspection. CEG Office phone contact shall be 610-705-4500.***

A. STORM SEWER COLLECTION SYSTEM including Infiltration BMP

- A1. Neat trim all storm pipe within all storm structures (inlets, manholes, modified structures, etc.)
- A2. Neat parge, with non-shrink grout, all interior storm pipe penetrations in all storm structures.
- A4. Provide As-Built drawing of entire storm water collection system including the underground basin, pipe runs, structures, roof collection system, cleanouts, observation ports, etc. for review and approval by both current design Engineer and CEG. As-built information shall reflect all latest revised installations.
- A5. Provide final acceptance documentation from the design engineer regarding the construction of the Infiltration BMP per the details on Sheet 7 of 8 of the approved drawings, including all latest and approved design revisions.

B. LAWN RESTORATION & LANDSCAPING

- B1. Provide additional topsoil, seed, and mulch throughout the site at any lawn area not fully stabilized. See for example adjacent to both new 2'x2' storm inlets off the front corners of the building. Grading to the inlets shall be improved to efficiently convey surface runoff from the front lawn area to the inlet grates.
- B2. Provide additional topsoil, seed, and mulch at those areas of lawn that are rutted and uneven. See adjacent to the ADA ramp entrance and in the area of the original Rock Construction Entrance off School Lane.
- B3. Provide additional backfill material beneath the (W) retaining wall at the rear of the structure, where the 6" PVC roof drain was installed to the infiltration bed. There currently exists a subsidence beneath the wall. When repaired, the area shall be restored with topsoil, seed, and mulch.



C. MISCELLANEOUS

- C1. Review with Owner the need to provide additional topsoil backfill material along the edges of the new concrete walk to the front of the building. There currently exists no backfill along the edges of the walk.
- C2. Provide documentation that escrow items “D – Utilities, D1, D2, and D3” have been satisfactorily installed and accepted. The items reference the new sanitary sewer lateral and connection.
- C3. All landscaping shall be installed as noted on sheet 8 of 8 of the approved drawings, “Landscape Plan”.
- C4. Remove all geotextile fabric protection from stormwater inlet grates at that time when lawns are fully stabilized and there is no concern of sediment contamination to the underground stormwater infiltration BMP.
- C5. The (SE) corner roof downspout is not securely attached to 6” PVC storm conveyance pipe to the underground infiltration BMP. The downspout shall be extended as required to construct a secure connection to the vertical 6” PVC piping.
- C6. The Owner shall refer to the “Stormwater Management Facility Maintenance Plan” located on sheet 7 of 8 of the approved drawings.



November 15, 2024

Liudmila (Mila) Carter, Township Manager
Westtown Township
1039 Wilmington Pike
West Chester, PA 19382

RE: Payment Recommendation No. 1
Westtown Township 2024 Road Program
Westtown Township
0236-24-0008

Dear Ms. Carter,

Cedarville Engineering Group, LLC (CEG) has received Application and Certificate for Payment No. 1 from Allan Myers who has been working on the Westtown Township 2024 Road Program in Westtown Township. This payment request was received electronically on November 14, 2024 in the amount of \$680,974.88 for the work period ending September 30, 2024.

During this pay period, Allan Myers completed all work associated with this contract. During the course of project work, several changes needed to be made requiring billing to the allowance item. These changes included the downsizing of a replacement pipe due to encountered site constraints, the use of a geotextile fabric to mitigate poor subgrade conditions encountered along S. New Street, and the installation of a traffic signal loop at the intersection of S. New Street and Street Road. Documentation supporting the requested allowance amount is attached.

The following supporting documents are enclosed for your reference and records:

- The Application and Certification for Payment certifies the total amount due to the Contractor and the quantities placed to date.
- Material Certifications for the wearing course and binder course material placed.
- Material Tickets for the wearing course material placed.
- The Contractor's Certified Payroll for September 22, 2024 through November 2, 2024.
- The Traffic Control Subcontractor's Certified Payroll for September 22, 2024 through October 12, 2024.
- The Concrete Subcontractor's Certified Payroll for September 16, 2024 through September 22, 2024.
- The Line Painting Subcontractor's Certified Payroll for September 29, 2024 through October 12, 2024.

Cedarville Engineering Group, LLC

159 E High St., Suite 500, Pottstown, PA 19464 | P: (610) 705-4500 CedarvilleEng.com





- The Street Sweeping Subcontractor's Certified Payroll for September 22, 2024 through October 12, 2024.
- The Traffic Signal Loop Subcontractor's Certified Payroll for October 14, 2024 through October 20, 2024.

We recommend the Township consider payment to Allan Myers in the amount of \$680,974.88. This payment constitutes payment for all work completed to date for this project.

