Letter from the Commissioner
Fiscal Year 2026 Combined Sewer and Stormwater Annual Report

Dear Philadelphia residents and partners,

Each year, this report shows PWD's continuing progress protecting our rivers and creeks and keeping polluted water out of local waterways. It also demonstrates our care for the water systems that serve our city. This year's report shows clear, measurable progress. It also shows where more work is needed.

Philadelphia has one of the nation's oldest sewer systems. In about 60% of the city, rainwater and wastewater flow through the same pipes. During heavy rain, these pipes can fill, releasing mixed stormwater and sewage into a river or creek, with the remainder being cleaned at a treatment plant. These releases are called combined sewer overflows, or CSOs. This historic overflow design helps prevent wastewater from backing up into homes, businesses, and flooding our streets. In the other 40% of the city rainwater is collected separately and discharged into nearby waterways. This rainwater can still carry litter and other pollution directly into local rivers and creeks. PWD works across both sewer systems to reduce pollution and protect Philadelphia's waterways.

Progress comes from many kinds of work: rain gardens, green roofs and tree trenches soak up rain where it falls, storage projects hold more water during storms, sewer upgrades move more flow to our treatment plants, PWD personnel clean storm drains, and skimming boats and community cleanups keep trash and floating debris from our rivers and creeks.

By the Numbers

- Since 2011, PWD's combined sewer overflow reductions exceed 3.08 billion gallons on an average annual basis.
- PWD expects an additional 4-billion-gallon reduction average annual reduction with current projects underway.
- Since 2011, PWD has built or supported the development of 3,903 total greened acres through 1,208 projects to help catch stormwater where it falls.
- In Fiscal Year 2026, 241 stormwater outfall inspections were conducted at 235 locations. 1,098 new sewer and storm connections were inspected, and 71 faulty connections were repaired.
- In Fiscal Year 2026, 3,547 tons of debris removed from inlets which is the equivalent of more than 7 million pounds, 119,082 inlets inspected, and 78,901 inlets cleaned.
- In Fiscal Year 2026, 425 tons of waste removed from waterways by our Waterways Restoration Team.
- In Fiscal Year 2026, 189 tons of floating debris removed from the Schuylkill and Delaware Rivers by skimming boats.
- In Fiscal Year 2026, 162.9 tons of waste and debris removed with help from local partners and volunteers at 10 PWD-led watershed cleanups.

Stopping Pollution Before It Reaches the Water
Much of this work happens out of sight. Crews monitor and clean the sewer system each day. Before and after storms, we check key sites, clear clogs, clean tide gates, and remove grit and trash including 125 instances where PWD staff removed blockages before they caused sewage discharges to our rivers and streams.

Operational improvements every day
This year PWD inspected nearly 64 miles of sewers and completed 4,143 checks at CSO and storm-relief sites. This work keeps the sewer system working well and helps stop pollution before it reaches our waterways.

Better Information for the Public and Our Partners
PWD's customer call center handled 335,570 calls, helping residents report problems, ask questions, and get information. PWD also gives people tools to check water conditions. Philly RiverCast uses near real-time data to help people plan safe fun on the Schuylkill River. CSOcast shows when CSOs may be active. The Delaware Valley Early Warning System uses nearly 90 monitoring stations to warn water suppliers and public agencies about spills.

Continued work and planning
There is still more work ahead. Heavy rain can cause some sewer outfalls to overflow often, and stronger storms put more pressure on the city's aging sewer system. PWD uses data, computer models, and site studies to plan projects where they can make the biggest difference. This includes studying a possible deep tunnel that could reduce flooding in Germantown and nearby neighborhoods while also significantly reducing combined sewer overflows into Tacony Creek.

PWD is committed to continued investment in green stormwater tools, storage and treatment, and improved public communications, as we work to reduce combined sewer overflows while also protecting homes and neighborhoods from flooding and sewer backups.

The progress in this report belongs to the PWD staff who do this work each day. It also belongs to our residents, volunteers, local groups, and government partners. Together, we are building on what works. We are moving Philadelphia toward cleaner rivers and creeks.

Sincerely,

Benjamin C. Jewell
Water Commissioner

PHILADELPHIA'S WET WEATHER MANAGEMENT PROGRAMS

COMBINED SEWER PROGRAM ANNUAL REPORT

National Pollutant Discharge Elimination System (NPDES) Permits
Nos. PA0026689, PA0026662, PA0026671

STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT

National Pollutant Discharge Elimination System (NPDES) Permit
No. PA 0054712

Reporting Period July 1st 2025 to June 30th 2026



Submitted to:

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Clean Water

And

ENVIRONMENTAL PROTECTION AGENCY – REGION III
Water Protection Division

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I. Management and Control of CSOs

This report is submitted pursuant to meeting the requirements of NPDES Permits #s PA0026662, PA0026671, and PA0026689, PART C, I. Other Requirements, Combined Sewer Overflows (CSOs), III. Implementation of the Long Term CSO Control Plan, C. Watershed-Based Management, IV. Monitoring and Assessment. This section requires that the permittee submit an Annual CSO Status Report. The purpose of this report is to document the status and changes made to programs implemented by the City of Philadelphia (City), during Fiscal Year 2026 (FY26), which encompasses the period of July 1st, 2025 through June 30th, 2026, to manage and reduce the CSOs permitted to discharge to waters of the Commonwealth of Pennsylvania.

II. Implementation of the Nine Minimum Controls

The Philadelphia Water Department (PWD) submitted an Updated Nine Minimum Control Report to the Department on June 1, 2013, to supplement the 1995 report and describe current activities as a result of new technology or practices. The nine minimum controls (NMCs) are low-cost actions or measures that can reduce CSO discharges and their effect on receiving waters, do not require significant engineering studies or major construction, and can be implemented in a relatively short time frame.

II.A NMC 1 - Proper Operation and Regular Maintenance Programs for the Sewer System and the CSOs

II.A.1 Implement a Comprehensive Geographic Information System (GIS) of the City Sewer System

To ensure PWD's investment in GIS is as accurate and up to date as possible, edits and improvements are made to data daily. PWD utilizes the GIS coverages as the foundation for many of its operations including maintenance management, capital improvements, and hydraulic modeling.
During FY26, GIS layers were updated and maintained to ensure the accurate tracking and reporting of PWD assets and infrastructure.

II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP)

PWD continues to implement a comprehensive SAP to provide inspection of the collection system using closed circuit television (CCTV) and sonar. The SAP is a critical tool for operations and maintenance as it provides information on existing pipe conditions and helps to locate where repairs are needed. The program is also used to guide the capital improvement program to ensure that the existing sewer systems are adequately maintained, rehabilitated, and reconstructed.

CCTV inspections are conducted/managed by PWD's Flow Control group and performed by PWD personnel and contractors. During FY26, 64.07 miles of sewer inspections were completed via CCTV, averaging about 5.34 miles a month as shown in **Table 1: Monthly TV Inspections.** In addition, the CCTV Unit completed a total of 2,776 inspections of green stormwater infrastructure systems, totaling 28.48 miles during FY26.

Table 1: Monthly CCTV Inspections

Date	Collector Systems (Miles Inspected)
Jul-25	3.58
Aug-25	6.39
Sep-25	7.14
Oct-25	8.11
Nov-25	6.11
Dec-25	3.77
Jan-26	2.30
Feb-26	4.78
Mar-26	6.23
Apr-26	6.07
May-26	5.29
Jun-26	4.30
Average	**5.34**
Total	**64.07**

II.B NMC 2 - Maximum Use of the Collection System for Storage

II.B.1 Continue to Institutionalize a Comprehensive Monitoring and Modeling Program

Monitoring

PWD maintains an extensive monitoring network throughout the combined sewer system including rain gages, pump stations, and connections from adjacent outlying communities. Information on the monitoring network with an updated listing of the monitors, rain gages, and pumping stations can be found in **Appendix B - Flow Monitoring**.

Modeling

The hydrologic and hydraulic (H&H) models will be updated as needed to support Nine Minimum Controls implementation and reporting.

II.B.2 Continue to Operate and Maintain a Network of Permanent and Temporary Flow Monitoring Equipment

PWD continues to maintain a CSO permanent monitoring network with temporary monitoring programs to support planning for CSO control projects and to minimize dry weather overflows and tidal inflows.

Permanent Flow Monitoring Program

PWD uses a network of permanent flow monitors connected to a newer data acquisition system (TELOG) which uses cellular-based telemetry and improved enterprise data management software. As of FY26, the Collector System Monitoring Network is connected to over 280 sites at various locations including CSO regulators, rain gages, pump stations, interceptors, chemical feed tanks, and hydraulic control

points which collect over 500 individual measurements with over ninety percent (90%) operational status. All monitoring devices deployed throughout the PWD collection system continually store data and periodically communicate monitoring information back to the Collector Systems Headquarters for review and use by staff. The listing of permanent flow monitors can be found in **Appendix B – Flow Monitoring.**

Temporary Flow Monitoring Program

PWD maintains its temporary flow monitoring program, initiated in July 1999, which consists of deploying portable flow meters throughout targeted Philadelphia sewershed areas to quantify sanitary and combined flow from the sewer system and characterize the tributary sewersheds. During FY26, PWD monitored 70 sites for the purposes of model calibration, inflow/infiltration (I/I) identification, design support, etc. The listing of all temporary flow monitors, their location, and the deployment projects can be found in **Appendix B – Flow Monitoring: Table 6 – Listing of all Temporary Flow Monitors Deployed by Projects.**

II.B.3 Continue to Evaluate the Collection System to Ensure Adequate Transport Capacity for Dry and Wet Weather Flow

Long Term Control Plan Update

System-wide H&H models have been developed in support of the CSO Program and the Long Term Control Plan Update (LTCPU). Model evaluations have been performed to evaluate the system performance benefits of various system improvement scenarios.

The evaluations of the system-wide models were completed in FY08 to support the LTCPU development. Since 2008, EPA's Stormwater Management Model (SWMM) has been updated to SWMM 5. PWD continues to update the H&H models as needed to support planning and regulatory reporting needs. A description of the H&H model rebuild is provided in Appendix C of the Year 10 Evaluation and Adaptation Plan (EAP).

PC-30 Extreme Wet Weather Overflow

PWD continues to monitor PC-30. For additional information on other efforts conducted for this site, please refer to **Section III.B.2: Table 13** on page 35.

Flood Risk Management

PWD has a robust flood risk management program to analyze and reduce property damage from flooding and basement backups. Aspects of this program include property data collection, implementing individual property mitigation when appropriate, sewer system H&H analysis to understand flood prone areas, and developing policies to reduce flood risk in the city.

Flood Relief Project Summary

PWD's flood risk management efforts include historic flood prone neighborhoods such as South Philadelphia, Northern Liberties, Germantown, and Eastwick. The goal of these efforts is to improve the conveyance of stormwater by targeting peak flow and volume reduction and reducing the potential for flooding. Hydrologic and hydraulic modeling indicates that sewer system improvements or source reduction can sometimes reduce the frequency and/or severity of flooding events. However, the potential benefits of structural improvements to the City's drainage infrastructure must always be

counterbalanced by the financial, economic, and social impacts of implementation. PWD continues to refine and optimize mitigation alternatives to minimize negative impacts to communities.

To better understand and define surface flooding and sewer backups from the collection system, PWD has embarked on a citywide 2-dimensional modeling approach using PCSWMM. The modeling effort is on-going, but the finished deliverables will have maximum flood depths and inundation areas mapped for a variety of design storms which will be used to better inform capital planning. As of FY26, PWD has completed the modeling for sewersheds T14, D44, D45, D68, D69, D70, D25, S42/42A, S50, D37, D38, D39, D17, D19, D20, D21, D22, D54, S06, S07, S08, S09, D05, and D07. Several of these sewersheds are in the previously identified flood prone neighborhoods, such as South Philadelphia and Northern Liberties. PWD has also started to include end of century projections for precipitation and sea level rise into the analyses to better understand which areas of the city become more vulnerable over time.

South Philadelphia

In FY26, PWD completed the design for modifying the D67 regulating chamber for the Moore Street Storm Flood Relief (SFR) Project (Work Number 40586). The project originally involved the construction of 8' x 12' reinforced concrete box sewers that drain to the Delaware River. However, PWD's refined modeling methodology at the parcel level demonstrated fewer net benefits associated with constructing the box sewers compared to modifying the regulating chamber. The project is scheduled to be advertised for bid in FY27.

Northern Liberties

SFR sewer projects were initiated in the Northern Liberties neighborhood to reduce flood risk in the combined sewer neighborhoods of Northern Liberties, Fishtown, Port Richmond, and Lower Kensington. **Table 2** demonstrates the status of the Northern Liberties SFR program at the end of FY26.

Table 2:Northern Liberties SFR Sewer Improvement Projects

Project Name	Location	Project Status
Northern Liberties Phase 1	Delaware Avenue and Laurel Street	Construction Complete (2011)
Northern Liberties Phase 2	Canal Street Chamber	Construction Complete (2016)
Northern Liberties Phase 3	Delaware Ave to River (Undertaken by Sugar House)	Construction Complete (2016)
Northern Liberties Phase 4	Canal & Laurel Sts. to Germantown Ave. &Wildey St.	Construction Complete (2016)
Northern Liberties Phase 5	Germantown Ave. from Wildey St. to Girard Ave.	Construction Completed (2022)
Northern Liberties Phase 6	Germantown Ave. & Thompson St. to Master & Randolph Sts.	Construction Started (Nov 2025)

Germantown

The East Germantown section of Philadelphia has been impacted by flooding from intense rainstorms, such as Hurricane Irene (8/27/11) and Tropical Storm Lee (9/7/11). PWD has completed the design of the N. 21st Street Sewer Improvement Project which aims to reduce residual flooding in this area by increasing the diameter of the sewer from 4'0" brick to 72" RCP. The project started construction in February 2026.

Wingohocking Creek Wet Weather Tunnel

The 3-year study of the Wingohocking Creek Wet Weather Tunnel started in July 2025. The study focuses on hydraulic optimization, community and stakeholder engagement, geotechnical studies, and the evaluation of regulatory impacts. Over the past year, a committee of internal subject matter experts have met monthly to review and discuss deliverables on collector system characterization, community engagement, CSO control sensitivity, and diversion chamber layouts and locations. In FY27 the focus will include flood risk mitigation studies.

Eastwick

The Eastwick neighborhood is in a naturally low-lying area in southwest Philadelphia. The neighborhood has experienced severe riverine flooding from multiple storms including Hurricane Floyd, Hurricane Irene, Tropical Storm Lee, and Hurricane Isaias. The City of Philadelphia, acting through PWD, executed the Federal Cost Share Agreement in May 2019 to move forward with the feasibility study through the Continuing Authorities Program. The United States Army Corps of Engineers (USACE) completed the draft feasibility study in August 2023. The draft report outlines a 'Tentatively Selected Plan,' which includes an approximately 1400-foot levee along the left bank of Cobbs Creek within the Eastwick Regional Park and Clearview Landfill. Due to a court ruling on the Ideker Farms case, the USACE headquarters has taken a more conservative approach towards induced flooding impacts. All parcels that are induced by more than 0.1' are required to be considered a taking or buy out which would require the USACE and City Philadelphia to purchase over 500 properties. The project is no longer viable with a Benefit to Cost Ratio (BCA) below 1. PWD and the City's Office of Sustainability have continued to refine the design of HESCO barriers as an interim flood protection measure.

II.B.4 Fully Integrate the Real-Time Control Facility into the Operations of PWD

Real Time Control Evaluation

Several projects were previously evaluated for Real Time Control (RTC); for additional information on these projects, please refer to Section 2.1 Evaluate Real Time Control in LTCP on page 10 of the 1996 Annual CSO Status Report and Section II.B.3.4 Real Time Control Evaluation on page 26 of the CSO-Stormwater FY10 Annual Report. For details regarding the current operational statuses of the City's RTC CSO regulator sites, see **Section II.B.5** below.

There are currently three projects in the Department's design process that are being evaluated for the use of RTC technology:

D-05 CSO Regulator (State Road and Magee Avenue)

Construction of a new D05 chamber will increase the delivery of combined sewer flow to the UDLL system. This chamber modification will help utilize the additional conveyance capacity provided by expansion of the Frankford Creek Crossing project. The new D05 chamber will include real time control and help utilize interceptor capacity efficiently. The construction of the new chamber was completed in 2025, however wire corrosion occurred when low levels of sewer gas seeped into the control panel during construction. In FY26, the sewer gas leak was corrected, and the controls were replaced. The new chamber is operationally complete and undergoing calibration checks.

Thomas Run Relief Sewer (R-01)

The Basis of Design Report for the modification of the Thomas Run relief sewer was completed in March 2026 and the project is currently in the design phase The project is evaluating the potential for this

system to be maximized for in-line storage during wet weather by creating a static dam, a new interceptor connection, and CSO regulator site. Alternatives considered include relocating the outfall to minimize disruption to trees and recreational areas in the Cobbs Creek and combining small sewersheds (C-15 and C-16) into the Thomas Run Relief Sewer catchment.

Southwest Drainage District Regulator Modification (S-20, S-05 and S-26)

The primary project goal is to increase the flow capacity through each regulator to decrease CSO volumes in the Southwest Drainage District.

Evaluation of S-20 will include expansion of the DWO opening at the existing chamber and construction of a new chamber to allow for tidal and storm surge backflow prevention at a location that allows for improved maintenance access. The potential new S-20 chamber location is within an existing ROW on University of Pennsylvania property, which will require coordination with the university.

Evaluation of S-05 and S-26 includes expansion of existing DWO openings within regulating chambers and removal of Brown & Brown regulators.

II.B.5 Operate and Maintain In-Line Collection Storage System Projects Contained within the LTCP

Main Relief

The Main Relief project is operating as designed with a 7.5-foot static dam. The current configuration achieves an overflow reduction of approximately 30 MG annually.

Tacony Creek Park (T-14)

The T-14 storage sewer provides combined sewer overflow capture in the Northeast Drainage District (NEDD). The T-14 storage sewer system typically operates under automated controls to aid in overflow volume reduction during wet weather events, but since late June of 2025, automated controls have not been functioning as normal due to a damaged hydraulic cylinder that controls the pelican gate. It was determined that the damage to the cylinder was too severe to be repaired by Flow Control, so an emergency project was initiated to replace the cylinder and return the site to automatic function. Currently, the project has been awarded and was given Notice to Proceed on June 2, 2026. The pelican gate has been temporarily raised and locked in position at a vertical height of approximately 40 inches until repairs can be made.

Rock Run Relief (R-15)

The Rock Run Relief Sewer provides flood relief to combined sewer areas upstream of regulator T-8 in the Northeast Drainage District (NEDD). An inflatable dam was constructed in the Rock Run Relief Sewer to allow for utilization of in-system storage to retain combined flows during wet weather events. The Rock Run storage facility operated at the full design capacity during FY26.

Computer-Controlled CSO Regulators

PWD has eight computer-controlled CSO regulators that are configured to maximize storage during wet weather. All PWD computer-controlled regulators are in the Northeast drainage district (NEDD). As of FY26, seven of the eight computer-controlled regulator sites have control upgrades installed and were back into service with the completion of upgrades to the computer control system. F-25 is the final computer-controlled CSO regulator site to be upgraded so that all computer-controlled cabinets from D-2 through F-25 will be uniform with the newest PLC and Unity Software.

II.C NMC 3 - Review and Modification of Pretreatment Requirements to Assure CSO Impacts Are Minimized

II.C.1 Expand the Pretreatment Program to Include Significant Industrial Users (SIUs) Whose Facilities Contribute Runoff to the Combined Sewer System

The City of Philadelphia's Pretreatment Program regulates all Significant Industrial Users (SIUs) that discharge into PWD's service area, which includes SIUs in both the separate and combined sewer systems. The City continually reevaluates the Pretreatment Program to determine if improvements can be made. Through annual monitoring and inspection activities, PWD currently regulates 116 SIUs that discharge to the sanitary system. PWD conducts SIU program review and inspections on a calendar year cycle, having inspected all 116 permitted facilities during the 2025 calendar year.

PWD also maintains a website to inform the public and industries of permitting regulations, requirements and other information that may benefit or impact industrial users. Information on the City of Philadelphia's Pretreatment Program and industrial requirements is located at the following web address: water.phila.gov/industrial-waste.

II.C.2 Incorporate Guidance on BMPs for Industrial Stormwater Discharges into Stormwater Management Regulations Guidance

The Philadelphia Stormwater Management Guidance Manual was developed to assist developers in meeting the requirements of the Philadelphia Stormwater Regulations and is updated when necessary to incorporate new information. The current version of the manual is available at https://water.phila.gov/development/stormwater-plan-review/manual/.

Please refer to the MS4 Annual Report **Section F.5.g - Stormwater BMP Handbook and Construction Site BMP Sediment & Erosion Control Checklist** on page 29 for additional information on the updated manual.

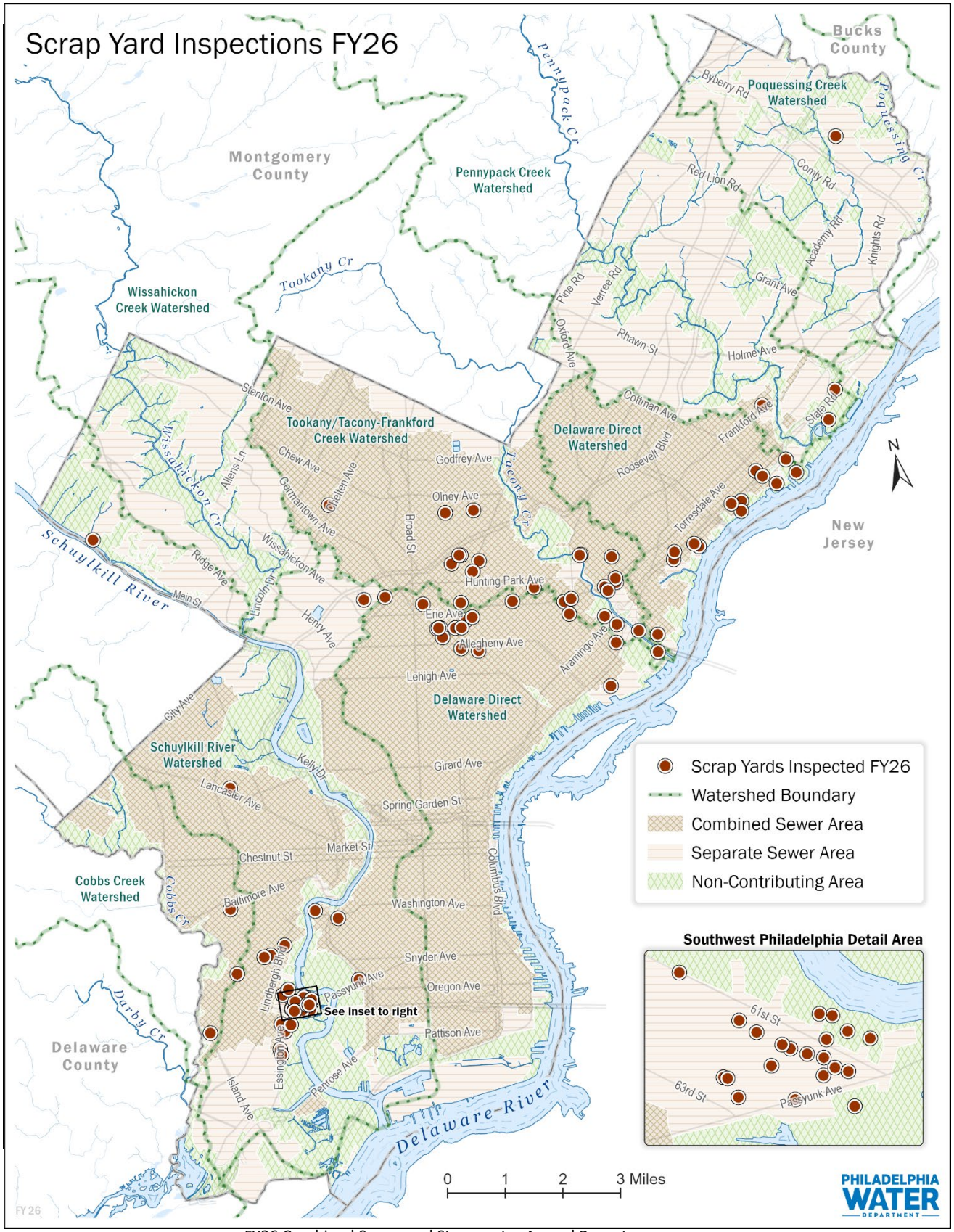
II.C.3 Continue to Serve as a Member of the Philadelphia Inter-Governmental Scrap and Tire Yard Task Force

The Scrap Yard Task Force (SYTF) was created to address numerous complaints about the operation of scrap metal and auto salvage businesses, which may cause polluted runoff to enter the city's sewers, blight in city neighborhoods, and contribute to short dumping and other environmental hazards to area waterways. While the SYTF is no longer formally convening, City and state agencies continue to implement the task force's goal of ensuring businesses conducting metal and auto salvage activities, including tire salvage, are following appropriate regulations. Agencies that continue to be involved on an

as needed basis include PWD, PADEP, Philadelphia Department of Licenses and Inspections (L&I), Philadelphia Police Auto Squad, and the Philadelphia Fire Department Hazmat Administration Unit.

