



MS4 DEPARTMENT MONTHLY REPORT

October 29, 2022 – November 21, 2022

NOTEWORTHY ITEMS

- ❖ Street Sweeping and leaf removal continue as scheduled. Leaves that remain in storm drains decay and send high loads of nutrients into our tributaries, streams, and the Susquehanna River. This causes excessive algae growth (and in turn oxygen deprivation), which kills fish and beneficial plants in addition to other harmful water quality issues.
 - A huge thank you to our Maintenance Department for all they do to remove the vast volume of leaves that fall here in the Borough and keep them out of our storm drains!



- ❖ Late in the month, heavy rainstorms, sleet, and early snow caused heavily clogged storm drains and inlets. MS4 staff cleared sedimentation, debris, trash, and fallen leaves out of drains, inlets, and swales to prevent flooding as needed throughout month.





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- ❖ Trash, sediment, leaves, and debris were removed from Rain Gardens and pots throughout month by MS4 staff. Even in late November, our rain gardens are filtering stormwater naturally through native plants and providing food and habitat for important pollinators. [See honeybees below!]



- ❖ MS4 staff performed heavy duty cleaning of clogged storm drain, inlet, and vegetated swale at 5th St & Washington Terrace by shoveling out and clearing leaves, debris, severely compacted dirt, and some eroded bank.

Before



After



After



- ❖ Cleared leaves, debris, sediment, & trash from vegetated swales throughout Negley Park.
- ❖ Monitored flow of storm water and visually inspected condition and performance of storm drains, inlets, outfalls, and absorption and infiltration into BMPs during moderate rainstorms and dry conditions throughout month.



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- ❖ Routine storm drain inspections found sinkhole next to drain #788 in White Oaks. Maintenance Staff filled and repaired hole.



- ❖ Follow up inspections on Outfall Pipe 008 located off Bottleneck showed clear running water during rainfall conditions and no visible suds or bubbles on rocks or near outfall area.

August 2022



November 2022



November 2022



- ❖ Completed the National Survey of Stormwater Utilities in the United States on behalf of Lemoyne Borough for a study being conducted by the North Carolina State University College of Natural Resources.
- ❖ Compiled a list of 2022 accomplishments for MS4 Department.
- ❖ Created a 2023 MS4 Project Priority List in line with Borough's 10-year Capital Improvement Plan.



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- ❖ UPDATE on Illicit Discharge Case on Hummel Ave
 - Spoke to tenant, property management company, and environmental remediation services companies to review case, determine compliance, and discuss next steps many times throughout month.
 - Reinspected site on 11/3 to assess compliance with first set of goals.
 - Inventory of pollutants provided and vats full of liquid chemicals were removed from property.
 - To complete first set of goals for property, still waiting on:
 - Contract with professional Hazardous Waste Removal company
 - Plan for site remediation and proper disposal of pollutants
 - Met with property management team in person on 11/7 and presented photos and documentation of damage and issues on site; clearly defined expectations and reviewed required actions.
 - Removed affected storm drain grates again manually on 11/9, pulled out filtration baskets, removed leaves, sediment, & debris from basket, drain basin, and grates for storm drains. Very thick, oily, tarry substance in bottom of storm drain on west side of Hummel closest to road, and filtration baskets and grates over drain had thick black dry substance that turned to fine powder after scraping off items.



- Measured all aspects of storm drain and filtration assembly for accuracy on to fulfill upcoming replacement part order. Ordered replacement filtration system for affected drains on 11/14.
- Uploaded details and documentation for Illicit Discharge case to DEP OnBase Public electronic records system with attention to local Southcentral DEP Clean Water Supervisor on 11/17. Originally filed DEP Environmental Complaint form for property in October.



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- Inspected property on compliance date of 11/18.
 - All chemicals and work equipment appear to be removed from property.
 - Spoke to property management & environmental services remediation contractor on phone to review progress.
 - Geotechnical engineer is waiting on guidance from DEP to determine level of testing, closures, and clearances needed. Detailed proposal will be provided once complete.
 - To complete second set of goals on property, still waiting on:
 - Professional remediation of chemical residue in yard and on sidewalk
 - Removal of contaminants that may enter storm drains
 - Receipt detailing location and amount of hazardous waste disposed

9/30/2022



11/18/2022



11/18/2022



- ❖ MS4 Coordinator participated in Community Development Block Grant Funding Meeting with Cumberland County Housing & Redevelopment Authority staff members. They are pleased with the multiple projects currently underway and upcoming planned projects funded by CDBG in Lemoyne. Our Borough is often utilized as an example of how to use long term planning to maximize opportunities for grant funds and minimize the output of matching funds!





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- ❖ MS4 Coordinator completed Annual Lemoine Borough MS4 Outfall / Outlook Point Field Screenings and Inspections with Rettew. Findings will be reported to DEP in our Annual Report due 9/30/2023 for permit cycle 7/1/22 – 6/30/23.
 - One storm drain held what appeared to be standing water and oily substance with rainbow sheen (after 3+ dry days) at bottom by Member's 1st Bank – we will inspect again during consistently dry conditions and use a loose absorbent followed by vacuum street sweeping to remediate if needed – most likely one-time vehicle leak/ traffic but will perform multiple follow up inspections over time.



- 2 outfall pipes that are corroded and bottom is rusted through by Riverview Rd/ West Walnut into Unnamed Tributary
 - Replacements may need to be implemented into future stormwater projects



- The rest of many inspected Outfalls and Outlook Points were found to be dry, clear, and in good working condition with no illicit discharge detected!