Please do not hesitate to contact us should you have any questions or concerns regarding this recommendation.

Best Regards,
Cedarville Engineering Group, LLC

A handwritten signature in blue ink that reads "Kyle R. Turner" with a stylized flourish at the end.

Kyle R. Turner, P.E.
Project Manager

Enclosures

cc: Cindi King, Westtown Township Director of Finance
Mark Gross, Westtown Township Public Works Director
Pam Coleman, Westtown Township Executive Secretary
Mike Kozza, Allan Myers
Colin Waters, Allan Myers
Donna Bernstiel, Allan Myers



APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

TO: Westtown Township
1039 Wilmington Pike, West Chester, PA
19382
Attn:

PROJECT: Westtown

APPLICATION NO: 1

Distribution to:

APPLICATION DATE 06-Nov-24

OWNER

PERIOD TO: 30-Sep-24

ARCHITECT

CONTRACTOR

FROM CONTRACTOR:

VIA ENGINEER:

Allan Myers
1805 Berks Road, PO Box 98
Worcester, PA 19490

Attn:

PROJECT NOS: 2420071

CONTRACT FOR: 2024 Mill & Overlay Project

CONTRACT DATE: 31-Mar-24

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Allan Myers, L.P.

By:

Amanda Musington

Date:

11/14/24

State of: Pennsylvania

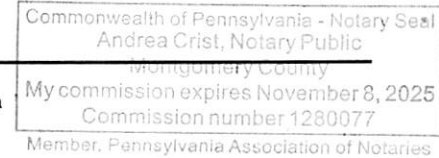
County of: Montgomery

Subscribed and sworn to before me this *14th*

day of *November, 2024*

Notary Public: *Andrea Crist*

My Commission expires: *November 8, 2025*



ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ **680,974.88**

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By:

Date:

11/15/24

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

1. ORIGINAL CONTRACT SUM	\$	736,919.80
2. Net change by Change Orders	\$	0.00
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$	736,919.80
4. TOTAL COMPLETED & STORED TO DATE	\$	716,815.66
5. RETAINAGE:		
a. 5% of Completed Work	\$	35,840.78
b. 0% of Stored Material	\$	0.00
Total Retainage (Lines 5a + 5b)	\$	35,840.78
6. TOTAL EARNED LESS RETAINAGE	\$	680,974.88
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	0.00
8. CURRENT PAYMENT DUE	\$	680,974.88
9. BALANCE TO FINISH, INCLUDING RETAINAGE	\$	

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	
Total approved this Month		
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order	\$0.00	



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|---------------------------------------|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 155.62	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.552

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.1	5.3	34	5.6	3.6	3.6	15.7	15.7
Daily Avg.	5.3	34	5.6				

Please select the Payment Factor percentage below based on the applicable certification acceptance contract unit price adjustments specified in the above listed Publication 408, Section.

- 100 % Payment Factor :** The material as listed above shipped on this date conforms fully with the specification requirements of the Pennsylvania Department of Transportation. Our records, attesting to this statement, are open for inspection by a Department Representative for not less than THREE years from the date of shipment.
- 85 % Payment Factor :** The material as listed above shipped on this date does not conform to the certification tolerances for 100% pay as specified in the above listed Publication 408, Section. A reduced pay factor has been applied and QC test results are being forwarded to the Inspector-in-Charge. Our records attesting to this statement are open for inspection by a Department Representative for not less than THREE years from the date of shipment.
- Defective Pavement:** The material as listed above shipped on this date does not conform to the certification acceptance tolerances for 100% pay as specified in the above listed Publication 408, Section. QC test results are being forwarded to the Inspector-in-Charge which indicate material must be removed and replaced or accepted at 50% CUP or 70% CUP, as applicable and as specified in the above listed Publication 408, Section, with District Executive approval in writing. Our records attesting to this statement are open for inspection by a Department

Name (print) : Betty Seward

Title : Quality Control Tech

Signature : **Betty Seward**

Date Shipped : 10/01/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 850.00	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.560

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.2	5.4	36	6.0	3.6	3.6	16.1	16.0
Daily Avg.	5.4	36	6.0				

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Name (print) : Betty Seward

Title : Quality Control Tech

Signature : **Betty Seward**

Date Shipped : 10/02/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|---------------------------------------|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : **Binder Course :** **Base Course :**

Tons Shipped : 646.38 **Total % Virgin Asphalt :** 5.40 **Daily AASHTO T209 Density :** 2.547

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.3	5.6	36	6.4	3.6	3.6	16.5	16.5
Daily Avg.	5.6	36	6.4				
Running Avg. of 5	5.4	35	6.0				

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Name (print) : Jesse R Correll

Title : Quality Control

Signature : **Jesse R Correll**

Date Shipped : 10/03/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 485.11	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.550