In FY26, the City issued 13 new and 69 renewed Auto Wrecking/ Waste Handling (formally tire storage) licenses, 36 new and 52 renewed Tire Dealer licenses, 28 new and 433 renewed Hazardous Materials licenses, and 15 new and 62 renewed Precious Metal Dealer licenses. In FY26, 132 inspections were conducted at suspected scrapyard facilities, 58 facilities passed inspections, 117 violations were issued, and 43 case files were issued. The locations of the inspections are displayed in **Figure 1: Scrap Yard Sites Inspected in FY26** on page 13.

Figure 1: Scrap Yard Sites Inspected in FY26



II.D NMC 4 - Maximization of Flow to the Publicly Owned Treatment Works (POTW) for Treatment

II.D.1 Continue to Analyze and Implement Non-Capital-Intensive Steps to Maximize the Wet Weather Flow to the POTW

Modified Regulator Plan

The Modified Regulator Plan (MRP) was designed to deliver more flow to the water pollution control plants (WPCPs) more frequently and enable greater pollutant removals. The projected flow increase associated with the MRP was implemented by the submission of the 1997 Annual Combined Sewer Overflow Status Report. Additional plan implementation efforts were included in the Updated Nine Minimum Controls Report which can be found online by accessing the following link: http://water.phila.gov/pool/files/NMC_Report_Final.pdf.

Maximization of Wet Weather Treatment in the LTCPU

PWD operates three Water Pollution Control Plants (WPCPs): the Northeast, Southwest, and Southeast WPCP. The Wet Weather Facility Plan (WWFP), which was submitted on June 1, 2016, provides details on scheduling, cost, and anticipated construction completion for each project. The WWFP is available at the following link: Wet_Weather_Facility_Plan_website.pdf (phila.gov).

II.D.2 Continue the Program Which Requires Flow Reduction Plans in Agreements to Treat Wastewater Flows from Satellite Collection Systems Where Violations of Contractual Limits are Observed

PWD provides wastewater service to some of its neighboring communities. Communities that exceed their contractual limits must develop flow reduction plans, under PWD review. A comprehensive report on the Wholesale Wastewater Customer contracts, flow exceedances, and flow reduction plans are reported in PWD's annual Chapter 94 Wasteload Management report.

Table 3: Listing of Wholesale Wastewater Customer Contracts and Capacities

Customers	Average Annual Daily Flow Maximum (MGD)	Maximum Daily Flow (MGD)	Instantaneous Maximum Rate (Cubic ft./sec)
Northeast Plant			
Abington	3.0	4.5	9.5
Bensalem	6.1	-	11.7
Bucks	24.0	33.0	74.3
Cheltenham	-	-	26.0
Lower Moreland	1.9	2.9	5.9
Lower Southampton	7.1	9.3	15.8
Southwest Plant			
DELCORA	50.0	75.0	155.0
Lower Merion	14.5	-	31.6
Springfield (Erdenheim)	3.2	-	6.7
Upper Darby	17.0	-	35.0

Southeast Plant			
Springfield (Wyndmoor)	1.0	-	1.9

II.D.3 Use Comprehensive Monitoring and Modeling Program to Identify Suburban Communities Where Excessive Rainfall-dependent I/I Appear to be Occurring

The US EPA's SWMM was used to develop the watershed-scale model for the combined and separate sanitary sewer systems. Suburban communities are modeled as separate sanitary sewersheds that load to the PWD sewer network. The rainfall response from these sheds is calibrated to flow monitoring data collected at each respective connection to PWD sewer network (if the sewershed is not monitored then a reference shed is used to obtain the rainfall response). Flow monitors are installed at 64 connections: 45 permanent and 19 temporary. **Appendix B – Flow Monitoring: Table 2** contains the list of all known connections, their location, and whether the connection is permanently monitored.

II.D.4 Maintain and Modify Combined Sewer Collection System/Chambers to send more flow to the POTW

PWD monitors regulating chambers regularly. Issues are identified and addressed as soon as possible. Modifications include the following:

- H-22: The 66" barrel was closed on 5/6/2026 at the O St and Erie Ave Control Chamber to facilitate the construction of the NE PTB. The 78" barrel remains open.
- Rock Run Storage: The DWO gate was locked at 33% open until repairs can be made to the hydraulic control system.
- T-14: DWO gate 2 was set to 35% open on 8/7/2025 to allow for repairs to the electronic controls.
- T-14: The SWO crest gate was propped open at 4' above the diversion dam on 12/8/2025 while the hydraulic control system is repaired.
- S-05: One 6" stop log was added to the diversion dam on 6/2/2026.
- S-10: Two 6" stop logs were added to the diversion dam on 6/7/2026
- S-27: Two 6" stop logs were added to the diversion dam on 5/30/2026

Appendix D – FY26 NPDES Annual CSO Status Report: Table 2 shows the CSO volume, duration, and frequency of overflow events per permitted outfall for the rainfall that fell in FY26 utilizing SWMM 5 model version 2017.B.02.05. Table 3 shows the same statistics as Table 2 but for the typical year rainfall utilizing the SWMM model that supported the Year 10 EAP submitted in May 2022.

II.E NMC 5 - Prohibition of CSOs during Dry Weather

II.E.1 Optimize the Real-Time Control Facility to Identify and Respond to Blockages and (non-chronic) Dry Weather Discharges

Regular inspections, reactive inspections, and maintenance of combined sewer overflow (CSO) regulators are performed throughout the city to ensure that sediment accumulations and/or blockages are identified and corrected immediately to avoid dry weather overflows. PWD utilizes daily a remote monitoring network system to help identify locations showing abnormal flow patterns.

CSO Regulator Inspection & Maintenance Program

PWD maintains 175 CSO regulator chambers with regulator devices that control the diversion of wastewater flow to the interceptor system and 26 storm relief diversion chambers that allow excess flow during storm events to be diverted to storm relief sewers. These chambers discharge through 164 NPDES permitted point sources which make up the CSO outfalls. The maintenance of the chambers is critical to the performance of the system in that they control the frequency, duration, and quantity of CSO discharges.

PWD continues to implement its policy of conducting next day follow-up inspections at sites that experience a dry weather discharge. Ongoing assessment of all inspection scheduling continues to ensure that CSO regulators are inspected at the frequency required to ensure timely response to operational issues and minimize the likelihood of dry weather discharges. During FY26, Flow Control crews completed 4,143 inspections on 201 CSO regulator sites and storm relief diversion chambers. The crews cleared 125 CSO regulator blockages to prevent possible discharges from developing. There were 2 dry weather discharges during FY26. Details of the inspections during FY26 can be found in **Appendix C – FY26 CSO Maintenance Program Annual Report.**

Tide Gate Inspection and Maintenance Program

Tide gates are located at approximately half of the CSO regulator chambers in the City's system and prevent tidal inflow into the combined sewer system from the estuary receiving water body. Maintenance of the 89 gates is critical to system performance because inflow from the receiving water body can adversely affect the combined sewer system and treatment facilities by reducing system capacities, potentially causing dry weather discharges. In FY26, CSO tide gate preventative maintenance was completed 94 times at 17 of the tidally affected CSO regulator sites. Summaries of the tide gate inspection and maintenance completed during the past fiscal year are in **Appendix C – FY26 CSO Maintenance Program Annual Report**, which documents the locations of tide gate preventative maintenance performed in FY26. PWD regularly inspects regulators, pump stations, junction chambers, and sewers which are known to accumulate grit. These sites are scheduled for flushing and vacuuming on an as-needed basis.

Somerset Grit Chamber Cleaning/D-25 Regulating Chamber

The Somerset grit chamber was previously removed from service because the upstream regulator (D-25) was being relocated. This relocation project was completed during FY16. During FY26, PWD cleaned and removed a total of 12.0 tons of debris and grit from the D-25 regulating chamber.

D-37 Regulating Chamber

During FY26, PWD cleaned and removed a total of 55.3 tons of debris and grit from the D-37 regulating chamber.

D-45 Regulating Chamber

During FY26, PWD cleaned and removed a total of 78.9 tons of debris and grit from the D-45 regulating chamber.

Central Schuylkill Pumping Station (CSPS) Grit Pocket Cleaning

During FY26, the two grit pockets at the CSPS siphon were not cleaned due to the rehabilitation of the station and vendor availability. Additional information on the CSPS cleaning activities conducted in FY26 is available in **Appendix C – FY26 CSO Maintenance Program Annual Report.**

II.F NMC 6 - Control of Solid and Floatable Materials in CSOs

II.F.1 Control the Discharge of Solids and Floatables by Cleaning Inlets and Catch Basins

PWD's Inlet Cleaning Unit (ICU) is responsible for inspecting and cleaning stormwater inlets within the city. When fully staffed, there are forty-one inlet cleaning crews whose primary duties include cleaning, removing, and properly disposing of debris (solids and floatables) from inside city inlets as well as street level cleaning in the vicinity of inlets to prevent debris from entering the collection system and waterways. Other duties include inspection of inlet conditions and referral of structural defects to the Sewer Maintenance Unit for repair to ensure proper function. Crews are responsible for cleaning high volume traffic areas, retrieving and installing inlet covers, replacing missing inlet covers, installing locking covers, and unclogging choked inlet traps and outlet pipes so inlets can take water. A high level of focus is placed on responding to customer complaints of flooding, blockages, and foul odors.

During FY26, the ICU was responsible for maintenance of approximately 72,000 stormwater inlets connected to the City's combined and separate storm sewer systems (gray inlets). ICU is also responsible for cleaning pretreatment on stormwater inlets connected to green stormwater infrastructure (green inlets). By the end of the year, ICU was responsible for monthly preventative maintenance of approximately 3,950 green inlets. Fiscal year totals for work on Green Stormwater Infrastructure (GSI)-connected inlets included 20,758 inlet inspections and 20,081 pretreatment cleanings.

Statistics related to the ICU's work productivity during FY26 can be found in **Table 4** below. The quantities for inlets inspected, inlets cleaned, debris removed, and pounds per inlet during FY26 include work conducted at both gray and green inlets. The process of dewatering debris at a central location has increased cleaning efficiency (higher number of inlets cleaned per crew) and decreased the weight of materials taken for disposal.

Table 4: Inlet Cleaning Statistics

	FY26
Total Inlets Inspected	119,082
Total Inlets Cleaned	78,901
Total Covers Replaced	49
Total Covers Retrieved	6
Total Covers Chained	342
Debris Removed (tons)	3,547
Avg. Lbs./ Inlet	90

II.F.2 Continue to Fund and Operate the Waterways Restoration Team (WRT)

PWD's Waterways Restoration Team (WRT) is a multi-crew force dedicated to performing stream examinations, infrastructure protection projects, and cleanup work throughout the city including large trash and debris removal and restoration of eroded streambanks and streambeds. WRT's stream examinations consist of assessing a variety of field conditions including waterway, infrastructure, site

access, and sewage discharge assessments. WRT waterway maintenance work involves debris removal, stream restoration work, and assisting with sewer maintenance work to help provide a safe work environment while protecting stream ecosystems. WRT works in partnership with Philadelphia Parks and Recreation (PPR) staff and various Friends of the Parks groups to maximize resources and build positive relationships with our communities.

During FY26, WRT conducted 279 stream examinations and performed maintenance 452 times. WRT removed a total of 425 tons of debris from the city's waterways (**Table 5**). Of the total debris removed, most of the weight can be attributed to large organic material (e.g., trees) that have fallen into the waterways and restricted flow, thus increasing the potential for bank erosion and/or damage to infrastructure.

Table 5: Waterways Restoration Team – Annual Activity Summary FY22-FY26

Activity	FY22	FY23	FY24	FY25	FY26
Total Tons Removed	525	360	802	739	425
Cars Removed	3	0	0	0	0
Tires Removed	1559	81	166	44	13
Shopping Carts Removed	8	12	11	19	9
# of Stream Site Cleanups	543	520	490	526	452
# of Stream Site Exams	365	279	165	308	279

II.F.3 Continue to Operate and Maintain a Floatables Skimming Vessel

Skimming vessels are one of the control measures to remove floatable material from the Schuylkill and Delaware River. These vessels also increase public awareness and help to educate on the impact of floatables and other debris types to Philadelphia's receiving waterways. PWD skimming program operates weekdays during the boating season (April to November depending on the weather) and uses marine vessels (boats, barges, etc.) to retrieve floating trash and debris from the Schuylkill and Delaware Rivers within Philadelphia.

The current skimming contract serves the role that both the PWD large and smaller skimming vessels owned used to serve. The additional flexibility to the means and methods of conducting skimming operation or waterway debris collection would allow for opportunities to capture more marine debris as the contracts could utilize their existing resources such as barges, cranes, etc. In addition, an additional scope of work was included in the new skimming contract to explore and evaluate new technologies that could improve and innovate waterway debris management and support other boat needs for the City.

During FY26, Skimming Vessel operations took place 161 days during the year, removed over 31.5 tons of trash and debris, including 8.7 tons of recyclables, and 30 tires. Regular maintenance of debris boom at the Flat Rock Dam control structure was added to routine skimming operations, removing 4.8 tons alone this year. The expanded scope of work of contract also allowed the contractor to support other city watershed protection projects including assisting a multi-city agency legacy dumpsite cleanup project along Pennypack Creek that removed over 150.9 tons of trash and debris and restoring appropriate drainage to the creek, supporting tire disposal from cleanups from the John Heinz Wildlife

Refuge and removal of 3 vehicles from various waterways in the city and assisting PWD operations to replace the trash boom dock at the Queen Lane Screen House and observe PWD infrastructure and river (icing) conditions during winter 2026. The expansion of the waterway debris management contract also allowed PWD to support the removal of an abandoned marine vessel on the Delaware River weighing nearly 20 tons in January of 2025.

Table 6: Debris Collected and Days of Skimming Vessel Operation

Date	Total Tons Removed	Cubic Yards Collected	Recyclable Collected (lbs.)	Tires Collected	Days in Operation	Days on Schuylkill	Days on Delaware
July 2025	4.8	27.94	2361	1	22	15	7
August 2025	4.5	19.7	1857	3	21	11	10
September 2025	3.1	17.3	1676.5	1	21	11	10
October 2025	2.7	13.5	1379	7	20	11	9
November 2025	6.0	13.2	1331.5	5	18	13	5
December 2025	0.4	2.3	229	1	4	1.5	2.5
January 2026		Skimming Operation Out of Service for Winter Season					
February 2026							
March 2026							
April 2026	2.0	13.2	2789	5	18	9.5	8.55
May 2026	3.9	13.6	2409.5	4	17	12	5
June 2026	4.1	20.5	2882.5	3	20	15	5.5
Special Projects	157.7	NA		99			
FY26 Total	**189.2 Tons**	**141.4 cuyd**	**17,400 lbs.**	**129**	**161**	**110.5**	**62.5**

II.F.4 Other Floatables Control Activities

Other activities conducted within the City are performed with the intention of managing waste and therefore would capture floatables. These initiatives provide integral components to ensure additional floatables and solids do not enter the city's waterways and surrounding areas. Some of these activities are described below.

One Philly, United City Citywide Cleaning Program and Great American Cleanup

The One Philly United City Citywide Cleaning Program is an initiative led by Office of Clean and Green to collaborate with various City departments, quasi-governmental agencies, and nonprofits to tackle persistent quality-of-life issues such as litter, illegal dumping, graffiti, abandoned vehicles, vacant lots, and nuisance properties. The Sanitation-led cleaning program coordinates with other City agencies to simultaneously address these quality of life issues and clean additional public spaces in each Sanitation district. The program is a comprehensive cleaning strategy that includes two 13-week initiatives in the Spring/Summer and again in the Fall/Winter where cleaning teams work on each route, in all neighborhoods. Litter and trash are most visible on trash and recycling days, so cleaning teams are assigned to a route and scheduled to work a day behind the trash and recycling collection to maximize impact. Each agency will be charged with tracking data and capturing the work performed so the City and partners can have a full view of the results of this effort. All the above initiatives will be mapped and visualized at officeofcleanandgreen.org.

The Citywide Cleanup joined the Greatest American Cleanup movement, led by Keep America Beautiful and Philly250, to remove 25 billion pieces of litter across the country by America's 250th birthday on July 4, 2026. The Greatest American Cleanup inspires environmental stewardship across the country and engages local communities to channel that momentum into action in our streets, parks, and neighborhoods for a cleaner, greener and safer city.

One Philly, United City Illegal Dumping Task Force

In December 2026, the One Philly, United City Illegal Dumping Task Force was established. This task force is a specialized unit dedicated to eliminating illegal dumping across the city. The newly formed task force will operate with a multi-pronged approach, combining proactive surveillance, rapid response cleanup, and stringent enforcement to deter offenders. Streets, Walkways, Education and Enforcement Program (SWEEP) Officers and Park Rangers were specially trained to write Notice of Violations (NOVs) which have higher civil penalties. The Illegal Dumping Task Force members include a robust network of intergovernmental partners, including the Office of Clean and Green, City of Philadelphia Licenses and Inspections, Philadelphia Law Department, Philadelphia Police Department, Philadelphia Parking Authority, Philadelphia Parks & Recreation, Department of Sanitation, Department of Streets, Community Life Improvement Program (CLIP), and the District Attorney's Office. The launch of Philadelphia's Illegal Dumping Task Force marks an important turning point. It suggests that the City is no longer accepting illegal dumping as merely a messy nuisance and is instead treating it as a serious quality-of-life offense warranting the kind of attention often reserved for more visible public safety threats. For residents, this means an opportunity to regain cleaner streets, safer sidewalks, and better neighborhoods. For the City, it is a strategic investment in prevention, enforcement, and accountability

Philadelphia Department of Parks & Recreation illegal dumping initiatives

The Philadelphia Department of Parks and Recreation (PPR) is tasked with protecting over 10,200 acres of public land and waterways, and managing hundreds of recreation, environmental, and cultural centers. Throughout this effort, PPR encounters illegal dumping or short dumping often and thus must devise solutions to prevent and minimize these unwelcome occurrences. In FY26, PPR continued to record the metric from dumping incidents cleanups resulting in PPR working on solutions to implement dumping prevention tactics including physical barriers and surveillance cameras to prevent or discourage illegal dumping.

Green Schools Program: Promoting Recycling and Sustainability

The Green Schools Program administered by the Sanitation Department provides educational materials, activities, and resources to advance recycling and environmental sustainability. During FY26, 32 Philadelphia schools were recognized for leading hands-on efforts to reduce waste, improve neighborhood environments, and build a more sustainable future through this program. Through the Green Schools Program, public, charter, independent, and parochial schools received grants of up to $2,500 to launch projects such as school gardens, composting systems, and recycling initiatives. This year, more than $75,000 supported student-led efforts that are reducing waste and bringing sustainability practices into classrooms, homes, and neighborhoods across the city. By investing in each school, the program seeks to encourage students to be creative, innovative, and unique with projects that benefit recycling, the environment, and the city.

Department of Sanitation

Every year, the Department of Sanitation collects over 610,000 tons of trash and over 80,000 tons of recycling. In addition to mechanically cleaning 410,000 miles of streets. The Philadelphia More Beautiful Committee (PMBC) works with registered block captains to keep City blocks clean and green through organizing clean-up and recognition events and contests, as well as supplying cleaning tools, information, and guidance. Each year, the Department of Sanitation partners with neighborhood block captains to clean streets as part of the Philadelphia More Beautiful Committee Clean Block Program. All 2026 Clean Block events take place on Saturdays, other annual PMBC events include Block Captain Rally, Clean Block Contest, Junior Block Captain FunDay and the Philly Spring Cleanup. Together with 41,968 volunteers, PMBC cleans 6,042 blocks each year.

The Philly Spring Cleanup is a city-wide event in early April that kicks off the cleaning season. Residents, civic organizations, businesses, and nonprofits work together to beautify blocks, remove litter, and spruce up shared spaces like parks, gardens and recreation centers. This event takes place at hundreds of locations across the city. Residents and organizations can register as volunteers or submit projects, including park and neighborhood cleanups. Philly Spring Cleanup is Philadelphia's largest city-wide, single-day clean-up event. Since its 2008 launch, a total of 200,000 volunteers have removed more than 11.4 million pounds of trash and 950,000 pounds of tires from city streets at nearly 6,750 project sites.

Alleygators – Alleyway Cleaning Program

On June 2026, the Office of Clean and Green Initiatives launched AlleyGators, a new initiative designed to provide residents with a dedicated process for requesting alleyway cleaning services while delivering visible results in neighborhoods across the city. AlleyGators is part of the City of Philadelphia's broader cleaning initiative, an effort focused on improving neighborhood cleanliness, enhancing quality of life, and delivering visible improvements in communities throughout Philadelphia. The program focuses on cleaning and clearing alleyways that have become difficult to maintain due to debris, vegetation overgrowth, litter accumulation, and other conditions that affect accessibility and appearance. While the City has previously responded to alleyway cleaning requests through existing channels, AlleyGators formalizes the request process and provides residents with a dedicated way to request assistance.

Taking Care of Business Program

The Taking Care of Business Program (TCB) works with community-based nonprofits to sweep sidewalks and maintain clean commercial corridors across Philadelphia to support the following goals:

1. Maintaining clean commercial districts in Philadelphia neighborhoods
2. Promoting the economic success of neighborhood businesses by creating an inviting environment for patrons
3. Creating work opportunities for Philadelphians
4. 4- Growing the capacity of small local businesses and organizations that provide cleaning services.

