



MS4 DEPARTMENT MONTHLY REPORT

September 1, 2023 – September 29, 2023

NOTEWORTHY ITEMS

❖ Land Studies Rain Garden Maintenance

- Land Studies hand weeded all rain gardens, performed invasive plant control, removed trash and debris from gardens, and shoveled sediment out of traps.
- Because the growing season is almost over, this is the final Land Studies maintenance visit in our rain gardens for the remainder of 2023. Maintenance visits will resume in 2024.



❖ Varied weather conditions impacted the storm drains this month.

- Part of the month was hot and extremely dry, part of the month held moderate temperatures, and we also had a few substantial storms throughout the month caused heavily clogged drains.
- MS4 and Maintenance staff cleared volumes of leaves, debris, trash, and sediment from storm drains to prevent flooding and reduce pollution.
- Maintenance staff performed street sweeping as scheduled to reduce the pollutants on our streets reaching our storm drains and waterways.





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- ❖ Assisted Maintenance Crew and Shade Tree Commission member in selecting, purchasing, preparing site, and planting 3 new native trees in the public spaces on the 800 block of Market St
 - 3 Serviceberry trees were selected for compact size and widespread ecosystem benefits
 - Thank you to the Shade Tree Commission for purchasing street trees!



- ❖ MS4 Staff and Maintenance Staff watered pollinator pots and newly planted trees and rain gardens throughout the month as needed to ensure health of plantings.
- ❖ Bare Root Tree Grant Program:
 - Filed preliminary grant application for 20 bare root trees through TreePennsylvania, the PA Urban & Community Forest Council.
 - Completed all trainings and new grantee requirements during 1st and 2nd rounds of submission periods.
 - TreePennsylvania notified Lemoyne Borough that we were selected to receive 20 free trees through the grant!
 - Sites for selected trees include: Negley, Woodside, Schell, and our Rain Gardens.
 - Trees will be ready for pick up in November and will be planted the week of receipt.
- ❖ Cumberland County Land Partnerships Grant:
 - Researched and priced items for approved improvements at Memorial Park



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- ❖ Gathered, produced, and compiled all necessary data and documentation and sent to Rettew, who finalized Lemoigne Borough's Annual MS4 Status Report to DEP.
 - Received confirmation of receipt of report by DEP on 09/27/2023.
- ❖ As reported to the DEP on our **Annual MS4 Status Report**: from **07/01/22 - 06/30/23**:
 - Lemoigne **exceeded** our **sediment removal** required in our Pollutant Reduction Plan by **27,221 lbs per year**.
 - We had **2** incidents of reported **Illicit Discharge**.
 - We conducted and reported **inspections** of **structural BMPs** and **outfalls**.
 - We received credit for our **Community Clean Up Day** on 04/23/22 and our first **Arbor Day Festival** as public outreach and education events
 - We logged **126 hours of MS4 training**
 - We achieved **57 hours of collaborative MS4 participation over 7 events with over 2080 people**.
 - We achieved **30 hours of collaborative MS4 educational contacts with 806+ adults and children over 6 activities**.



- ❖ Researched costs, review prior year budgets, created, reviewed, and updated 2024 budget.
 - Assessed MS4 infrastructure and supplies to determine needs for upcoming year.
 - Attended budget meetings with staff to finalize.
- ❖ Inspected storm drains, inlets, outfalls, tributaries, BMPs, and green infrastructure throughout the month during all weather conditions.



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- ❖ Construction project at 9th & Walnut through 9th & Market St has been completed.
 - Storm drains were added in multiple areas from 9th & Walnut down through 9th & Market Sts., reducing the surface water flowing to 9th St and Market St.
 - This project is designed to improve safety and reduce flooding and erosion.
 - Construction has been completed on time.
 - First heavy storms have come through – inspections during and after storms indicate that new MS4 infrastructure is working well and drains are capturing significant stormwater.



- ❖ Unnamed Tributary and West Walnut Street Stormwater Improvement Project is currently underway.
 - Stream restoration project is designed to reduce erosion, restore the natural function of the stream, improve the ecosystem, and reduce pollutants flowing downstream.
 - Legacy sediment has been removed and stream channel has gone from less than 1 foot to over 4 feet wide with restoration practices.
 - A few heavy storms have washed out sediment load from construction in 1st & 2nd leg – looking very clear and appears to have significant improvement in water quality.
 - 1st leg of restoration by sewer pump station is complete.
 - 2nd leg of restoration along Riverview Rd is complete.
 - 3rd leg of restoration along West Walnut St has begun.
 - This project is the final requirement for our DEP Pollutant Reduction Program 2023.





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- ❖ Participated in MS4orum in Lancaster, PA.
 - Municipal stormwater forum for public works, municipal staff, and licensed Professional Engineers; addressed MS4 requirements and highlighted water quality improvements.
 - Finding & maximizing diverse funding opportunities for stormwater infrastructure
 - Community thinking/ building relationships/ getting multi-property stormwater work accomplished from beginning to end
 - Running an effective municipal MS4 program
 - Maintaining MS4 & green infrastructure – challenges of new Green Infrastructure
 - Dr Rob Traver, Daylor Chair of Civil & Environmental Engineering at Villanova
 - Director, Center for Resilient Water Systems
 - Reducing Stormwater Discharge Contributions to Water Pollution
 - Stream hydraulics, urban hydrology, water quality, sustainable stormwater infrastructure, sizing & effectiveness of green infrastructure BMPs
 - Working on Draft PCSM (PA Post-Construction Stormwater Manual) BMP Manual with PA DEP



- ❖ Participated in the PA Local Government Advisory Council to the Chesapeake Executive Council.
 - 2-day conference topics included: 2025 & Beyond, Chesapeake Bay Update, Grant Funding, Engagement Opportunities, Roll Out of New Website for Municipal Stormwater Education; Accounting for Ecosystem Services; Local Planning with Ecosystem Services; Federal Funding, Municipal Challenges, Solar Energy, PFA Update from the EPA, etc.



- ❖ Participated in the PA Silver Jackets tour through Lititz and Lancaster, PA
 - Floodplain Restoration, Stormwater Resiliency, Water Quality Improvements, and Green Infrastructure BMP tour in Lancaster, PA.
 - Showcased results of innovative planning and forward thinking by visiting multiple locations with recently implemented flood/climate resiliency projects.
 - Hosted by US Army Corps of Engineers, American Rivers, Manheim Borough, PEMA, FEMA, PA DEP, and Susquehanna River Basin Commission