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.4	5.4	36	5.9	3.4	3.6	15.9	16.1
Daily Avg.	5.4	36	5.9				
Running Avg. of 5	5.4	36	6.0				

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Name (print) : Jesse R Correll

Title : Quality Control

Signature : **Jesse R Correll**

Date Shipped : 10/04/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 494.25	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.546

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.5	5.6	36	6.3	3.3	3.2	16.2	16.1
Daily Avg.	5.6	36	6.3				
Running Avg. of 5	5.5	36	6.0				

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Name (print) : Jesse R Correll

Title : Quality Control

Signature : **Jesse R Correll**

Date Shipped : 10/05/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 467.27	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.555
		Air Voids
		VMA
Test Results	%AC	Pass #8
Pass #200	Specimen #1	Specimen #2
Specimen #1	Specimen #1	Specimen #2
Specimen #2		
Daily No.6	5.3	36
5.9	3.8	3.8
Daily Avg.	5.3	36
5.9		
Running Avg. of 5	5.5	36
6.1		

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Name (print) : Jesse R Correll

Title : Quality Control

Signature : **Jesse R Correll**

Date Shipped : 10/07/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W2572207

Material Class : WR25BC

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|---|-------------------------|---------------------------------------|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown Township | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown Township | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input checked="" type="checkbox"/>
Tons Shipped : 111.80	Total % Virgin Asphalt : 2.40	Daily AASHTO T209 Density : 2.611

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.39	3.9	25	4.9	4.3	4.3	13.2	13.1
Daily Avg.	3.9	25	4.9				
Running Avg. of 5	4.0	24	4.8				

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Name (print) : Betty Seward

Title : Quality Control Tech

Signature : **Betty Seward**

Date Shipped : 09/26/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W2572207

Material Class : WR25BC

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input checked="" type="checkbox"/>
Tons Shipped : 288.92	Total % Virgin Asphalt : 2.40	Daily AASHTO T209 Density : 2.615

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.40	3.9	25	5.4	4.0	3.7	13.0	12.7
Daily Avg.	3.9	25	5.4				
Running Avg. of 5	4.0	24	4.8				

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Name (print) : Jesse R Correll

Title : Quality Control

Signature : **Jesse R Correll**

Date Shipped : 09/30/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W2572207

Material Class : WR25BC

ESALS: 0.3 to < 30 Million(Nd=7) **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input checked="" type="checkbox"/>
Tons Shipped : 30.39	Total % Virgin Asphalt : 2.40	Daily AASHTO T209 Density :

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.1							
Daily No.2							
Daily No.3							
Daily Avg.							
Running Avg. of 5							

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Name (print) : Betty Seward

Title : Quality Control Tech

Signature : Betty Seward

Date Shipped : 10/01/2024



CERTIFICATE OF COMPLIANCE FOR DAILY ASPHALT MIXTURES

Plant : Allan Myers Materials

Plant Code : ICM15A41

Primary Address : 638 Lancaster Avenue Suite 1 Malvern, PA 19355-1898

Plant Address : 4045 State Road Devault, PA 19432

Job Mix Formula (Year-Number) : 2024-W9572VH1

Material Class : WM9.5

ESALS: 0.3 to < 30 Million(Nd=7! **SRL :** H

Binder Grade : PG64S-22

Publication 408, Section ---

Asphalt Mix Type :WMA

Consigned to:

- | | | |
|--|-------------------------|--|
| <input type="checkbox"/> PennDOT Maintenance | County : | P.O. No.-Line Item No. : |
| <input type="checkbox"/> Contractor : Municipal Project: Westtown | | State Route : Section : |
| Group / P.O.C. No. : | ECMS No. : | District : |
| <input checked="" type="checkbox"/> Municipality Project : Westtown | County : Chester | |
| <input type="checkbox"/> Highway Occupancy Permit | Permit No. : | County : Chester |
| Highway Occupancy Permit Contractor: | | Contractor Location : |

Wearing Course : <input checked="" type="checkbox"/>	Binder Course : <input type="checkbox"/>	Base Course : <input type="checkbox"/>
Tons Shipped : 357.31	Total % Virgin Asphalt : 5.40	Daily AASHTO T209 Density : 2.551

Test Results	%AC	Pass #8	Pass #200	Air Voids		VMA	
				Specimen #1	Specimen #2	Specimen #1	Specimen #2
Daily No.7	5.3	33	5.4	3.8	3.8	15.9	16.0
Daily Avg.	5.3	33	5.4				
Running Avg. of 5	5.4	35	6.0				

Please select the Payment Factor percentage below based on the applicable certification acceptance contract unit price adjustments specified in the above listed Publication 408, Section.