The TCB program is managed by the Department of Commerce, who identifies high-need, high-traffic, and high-visibility commercial corridors that would be served by the program. The selected community-based nonprofits identify TCB Cleaning Ambassadors to provide cleaning services to these commercial corridors. Since its inception in 2019, TCB has expanded to include 51 neighborhood organization partnerships that employ more than 400 individuals.

Volunteer Water Adjacent Cleanups

The City has embraced the value of supporting and conducting volunteer water adjacent land-based cleanups with local partners and communities in areas in Philadelphia and the surrounding region. The cleanup events serve as opportunities to provide important information and public outreach about PWD's and the City's programs and how volunteer efforts are beneficial not only on an environmental/ecological standpoint but also helps promote social behavior changes. During FY26, PWD led 10 watershed cleanups, resulting in the removal of 162.9 tons of waste and debris from the environment.

United By Blue Cleanups

PWD partners with United By Blue (UBB), a Philadelphia-based sustainable outdoor apparel company who conducts stream cleanups programs. Part of the UBB business model includes the amiable mission: "For every product sold, United By Blue removes one pound of trash from oceans and waterways through company organized and hosted cleanups." PWD partners with UBB by recommending litter-prone locations that are adjacent to Philadelphia waterways, promoting and supporting volunteer based cleanup events hosted by UBB, and helping coordinate pick up of event collections by PWD, Philadelphia Parks and Recreation (PPR), or the Philadelphia Sanitation Department staff. Much of the work conducted by UBB is often in locations under the purview of PWD's floatables control and pollution prevention programs. Three (3) UBB cleanups were held in 2025, resulting in the removal of 27.5 tons of trash, litter and debris. Since 2016, UBB and PWD have collaborated on 42 cleanups, resulting in 963,177 lbs. of trash and litter being removed from city waterways and parks.

Schuylkill Scrub & Pick Up Pennsylvania

The Schuylkill Scrub is an annual program that encourages and supports cleanup events throughout the entire Schuylkill watershed, from the headwaters in Schuylkill County down to its confluence with the Delaware River in Philadelphia every Spring since 2009. The Schuylkill Action Network coordinates the initiative, along with multiple partners, with a shared goal of cleaning as many miles of road, stream, and parkland in the Schuylkill watershed. Their efforts help prevent trash from making its way into Philadelphia's drinking water sources and keep the City's land and waters clean and litter-free. The Schuylkill Scrub is a part of the Pick Up Pennsylvania initiative coordinated by Keep PA Beautiful, which shares a common goal of working towards the larger goal of cleaning up and beautifying the entire state of Pennsylvania. Free cleanup supplies (trash bags, gloves, and vests) are provided through Keep PA Beautiful courtesy of PennDOT and PA DEP. In addition, in 2026, registered events can have trash and debris disposed of for no cost to event organizers (dumpster drop-off fees or transportation to waste facility is not included) during the month of April because of a donation from the members and landfill owners of the Pennsylvania Waste Industries Association. Pick Up Pennsylvania was very successful in 2025, resulting in:

- 5,255 Cleanup Events
- 80,500 Volunteers
- 6,146,135 Pounds of Materials Recycled
- 4,073,400 Pounds of Trash Disposed
- 7,104 Miles of Roads, Shorelines and Trails Cleaned
- 62,731 Trees, Shrubs, and Flowers Planted
- 35,369 Tires Properly Disposed

Tookany/Tacony-Frankford (TTF) Watershed and Park Maintenance and Stewardship

PWD continues to support more targeted efforts to focus on litter and illegal dumping in the corridors surrounding the Tacony Creek watershed. During FY26, TTF continued to develop its new workforce development program committed to land care and maintenance in Tacony Creek Park. TTF instituted a maintenance regimen to bring the Tacony Creek Park trails up to Circuit Trail standards or as close as possible in certain sections where deferred maintenance has impeded and plagued basic upkeep. This Circuit Trail standard includes keeping the trail swept clear of debris, removing downed trees and branches, cutting vegetation back to 3 ft on both sides of the trail, and elevating low growing trees and branches to 8-10 feet over the trail wherever possible. TTF also conducted trash sweeps, pickups, and emptying the trash cans before and after each weekend, in addition to cleaning up small dumps as soon as they are identified. Another TTF priority of this maintenance regimen includes ensuring park gateways are kept as mowed, cleaned, tidy, and welcoming as possible. During FY26, huge progress was made in transforming the Whitaker Ave Gateway into a welcoming, grassy space free of illegal dumping; this area has already been observed being used much more frequently by the community.

TTF crews have invested over 5,000 hours managing invasive plants throughout the park. TTF maintains the public facing spaces, the trail corridor, as well as less visible but equally important natural areas and legacy restoration sites. This area includes 3.1 miles of trails, 10 gateways and priority areas such as Whitaker Ave Gateway, Adams Avenue Gateway, Bingham Gateway North and South, Fisher's Lane, and "I" and Ramona Gateway. Maintenance responsibilities include mowing between young trees cages, pruning dead and damaged branches, processing deadfall or trees/limbs that fall into these sites, and minimizing pressure from invasive plants and pests.

This year, approximately 1,800 linear feet of Japanese Knotweed have been pruned from the riparian banks and 125 livestakes and 76 shade trees were planted along the riparian corridor. TTF has hired a Trail & Landcare Crew Leader to oversee a team of PowerCorpsPHL staff to support maintenance of Tacony Creek Park and assist in general habitat restoration projects and improving trail and vegetative aesthetics. During FY26, notable stewardship highlights include planting 172 shade trees and small stature trees, removal of 18 hazardous trees and 44 down limbs on the trail, removed over 22 tons of dumped material from Tacony Creek Park, removed 8 dumped vehicles from park within 3 days, installation of 2 new anti-dumping fencing added near Whitaker Gateway, hosting 12 volunteer clean-ups throughout the year with 252 participants for a total of 504 volunteer hours.

Love Your Park

Love Your Park is a collaboration between Fairmount Park Conservancy, PPR, and Philadelphia's Park Friends Network. The groups work together to support communities in active City neighborhood parks and watershed natural areas, with a focus on volunteering. Their flagship events are Love Your Park Week in May and the Love Your Park Fall Service Day in November, when thousands of volunteers support City parks. This year-round Neighborhood Park Stewardship program supports a network of 140 community-run park friends' groups, and our regular volunteer opportunities invite groups and individuals to get involved. These programs continued in 2026, resulting in numerous volunteer events and engaged thousands of volunteers. During these weeks, volunteers helped plant trees, weed and mulch over a thousand existing trees, removed several tons of trash from Philadelphia's parks and waterways, and collected thousands of bags of organic plant debris (like branches and leaves) for composting. Love Your Park continued implementing Love your Park Solo Cleanups, encouraging park users to safely clean up trash and litter individually or with their families as they enjoy Philadelphia parks

this year. Unfortunately, the 2025 and 2026 Love Your Park service events results were not available at the time of reporting.

Friends of the Wissahickon Cleanups

The Wissahickon Creek is a treasure to many Philadelphians and visitors to the area, who are searching for an escape to nature, providing a stunning green space for hiking, biking, and fishing. Wissahickon Valley Park is a huge park that has over 1 million visits per year and is surrounded by busy roads on all sides. The downside of this fantastic accessibility is an accumulation of litter in the park. The Friends of the Wissahickon (FOW) continued to conduct park cleanups within the Wissahickon Valley Park during FY26 including volunteer service days, hosting Corporate & School Groups cleanup and its Wissahero Program, an individual stewardship initiative that was spurred during the early days of the Covid-19 lockdown when this program was the only stewardship options that could be offered.

Tire Roundup Program

The Tire Round-Up Program is a volunteer-driven partnership between the City, block captains and stakeholders that helps to get tires safely off city streets, sidewalks, parks, alleys, and riverbanks, all while raising funds for future community programming. The Tire Round-up program was developed in 1995 to keep illegally dumped tires from entering the waste stream. Tires that make their way into the landfill take approximately 50 to 80 years to decompose. Collecting and properly disposing of tires helps keep neighborhoods clean, removes unsightly and potentially hazardous material, protects the public health and natural environment. To enroll into this program, block captains and community groups must register with the Philadelphia More Beautiful Committee (PMBC), and while program occurs typically in the summer months, PMBC will reimburses registered groups 50 cents for each illegally discarded tire they bring to a drop-off site. Tire Round-Up Program took place occurred again this year during the months of July and August 2026, results of this year's program are still being tabulated.

Philadelphia Hazardous Waste & Special Waste Collection Events

During FY26, the Sanitation Department continued to offer seven (7) Hazardous Household Waste events. For the times and locations of these events, please refer to the MS4 Annual Report **Table 14 - FY26 Household Hazardous Waste Collection Events**. For more information on the hazardous waste program please visit: https://www.phila.gov/services/trash-recycling-city-upkeep/dispose-of-household-hazardous-waste/.

Community Life Improvement Program (CLIP)

The Community Life Improvement Program (CLIP) helps Philadelphians make the City a nicer place to live. CLIP partners with residents, community groups, businesses, other city departments, and agencies to improve the quality of life in our neighborhoods. During FY26, CLIP continued to implement its mission, providing service that included:

- removing graffiti vandalism from buildings, street signs, and other street fixtures.
- enforcing the City's regulations to make sure vacant lots and areas are kept clean,
- Lending supplies and offer trash pickup for CLIP-coordinated neighborhood cleanups,
- providing adult non-violent offenders the opportunity to complete their community service sentences by cleaning and beautifying the city.

The Plastic Bag Ban

Philadelphians use about a billion plastic bags each year. Unless properly disposed of, many of these bags become litter in our streets, waterways, and commercial corridors. The City's the ordinance on single-use plastic bags, originally passed by City Council in December 2019, although due to impacts of COVID-19, the implementation was delayed to beginning July 1, 2021. Philadelphia's plastic bag ban prohibits retail establishments from providing single-use plastic bags and paper bags that do not meet certain requirements. The City issues violation notices for businesses using non-compliant bags. These notices carry a minimum penalty of $150. Each violation of the ordinance is subject to a separate fine. If businesses repeatedly or egregiously violate the ordinance, the City may take them to court and ask the judge to impose additional penalties. Through 2026, City continues to enforce the ban, the ban helped to reduce single-use plastic waste and improve the environmental quality and cleanliness of our city.

Circular Free Property Program

The city has provided property owners and tenants may register their property to request a circular free property decal that will notify to advertisers to not leave circulars, handbills, and other advertising on the registered property. This program would prevent individuals/businesses from leaving unwanted circulars and ads on their property. There is no fee for this service, but applicants must 1) complete a Circular Non-Delivery Decal request form, 2) wait to receive the decal in the mail and 3) affix the decal where it can be seen from the street. In addition, individual businesses can be reported to the Department of Licenses and Inspections (L&I) if property continues to receive circulars, as violators will be issued a code violation for $150. The Circular-Free Property Program continued to be implemented in FY26, the number of applicants requesting the decal this year or the total number of properties registered were not available at the time of reporting. More information on the Circular-Free Property Program can be found here: https://www.phila.gov/services/property-lots-housing/request-a-no-circulars-sticker/

Repair, Rehabilitation, and Expansion of Outfall Debris Grills and Grit Cleanings

Debris grills are maintained regularly at sites where the tide introduces large floating debris into the outfall conduit. This debris can become lodged in a tide gate, causing inflow from the receiving water. Additionally, debris grills provide entry restriction and some degree of floatables control.

Standard operating procedures require the inspection of debris during all regulator inspections unless the outfall is submerged at the time of inspection. During FY26, 114 debris grill maintenance events were completed. The list of the debris grill preventative maintenance activities is available in **Appendix C – FY26 CSO Maintenance Program Annual Report.**

II.G NMC 7 - Pollution Prevention

II.G.1 Continue to Develop and Share a Variety of Public Information Materials Concerning the CSO LTCP

The Public Outreach and Participation conducted in FY26 for the Green City, Clean Waters program has been provided in **Section 7.0 - Public Outreach and Participation** starting on page 28 **of Appendix A – Green City, Clean Waters FY26 Annual Report** and **Section II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications** on page 31 of this report.

II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites

In May 2018, PWD incorporated watershed protection projects and program information onto the City of Philadelphia's official website at https://water.phila.gov/sustainability/watershed-protection/. This provides an alternate channel for PWD customers and the public to learn about watershed protection initiatives. The website contains key plans and reports as well as detailed information on watershed partnerships, planning, public communication, and technology-based planning and assessment tools.

Philly RiverCast

Philly RiverCast (http://www.phillyrivercast.org) is the first operable web-based recreational warning system in the United States. Using near real-time flow, precipitation, and turbidity data, the RiverCast algorithm translates predicted bacteria levels in the non-tidal Schuylkill River from Boathouse Row to Flatrock Dam in Manayunk into one of three ratings, each of which corresponds to suggested guidelines for safe recreation. RiverCast guidelines offer tools for the public to make informed decisions about recreation, and thus helps protect the public against illnesses caused by bacteria. Ultimately, RiverCast helps ensure continued safe recreational use of the non-tidal Schuylkill River, while promoting public awareness of water quality concerns and indirectly engaging support for source water protection measures. More than 1.9 million users have visited the Philly RiverCast website since it launched in June 2005.

Schuylkill Action Network

The Schuylkill Action Network (SAN) was established as a permanent watershed-wide organization charged with identifying problems, prioritizing projects, and securing funding sources to bring about water quality improvements in the Schuylkill River watershed. The SAN is organized into six focused workgroups. One of the workgroups, the SAN Stormwater workgroup, was formed to identify a cost-effective approach to stormwater management through project prioritization and planning. The workgroup is a partnership of representatives from PWD, PADEP, EPA, DRBC, conservation districts, watershed organizations, municipalities, and other water utilities and groups throughout the Schuylkill River watershed. The SAN website supports the SAN's Stormwater Workgroup by providing project and event information, SAN publications, and public messaging about restoring and protecting the Schuylkill River. The SAN Stormwater Workgroup's goal is to prevent or maximize reduction of stormwater runoff pollution. During its more than 20 years of existence, the workgroup has served as an advisory committee for state and local governments, an ordinance review board for municipalities, and a support group for large and small projects throughout the Schuylkill River watershed. During the last year, SAN projects have addressed important pollution sources including agriculture, abandoned mine drainage, and stormwater. Efforts from SAN partners in the last calendar year are included in the following table (**Table 7**):

Table 7: Schuylkill Action Network Partner Progress

	Cumulative Progress of Watershed Partners (2003-2023)	Highlights from CY 2025
Agriculture Workgroup	• Constructed over 200 manure storage facilities • Completed over 200 barnyard or heavy use area construction • Installed over 100 stream crossings • Planted over 700 acres of riparian buffers of agricultural lands • Over 10,000 acres of agricultural lands have best management practices	Nine individual projects across five watersheds (Irish Creek, Hay Creek, Maiden Creek, Cacoosing Creek, Manatawny Creek) completed since fall 2024, resulting in: • Stream Restoration – 2400 linear feet • Riparian Forested Buffer – 20.5 acres • Exclusion Streambank Fencing – 17,036 feet • Pollinator Habitat – 2.5 acres • Wetland Enhancement – 17.8 acres • Rotational Grazing – 5 acres • Crop Rotation – 98 acres • Nitrogen Removal – 8,060 lbs/yr • Phosphorus Removal – 23,180 lbs/yr • Sediment Removal – 12,133 tons/yr Other Ag BMPs across 10 farms total: • Improved manure storage (8 farms) • Improved animal Heavy Use Area (7 farms) • Improved water systems (2 farms) • Improved animal walkways/crossings (2 farms) • Vegetated Treatment Area (1 farm) Total project costs cross 10 farms: $3.18 million
Abandoned Mine Drainage (AMD) Workgroup	• Received over $17M in AMD funding • Reduced annual watershed loadings of iron, aluminum, and manganese • Installed, monitored, and maintained five treatment systems	• Actively maintaining 5 AMD treatment systems • Toured the Pine Knot/Oak Hill Borehole discharges, where mine drainage connects to groundwater. • Workgroup member was awarded an AML/AMD grant in the amount of $379,085 for the Duncott Northeast and Newcastle Treatment Study Project
Stormwater Workgroup	• Engaged over 30 schools in green stormwater infrastructure • SAN has hosted presentations, workshops, and tours for businesses, municipalities, and other professionals	• Welcomed a new co-chair from the City of Reading Public Works. • Led a Reading Stormwater Infrastructure Tour, attended by 15 stormwater management professionals and visiting four sites. • Designed and circulated a membership survey to guide future meetings and goals.
Pathogens & Point Source Workgroup	• SAN has promoted drug takeback events and the Delaware Valley Early Warning System. • SAN has hosted tech transfer presentations and water utility forums for water and wastewater professionals to connect with resources and funding	• Attended and tabled at the annual Berks County Water & Sewer Association, connecting and sharing resources with water utilities in the upper Schuylkill watershed. • Welcomed a new co-chair from Aqua. • Shared data and monitoring strategies related to contaminants of emerging concern.
Engagement &	• Unites environmental education, outreach, recreation, stewardship, and volunteerism in the Schuylkill River Watershed	• Debuted “Big Map” of watershed and corresponding lesson plans that had been tested across age groups.

	Cumulative Progress of Watershed Partners (2003-2023)	Highlights from CY 2025
Stewardship Workgroup	• Coordinates yearly Schuylkill Scrub, a watershed-wide clean up initiative that takes place every spring	• Hosted the Scrub and Pub Cleanup in partnership with Upper Merion Township, removing 3,350 lbs of trash. • Sponsored a Schuylkill Sojourn Scholar, who published an article in the bilingual magazine *Motivos*. • The 2025 Schuylkill Scrub garnered 24,301 volunteers, who removed 74,610 lbs of trash, including 3,615 tires.
Watershed Land Collaborative	• Works towards sustainable landscape through strategic conservation and efficient land use. • Seeks to protect and conserve high-priority lands for drinking water protection, open space preservation, and climate resiliency. • Reinstated in 2024 after a multi-year pause.	• Applied to two grants, PA DCNR C2P2 and DEP Growing Greener, to fund outreach to farmers. • Held three meetings to determine workgroup priorities and strategies following multi-year hiatus.
Schuylkill River Restoration Fund	Since its inception in 2006, the SRRF has awarded over $6M for over 150 projects that have helped restore the Schuylkill Watershed, as well as leveraged over $5M in other funding sources.	In 2026, the SRRF awarded $653,402 to 8 projects in the Schuylkill Watershed.

Since its inception, the SAN has grown to include nearly 350 organizational and individual partners working together to protect the Schuylkill River watershed. To communicate the accomplishments of the SAN Stormwater workgroup to stakeholders as well as other SAN workgroups, the SAN routinely updates their website, http://www.schuylkillwaters.org, with input from PWD, the SAN Planning Committee, and other SAN workgroups. The website was redesigned in 2025 and includes an internal component that allows for improved communication among SAN workgroup members and facilitates on-the-groundwork. The SAN website, together with https://water.phila.gov/, provide data and reports from the source water assessments for the Schuylkill River.

Delaware Valley Early Warning System

The Delaware Valley Early Warning System (EWS) is an integrated monitoring, notification, and communication system designed to provide advanced warning of surface water contamination events to subscribing water suppliers, industrial surface water users and partner government agencies in the Schuylkill and Lower Delaware River Watersheds. The Delaware Valley EWS covers the entire length of the Schuylkill River as well as the Delaware River from the Delaware Water Gap to just below Wilmington, Delaware.

The EWS incorporates a monitoring network of nearly 90 online water quality data stations throughout the watershed. Real-time and historic flow data are applied to a time of travel model that generates a range of estimated arrival times for each intake in the system. This time of travel model is also incorporated into a spill simulation tool that can be used for planning and training purposes.

When a responding agency reports a water quality event via the EWS website or telephone hotline, the entire user base is notified almost instantaneously via email. In the case of a high-risk event, supplemental phone notifications are placed using CodeRed technology, allowing all users to receive an automated telephone notification in less than three minutes. EWS users can log in to the secure website

to view additional event details, spill routing, and predicted arrival times to their intakes. Additionally, a sophisticated tidal modeling component has been developed to better predict and communicate the arrival times of spills on the tidal Delaware River with a user-friendly spill trajectory animation. The EWS received the Governor's Award for Environmental Excellence and is nationally recognized for its use of stakeholder partnerships to meet regional source water protection objectives. In 2016, the EWS was featured as a case study in EPA's publication Online Source Water Quality Monitoring: For Water Quality Surveillance and Response Systems.

In the last couple of years, PWD implemented significant updates to the EWS user interface. Notable updates include full mobile device (smartphone) functionality for the EWS web site, improved mapping and notification features and a new website feature, the Flooding Forecast Viewer (FFV). These updates were presented to EWS users through a series of regional trainings and webinars.

Other PWD Related Websites and Social Media

PWD Main Web Site
water.phila.gov

The official website for the Philadelphia Water Department (PWD) contains comprehensive information about stormwater management for our customers. Resources span from the CSO LTCPU to plain language statements to help the average customer understand the importance of stormwater management.

The pages at water.phila.gov/stormwater received 10,204 pageviews from 8,509 users in FY26. The Stormwater Grants page is geared to non-residential property owners interested in receiving grants to construct stormwater retrofit projects. The Stormwater Grants web page received 1,574 pageviews in FY26.

PWD Parcel Viewer and Stormwater Billing online:
https://stormwater.phila.gov/

The stormwater.phila.gov microsite plays an important role in showing users how their stormwater bill is calculated, how to apply for credits, or how to make appeals. The "parcel viewer" map application is the core of the site. Here, customers can search for a specific parcel or freely explore the map. When a parcel is clicked, data such as gross area, impervious area, and the monthly stormwater charge breakdown, are displayed. Users are encouraged to take actionable steps to reduce the amount of stormwater entering the sewer system and lower their stormwater bills. There were 38,436 pageviews from 5,416 users in FY26.

The primary landing page for Green City, Clean Waters is water.phila.gov/green-city. The page received 2,906 pageviews from 4,905 users in FY26.

Development Review Program Website
https://www.pwdplanreview.org/

Since its deployment in FY16, the use of this site has grown and continues to be one of the most used City websites, a testament to its effectiveness in helping developers to meet Philadelphia's stormwater regulations. There were 93,977 views from 7,404 users in FY26.

Additionally, the development services section of water.phila.gov/ is increasingly hosting information and resources relevant for Plan Review users and had 40,297 views from 25,226 users in FY26.

Web browsers are increasingly allowing users to block trackers, which prevents accurate pageview data from being collected. PWD is exploring other website analytics tools.

For more information on the activities conducted by the Development Review Program please refer to the MS4 Annual Report **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 21.

PWD Department on Social Media

Social media is an essential tool for engaging communities in the development of stormwater infrastructure projects and best practices. These platforms are an important tool for disseminating departmental messaging about stormwater management, pollution prevention, and programs that improve the city's water resources. Social media is also an accessible tool for building and strengthening relationships with partner organizations and community groups.

The sections below describe the City's social media:

@PhillyH2O Blog

The @PhillyH2O Blog (water.phila.gov/blog/) launched in 2018 as a mobile-friendly "rolling collection of stories, tips, and news powered by the people of the Philadelphia Water Department."

The blog is part of a customer priority-focused digital strategy and provides quick access to information residents served by the department can use. The site often acts as a streamlined showcase of messaging campaigns that are amplified by press releases, social media, direct mail, and email.

Posts promote a wide variety of topics, including how to use the Basement Protection Program, which provides free plumbing improvements for those impacted by combined sewer overflows; community input meetings for GSI construction sites and other projects; updates about the progress of *Green City, Clean Waters*, and highlights of current programs and events and relevant partner initiatives. There was a total of 33 posts during FY26.

PWD Customer Contact List

The PWD maintains an extensive distribution list of email addresses. Subscribers to the PWD newsletters receive updates on several topics.

Table 8: PWD Newsletter Subscribers

Newsletter	Subscriber Totals FY26
Customer Assistance Programs	35,068
Events	23,096
Alerts & Notifications	49,045

Water Quality Updates	21,401
Water Revitalization Plan	24,140
Employment	23,710
PWD General News	52,178
Philadelphia Press	2203
Total:	**230,841**

Subscribers in these topics are added through online sign-up builders and collected at public events and meetings.

Communications include information about various PWD programs and services, targeted updates about local projects, and critical notifications for PWD customers, such as rate changes.

Metric goals are based on a 2026 Digital Communications Benchmark Report created by Granicus, a digital civic engagement company for governmental use, and PWD's Granicus Communications system is a product of Granicus. PWD Public Affairs uses the following industry benchmarks: 1) Public Work & Utilities: median open rate of 33% and a median click rate of 6%, and 2) Water Sanitation: median open rate of 35% and a median click rate of 5%.

During FY26 (July 1, 2025 – June 30, 2026), 10,579 bulletins were delivered to 3,138,552 email recipients and 378,748 SMS recipients, reaching a total of 3,517,300 recipients.

The average unique email open rate was 46.9%, the average unique email click rate was 5.2%, and the average unique SMS click rate was 22.4%.

KUBRA E-billing

The Philadelphia Water Revenue Bureau maintains a list of e-billing subscribers. These customers can manage their account online and receive bill information via email.

There were 265,358 e-billing subscribers at the end of FY26. PWD periodically sends email bulletins to these subscribers throughout the year.

Facebook

The Philadelphia Water Department has a Facebook page located at http://www.facebook.com/PhillyH2O. The Fairmount Water Works (FWW) also maintains a Facebook page that extends the reach of departmental messaging. The page can be accessed at https://www.facebook.com/FairmountWW/

- PWD page had 7,780 followers at the end of FY26
- Fairmount Water Works page had approximately 3,144 followers at the end of FY26.

X, formerly known as Twitter

X is a valuable communications channel for resolving customer complaints, providing customer information, and delivering news concerning the department, education, and water in general. The Department also builds connections with national and international peer cities and other stakeholders in the stormwater management field through Twitter. X no longer allows access to analytics without a paid account. As of August 31, 2026, PWD has 13,300 X followers.

Instagram

The Philadelphia Water Department maintains an Instagram account, @PhillyH2O, to share visual information and resources around its services. At the end of FY26, the Instagram account had 9,631 followers.

Nextdoor

Philadelphia Water Department maintains a NextDoor account. At the end of FY26, the account had approximately 361,415 members representing Department customers neighborhoods across the city. The platform has proved a valuable tool for hyper-local outreach. Posts containing detailed information about construction projects supporting the LTCPU are made available to communities directly impacted.

LinkedIn

The Philadelphia Water Department LinkedIn account had a total of more than 9,156 followers at the end of FY26. The Department continued to share both employment-based posts and general information pertaining to the utility and its services.

PWD Department Videos

PWD hosts videos on Vimeo, YouTube, and all social media platforms. Video content provides information about topics including:

- Why infrastructure investment is needed to reduce sewer overflows
- How green and traditional infrastructure protects waterways
- Careers building and maintaining infrastructure, and more.

PWD video content includes animation. While some content is highly produced with support from contracted professionals, videos produced in-house by Public Affairs staff also play an important role in communicating with residents. Videos not shared on social media can be accessed at the following links:

- http://www.vimeo.com/phillywatersheds
- http://www.youtube.com/pwdepartment

During FY26, there were approximately 3907 video views on PWD's Vimeo page

II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications

The PWD develops numerous publications for the public that are distributed throughout the city at advisory committee meetings, public meetings, and other public events, in addition to being distributed through the water/sewer/stormwater bill to PWD customers. The following publications, meetings and events have been shared with and/or involved the public during FY26:

FY26 Media Advisories and Press Releases

2025

- Media Alert: Water Department Annual Customer Survey Now Open (August 5, 2025)
- Press Release: The Water Shed Hosts the EcoFEST Block Party on August 16 (August 6, 2025)

- Press Release: New Phila. Water Rates Effective September 1 (August 27, 2025)
- Media Alert: Letters going to residents showing their water service line records (December 2, 2025)
- Media Alert: Is your home ready for the cold weather season? (December 18, 2025)

2026

- Media Alert: Water Dept. Celebrates New Zinc Orthophosphate System (May 6, 2026)
- Press Release: Water Dept. Celebrates New System at Water Treatment Plant (May 7, 2025)
- Media Alert: Philadelphia Water Department to Host a Biannual Utility and Resource Fair to Help Customers Get Same-Day Support (May 15, 2026)
- Media Alert: Philadelphia Water Department Opens Doors of Treatment Facility to the Public for Annual Summer Open House! (June 5, 2026)

Publications

Annual Consumer Confidence Report of 2025 Water Quality Data, which can be found here: https://water.phila.gov/drops/2025-drinking-water-quality-report/

Bill stuffers - Print and Digital

- Delaware River Festival – August 2025
- Rates Increase – September 2025

II.G.4 Continue to Support the Fairmount Water Works Interpretive Center

In FY26, the Fairmount Water Works Interpretive Center (FWWIC) and partners **hosted over 18,000 individuals in environmental education and outreach events** that featured *Green City, Clean Waters* and/or urban waters themed educational content. FWWIC and its educators offered programming on-site, in the field, in the classroom, and on the water all while working with partners like the Alliance for Watershed Education, Tookany/Tacony-Frankford Watershed Partnership, the Partnership for the Delaware Estuary, the Schuylkill River Development Corporation, Philadelphia Parks & Recreation, and the Philadelphia School District.

Table 9: Fairmount Water Works Interpretive Center – FY26 Education Center Attendance

FWWIC Types of Visitors & Attendance	Visitors
General FWWIC Visitors	4816
School Groups, Camps & Recreational Centers	6862
UUW	2244
Tours	615
Special Events	1572
Outreach Efforts	2426
FY26 Total Visitors	**18,535**

Visitor engagement consisted of organized exterior tours for adults, families and children, ongoing activities with school groups and summer camps, in-classroom presentations on urban watershed issues, treatment plant processes, FWW history, and a well-received art exhibition, *Confluence*, featuring 11 regional artists focusing on both the Delaware and Schuylkill rivers and their active ecosystems. *Confluence*, the Center's 3rd annual exhibition was curated by Thom Duffy Fine Arts (May – July 2025). In

conjunction with *Confluence*, the FWWIC hosted several dance performances, *Bodies of Water*, courtesy of local modern dance company, The Naked Stark. Both the fine arts and performing arts bring new visitors, adults, families and residents to the center to learn more about their local waterways. Outreach efforts also included encouraging teachers and students to participate in the Understanding the Urban Watershed (UUW) middle years curriculum project, with a special emphasis on Mussels in the Classroom, heat island effects, analysis of weather patterns, stormwater management, and ecosystem services.

FWWIC continues to deploy UUW to both teachers and students across Philadelphia. Understanding the Urban Watershed is a cross-disciplinary curriculum for Grades 3 through 12. It is a place-based environmental literacy curriculum that helps students investigate the connections between people, water, and the environment in their local communities. Through authentic field experiences, interdisciplinary learning, and Meaningful Watershed Educational Experiences (MWEEs), students develop the knowledge, skills, and civic awareness needed to understand and address environmental challenges in urban watersheds. Teachers can connect classroom instruction to the real-world systems that shape our communities. By exploring water from scientific, historical, cultural, and civic perspectives, students come to see the watershed as both a natural and human system that influences their daily lives.

This curriculum is aligned with both the School District of Philadelphia's (District) core content and the PA Academic Standards or STEELS (Science, Engineering, Environmental Literacy and Sustainability) with particular focus on the Environmental Literacy and Sustainability (E L and S) standards. UUW is accessible online through a dedicated website: resourcewater.org. The website provides links to instructional materials, resources, videos, and differentiated learning opportunities.

The curriculum is implemented as a partnership program of the School District of Philadelphia's Offices of Teaching and Learning (formerly Curriculum, Instruction and Assessment), and Environmental Management & Services. Part of this ongoing partnership is the design and delivery of a one-week Summer Professional Development Training Institute for School District of Philadelphia Teachers to help them integrate the curriculum in their classrooms. Additionally, ongoing coaching and support throughout the school year is provided with monthly online sessions, periodic in-person professional development and site visits to the schools. The curriculum is an exemplar for goals and targets as outlined in the District's Sustainability Plan, GreenFutures, as well as the Pennsylvania Environmental Literacy Network to advance the E L and S standards.

The curriculum includes shorter topic-related mini-units such as Tree Canopy and Heat Island, and Litter and Flushable Wipes. Additionally, FWWIC received funding to initiate a pilot project in West Philadelphia schools for a live weather stations. These weather stations were installed in schoolyards and are used with the newly developed mini-unit called Sense.Able Schoolyards. It includes learning experiences on data visualization and data literacy as well as ambient conditions related to greening their schoolyard. Once a year students share their discoveries with each other during a culminating Student Summit.The UUW Curriculum offers students, teachers[1], schools[2], and community active learning experiences about the value of water, water systems, and civic action and responsibility. It connects students to Philadelphia and the role they play on their block, in their school, and throughout their city, with a goal to achieve positive local and global impacts through experiential watershed education, and to transform users into stewards and advocates for our shared water resources.

II.H NMC 8 - Public Notification to Ensure that the Public Receives Adequate Notification of CSO Occurrences and CSO Impacts

PWD has developed and will continue to enhance a series of informational brochures and other materials about its CSO discharges and the potential effects these discharges have on the receiving waters. In addition, PWD has enlisted watershed organizations and partnerships to assist in this endeavor to raise the level of citizen awareness about the function of CSO and stormwater outfalls through a variety of educational mediums.

II.H.1 Launch a Proactive Public Notification Program Using Numerous Media Sources

PWD is advancing a proactive public notification program that uses print, internet, outfall signage, and other media to distribute information on the locations of CSOs, information on hazards, and potential public actions.

Other Notification Measures

PWD continues to develop informational materials and maintain websites to educate the public about its CSO discharges and the potential effect on receiving waters. PWD has found that one of the best ways for public notification of CSOs is through the traditional public outreach programs described in NMC7: Pollution Prevention Program, please refer **Section II.G – NMC 7- Pollution Prevention** on page 24.

II.H.2 Expand the Internet-Based Notification System (RiverCast) to the Tidal Section of the Lower Schuylkill River

In order to expand the web-based water quality forecasting system for the Schuylkill River, RiverCast, PWD developed another internet-based notification system called CSOcast in 2008, which reports on the overflow status of outfalls in every CSO shed.

The website is built using the Google Maps API which allows for the dynamic loading of geographically referenced data that can be viewed with a familiar and user-friendly interface. The map is available 24 hours a day and displays the most up-to-date data available. PWD is constantly updating and improving the notification system as well as the flow monitoring network to deliver the best information possible to the public. During FY26, CSOcast had a total of 4,659 pageviews. The CSOcast notification system can be accessed through: https://water.phila.gov/maps/csocast/

I.I NMC 9 - Monitoring to Effectively Characterize CSO Impacts and the Efficacy of CSO Controls

II.I.1 Report on the Status and Effectiveness of Each of the NMCs in the Annual CSO Status Report

The Combined Sewer Management Program Annual Report, combined with the Stormwater Management Program Annual Report, will be submitted in September of each year, documenting the previous fiscal year activities.

III. Implementation of the LTCP

Table 10: Summary of 1997 CSO LTCP Capital Projects

Project	Status
Real Time Control (RTC) Program	
RTC - Main Relief Sewer Storage (R-7 through R-12)	Complete
RTC - Tacony Creek Park Storage (T-14)	Complete
RTC - Rock Run Relief Sewer Storage (R-15)	Complete
Establish RTC Center	Complete
RTC & Flow Optimization (Southwest Main Gravity Interceptor, Cobbs Creek Cut-Off, and Lower Schuylkill West Side)	Complete
Targeted Infiltration/Inflow Reduction Programs	On-Going
Solids & Floatables Control Program	On-Going
85% CSO Capture Pennypack Watershed (P1 through P5)	Complete
Eliminate Outfalls: Dobson's Run Phase I	Complete
Eliminate Outfalls: Dobson's Run Phase II & III	Complete
Eliminate Main & Shurs Overflow (R-20)	Complete
Eliminate 32nd & Thompson Outfall (R-19)	Complete
Collection System Improvements	
Upgrade Frankford Siphon	Complete
Somerset Interceptor Sewer Conveyance Improvements	Complete
Cobbs Creek Low Level Conveyance Improvements	Complete
Cobbs Creek Low Level Control Project	Complete
Water Pollution Control Plant (WPCP) Wet Weather Treatment Maximization Program	Complete

III.A CSO LTCP Update

The full Philadelphia Combined Sewer Overflow LTCPU report can be found at the following address: https://water.phila.gov/green-city/.

Please refer to **Appendix A – Green City, Clean Waters FY26 Annual Report** for an update on the LTCPU implementation progress.

III.B Capital Improvement Projects

Please see **Table 11** – Status updates for 1997 LTCP Capital Improvement Projects on page 38.

Table 11: Status updates for 1997 LTCP Capital Improvement Projects

Project	Status	Update / Reference
Completion and Operation of the Real-time Control Center and Rehabilitate and Maintain the Monitoring Network	Completed in 2003	For details on maintenance of monitoring network please refer to Appendix C – FY26 Program Maintenance Annual Report.
WPCP Wet Weather Treatment Maximization (NE)	Evaluated and implemented options from the Jan. 2000 Stress Testing Report	Refer to Section III.B.1.2 WPCP Wet Weather Treatment Maximization (NE) on page 66 of the CSO-Stormwater FY12 Annual Report
Evaluate Stress Test Report Options in the LTCPU	Completed March 2009 (all three WPCPs)	Refer to Section III.B.1.2.1 Evaluate Stress Test Report Options in the LTCPU on page 69 of the CSO-Stormwater FY12 Annual Report
Implement Options 1, 2, and 4 from the Stress Test Report (NE)	Completed January 2006	Refer to Section III.B.1.3.2 Implement Options 1, 2, and 4 from the Stress Test Report on page 91 in the CSO-Stormwater FY10 Annual Report.
Plan, Design, and Construct Options 5 & 7 of the Stress Test Report to Increase the Secondary Plant Capacity to 435 MGD	Completed February and August 2012	Refer to Section III.B.1.2.3 Plan, Design, and Construct Options 2 & 6 from the Stress Test Report on page 70 in the CSO-Stormwater FY 2012 Annual Report.
Explore increasing the preliminary treatment, primary treatment, and final effluent disinfection treatment capacities in excess of the existing secondary treatment capacity at the NE WPCP	Plan was originally submitted to the PADEP on June 1, 2013. The NE Facility Concept Plan (FCP) was revised based on comments from PADEP and re-submitted on December 31, 2013.	PWD operates three Water Pollution Control Plants (WPCPs): the Northeast, Southwest, and Southeast WPCP. The Wet Weather Facility Plan (WWFP), which was submitted on June 1, 2016, provides details on scheduling, cost, and anticipated construction completion for each project. The WWFP is available at the following link: http://water.phila.gov/pool/Wet_Weather_Facility_Plan_website.pdf
Initiate the Facility Planning and Design for the By-pass Conduit	PADEP approved on April 1, 2009, the bypass of secondary treatment for 100 MGD of additional wet weather flow at NE WPCP	As described in the LTCPU, PWD committed to the expansion of the NE WPCP to include a 215 million gallon/day secondary treatment bypass. PWD proceeded with a design and the bypass of the plant secondary processes for total plant flows that exceed 435 MGD is currently under construction. Project renamed as NEWPCP High Flow Management System.
Report to the DEP the Status of these Projects in the Annual Status Reports when Major Work Elements Are Completed	As Necessary	The CSO Annual Report continues to include information in the WPCP wet weather treatment maximization at the NE WPCP
85% Capture (NE) - 85% Flow Capture Technical Report	August 2008	Refer to Section III.B.1.3 85% Capture (NE) on page 71 of the CSO-Stormwater FY 2012 Annual Report.
In-Line System Storage Projects (NE)	N/A	Reported on in Section II.B.5 Operate and Maintain In-line Collection Storage System Projects Contained Within the LTCP of this report, starting on page 11.

Project	Status	Update / Reference
Implementation of the Southwest Plant Stress Test Report Option 1	Option 1, to inspect and repair leaking weirs and concrete surfaces in the final sedimentation tanks at the Southwest Plant, was completed in April of 2002	Option 1 and other improvements were also discussed in further detail within the Facility Concept Plan for the Southwest Water Pollution Control Plant that was submitted to the PADEP on June 1, 2013. This plan is available on-line through the following website: https://water.phila.gov/pool/files/SW-Facility-Concept-Plan-Final_FINAL.pdf
Real Time Control (RTC) and Flow Optimization for the Southwest Drainage (SW) - Implementation of Projects for Real Time Control (RTC) and Flow Optimization for the Southwest Drainage District	Completed April 2010	Refer to Section III.B.1.8 Real Time Control and Flow Optimization for the Southwest Drainage on page 74 of the CSO-Stormwater FY12 Annual Report.
RTC/Main Relief Sewer Storage (SW) - Construction and Implementation of Main Relief Sewer Storage and Real-time Control	Please see Section II.B.5 Main Relief on page 11 of this report for status	Refer to Section II.B.5 Main Relief on page 11 of this report
Eliminate CSO/Dobson Run Project (SW) - Construction and Implementation of the Dobson's Run Project	Phases I completed in 1998; Phases II and III were completed by 2011.	Refer to Section III.B.1.10 Eliminate CSO/Dobson's Run Project on page 95 of the CSO-Stormwater FY11 Annual Report
Eliminate CSO/Main and Shurs Off-Line Storage (SW) - Construction and Implementation of the Main and Shurs Off-line Storage Project	Please see Section III.B.1 below for status	Please see Section III.B.1 below for update

III.B.1 1997 LTCP Capital Improvement Projects

Eliminate CSO/Main and Shurs Off-Line Storage (SW) - Construction and Implementation of the Main and Shurs Off-line Storage Project

The Upper Schuylkill East Side Interceptor Sewer (USES) is located along the Schuylkill River adjacent to the Manayunk Canal in the northwest section of Philadelphia. It conveys sewage from collection systems which serve the northwest section of the city. During extreme wet weather events, the USES exceeded its capacity and overflows occurred at relief point R-20 into a storm sewer upstream of storm water outfall S-052-5. To abate the hydraulic overload conditions in the USES, PWD finished construction of a 4 MG offline storage tank in May of 2013, which captures and stores excess flows. The tank serves to eliminate surcharges and prevent overflow conditions at the R-20 relief location.

The Venice Island Storage Facility is currently in service and operating as designed. In FY26, the facility captured stormwater from 11 major storms. The total captured volume was approximately 4.46 MG of sanitary wastewater. The weir elevation at the R-20 relief window remained at 65 inches during FY26.

Grit accumulation is a known USES issue that reduces interceptor capacity and the effectiveness of the Venice Island storage tank. PWD performs periodic grit surveys of the USES to better understand grit type and accumulation frequency. PWD performed a sonar inspection on the lower reach of the USES interceptor in FY19 which showed minimal grit deposition at that time. Routine level trending of the R-20 interceptor sensor indicated that grit deposition was not enough to warrant an interceptor cleaning during FY26. PWD will continue to track grit deposition in the USES and results from the on-going sonar inspection will guide PWD's future interceptor cleaning efforts. By taking a proactive approach, PWD can schedule flushing and sewer cleaning to maximize capacity of the interceptor and the Venice Island storage tank's effectiveness.

III.B.2 New Capital Improvement Projects to be Included in LTCPU

Please see **Table 12** – Status updates for New Capital Improvement Projects to be included in LTCPU on page 39.

Table 12: Status updates for New Capital Improvement Projects to be Included in LTCPU

Project	Status	Update / Reference
Asset and Capacity Management Program		
Geographic Information System	Ongoing	Refer to Section II.A.1 Implement a Comprehensive Geographic Information System (GIS) of the City sewer system on page 6
Sewer Assessment Program	Ongoing	Refer to Section II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP) on page 6
Monitoring and Modeling Program	Ongoing	Refer to II.B.1 Continue to Institutionalize a Comprehensive Monitoring and Modeling Program on page 7
Inflow/Infiltration (I/I) Controls		
Tide Inflow	Completed in 1999	PWD continues to inspect and maintain all tide gates to ensure their correct performance. Refer to Section 2.1.2 Corrective Actions – Tide Inflow on page 28 of the 2001 CSO Annual Status Report
Sewer Assessment Program		Refer to Section II.A.2 Implement a Comprehensive Sewer Assessment Program (SAP) on page 6 of this report
Infrastructure Assessments	Completed in 2008; PWD continues to monitor and inspect for problem areas	Refer to Section III.B.2.2 Infrastructure Assessments on page 82 of the CSO-Stormwater FY08 Annual Report
Interceptor Relining	• Cobbs Creek Interceptor (CC) – Ongoing (~90% Complete) • Tacony Creek Interceptor (TC) – Ongoing (~65% Complete)	• CC – Phase 2 – In Construction ~ 5,100 ft. • TC – Phase 4 – In Construction ~ 5,825 ft. • TC – Phase 5 – In Construction ~ 6,400 ft.
PC-30 Parallel Relief Sewer	COA stipulations completed on 12/27/11. Operating as designed as of July 2013. Floats installed in FY19.	During FY26, there were no overflow events at manhole PC-0030.
Sewer Separation		
Sewer separation was studied and modeled as one of the options in the LTCPU and deemed cost prohibitive. No large-scale sewer separation projects have been identified or implemented during the reporting period.		
New Storage Facilities		
PWD is continuing to investigate opportunities to construct off-line CSO storage facilities to maximize existing sewer treatment capacity and increase the volume of CSO captured and treated. No new storage facility projects have been implemented during the reporting period.		

III.C Watershed-Based Management - Continue to Apply the Watershed Management Planning Process and Produce and Update the Watershed Implementation Plans

Watershed Alliance of Southeastern Pennsylvania

In 2013, PWD and its designated watershed partnership facilitator, the Pennsylvania Environmental Council (PEC), initiated the Watershed Alliance of Southeastern PA to unite the watershed partnerships in the Philadelphia area. The Alliance members became an integral component of the Upstream Suburban Philadelphia Cluster, part of the Delaware River Watershed Initiative (DRWI), created in 2014. Since 2014, PEC has facilitated DRWI Upstream Suburban Philadelphia partners including watershed groups and academic institutions. This partnership has implemented over 67 stormwater management and watershed restoration capital projects at 46 project locations, and over 230 smaller homeowner stormwater management projects. A Story Map summary of the DRWI Upstream Suburban Philadelphia initiative is available here. The overall effort seeks to improve water quality and manage stormwater where it falls, to benefit Philadelphia area watershed residents both inside and upstream of the City. While this William Penn Foundation DRWI Initiative ended in 2025, PEC continues to promote stormwater management and watershed restoration projects with the Upstream Suburban Philadelphia partner organizations. PEC and watershed organization partners in the Wissahickon, Tookany/Tacony-Frankford, Pennypack, and Poquessing Watersheds are promoting lawn to meadow projects and a training program with PA DCNR and National Fish and Wildlife Foundation grant funding. PEC also supports municipalities with ordinance assessments that focus on reducing barriers to the use of green stormwater infrastructure during land development. A GSI Ordinance Evaluation Guidebook was created for municipalities under a Coastal Zone Management grant.