- 100 % Payment Factor :** The material as listed above shipped on this date conforms fully with the specification requirements of the Pennsylvania Department of Transportation. Our records, attesting to this statement, are open for inspection by a Department Representative for not less than THREE years from the date of shipment.
- 85 % Payment Factor :** The material as listed above shipped on this date does not conform to the certification tolerances for 100% pay as specified in the above listed Publication 408, Section. A reduced pay factor has been applied and QC test results are being forwarded to the Inspector-in-Charge. Our records attesting to this statement are open for inspection by a Department Representative for not less than THREE years from the date of shipment.
- Defective Pavement:** The material as listed above shipped on this date does not conform to the certification acceptance tolerances for 100% pay as specified in the above listed Publication 408, Section. QC test results are being forwarded to the Inspector-in-Charge which indicate material must be removed and replaced or accepted at 50% CUP or 70% CUP, as applicable and as specified in the above listed Publication 408, Section, with District Executive approval in writing. Our records attesting to this statement are open for inspection by a Department

Name (print) : Betty Seward

Title : Quality Control Tech

Signature : **Betty Seward**

Date Shipped : 10/08/2024

CHESTER COUNTY
EMERGENCY SERVICES



CHESTER
COUNTY
HAZARD
MITIGATION
PLAN

COMMUNITY HAZARD MITIGATION SURVEY

YOUR PARTICIPATION
IS ENCOURAGED

**SCAN WITH
CELLPHONE
CAMERA**



PARTICIPATION IN THIS SURVEY HELPS US DEVELOP A COMPLETE AND COMPREHENSIVE PLAN. THE INFORMATION COLLECTED WILL BE DIRECTLY USED IN PLANNING AND DEVELOPMENT OF FUTURE MITIGATION PROJECTS.

**CHESTER COUNTY EMERGENCY MANAGEMENT
TEAM APPRECIATES YOUR SUPPORT.**

Check Register

Westtown Township

15-Nov-24

From: 05-Nov-24 To: 18-Nov-24

Check No	Check Date	VendorNo	Vendor	Check Amount	Status
Bank Account: 1 General Fund - Univest					
18272	11/5/2024	6052	ACE Hardware of West Chest	\$50.94	O
18273	11/5/2024	405540	Albert Federico Consulting, LL	\$1,950.00	O
18274	11/5/2024	32	AQUA PA	\$428.88	O
18275	11/5/2024	876	Highway Materials, Inc	\$106.70	O
18276	11/5/2024	1000597	NetCarrier Telecom Inc.	\$489.06	O
18277	11/5/2024	406050	Protree Services LLC	\$9,000.00	O
18278	11/6/2024	32	AQUA PA	\$85.35	O
18279	11/11/2024	605	ALPHA SPACE CONTROL C	\$19,023.50	O
18280	11/11/2024	1009	Ann Marie Cassidy	\$1,340.00	O
18281	11/11/2024	6038	Cedarville Engineering Group	\$9,614.67	O
18282	11/11/2024	6038	Cedarville Engineering Group	\$44,546.89	O
18283	11/11/2024	127	In-Fleet Truck Service	\$622.26	O
18284	11/11/2024	1122	Keen Compressed Gas	\$243.85	O
18285	11/11/2024	1000074	NAPA AUTO PARTS	\$67.82	O
18286	11/11/2024	1157	Nationwide Testing Associatio	\$150.00	O
18287	11/11/2024	1123	New Enterprise Stone & Lime	\$445.30	O
18288	11/11/2024	15	Office Basics, Inc.	\$458.98	O
18289	11/11/2024	792	PA Twps Health Ins Coop Trus	\$5,071.32	O
18290	11/11/2024	1001178	Red Tail Restoration	\$756.45	O
Bank Total:				\$94,451.97	
Bank Account: 8 Enterprise Fund - Univest					
1734	11/6/2024	936	Deckman Motor & Pump, Inc.	\$5,053.00	O
1735	11/6/2024	5666	M&B Environmental, Inc.	\$6,701.92	O
1736	11/6/2024	1164	Univar Solutions USA, Inc.	\$4,475.84	O
1737	11/6/2024	357	W. G. Malden	\$523.00	O
1738	11/6/2024	5715	Xylem Dewatering Solutions In	\$6,110.08	O
Bank Total:				\$22,863.84	
Bank Account: 18 Capital Project Fund Univest					
1397	11/11/2024	6038	Cedarville Engineering Group	\$2,000.00	O
Bank Total:				\$2,000.00	
Bank Account: 23 Debt Service Fund Univest					
104	11/8/2024	1000639	U.S. Bank St. Paul	\$1,600.00	O
Bank Total:				\$1,600.00	
Total Of Checks:				\$120,915.81	