Implementation Planning - Development of Target Approach for Meeting Goals and Objectives

The culmination of the watershed management planning process often results in an Integrated Watershed Management Plan (IWMP), or a watershed-specific planning document. The process for developing watershed planning documents has evolved and depends on the interests of the partnerships. Table 13 contains the status of the various plans in each of Philadelphia's watersheds. Information on the each of the watersheds and the completed plans can be found at www.phillywatersheds.org/your_watershed. Many of the recommended management options in the TTF and Cobbs Creek IWMPs have been institutionalized a city-wide basis and continue to be implemented.

The watersheds in the MS4 section of the city have undergone a slightly different process. In these watersheds (Pennypack, Poquessing, and Wissahickon), the stakeholder goals and objectives were established through the development of Rivers Conservation Plans and Act 167 Plans. PWD works with the watershed partners through these existing watershed-based planning efforts. Details on the Act 167 Plans can be found in **Section III.C.3.7 Basin-Specific Stormwater Management Plans (ACT 167)** on page 47. The Act 167 process has met PWD's goal to have watershed-wide commitment to the watershed planning process and allows the process to be partner-driven and focused on implementation.

Table 13: Planning by Watershed

Watershed	Preliminary Reconnaissance	Watershed Monitoring Program	River Conservation Plan	Watershed Management Plan	Implementation Commitment Status
Delaware River (tidal, non-tidal)	Monitoring Only		Completed in 2011	PWD continues to work with watershed partners on implementing specific projects.	Philadelphia commitment documented in the LTCPU and its supplements.
Cobbs-Darby Creeks	2003	2003	Darby RCP completed in 2005 by Darby Creek Valley Association	Completed 2004	Philadelphia commitment documented in the LTCPU and its supplements.
Tacony-Frankford Creek	2000/2001	2004	Completed in 2004	Completed 2005	Philadelphia commitment documented in the LTCPU and its supplements.
Pennypack Creek	2002	2007-2008	Completed in 2005	Act 167 Stormwater Management Plan approved in July 2013	Philadelphia is implementing the Act 167 Plan through the Philadelphia Stormwater Management Regulations.
Schuylkill River (tidal, non-tidal)	Monitoring Only		Completed in 2001 by the Academy of Natural Sciences, Natural Lands Trust, and the Conservation Fund	PWD continues to work with watershed partners on implementing specific projects.	Documented in the LTCPU and its supplements.
Poquessing Creek	2001	2008-2009	Completed in 2007	Act 167 Stormwater Management Plan approved August 28, 2013.	Philadelphia is implementing the Act 167 Plan through the Philadelphia Stormwater Management Regulations.
Wissahickon Creek	2001	2005-2006	Completed in 2000 by FPC	Act 167 Stormwater Management Plan approved on July 10, 2015	A Wissahickon TMDL Implementation Plan was submitted in 2012. Implementation plan depends on watershed partnership support for a watershed-wide initiative.

III.C.1 LAND: Wet-Weather Source Control

Watershed management fosters the coordinated implementation of programs to control sources of pollution, reduce polluted runoff, and promote managed growth in the city and surrounding areas, while protecting the region's drinking water supplies, fishing and other recreational activities, and preserving sensitive natural resources such as parks and streams.

PWD is committed to a balanced "land-water-infrastructure" approach to achieve its watershed management and CSO control goals. Where appropriate, this method includes infrastructure-based approaches but focuses on implementation of a range of land-based stormwater management techniques and physical reconstruction of aquatic habitats where appropriate. The goal of PWD's approach is to regain the resources in and around streams that have been lost due to urbanization, both within the City of Philadelphia and in the surrounding counties, while achieving regulatory compliance objectives in a cost-effective manner. Central to all these planning programs is a commitment to greening, sustainability, open space, waterfront revitalization, outdoor recreation, and quality of life.

The wet-weather source controls have been formalized in the LTCPU and its supplements, including the Consent Order and Agreement signed on June 1, 2011, which formally approved the Green City, Clean Waters program. Detailed information on the land-based wet-weather source controls can be found in **Appendix A – Green City, Clean Waters FY26 Annual Report**.

III.C.1.1 Ordinance and Regulations Modifications - Continue to review and revise stormwater management regulations for development and redevelopment

PWD's Stormwater Management Regulations became effective in Philadelphia on January 1, 2006, which provided PWD with an opportunity to ensure development/redevelopment that protects our water resources, reduces neighborhood flooding, and improves the quality of life in our communities. The Stormwater Management Regulations are triggered for most projects that disturb 15,000 or more square feet of earth. Since 2006, the Stormwater Regulations have been periodically updated to improve and strengthen PWD's stormwater programs. For more information on PWD's Regulations, please see the MS4 Annual Report **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 26.

III.C.1.2 Guidance on Stormwater Management Regulations Implementation

PWD staff in charge of Stormwater Regulation implementation are available to the development community to discuss both general questions as well as technical details regarding specific projects. Guidance is provided by PWD staff as it relates to regulatory applicability as well as stormwater management implementation and approach. In addition to in-person meetings, virtual meetings have allowed the Department to be more available to applicants on short notice. PWD staff continue to be available for pre-application meetings and project discussions on demand as needed. Contact information can be found at https://water.phila.gov/development/stormwater-plan-review/.

III.C.1.3 Implementation of Stormwater BMPs and LID - Continue to implement best management and LID demonstration

PWD continues to implement stormwater BMPs and LID, now referred to as Green Stormwater Infrastructure (GSI) through the Green City, Clean Waters program. Please refer **to Appendix A – Green City, Clean Waters FY26 Annual Report** for a detailed description on the City's implementation of GSI during FY26.

III.C.1.4 Catch Basin Control Program - Continue to maintain the trapped inlets

PWD continues to maintain all City-owned inlets and catch basins to ensure they are clear and operating correctly. For a full description of the activities conducted by inlet cleaning programs during FY26, please refer to **Section II.F.1 Control the Discharge of Solids and Floatables by Cleaning Inlets and Catch Basins** on page 16.

III.C.1.5 Impervious Cover Disconnection - Evaluate the feasibility of separating the stormwater runoff from large impervious land tracts for management and direct discharge

PWD evaluates opportunities to separate stormwater runoff from large impervious tracts of land using incentives and regulatory-based approaches. Projects that apply for PWD's grant programs are evaluated for disconnection potential and encouraged to construct connections to available separate storm sewer or private stormwater outfalls where feasible. PWD continues to evaluate opportunities for separating stormwater runoff from large impervious land tracts through private development and incentivized retrofits.

III.C.1.6 Reforestation - Work to implement reforestation demonstration projects to provide additional tree canopy

Green Stormwater Infrastructure Projects

Community greening and tree planting are key component of green stormwater infrastructure and the Green City, Clean Waters plan. PWD has been planting trees as part of the GSI projects. Please refer to **Appendix A – Green City, Clean Waters FY26 Annual Report** for information on trees planted as part of GSI projects implemented in the city.

Philadelphia Parks & Recreation's Tree Planting Initiatives

In 2023 PPR released the Philly Tree Plan, a 10-year strategic plan for the equitable growth and care of Philadelphia's urban forest. The plan outlines 8 goals to increase tree canopy to 30% throughout the city:

- Coordinate support for trees
- Protect the existing and future urban forest
- Grow the urban forest equitably across the city
- Reduce the burden of trees on residents
- Invest in people and communities
- Communicate with residents and improve customer service
- Advocate for communities to benefit from the urban forest
- Celebrate and support the ways communities are engaging with trees

A $12 million US Department of Agriculture grant will help fund the implementation of the plan.

As part of PPR's regular tree planting and give away programs, PPR contracted trees to be planted in the right-of-way in front of properties and on public lands. During FY26, 1,024 street trees were planted through this contract.

PPR's TreePhilly community forestry program directly engages Philadelphians in improving their communities by planting and maintaining trees. In FY26, community organizers on the TreePhilly team distributed 1,307 yard trees for residents to plant on private property and facilitated the planting of 110 street trees along commercial corridors.

III.C.2 Water Ecosystem Restoration and Aesthetics

III.C.2.1 Waterways Restoration Team - Continue the assignment of a dedicated clean-up team to remove cars, shopping carts, and other debris, from CSO receiving waters

During FY26, the Waterways Restoration Team has continued their program which includes removal of cars, shopping carts, and other debris from receiving waters. Please refer to **Section II.F.2 Continue to Fund and Operate the Waterways Restoration Team** on page 17 for information pertaining to the Waterways Restoration Team's activities during FY26.

III.C.2.2 Waterways Restoration Team - Evaluate the capabilities of this crew in performing minor stream bank and bed repair around outfall pipes and to remove debris at these outfalls

During FY26, the Waterways Restoration Team continued their program, which includes conducting minor stream bank and bed repairs around outfalls and removing debris around them. Please refer to **Section II.F.2 Continue to Fund and Operate the Waterways Restoration Team** on page 17 for information pertaining to the Waterways Restoration Team's activities during FY26.

III.C.2.3 Stream Habitat Restoration - Propose and implement demonstration projects to address habitat degradation by engineering the stream channels to modern day flows and directly reconstructing the aquatic habitat

PWD employs natural stream channel design (NSCD) and associated stormwater management BMPs to improve the health of aquatic communities in receiving waters with degraded flow and habitat alterations due to stormwater runoff. For a description of these projects, please see the MS4 Annual Report **Section F.2.Step 3.a – Assess the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15.

III.C.2.4 Wetland Enhancement and Construction

Three stormwater treatment wetlands facilities were designed and implemented to remove pollutants and mitigate peak flows, while providing aesthetic and ecological benefits. For a description of these projects, please refer to the MS4 Annual Report **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15.

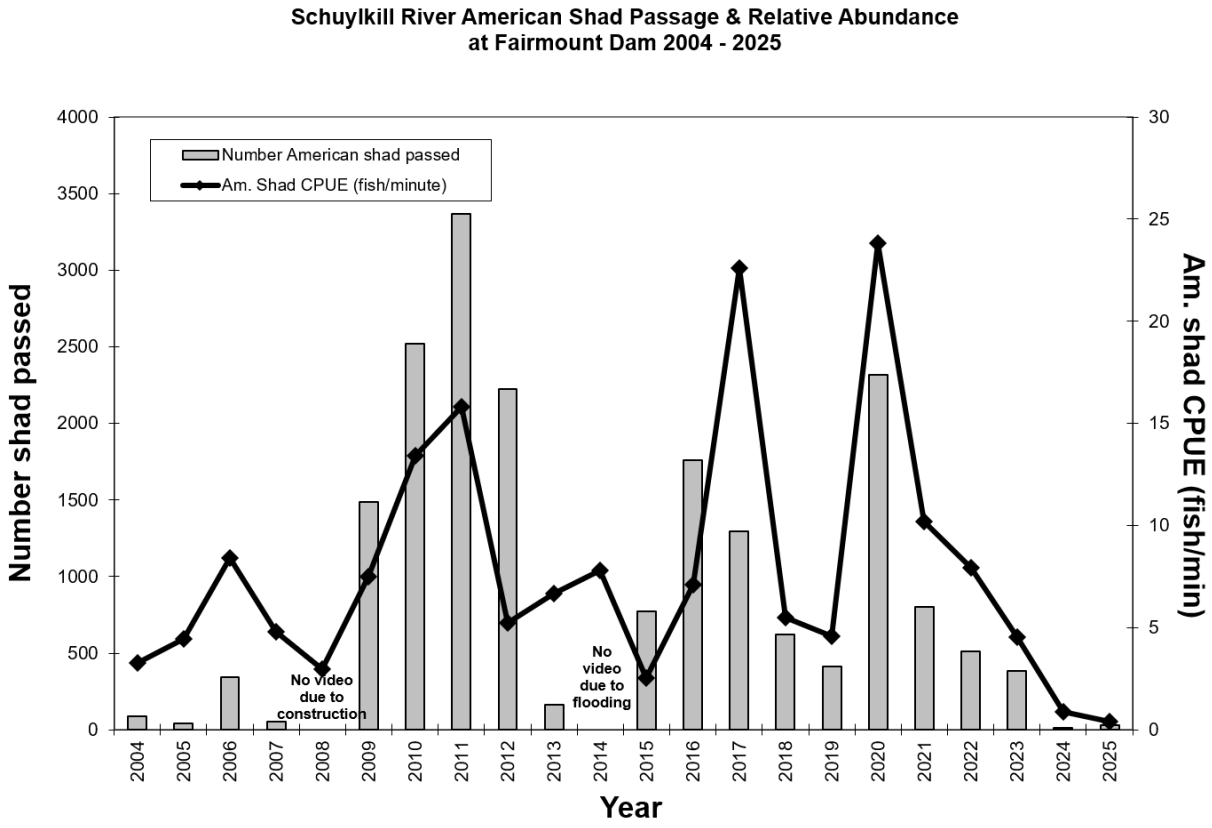
III.C.2.5 Fish Passage Projects

Schuylkill River: Fairmount Fishway

In 2009, through a joint cooperative agreement with the USACE, the City of Philadelphia upgraded many features of the fishway to improve hydraulics and overall fish passage efficiency. Adult American Shad relative abundance (CPUE, number of shad per minute of electrofishing) in the tidal Schuylkill River in 2025, ranked 22nd overall in the time-series (2002-2025). The 2025 CPUE at Fairmount Dam (0.42 shad/minute) was the lowest in the time series (2002 – 2025), and significantly below both the geometric mean (5.56 shad/minute) and the median value (6.09 shad/minute). It should be noted that boat electrofishing survey effort in 2025 (2.86 hours) was well below the time series average (5.1 hours) due to excessive river flows and high turbidity from storms during key sampling dates which required cancellation of electrofishing surveys for several days. The 2025 American Shad passage at Fairmount Fishway returned to actual recorded video counts, following two years of a linear regression model ($y = 1.8104x + 1.0769$; $r^2 = 0.5826$) of electrofishing relative abundance (catch per unit effort CPUE) and shad

passage of multi-decadal time-series data (2004 – 2022) during to COVID years. Adult American Shad passage (n = 29) in 2025 was the second lowest in the time series and ranked 19th overall, falling significantly below the passage arithmetic mean (n = 960) and well below the passage geometric mean of 411 Shad. The Fairmount Fishway remained fully open and operational during the 2025 season, and video monitoring recordings were captured and analyzed. Otolith analysis of adult American Shad returning to the Schuylkill River in 2025 could not be conducted due to poor numbers of returning adults.

Figure 2: Catch-Per-Unit-Effort and Fish Passage of American Shad



III.C.2.6 Riparian Buffer Creation and Enhancement

Environment, Stewardship & Education Division

PWD continues to support Philadelphia Parks and Recreation, which undertakes a broad range of environmental restoration activities throughout the park system. Restoration activities have been ongoing since 2008. These efforts have been discussed in previous years; for more details and a full list of these activities, please refer to Section III.C.2.6 Environment, Stewardship & Education Division on page 121 of the CSO-Stormwater FY12 Annual Report.

Riparian Buffer component of Stream Restoration Projects

Riparian buffer enhancement will be evaluated in all stream restorations that are completed. Typically, riparian buffer enhancement activity includes invasive species management, live-stake planting, native

tree and shrub planting, and native seed mix application. Invasive species management usually begins one to two years prior to construction. Once the construction of the stream restoration project is complete, a landscaping plan is implemented which includes all the applications mentioned above. Please refer to the MS4 Annual Report **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 15 for more information on these topics.

PWD and PP&R Stream Projects Coordination

The PWD and PP&R Stream Projects Coordination Meeting Series (formerly the Natural Lands Team), initiated in 2011, is a group comprised of members from PWD's Ecological Restoration Unit, Waterways Restoration Team, Public Affairs, PWD Design Branch, and staff from Philadelphia's Department of Parks and Recreation. Quarterly meetings are held to coordinate a wide range of projects that affect the city's stream corridors and natural areas. Through centralizing the myriads of ongoing and upcoming projects, this group works to improve efficiency and communication. Projects include but are not limited to stream restoration, wetland creation, stormwater management, infrastructure protection, and invasive species management. During FY26, PWD and PP&R Stream Projects group convened three times to discuss upcoming projects and potential issues that could be addressed by the team members.

III.C.3 Other Watershed Projects

III.C.3.1 River Conservation Plan - Continue to work in partnership with local partners to complete and implement River Conservation Plans (RCPs)

All River Conservation Plans (RCPs) are available for viewing at: https://water.phila.gov/reporting/watershed-plans-reports/ under each respective watershed's key documents.

Table 14: River Conservation Plan References

River Conservation Plans	Complete Date	Previous Reference
Darby Creek	2005	Page 121 of the CSO-Stormwater FY 2008 Annual Report
Tacony-Frankford	2004	Page 74 of the FY 2005 Stormwater Annual Report
Pennypack	2005	Page 122 of the CSO-Stormwater FY 2008 Annual Report
Poquessing	2007	Page 155 of the CSO-Stormwater FY 2010 Report
Delaware Direct	2011	Page 151 of the CSO-Stormwater FY 2011 Annual Report

III.C.3.2 Watershed Information Center - Create a website to serve as a Watershed Information and Technology Center

The City maintains several websites that provide information on our watersheds and activities within them, please refer to **Section II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites** on page 24 and **Section II.H.2 Expand the Internet-Based Notification System (River cast) to the Tidal Section of the Lower Schuylkill River** on page 34 for additional information on the websites.

III.C.3.3 Integrated Water Use Status Networks - Pilot a communication and water quality monitoring network that supports the identification and analysis of water quality events

PWD has two communication and water quality monitoring networks. RiverCast supports the identification and analysis of water quality events to support recreational water use status decisions

(swimming, triathlons, rowing, etc.) and makes this information available in real time to the public. EWS is used to monitor water quality and notify water utilities about such events as hazardous substance spills or sudden changes in water quality.

Please refer to **Section II.G.2 Continue to Maintain Watershed Management and Source Water Protection Partnership Websites** on page 24 for details about these communication and water quality monitoring systems.

III.C.3.4 Integrated Water Use Status Networks - Evaluate the technical and fiscal needs to expand the network into additional receiving waters where recreational uses are taking place.

Please refer to **Section II.H.2 Expand the Internet-based Notification System (RiverCast) to the Tidal Section of the Lower Schuylkill River** on page 34 for information pertaining to this topic.

III.C.3.5 Interpretive Signage - Continue to implement interpretive signage

Green Stormwater Infrastructure and Restoration Locations Signage

Information on the Green City, Clean Waters Signage Program can be found within **Appendix A- Green City, Clean Waters FY26 Annual Report**.

III.C.3.6 Interpretive Centers - Continue to support existing educational interpretive centers to educate citizens about their community and the water environment

PWD supports several existing educational centers including FWW and many public outreach efforts conducted by partners. Please refer to **Section II.G.3 Continue to Provide Annual Information to City Residents about Programs via Traditional PWD Publications** on page 31 and **Section II.G.4 Continue to Support the Fairmount Water Works** on page 32 for more information on activities done in FY26 by the FWW and partner sponsored events.

III.C.3.7 Basin-Specific Stormwater Management Plans (Act 167) - Continue to support the State Act 167 Storm water Management Planning process and integrate the results of these efforts into the watershed management plans and implementation plans

As of July 10, 2015, all Act 167 plans have been approved. Please refer to **Table 12 Planning by Watershed** on page 41 for more information. The reports for each watershed are available to the public through the internet at the following address: http://water.phila.gov/reporting/watershed-plans-reports/.

III.C.3.8 Sewage Facility Planning - Continue to review sewage facility planning modules and downstream sewage conveyance and treatment facilities to ensure that adequate capacity exists within these systems to accommodate flow

During FY26, PWD granted Act 537 approvals for 856 building permit applications for projects within Philadelphia County. During the same period, PWD also issued sanitary sewer capacity certifications for 78 projects within portions of suburban municipalities that are tributary to Philadelphia's conveyance and treatment system.

III.C.4 Monitoring and Assessment

III.C.4.1 NPDES – Quarterly Special Discharge Monitoring Report

PWD is committed to submitting the Quarterly Special Discharge Monitoring Report (DMR) documenting the Department's CSO discharges during the specified time periods. This report is due 45 days after the end of each quarter, and is submitted by February 15, May 15, August 15, and November 15 of each year. During FY26, four DMRs were submitted during the fiscal year. These reports are also referred to as Quarterly Combined Sewer Overflow Status Reports.

III.C.4.2 NPDES - Annual CSO Status Report

Monitoring and characterization of CSO impacts from a combined wastewater collection and treatment system are necessary to document existing conditions and to identify water quality benefits achievable by CSO mitigation measures. The tables included in **Appendix D** and other information provided within this annual report represent the average annual CSO overflow statistics for period July 1, 2025 – June 30, 2026 as required in the NPDES Permit. Please refer to **Table 1 in Appendix D – NPDES Annual CSO Report Status FY26** for a listing of all CSO permitted outfalls. The tables have been organized to present overflows by the specific receiving water into which the CSOs from a given interceptor system discharge. To be consistent, the column headings are presented in the same format found in the System Hydraulic Characterization (SHC) and NMC Documentation.

III.C.4.3 Rotating Basin Approach to Watershed Monitoring - Continue to implement a rotating basin approach to watershed monitoring in CSO receiving waters in order to characterize the impact of CSO discharges and other pollutant/pollution sources and the efficacy of CSO controls and watershed restoration practices.

The Rotating Basin Approach has been replaced with a "Comprehensive Watershed Monitoring Program," a monitoring strategy developed by PWD to comply with both the City's stormwater and CSO permit requirements and to assist with the Source Water Protection Program's objectives. Please refer to **Appendix 4** of the COA report for more details.

Please refer MS4 Annual Report **Section F.2.Step 1.b – Preliminary physical, chemical, and biological quality assessment** on page 8 for information about Comprehensive Watershed Monitoring Program.

STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT

National Pollutant Discharge Elimination System (NPDES) Permit
No. PA 0054712

Reporting Period July 1st 2025 to June 30th 2026



Submitted to:

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Clean Water

And

ENVIRONMENTAL PROTECTION AGENCY – REGION III
Water Protection Division

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Website Glossary

Section #	Section Title	Page	Link
B	Legal Authority	1	https://codelibrary.amlegal.com/codes/philadelphia/latest/overview
		1	https://www.phila.gov/water/wu/ratesregulationsresp/Pages/Regulations.aspx
F.2.Step 1.b	Continuous Water Quality Assessment	11	https://www.usgs.gov/centers/pa-water/science/philadelphia-water-resources-monitoring-program
F.2.Step 1.c	Inventory of Point and Non-Point sources	14	http://www.ahs.dep.pa.gov/eFACTSWeb/default.aspx
F.2.Step 1.d	Preliminary problem assessment	14	http://water.phila.gov/reporting/watershed-plans-reports/
F.2.Step 2	Watershed Plan Development: Permit issuance through end of Year 4	14	https://water.phila.gov/reporting/watershed-plans-reports/
F.5	Monitor and Control Stormwater from Construction Activities	21	https://water.phila.gov/
F.5.b	Post-Construction Stormwater Management in New Development and Redevelopment	25	https://water.phila.gov/regulations/
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Part I Permit Conditions

Section A Applicability and Limitation on Coverage

The City will comply with the permit language on what are authorized and unauthorized stormwater discharges.

Section B Legal Authority

In accordance with the National Pollutant Discharge Elimination System (NPDES) regulations contained in 40 C.F.R. Sections 122.26(d)(1)(ii) and (d)(2)(i), the City maintains adequate legal authority to enforce the Stormwater Management Program through the Philadelphia Code (Code) and the Water Department (PWD) Regulations.

Code Section 13-603 regulates discharges into the storm sewer system and includes penalties for violations. Code Section 13-603(4)(a) grants PWD and the Department of Licenses and Inspections (L&I) the authority to require compliance, including issuing regulations, investigating, inspecting, and monitoring all premises. Under the City's zoning provisions in Code Sections 14-301(10) and 14-704(3), PWD has the authority to regulate stormwater management on a City-wide basis. Code Section 14-306(1) grants PWD and L&I specific enforcement authority for zoning violations. The Code can be accessed at https://codelibrary.amlegal.com/codes/philadelphia/latest/overview.

PWD Regulations further provide PWD legal authority to enforce the Stormwater Management Program. Chapter 5 prohibits cross connected sewer laterals and Chapter 6 implements the authority to regulate stormwater management for new and redevelopment in the City. PWD Regulations can be accessed at https://www.phila.gov/water/wu/ratesregulationsresp/Pages/Regulations.aspx.

This Annual Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) and the US EPA, in accordance with requirements of the City of Philadelphia's NPDES Stormwater Management Permit No. PA 0054712. The report documents the Fiscal Year 2026 (FY26) progress completed in order to comply with the requirements during the reporting period from July 1, 2025 to June 30, 2026.

Section D Sediment Total Maximum Daily Load (TMDL) for Wissahickon Creek

Wissahickon Sediment TMDL Monitoring Plan Implementation

PWD submitted a Wissahickon Siltation TMDL Implementation Plan Update in March 2018. This document includes updates on the 2012 Siltation TMDL Implementation Plan's four components: stream restoration, stormwater wetlands, inlet catch basin cleaning, City of Philadelphia Stormwater Regulations (enacted in January 2006) and the estimated sediment reduction associated with these activities. A more detailed Wissahickon Siltation TMDL Monitoring Report (with appendices) was also submitted in March 2018. The monitoring report includes results from cross-sectional survey analysis of stream restoration projects, photo monitoring, in-stream evaluations of stream restoration structures, and Hydraulic and Hydrologic modeling of stormwater wetlands.

Section E Pollutant Minimization Plan for Polychlorinated Biphenyls in the City's MS4

During the nineteenth year of the PCB PMP, the following tasks were accomplished:

- 137 of the 337 remaining sites listed by EPA or other agencies as housing PCB containing devices were inspected.
- Wet-weather PCB sampling and analysis of the three Water Pollution Control Plants' (WPCPs) effluent was performed as required by the WPCP NPDES permits.
- PWD continued monitoring outlying township connections using EPA Method 680.
- In 2025, PWD continued to require monitoring for PCBs in groundwater permit applications and monthly reporting requirements for all active groundwater permittees. PWD received eleven (11) groundwater applications, and all PCBs results were below the detection limits. One permittee located in the outlying township reported a detection of Arochlor-1260 in January 2025, but an additional sample later that month yielded a non-detection result.
- PWD wet and dry weather WPCP effluent data have been entered into the DRBC PCB database. For more information, please see **Appendix E - PCB PMP 19th Annual Report**.

Additionally, the following initiatives were undertaken:

- PWD's PCB database, developed in 2017, is now being utilized to track and report the 2025 inspections.
- Each inspection location has been given a unique ID and geocoded in PWD's GIS database. Maps of PCB sites inspected in 2025 were created to display inspections by WPCP drainage area.

Section F Stormwater Management

F.1. Source Identification

A description of PWD's MS4 Infrastructure, including stormwater outfalls, lengths of sanitary sewer, and lengths of stormwater sewer within Philadelphia are shown in **Table 1**. The 205 "Non-PWD Owned" outfalls listed in the table are owned by other City agencies, private entities, or individuals. The PWD-owned stormwater outfall locations and MS4 areas are shown in **Figure 1**. PWD continually improves the GIS datasets as new data becomes available.

Table 1: Description of MS4 Infrastructure

Watershed	Drainage Area (Square Miles)	Miles of Pipe			MS4 Outfalls Count	
		Stormwater	Sanitary	Total MS4	PWD Owned	Non-PWD Owned
Darby-Cobbs	-	1.0	0.8	1.8	3	-
Delaware Direct	3.2	79.8	52.7	132.5	18	122
Pennypack	11.7	234.9	234.0	469.0	130	14
Poquessing	8.0	154.7	156.5	311.2	141	19
Schuylkill	8.5	153.4	156.8	310.3	45	47
Tacony	2.5	54.5	59.0	113.5	34	1

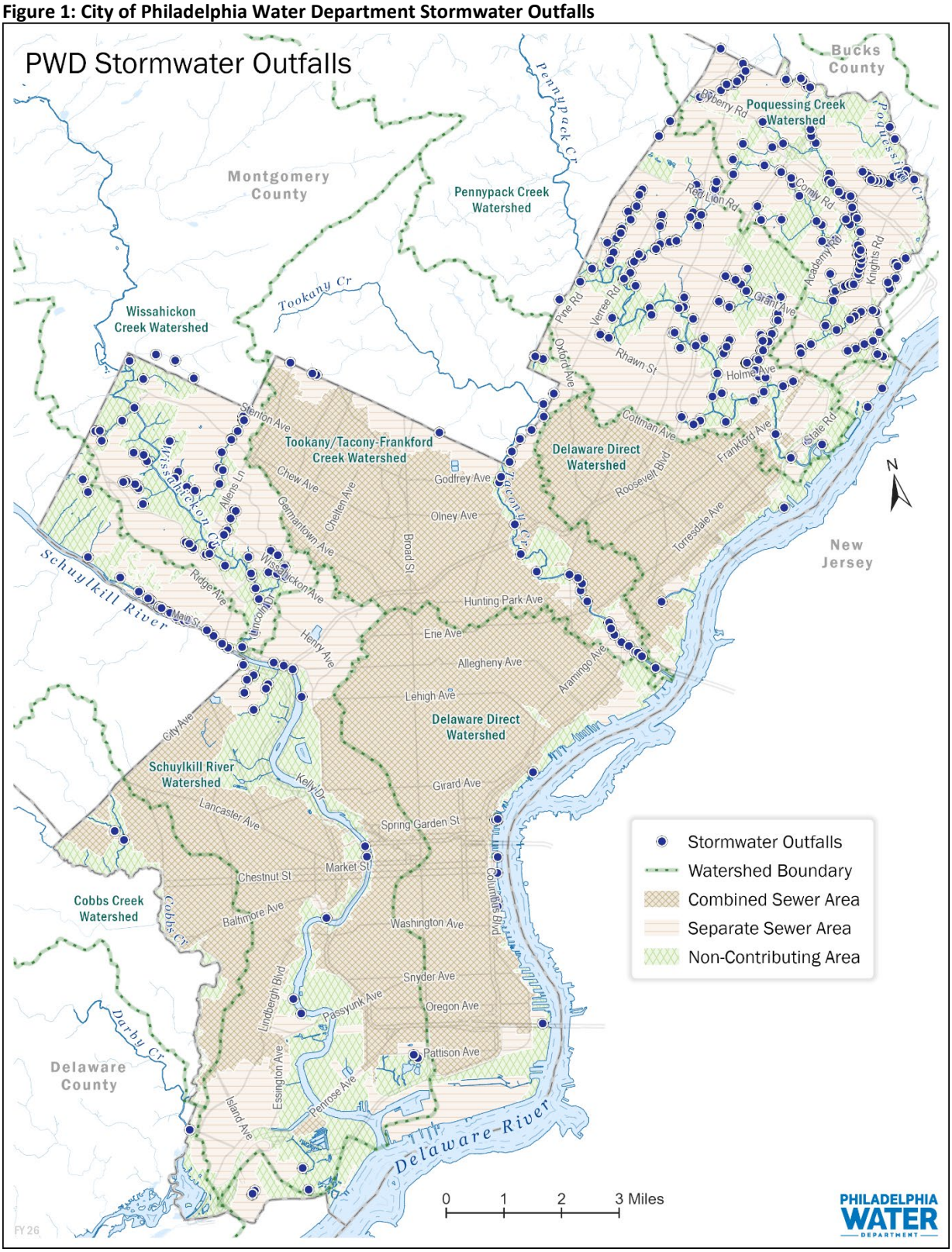
Watershed	Drainage Area (Square Miles)	Miles of Pipe			MS4 Outfalls Count	
		Stormwater	Sanitary	Total MS4	PWD Owned	Non-PWD Owned
Wissahickon	5.8	95.2	104.86	200.0	63	2
Total	**39.5**	**773.5**	**764.7**	**1,538.2**	**434**	**205**

GIS Data Layers have been submitted within an ESRI file geodatabase, **PWD_Annual_Report_GIS_Data_FY26.gdb**. The GIS data feature class file names within the geodatabase are provided in **Table 2**.

Table 2: GIS Data Feature Classes within PWD_Annual_Report_GIS_Data_FY26.gdb

• All_PWD_Monitoring_FY26	• NPDES_Permitted_Dischargers_FY26
• GSI_Monitored_Locations_FY26	• Detention_Basins_Philadelphia
• Public_GSI_Projects_Completed_FY26	• Impervious_Surfaces_Planimetric_2004
• Public_GSI_Projects_Planned_FY26	• Major_Watersheds_Full_Extent
• Pollution_Migration_Events_FY26	• Major_Watersheds_Philadelphia_Clip
• Active_Construction_Sites_FY26	• Sewersheds_FY26
• Verified_Regulations_FY26	• Census_Blocks_2020_Philadelphia
• Verified_Retrofits_FY26	• Census_Tracts_Population_ACS2024
• New_Project_Submissions_FY26	• Stormwater_Outfalls
• Technical_Approvals_FY26	• Stormwater_Outfalls_with_DrainageArea_Summary
• Hydrology_Centerline	• Stormwatersheds_Pennypack
• Hydrology_Polygon	• Stormwatersheds_Poquessing
• Land_Use_PCPC_FY26	• Stormwatersheds_Wissahickon
• PCB_Locations_Known_Historical	• Point_Sources_Wissahickon
	• Scrap_Yard_Inspections_FY26

Figure 1: City of Philadelphia Water Department Stormwater Outfalls



Descriptions of the GIS layers referenced in **Table 2** are provided below:

All_PWD_Monitoring_FY26
This layer presents the locations of PWD's chemical, fish, macroinvertebrate, and algae sampling sites. The contents of this feature class are discussed in **Section F.2.Step.1.b** on page 8.

GSI_Monitored_Locations_FY26
This layer presents the locations of existing green stormwater infrastructure projects actively monitored by PWD in Philadelphia County.

Public_GSI_Projects_Completed_FY26
This layer presents the locations of completed publicly implemented green stormwater infrastructure projects within Philadelphia County.

Public_GSI_Projects_Planned_FY26
This layer presents the locations of planned publicly implemented green stormwater infrastructure projects sorted by their status within Philadelphia County.

Pollution_Migration_Events_FY26
This layer presents the locations of spills documented by PWD Industrial Waste Unit within Philadelphia in FY26. The contents of this layer are discussed in **Section F.7.a – Pollutant Migration/Infiltration to the MS4 System** on page 28.

Active_Construction_Sites_FY26
This layer presents the locations of active construction private development projects tracked by PWD within Philadelphia in FY26. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

Verified_Regulations_FY26
This layer presents the locations of constructed and verified private development projects subjected to stormwater regulations within Philadelphia in FY26. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

Verified_Retrofits_FY26
This layer presents the locations of constructed and verified private retrofit development projects subjected to stormwater regulations within Philadelphia in FY26. The contents of this layer are discussed in **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20.

New_Project_Submissions_FY26
This layer presents the locations of new project submissions for conceptual stormwater plan review in FY26. The contents of this layer are discussed in **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

Technical_Approvals_FY26
This layer presents the locations of projects issued Post-Construction Stormwater Management Plan (PCSMP) by PWD in FY26. The contents of this layer are discussed in **Section F.5.b – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

Hydrology_Centerline
This layer presents the surrounding watershed hydrology in a polyline-based feature class.

Hydrology_Polygon
This layer presents the surrounding watershed hydrology in a polygon-based feature class.

Land_Use_PCPC_FY26
This layer presents Philadelphia land use as ascribed to individual parcel boundaries or units of land. Land use is the type of activity occurring on the land such as residential, commercial, or industrial. Each unit of land is assigned to one of nine major classifications of land use (2-digit codes) and where possible more narrowly defined into one of 70 sub-classifications (3-digit codes).

PCB_Locations_Known_Historical
This layer presents the location of all known and historical PCB locations within Philadelphia. The contents of this layer are discussed in **Section E – Pollutant Minimalization Plan for Polychlorinated Biphenyls in the City's MS4** on page 2.

NPDES_Permitted_Dischargers_FY26
This layer presents the location within Philadelphia of all NPDES Industrial Stormwater permitted dischargers. The contents of this layer are discussed in **Section F.2.Step 1.c** on page 14 and a list of permitted facilities can be found in **Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County.**

Detention_Basins_Philadelphia
This layer presents the location of all known stormwater detention basins within Philadelphia County.

Impervious_Surfaces_Planimetric_2004
This layer presents percent imperviousness and the amount of impervious area in Philadelphia County.

Major_Watersheds_Full_Extent
This layer presents the delineation of the Philadelphia County and surrounding counties' watershed boundaries including Darby-Cobbs, Delaware-Direct, Pennypack, Poquessing, Schuylkill, Tacony-Frankford, and Wissahickon watersheds.

Major_Watersheds_Philadelphia_Clip
This layer presents the delineation of the Philadelphia County's watershed boundaries including Darby-Cobbs, Delaware-Direct, Pennypack, Poquessing, Schuylkill, Tacony-Frankford, and Wissahickon watersheds.

Sewersheds_FY26
This layer presents the boundaries of the separate, combined sewer, un-sewered, non-contributing, and stormwater only areas within Philadelphia County.

Census_Blocks_2020_Philadelphia
This layer presents the results of the 2020 Census in Philadelphia County at the census block level.

Census_Tracts_Population_ACS2024
This layer presents the most recent population estimates for census tracts in Philadelphia as determined by the most recently available US Census Bureau's American Community Survey five-year estimates.

Stormwater_Outfalls
This layer presents locations of all permitted stormwater outfalls within Philadelphia County and the neighboring contributing areas.

Stormwater_Outfalls_with_DrainageArea_Summary
This layer presents locations of all permitted stormwater outfalls within Philadelphia County and the neighboring contributing areas. Drainage area analysis values are appended in the attribute table to display outfall metrics including total drainage area, total impervious drainage area, percent impervious, and runoff coefficient.

Stormwatersheds_Pennypack
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Pennypack Watershed.

Stormwatersheds_Poquessing
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Poquessing Watershed.

Stormwatersheds_Wissahickon
This layer presents the stormwater drainage areas to receiving waterways and stormwater outfalls within the Wissahickon Watershed.

Point_Sources_Wissahickon
This layer presents permitted Point source locations within the Wissahickon Watershed.

Scrap_Yard_Inspections_FY26
This layer presents the locations of scrap yards inspected during the fiscal year. Data was provided to PWD by the Department of Licenses and Inspections.

GIS Stormwater Data Conversion Geodatabase Layers
The City has previously submitted additional GIS data layers that will not be included in the FY26 report. These layers include outfalls, manholes, inlets, and various pipe as listed in **Table 3**. The reason for their removal is the City's policy effective since the FY09 Annual Report to not release these data layers to the public due to security concerns. PWD would make these layers available for viewing, should it be necessary.

Table 3: GIS Data Feature Classes within StormwaterDataConversion.mdb

DataConv_GISAD_stBasin	DataConv_GISAD_stInletPipe
DataConv_GISAD_stBoring	DataConv_GISAD_stMeterChamber
DataConv_GISAD_stCasin	DataConv_GISAD_stOffsetAccess
DataConv_GISAD_stChamber	DataConv_GISAD_stOpenChannel
DataConv_GISAD_stCulvert	DataConv_GISAD_StormNetwork_Junctions
DataConv_GISAD_stDisconnectedInlet	DataConv_GISAD_stOutfall
DataConv_GISAD_stFitting	DataConv_GISAD_stPointFeature
DataConv_GISAD_stFlare	DataConv_GISAD_stPump
DataConv_GISAD_stForceMain	DataConv_GISAD_stRainGauges
DataConv_GISAD_stGravityMain	DataConv_GISAD_stStructure
DataConv_GISAD_stHostPipe	DataConv_GISAD_stTunnel
DataConv_GISAD_stManhole	DataConv_GISAD_stVentPipe
DataConv_GISAD_stManholeOther	DataConv_GISAD_stVirtualLink
DataConv_GISAD_stInlet	DataConv_GISAD_stVirtualNo

F.2. Discharge Management, Characterization, and Watershed-based Assessment and Management Program

Step 1. Preliminary Reconnaissance: Permit Issuance through end of Year 2

a. Land use and resource mapping

PWD has conducted extensive mapping of information relevant to stormwater management planning. Previously discussed in **Section F.1 – Source Identification** of this document on page 2, the GIS layers include MS4 outfalls and contributing drainage areas, land use, population, monitoring locations, and other relevant layers.

b. Preliminary physical, chemical, and biological quality assessment

Comprehensive Watershed Monitoring Program

Comprehensive assessment of Philadelphia's waterways is integral to planning for the long-term health and sustainability of the City's water systems. By measuring all factors that contribute to supporting fishable, swimmable, and drinkable water uses, appropriate management strategies can be developed for each watershed land area that Philadelphia shares.

PWD has carried out extensive sampling and monitoring programs to characterize conditions in seven local watersheds**,** both within the county boundaries and outside counties/municipalities. From 1999 to 2026, PWD implemented a comprehensive watershed assessment strategy, integrating biological, chemical, and physical assessments to provide both quantitative and qualitative information regarding the aquatic integrity of the Philadelphia regional watersheds. This information was published in Comprehensive Characterization Reports (CCRs) and used to plan improvements to watersheds in the Southeast Region of Pennsylvania.

Monitoring Timeline Strategy

Prior to the creation of PWD's Comprehensive Watershed Monitoring Program, baseline assessments were conducted in all Philadelphia regional watersheds to assess the degree, location, and type of impairments occurring within each system. Baseline assessments, encompassing benthic, fish, habitat, and discrete water quality monitoring, were routinely completed on a watershed within one year. With the addition of continuous and wet-weather water quality monitoring, periphyton assessments, and specialized physical assessment programs (e.g., Fluvial Geomorphologic (FGM) assessments), CCRs were typically accomplished on a two-year timeline.

PWD conducted benthic macroinvertebrate and physical habitat monitoring activities at 10 stream monitoring sites in spring and fall 2025 **(Table 4)**.

As described in PWD's *Comprehensive Watershed Monitoring Program: Proposed Strategy 2010-2015*, the scale of watershed stressors is expansive. Therefore, PWD is focusing its monitoring efforts at maintaining a "sentinel" monitoring presence in each of the City's watersheds rather than dedicating monitoring efforts to individual watersheds. This regional monitoring approach has been greatly enhanced through a partnership with the United States Geological Survey (USGS). Continuous water quality data are collected from 12 USGS gaging stations, and quarterly baseflow water samples are analyzed for microbial and nutrient parameters of concern. PWD also continues to assess performance of stormwater BMP projects as they are constructed.

Table 4: Overview of PWD Watershed Monitoring Activities

Watershed/Geographic Area	Activity	Period
PWD/USGS Gages	Continuous Water Quality Monitoring	2010-2026
PWD/USGS Gages	Quarterly Water Quality Grab Samples	2010-2026
Philadelphia Area Watersheds	Stormwater BMP Monitoring	2010-2026
Philadelphia Area Watersheds	Stream Restoration Project Monitoring	2010-2026
Cobbs Creek Watershed	Watershed-wide Comprehensive Assessment	2012-2013, 2021
Tookany-Tacony/Frankford Watershed	Watershed-wide Comprehensive Assessment	2013-2014, 2022
Wissahickon Creek Watershed	Tributary Assessment	2014-2015, 2023
Wissahickon Creek Watershed	Watershed-wide Comprehensive Assessment	2015-2016, 2024
Pennypack Creek Watershed	Tributary Assessment	2016-2017, 2025
Poquessing Creek Watershed	Watershed-wide Comprehensive Assessment	2018-2019
Schuylkill River Watershed	Tributary Assessment	2019

Monitoring Timeline

As described in the *Comprehensive Watershed Monitoring Program: Proposed Strategy 2010-2015*, PWD's current proposed strategy for watershed assessments includes a less intense, but ongoing monitoring effort within each watershed, primarily through a partnership with the USGS. It should be noted that although the monitoring plan nominally covers 2010-2015, the assessments of the Wissahickon, Pennypack and Poquessing watersheds are continuations of that plan and are thus included here. Currently, PWD is focused on monitoring efforts to evaluate the performance of

stormwater BMPs and restoration projects. Allowing 10 years before watershed reassessment will potentially allow for a greater number of projects to be implemented.

The proposed strategy for watershed assessments includes resuming watershed-scale bioassessment activities at several stations within targeted watersheds **(Table 5: Proposed Watershed Monitoring Timeline 2010-2025)**. These watershed scale reassessments should complement the "adaptive management" approach favored by the integrated watershed management plan implementation process and allow for the locations and methods of assessment to be changed, depending upon the number of projects implemented and their spatial distribution within the watershed. It is hoped that these data will be useful as a long-term record of water quality changes in the region, more appropriate for assessing the goals of a citywide distributed green infrastructure program than an approach that focuses on individual watersheds.

Table 5: Proposed Watershed Monitoring Timeline 2010-2025

Watershed	BMP Monitoring	Quarterly WQ Grab sampling	Continuous WQ Monitoring	Annual WQ Summary	Targeted Bioassessment	Targeted Bioassessment Data Analysis
Cobbs	2010-2026	2010-2026	2010-2026	2010-2026	2012, 2021	2012-2013, 2022
Tacony-Frankford	2010-2026	2010-2026	2010-2026	2010-2026	2013, 2022	2013-2014
Wissahickon	2010-2026	2010-2026	2010-2026	2010-2026	2014-2016, 2023-2024	2014-2016, 2023, 2024
Pennypack	2010-2026	2010-2026	2010-2026	2010-2026	2016-2018, 2025	2016-2018
Poquessing	2010-2026	2010-2026	2010-2026	2010-2026	2018	2018-2019

Water Quality Sampling and Monitoring

Guiding Principles of Urban Water Chemistry Assessment

PWD's water quality assessment strategy has been designed to facilitate separate analyses of dry weather (i.e., baseflow) and wet weather water quality conditions. This program has evolved over time, as personnel and technological advancements have improved our abilities to collect more data from an increasing number of sampling locations in a more efficient manner. Automated sampling has greatly increased the temporal resolution of stormwater sampling at multiple sampling locations for a single storm event.

To comply with the State-regulated stormwater permit obligations, PWD worked with USGS to record continuous water quality data at 10 gage stations in the Philadelphia region from July 2025 through November 2025 and March 2026 through June 2026. Four types of sampling were performed as discussed below. Parameters were chosen based on state water quality criteria, or because they are known or suspected to be important in urban watersheds.

Discrete Water Chemistry Assessment

Each USGS/PWD cooperative monitoring gage site was sampled once during the course of a few hours, to allow for travel time and sample processing/preservation. Samples are collected during dry weather

and parameters were chosen based on the conclusions from baseline sampling that indicated dry weather problems are primarily related to bacteria and nutrients. Results of samples collected to date are presented in **Appendix F – PWD Quarterly Dry Weather Water Quality Monitoring Program.** Previous annual reports describe PWD's extensive surface water grab sampling efforts dating back to 2002.

Boat run grab samples were not collected in FY26. PWD has collected 24 samples from the Schuylkill River and 49 samples from the Delaware River by boat since 2011. Results from quarterly dry weather grab sampling thus far are generally similar to data collected during the CCR data collection periods.

Continuous Water Quality Assessment

Each USGS/PWD cooperative monitoring gage site records water quality data for dissolved oxygen, temperature, flow, pH, and specific conductance. Selected locations are also instrumented for turbidity, precipitation, and photosynthetically active radiation (PAR). These data are made available to the public in near real-time on the internet at https://www.usgs.gov/centers/pa-water/science/philadelphia-water-resources-monitoring-program. The monitoring results from FY26 are presented in **Appendix G – PWD-USGS Cooperative Water Quality Monitoring Program Annual Summary**.

Long-term continuous monitoring for TMDL compliance and building a long-term water quality data record for the aforementioned watersheds continued in FY26 through the partnership with the USGS. Results from City-wide continuous monitoring thus far are generally similar to data collected during the CCR data collection periods. For this reason, PWD will re-evaluate whether additional water quality sampling is needed to characterize water quality in targeted watersheds on a case-by-case basis. Continuous water quality instruments will also be utilized in evaluating the performance of certain stormwater BMPs and assessing conditions in tidal portions of the Schuylkill and Delaware Rivers as well as Frankford Creek.

Groundwater Monitoring

A city-wide groundwater level monitoring network provides long-term monthly data documenting current water levels and trends in groundwater elevations throughout the City, helping to track the impacts of widespread implementation of stormwater management practices (SMPs) and global climate change. Data from the groundwater monitoring network may be used to calibrate a Philadelphia groundwater model and update the USGS groundwater contour map of Philadelphia (Paulachok 1984).

PWD and USGS identified existing wells that would be suitable for the network and obtained permission for site access. Once wells were identified and accessible, well condition and suitability for inclusion in the monitoring network were investigated by continuous water level monitoring and remote video camera inspection when accessible. Wells that met acceptance criteria were added to the monitoring network. After examining readily available information about existing wells, PWD elected to drill additional wells to provide better spatial distribution of wells in the monitoring network. Status of the groundwater monitoring network and a summary of data collected through June 30, 2026, are presented in **Appendix H – PWD/USGS Groundwater Monitoring Program**.

Biological Monitoring

The biological monitoring protocols employed by PWD are based on methods developed by the US EPA (Barbour et al. 1999) and the PADEP. These procedures are as follows:

- Rapid Bioassessment Protocol III (Benthic Macroinvertebrate Sampling)
- Periphyton Assessment (Algae Monitoring)

Macroinvertebrate Assessments

As described in the PWD *Comprehensive Watershed Monitoring Program: Proposed Monitoring Strategy 2010-2015*, PWD's approach is intended to be a compromise, recognizing not only the benefits of collecting data from randomly selected sites but also the importance of maintaining a monitoring effort at consistent locations over time. This plan is based on a similar monitoring program that USGS has implemented in Chester County (Reif 2002, Reif 2004). The plan reflects the workforce constraints of collecting and processing samples with the PADEP Instream Comprehensive Evaluation (ICE) protocol. It is hoped that this approach will achieve some of the benefits of a randomized approach, while providing periodic reevaluation of the watersheds required to inform the watershed planning process and comply with environmental mandates **(Table 6: Proposed Benthic Invertebrate Monitoring Timeline 2011-2026).**

Table 6: Proposed Benthic Invertebrate Monitoring Timeline 2011-2026

Period	Monitoring Activity (number of samples*)
2011	USGS gage samples (9); Randomly selected sites (16)
2012	Cobbs Creek (6**); USGS gage samples (9); Random (10)
2013	Tookany/Tacony Creek (10**) USGS gage samples (9); Random (6)
2014	Wissahickon Creek Tributaries (15); USGS gage samples (9); Random (1)
2015	Wissahickon Creek (10**); USGS gage samples (8); Random (4)
2016	Pennypack Creek Tributaries (11**); USGS gage samples (9); Random (5)
2017	Pennypack Creek (12**); USGS gage samples (9); Random (4)
2018	Poquessing Creek (12**); USGS gage samples (9); Random (4)
2019	Schuylkill River Tributaries (3); USGS gage samples (8); Random (3)
2020	USGS gage samples (6); Random (2)
2021	Cobbs Creek (6**); USGS gage samples (9); Random (7)
2022	Tookany/Tacony Creek (10**); USGS gage samples (9); Random (6)
2023	Wissahickon Creek Tributaries (15); USGS gage samples (9); Random (1)
2024	USGS gage samples (9)
2025	USGS gage samples (5); Pennypack Creek Tributaries (3); Random (2)
2026	USGS gage samples (6)

* Number of samples estimated, actual number of samples may vary
** Number of monitoring sites excludes 2 USGS gage sites in target watershed

During 2025, PWD conducted Rapid Bioassessment Protocols (RBP III) at 10 (n=10) locations within Philadelphia area watersheds. Sampling was conducted at 5 USGS gages in the PWD/USGS Cooperative Monitoring program, 3 Pennypack Creek tributary sites, and 2 random sites. These data are presented in

Appendix I – PWD Wadeable Streams Benthic Macroinvertebrate and Physical Habitat Assessments. In spring 2026, PWD sampled six USGS gage sites.

Algae Assessments

Chlorophyll-a measurements may be used to provide information for the parameterization of water quality models. In spring 2016, PWD began a pilot effort to collect continuous chlorophyll-a data at three USGS stations along the Delaware River: 01467200 (Ben Franklin Bridge), 014670261 (Delaware River near Pennypack Woods), and 01463500 (Trenton). In addition, PWD deployed two buoys in the Delaware River (at Pea Patch Island and upstream of the confluence with the Schuylkill River) from March-November. Sondes attached to these buoys monitored continuous chlorophyll-a levels. Bi-weekly grab samples were collected and analyzed at these locations to calibrate the sensors.

Physical Monitoring

Physical Habitat Assessments

Habitat assessments are conducted along with benthic macroinvertebrate monitoring and thus the habitat assessment strategy is described under the heading **Biological Monitoring – Macroinvertebrate Assessments**, above. PWD assesses stream physical habitat condition using PADEP ICE protocols. In spring and fall 2025, PWD conducted physical habitat assessments at 5 USGS gages in the PWD/USGS Cooperative Monitoring program, along with 3 Pennypack Creek tributary sites, and 2 random sites. These data are presented in **Appendix I – PWD Wadeable Stream Benthic Macroinvertebrate and Physical Habitat Assessments**.

Fluvial Geomorphologic (FGM) / Infrastructure Analysis

FGM studies establish the physical attributes of the stream, identify areas of concern, and provide recommendations for rehabilitation of the stream corridors and floodplains. To date, FGM analysis has been conducted on the Darby-Cobbs, Tookany/Tacony-Frankford, Wissahickon, Pennypack, and Poquessing Creeks. Analysis was conducted to characterize channel morphology, disturbance, stability, and habitat parameters as well as to provide a template for hydrologic and hydraulic modeling and serve as a baseline for assessing channel bank and bed changes. Data provided from the FGM analyses will also serve to develop reach rankings within each watershed to prioritize restoration strategies. In FY26, designs were advanced for several stream restoration and riparian infrastructure protection projects throughout Philadelphia's watersheds. Of these, two project designs were completed, and construction of four projects was initiated. These projects will reduce streambank erosion, improve aquatic habitat, and protect critical infrastructure in the stream corridor. For more information, please refer to **Appendix P – FY26 Ecological Restoration Projects.** Planning studies are also being developed by a dedicated stream restoration planning group to identify and prioritize stream restoration and infrastructure protection project opportunities throughout the city's watersheds.

Summary of Monitoring Locations

Biological, physical, and chemical monitoring locations are based on three criteria: 1) appropriate habitat heterogeneity; 2) access availability; and 3) proximity to USGS stream gaging stations and PADEP 305b monitoring sites. In general, the number of monitoring sites is proportional to the size of the drainage and the watershed's link magnitude (i.e., number of 1st order streams). Maps of assessment sites by watershed and program (biological, chemical, or physical) are available as GIS data.

Quality Assurance/Quality Control (QA/QC) and Data Evaluation

PWD has planned and carried out an extensive sampling and monitoring program to characterize conditions in Philadelphia's watersheds. Sampling and monitoring follow the Standard Operating Protocols (SOPs) and Quality Manual as maintained by PWD's Bureau of Laboratory Services (BLS). These documents cover the elements of quality assurance, including field and laboratory procedures, chain of custody, holding times, collection of blanks and duplicates, and health and safety.

The documents are intended to help the program achieve a level of quality assurance and control that is acceptable to regulatory agencies. More information regarding SOPs for chemical and biological assessments is available from BLS.

c. Inventory of Point and Non-Point sources

At the end of FY26, there were 127 NPDES permitted dischargers in Philadelphia County, as shown in **Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County**. This listing was downloaded from the PADEP Environment Facility Compliance Tracking System (eFACTS). The eFACTS website can be accessed through the following link: http://www.ahs.dep.pa.gov/eFACTSWeb/default.aspx.

PWD is also involved in developing estimates of non-point source pollutants. The results of this analysis are described in the hydrologic models in **Section G - Assessment of Controls** on page 38.

d. Preliminary problem assessment

CCRs were completed for the Wissahickon (2007), Pennypack (2009), and the Poquessing (2010) Creek Watersheds. These reports include analysis of data collected over the monitoring period and present a characterization of problems within the watershed. The reports for each watershed are available to the public through the internet at the following address: http://water.phila.gov/reporting/watershed-plans-reports/

Step 2. Watershed Plan Development: Permit issuance through end of Year 4

For information on the status of the Act 167 plans, please refer to the CSO Annual Report **Table 12 - Planning by Watershed** on page 41. Please refer to the City's Watershed Plans at the following address: https://water.phila.gov/reporting/watershed-plans-reports/.

Step 3. Watershed Plan Implementation and Performance Monitoring: Permit issuance through expiration

a. Dry Weather Water Quality and Aesthetics

Operate the Defective Lateral Program

Over the last fiscal year, PWD has continued to successfully operate its Defective Lateral Program. A detailed discussion of this program is provided within this report in **Section F.3 - Detection, Investigation, and Abatement of Illicit Connections and Improper Disposal** on page 17.

Debris removal from waterways impacted by storm water discharges

PWD continues to employ the Waterways Restoration Team (WRT) to remove debris and conduct small scale stream restoration projects within the city's waterways. Please refer to the CSO Annual Report **Section II.F – NMC 6 - Control of Solid and Floatable Materials in CSOs** on page 16 for information about debris removal from waterways impacted by storm water discharges.

Lincoln Drive sewer relining

PWD completed the Lincoln Drive sewer relining in 2004. Additional information on this project was reported previously; please refer to Section F.2.3.a.iii on page 261 of the FY10 CSO-Stormwater Annual Report.

Healthy Living Resources

Develop integrated storm water management plans

PWD developed integrated stormwater management plans for all the city's watersheds. Please refer to the CSO Annual Report in **Section III.C.3.7 - Basin-Specific Stormwater Management Plans (ACT 167)** on page 47 for an explanation of the City's watershed stormwater management plans.

Assess the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach

PWD employs natural stream channel design (NSCD) and associated stormwater management BMPs to improve the health of aquatic communities in receiving waters with degraded flow and habitat alterations due to stormwater runoff. PWD has conducted several projects that have been designed with NSCD that implement a targeted approach to stream restoration to optimize capital funds and ecological uplift. PWD's stream habitat restoration program integrates environmental stressor reduction and streamside sewer asset protection and/or relocation.

As each of PWD's NSCD projects are constructed, PWD realizes the importance of the extensive monitoring and O&M that accompanies such projects. Each project provides the opportunity to learn about what techniques do and do not work in their respective hydrologic and hydraulic regimes. To assess the effectiveness of these NSCD projects, PWD conducts post implementation monitoring at each site that includes the measurement of relevant biological, habitat, and physical parameters to be used in comparison to pre-construction conditions. Additional information on NCSD stream restoration projects is contained in **Appendix P – FY26 Ecological Restoration Projects**.

PWD has also designed and implemented three stormwater treatment wetlands facilities to remove pollutants and mitigate peak flows, while providing aesthetic and ecological benefits. These projects are:

- Saylor's Grove (Construction Completed in 2006)
- Wise's Mill (Construction Completed in 2012)
- Cathedral Run (Construction Completed in 2012)

In total, these three facilities receive and treat stormwater from more than 300 acres of the MS4 service area. These projects were completed as part of PWD's compliance with the Wissahickon Sediment TMDL Implementation Plan. PWD submitted a Wissahickon Siltation TMDL Implementation Plan Update and a Wissahickon Siltation TMDL Monitoring Report (with appendices) in March 2018. PWD staff maintain

project sites as needed. Additional information on these wetlands is provided in **Appendix P – FY26 Ecological Restoration Projects**.

Wet Weather Water Quality and Quantity

Implement several BMP projects

PWD and its partners have implemented many BMP projects throughout the city including GSI, stream restoration, and wetland creation projects. For more information refer to **Section F.5.c Applications/Permits** on page 26 of this report. For a complete listing of both completed and current GSI projects in the combined sewer system (CSS), please refer to the **Appendix A - Green City, Clean Waters FY26 Annual Report**.

Monitor three demonstration BMPs

PWD is committed to ensuring stormwater BMPs owned and operated by the City are maintained. This commitment is often evaluated through monitoring of these sites. PWD is currently monitoring multiple stormwater BMP project types – for example, stormwater tree trenches, stormwater planters, and porous pavement – and continues to develop and improve monitoring protocols. Monitoring activities for PWD's green stormwater infrastructure projects during FY26 are documented within **Appendix A - Green City, Clean Waters FY26 Annual Report Section: Appendix 4 - GSI Monitoring Status Report**. PWD has detailed activities conducted during FY26 for PWD's stream restoration, and wetland creation; please refer to the **Natural Stream Channel Design (NSCD)** section above.

F.3 Detection, Investigation, and Abatement of Illicit Connection and Improper Disposal

Since 1994, The City of Philadelphia has operated the Illicit Discharge Detection & Elimination (IDDE) program. Identification, abatement, and prevention of illicit discharges spans across several units and teams within the City and Philadelphia Water Department (PWD). While these activities are performed by multiple teams, they are interdependent on one another and function simultaneously. In 2020, PWD formed a working group to review and assess the current program for improvements and workflow efficiencies.

The Industrial Waste Unit (IWU) is responsible for inspecting all MS4 outfalls during dry weather and collecting samples if flow is present at the outfall. These samples are then analyzed by PWD's Bureau of Laboratory Services (BLS) for the presence of fluoride and total fecal coliform. PWD uses these sampling results to identify priority outfall sheds for investigative trackback efforts. The annual reports historically focused on priority outfall sheds described in the 1998 COA and the 2005 MS4 permit, however, PWD has been proactively investigating additional priority work areas based on the current best available data and that work is included in this report as well.

PWD operates the defective connections group (DCG), a team tasked with identifying defective laterals in the MS4. This work is generally informed by the results of IWU's dry weather outfall sampling and referrals. DCG typically works its way up a sewershed, starting at the outfall, to determine which blocks have potential issues with dry weather discharge. DCG can identify defective laterals by conducting dye testing at fresh air inlets along with testing fixtures at individual properties. Once a cross connection is identified, the case is referred to PWD's Plumbing Repairs Unit (PRU) which takes the appropriate steps to abate the cross connection.

In addition to the cross-connection trackback and repair program, the City works in parallel to abate other potential sources of illicit discharge. For example, sewer chokes may cause capacity and overflow issues where storm and sanitary sewers interact. Correction of such issues is another way PWD works to abate illicit discharge into receiving waters. While infrastructure maintenance contributes to the City's overall IDDE strategy, this section focuses on reporting on progress made through the cross-connection identification and repair program.

a. Prevention of Illicit Discharges

Sewer and Lateral Inspections

The City requires plumbing permits and inspections of the plumbing work performed for connections to the municipal sewer system. PWD reviewed and inspected 1,098 new sewer and storm connections during FY26. This number reflects all new connections & repairs inspected in both the CSO as well as the MS4 including abatements but does not include any work done by the PRU related to Help Loans / Cross Connections. A single project or permit may also have one connection or multiple connections.

b. Investigation of Illicit Discharge Sources

Stormwater Outfall Dry Weather Inspections

The City maintains a stormwater outfall inspection program in compliance with the MS4 permit. All 434 of the City's permitted stormwater outfalls are scheduled to be inspected by the IWU at least once each permit cycle (or five-year term.) Those outfalls with dry weather flow are sampled for fecal coliform and fluoride analysis, which aids in determining if the presence of flow is indicative of cross connections or some other non-sanitary infiltration (i.e., drinking water or ground water). The results of these samples are reported on a quarterly basis and summarized in this annual report. During FY26, 241 outfall inspections were conducted in total across 235 unique outfalls. At priority outfalls, 36 of the 43 inspections detected the presence of dry weather flow and samples were collected. Of the 241 routine outfall inspections conducted this fiscal year, dry weather flow warranted sample collection during 70 of these inspections.

Table 7: Stormwater Outfall Inspections

Stormwater Outfall Inspection Program			
	Inspections	**Samples**	**Unique Outfalls**
Permit Inspection Program	241	81	220
Priority Outfall Program	43	36	15
FY26 Total	**284**	**117**	**235**

Priority Outfall Closure Testing

Investigation will continue within each priority outfall area (sewershed) until the priority outfall status may be removed. During FY26, none of the priority outfalls were authorized to be removed from the list by PADEP.

Rank the MS4 outfalls according to their priority for corrective actions

PWD maintains a stormwater outfall monitoring system in compliance with the MS4 permit issued by the PADEP. Samples are collected for outfalls that have dry weather flow and analyzed for fecal coliform and fluoride. Priority outfalls have been established through the 1998 Stormwater Consent Order and Agreement and internally, additional areas of focus have been added to maintain progress in the screening, testing and abating program and for efficient crew deployment. Priority Outfalls are sampled on a quarterly basis. Refer to **Appendix O – FY26 MS4 Outfall Inspections** for FY26 priority outfall summaries.

Investigate dry weather flow to identify sewer lateral defects

During FY26, the DCG performed 296 complete dye tests with 29 defective connections found and 71 abatements completed. Details of FY26 activities are listed in the tables below.

Table 8: Defective Connections Program – FY26 Summary

	Jul 1 – Sep 30	Oct 1 – Dec 31	Jan 1 – Mar 31	Apr 1 – Jun 30	FY26 Total
Completed Tests	88	69	39	100	**296**
No Cross Connections	83	50	39	95	**267**
Cross Connection Identified	5	19	0	5	**29**

Reports of potential dry weather discharge from the stormwater system are also investigated, primarily through the Industrial Waste and/or Sewer Maintenance units. During FY26, 25 incidents were investigated. For details, refer to **Appendix L – Sanitary Infiltration Events** during FY26.

The DCG Field Investigation SOP was updated in July 2026. A copy is available upon request.

c. Abatements

Written notice about sewer lateral defects

The Plumbing Repair Unit handles customer communications (through letters, telephone, or site visits) and is responsible for the abatement of the defects identified.

Abatements of Cross Connections

Corrections of defective connections are confirmed to ensure that the ultimate discharge to the receiving waters does not contain sanitary waste. Details of 71 abatements and costs are listed below.

Table 9: Defective Connection Abatements – FY26 Cost Summary

# Cross Connections Abated			Total Cost of Abatements
Residential	Commercial	Internal	
53	18	0	$676,571.76

Residential Properties Cross Connections Abatement

During FY26, 53 residential abatements were completed at a cost of $541,910.26.

Commercial and Industrial Properties Cross Connections Abatement

During FY26, 18 commercial abatements were completed at a cost of $134,661.50.

Defective Connections Abatement Schedule

All defective connections are required to be abated within 120 days of discovery, in compliance with the MS4 permit. For more details on on the status of properteis with defective connections, please refer to **Appendix N – Defective Lateral Quarterly Report FY26**.

Defective Connections Abatement Confirmation Tests

All abatements completed during FY26 were tested to confirm that the abatement was properly completed.

d. Defective Connection Program Reporting

Illicit connection program quarterly report

Defective Lateral Quarterly Reports are submitted four times a year to PADEP as part of the reporting requirements of the City of Philadelphia NPDES MS4 Permit No. PA 0054712. The report covers three-month periods starting in January, April, July, and October and are submitted no later than 45 days from the end of the reporting period. The quarterly reports were submitted as required during FY26.

Illicit connection program quarterly report contents

The report content within the Illicit Connection Program quarterly reports has been updated to more accurately reflect the work performed in FY26.

F.4 Monitor and Control Pollutants from Industrial Sources

a. Applications/Permits

The City can obtain information about NPDES permits/discharge from industries if they contribute stormwater into the City's sewer system. Industries that contribute stormwater directly into a waterway or discharge non-industrial waste into the system usually coordinate directly with the PADEP. A list of NPDES permits that involve stormwater associated with industrial activities in the city were obtained from the PADEP's website and are listed in **Appendix J – NPDES Industrial Stormwater Permitted Sites**.

b. Inspections

Industrial inspections

The Philadelphia Local Emergency Planning Committee (PLEPC) is the entity tasked with meeting the responsibilities of SARA Title III.

As part of the MS4 permit requirement, the City is required to perform a stormwater inspection at all SARA Title III facilities located in the MS4 each fiscal year. In FY26, PWD conducted stormwater inspections at 190 SARA Title III facilities located in the MS4. One location could not be inspected due to access restrictions at the Philadelphia International Airport.

Industrial waste inspection forms

The Industrial Waste Inspection Form was updated in 2006 to include a stormwater inspection section. A copy of the form can be found in previous reports; please refer to Appendix O of the CSO-Stormwater FY09 Annual Report.

c. Monitoring/Enforcement

Industrial DMR submission

When necessary, the City shall request Discharge Monitoring Reports (DMR) or additional sampling from the PADEP for surrounding industries to ensure compliance with NPDES effluent limitations.

NPDES permits enforcement

Should PWD personnel observe a violation of NPDES permit terms and conditions, PWD will report the violation immediately and notify PADEP, on a case-by-case basis.

F.5 Monitor and Control Stormwater from Construction Activities

Stormwater runoff is a concern both during construction and post-construction. Within the City's development review process, PWD is provided the authority to regulate the runoff from earth disturbance activities of 15,000 square feet or more to improve water quality (City Code Sections 14-301(10) and 14-704(3)). Additionally, post-construction stormwater management plan review extends beyond peak rate control and encompasses water quality and water quantity technical requirements for more frequent storm events. Efforts continue to be focused on improving plan review for both Erosion & Sedimentation (E&S) as well as post-construction stormwater management. The following sections document the progress made so far in terms of stormwater runoff from construction activities including the collaboration between the Philadelphia development community, multiple City Departments, and State agencies.

During FY26, PWD performed numerous tasks in direct compliance with the NPDES MS4 Permit as well as tasks that support the ongoing growth of the stormwater management program for development construction activities. Some of the FY26 activities include the following:

- Continued coordination efforts with Philadelphia Licenses and Inspections (L&I) regarding permit review and issuance for development projects applicable to the Stormwater Regulations. At a minimum, the L&I issuance of Zoning, Demolition, Site, and Building permits was coordinated appropriately between the two agencies. L&I supports PWD in enforcement measures through the issuance of Stop Work Orders and withholding Certificate of Occupancy permits for sites that are non-compliant. PWD continues to serve as a reviewing entity in L&I's online permit program, eCLIPSE, by providing pre-requisite signoff on applicable permits.
- Continued coordination with the PADEP Southeast Regional Office Waterways and Wetlands Program through regular project communication and periodic meetings with PADEP and Southeast Region Conservation District staff. The periodic meetings provide a platform to discuss regional and district updates, permitting services and projects, and other topics. PWD also regularly participated in pre-application and project meetings with PADEP staff and applicants to discuss upcoming projects and active projects. In FY26 PWD and PADEP also actively coordinated on several enforcement cases and performed joint site inspections.
- Scheduled and held coordination meetings with local universities and other large landowners to discuss upcoming or current development projects as well as identify ways to strengthen communication and streamline the review and post-construction inspections process. Additionally, projects in enforcement are discussed, deadlines are communicated, and guidance is provided to bring projects back into compliance.
- Continued to implement erosion and sediment (E&S) compliance as an element of all active construction inspections by ensuring appropriate controls are in place throughout construction activity. Potential E&S issues or violations are documented as part of an inspection report provided to the on-site representative. The reports identify the required corrective actions, and active construction inspectors will return to the site to verify compliance. E&S violations may trigger active construction enforcement actions such as a Stop Work Order and fine for illicit discharge, requiring continued coordination through L&I.
- Continued to conduct reviews of stormwater management plans and maintain the website to allow online submittal of plans and pre-application meeting requests as well as provide clear and accessible applicant resources to support quality submittals and efficient reviews.https://water.phila.gov/ The website can be viewed at: https://water.phila.gov/development/
- Continued to review projects applying for stormwater-based zoning incentives including Philadelphia's Green Roof Density Bonus, which was incorporated into the Zoning Code in 2015. This bonus offers exceptions to certain residential density rules for development projects that include a green roof. In 2018, the bonus was expanded to allow eligibility for existing buildings undergoing renovation or expansion. The green roof must meet PWD's requirements and be approved by PWD before the bonus can be awarded. In FY26, PWD approved twelve projects citywide as eligible to apply for this bonus.
- Continued to attend bi-monthly Business Industry Association (BIA) meetings for the Government Affairs/Fix It Philly subcommittee. In these meetings, representatives from the development community including developers, architects, and engineers come together with City agency representatives from PWD, L&I, Planning, and Streets to discuss policy and legislation impacting development in Philadelphia to ensure a transparent and efficient development process.

A summary of plan review activities city-wide in FY26 is presented in **Table 10** on page 23.

a. Construction Site Runoff Control

PWD reviews and approves E&S Plans, along with PCSMPs, for all development sites disturbing more than 15,000 square feet of earth citywide. For E&S plans, PWD follows policies and practices as provided within the PADEP E&S Control Manual. PWD conducts coordinated reviews with the PADEP for projects disturbing more than one acre of earth.

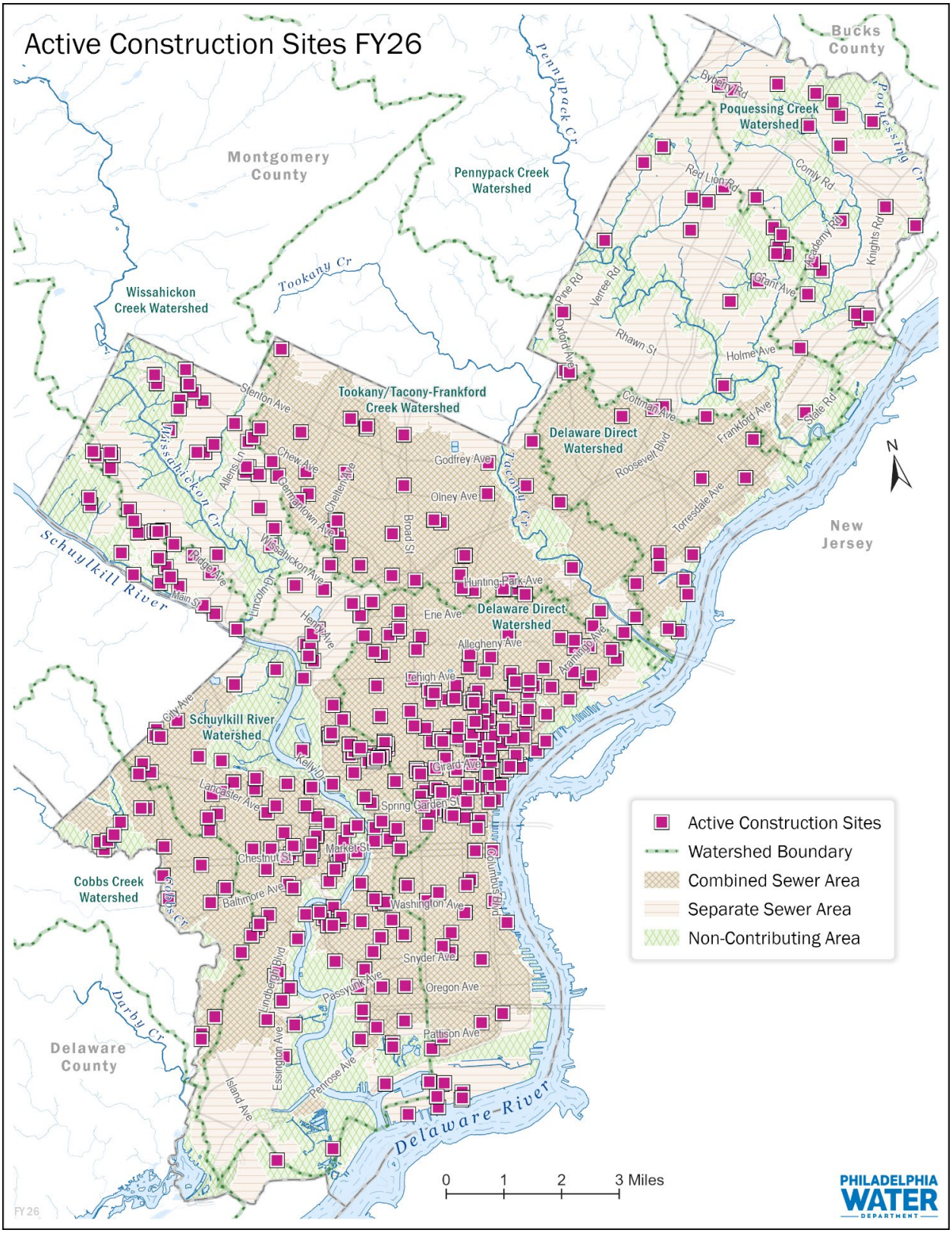
Site inspections of E&S controls are conducted on a reoccurring basis and in response to any complaints received during active construction. The purpose of reoccurring inspections is to monitor E&S controls on projects where construction and earth moving activities are active, and to require site operators to maintain E&S controls as needed. PWD inspects controls such as, but not limited to, rock construction entrances, silt fencing, inlet protection, stockpile location and protection, and concrete washouts. During an inspection, the inspector communicates with the site representative and requests to see a copy of the on-site E&S Plan. Photographs are taken documenting site conditions. An inspection report detailing any non-compliant items is generated and distributed to the site representative and then maintained as part of PWD's electronic project file. Failure to adhere to the requirements in the inspection reports can result in a Notice of Violation (NOV) or a Stop Work Order. For more information regarding enforcement actions, see **Section F.5.e** on page 28.

The sites visited cover all of Philadelphia including both separate storm sewer areas and combined sewer areas as depicted in **Figure 2** on page 24.

Table 10: FY26 Summary of Plan Review Activities

	Jul. '25	*Aug. '25*	*Sep. '25*	*Oct. '25*	*Nov. '25*	*Dec. '25*	*Jan. '26*	*Feb. '26*	*Mar. '26*	*Apr. '26*	*May '26*	*Jun. '26*	*FY26 Total*
Conceptual Review Stage													
Approvals	4	10	10	4	5	3	3	9	7	8	9	12	84
Rejections	21	25	23	37	21	37	23	26	42	34	37	44	370
Reviews	26	41	35	43	30	41	28	36	53	46	49	58	486
New Project Submittals	23	24	25	31	21	23	17	15	32	23	19	25	278
Average Review Time (days)	3.9	3.8	4.5	5.1	5.0	5.3	4.2	4.1	6.1	5.9	5.4	6.9	5.0
Post Construction Stormwater Management Plan Review Stage													
Technical Approvals Issued	7	7	3	4	4	9	7	1	7	3	2	2	56
Rejections	29	18	24	18	12	14	17	19	22	16	28	28	245
Full Technical Reviews	51	44	38	41	30	34	30	35	41	39	42	57	482
New Project Submittals Received	14	11	19	13	20	20	17	10	15	20	16	13	188
Average Number of Reviews per Approval	5.3	4.7	5.7	5.3	5.0	4.3	4.9	9.0	5.0	4.7	5.5	5.5	5.4
Average Approval Time (days)	289	398	214	166	735	235	271	433	211	352	261	197	313
Acres of Earth Disturbance Approved	48.3	117.2	9.2	28.6	2.5	110.0	27.2	3.7	6.3	7.3	4.9	7.1	372.5
Acres of Green Roofs Approved	0.0	1.3	0.0	0.3	0.3	0.5	0.9	0.0	0.0	0.0	0.0	0.3	3.7
Acres of Porous Pavement Approved	0.1	0.1	0.0	1.2	0.1	0.3	0.0	0.0	0.2	0.0	0.0	2.0	4.1
PADEP Reviews													
New Coordinated Reviews	4	1	5	2	2	4	3	1	4	4	4	5	39
Erosion and Sedimentation Plan Review													
Defer to PADEP	1	0	1	0	1	3	0	1	1	1	0	4	13
Approved	6	2	5	10	7	6	3	3	4	5	4	5	60
Rejected	12	6	5	7	3	4	2	3	9	6	14	9	80
Not Applicable	13	9	11	11	12	17	12	7	11	11	10	8	132
Total Inspections													
New Sites Inspected	33	37	42	43	45	39	38	18	42	59	50	250	696
Total Inspections	405	508	574	562	498	565	468	438	543	538	510	573	6182
Active Construction Inspections at Project Sites with MS4 Sewers	103	114	116	120	90	98	114	90	101	111	97	127	1281
Post Construction Inspections at Project Sites with MS4 Sewers	3	3	8	1	4	9	4	5	8	11	3	5	64
Total Inspections at Project Sites with MS4 Sewers	106	117	124	121	94	107	118	95	109	122	100	132	1345
Active Construction Inspections at Project Sites with Combined Sewers	238	310	365	365	328	393	287	291	370	350	355	380	4032
Post Construction Inspections at Project Sites with Combined Sewers	12	19	20	15	21	14	19	14	24	17	18	15	208
Total Inspections at Project Sites with Combined Sewers	250	329	385	380	349	407	306	305	394	367	373	395	4240

Figure 2: FY26 Active Construction Sites



b. Post-Construction Stormwater Management in New Development and Redevelopment

Adopted in January 2006, the Philadelphia Stormwater Regulations enabled PWD to review plans for both new and redevelopment sites throughout the City to ensure water quality and quantity were part of the proposed management plan. Since 2006, PWD has collected and synthesized feedback from the development community regarding improvements to the stormwater plan review program. Updates are made to the Stormwater Regulations to improve and strengthen PWD's stormwater programs and stay current in policy procedures. The Philadelphia Stormwater Management Regulations are available online at https://water.phila.gov/regulations/.

c. Applications/Permits

During FY26, 278 unique projects were submitted to PWD for conceptual review through the program's website citywide. PWD approved PCSMPs for 56 projects citywide during FY26. It should be noted that this number does not include plans re-submitted for review, some of them multiple times. The distribution of development projects by drainage type and watershed that submitted post-construction stormwater management plans for review are presented in **Table 11** and **Table 12**. Locations of new project submissions and technical approvals are shown in **Figure 3** on page 26.

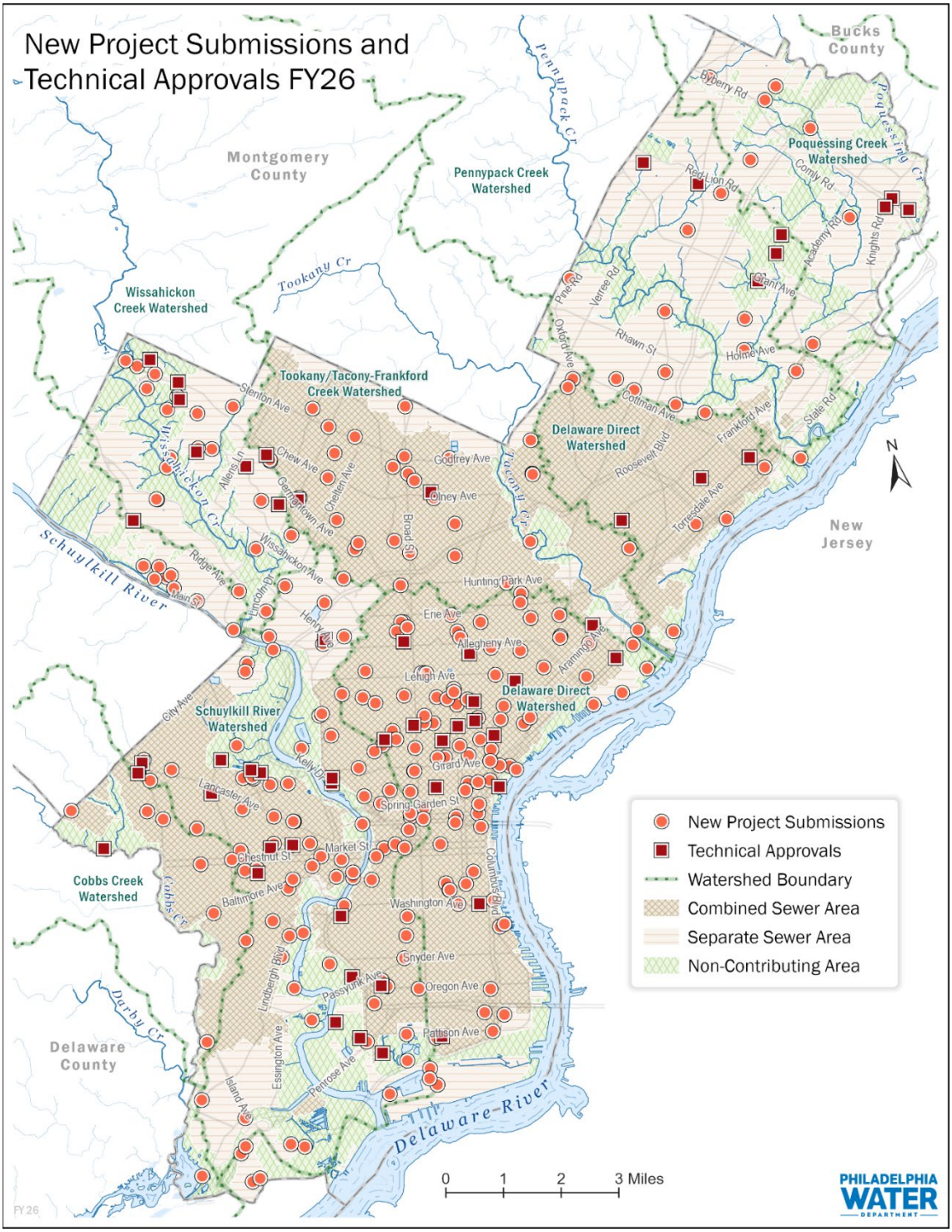
Table 11: Approved PCSMP Location Summary by Contributing Area

Drainage Type	Number of Locations
Combined Sewer Area	32
Non-Contributing Area	11
Separate Sewer Area	13
Total	**56**

Table 12: Approved PCSMP Location Summary by Watershed

Drainage Watershed	Number of Locations
Delaware River	18
Poquessing Creek	3
Pennypack Creek	5
Schuylkill River	19
Tacony/Frankford Creek	3
Wissahickon Creek	7
Darby-Cobbs Creek	1
Total	**56**

Figure 3: Locations of New Project Submissions and Technical Approvals



d. Inspections

PWD requires a pre-construction meeting prior to commencement of earth moving activities for projects applicable to post-construction stormwater management requirements. In FY26, PWD conducted 82 pre-construction meetings citywide for development projects. During the pre-construction meeting, both the approved E&S Control Plan and the approved PCSMP are discussed with the construction manager and property owner representative. Post-Construction Stormwater Management inspections are discussed in **Section F.8** on page 29.

The active construction inspection program continued in FY26 by conducting inspections of stormwater structural controls on applicable land development sites. PWD stormwater inspectors conducted site visits for 484 active sites citywide during FY26. Technical plan review staff members were also on-site, as needed, to verify construction of the SMPs was completed in accordance with the approved plan. In the case that concerns are identified regarding SMP installation during construction, the technical plan reviewer will discuss the necessary corrective actions for the project with the PWD inspector, as well as the project's engineer and construction manager.

PWD stormwater inspectors observe the installation of SMPs and erosion and sedimentation controls during active construction for development sites. During FY26, PWD was able to maintain its presence in the field by conducting 1,281 active construction inspections on 105 sites in the separate sewered areas of the city. Many sites were visited multiple times to ensure compliance with appropriate requirements **(Table 13)**.

Table 13: Active Construction Inspection Site Location Summary

Drainage Watershed	Number of Locations
Combined Sewer Area	324
Non-Contributing Area	55
Separate Sewer Area	105
Total	**484**

e. Monitoring/Enforcement

As part of the 2017 EPA AOCC CWA-03-2017-0146DN, PWD was required to develop an SOP to detail enforcement procedures for responding to E&S control issues when established enforcement methods do not result in compliance. In FY26, PWD utilized the Repeat Offenders SOP as a base guide to create a comprehensive SOP for the Active Construction Enforcement Team. The SOP outlines Notice of Violations (NOVs) which include a deadline for compliance and reinspection. If a project remains out of compliance, PWD may issue fines and coordinate with the L&I to issue a Stop Work Order or hold the Certificates of Occupancy. In some cases, projects may fall out of compliance after enforcement actions were previously taken during the construction period.

PWD issues an NOV to sites when significant or persistent issues with E&S controls or the installation of required SMPs are not addressed in a timely manner. In FY26, PWD issued NOVs to 27 projects under construction citywide. Of those projects, 18 were issued fines for sediment discharge into PWD's sewer system. In addition, PWD issued follow-up NOV notices to the projects to ensure full compliance. Of the 27 active NOVs issued in FY26, 18 have been partially or fully resolved, bringing the site back into compliance. The major compliance issues for active construction projects include improper installation

or absence of E&S controls, the contractor not following the approved plans, and non-permitted construction activity.

f. NPDES Permit Requests

PWD continues to provide Conservation District functions for the City of Philadelphia for NPDES Construction Permitting Requirements and Chapter 102 Regulations relating to Erosion and Sedimentation Pollution Control. PWD continues to receive notifications and coordinate reviews for permitting. For more information and full details on this process described in previous reports, please refer to **Section F.5.f NPDES Permit Requests** on page 204 of the CSO-Stormwater FY12 Annual Report.

g. Stormwater BMP Handbook and Construction Site BMP Sediment & Erosion Control Checklist

PWD maintains the Philadelphia Stormwater Management Guidance Manual, a web-based resource that is organized to reflect the life cycle of a development project from initial submission through operation and maintenance. In addition to providing context on the regulatory framework for stormwater management in the city, the manual builds upon over a decade of program growth and technological advancements to streamline the technical design requirements and clearly document the plan review process for applicants. PWD leverages feedback from design engineers to clarify existing content, provide new resources, and develop a fully searchable and accessible online manual. The manual is updated periodically with the current version located on the web at https://water.phila.gov/development/stormwater-plan-review/manual.

F.6 Watershed, Combined Sewer Overflow (CSO), and Source Water Protection Programs

PWD, through the Planning and Environmental Services Division (PESD), strives to reduce the amount of point and non-point discharges entering regional waterways, improving the environmental health of the region in an effort to achieve the goal of fishable and swimmable waters. The main programs within PESD, in addition to the Stormwater Management Program, that work together to improve regional ecological health, water quality, and sustainability are the Source Water Protection Program, Watershed Field Services, and Ecological Restoration Group. The Watershed Planning Program is presently explained in detail throughout **Section III.C of the CSO Annual Report** on page 40.

Source Water Protection Program

The Source Water Protection Program embodies PWD's multi-barrier approach to ensuring the safety and quality of Philadelphia's drinking water. Drinking water sources consist of the Schuylkill and Delaware Rivers. The Source Water Protection Program conducts planning, research, and on-the-ground projects to better understand and address priority sources of water quality impairment in the 10,000 square mile upstream area encompassing Philadelphia's source watersheds. The staff works closely with PWD water treatment plant operators to anticipate and respond to emergencies and challenges to conventional treatment technology. PWD continues to implement the Source Water Protection Program and facilitates engagement with upstream partners. For more information on this program, please refer to the following sections:

- Schuylkill Action Network
  Please refer the CSO Annual Report **Section II.G.2 – Schuylkill Action Network** on page 24 for information about this topic.

- Delaware Valley Early Warning System
  Please refer the CSO Annual Report **Section II.G.2 – Delaware Valley Early Warning System** on page 27 for information about this topic.
- RiverCast
  Please refer the CSO Annual Report **Section II.G.2 – Philly RiverCast** on page 24 information about RiverCast.

Combined Sewer Overflow Management Program

The Combined Sewer Overflow management program works to implement technically viable, cost-effective improvements and operational changes that mitigate the impacts of combined sewer overflows. Please refer to the **FY26 CSO Annual Report** and **Appendix A – Green City, Clean Waters FY26 Annual Report** for additional information.

Watershed Mitigation Registry

Please refer to **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 14 for information about the Watershed Mitigation Registry.

F.7 Miscellaneous Programs and Activities

a. Pollutant Migration/Infiltration to the MS4 System

PWD responds to all notifications and reported complaints of liquid, solid, or gaseous pollutants within Philadelphia. A list of all pollutant migration events in the MS4 section of the city that occurred in FY26 is presented in **Appendix M – FY26 Pollutant Migration/Infiltration**.

b. Public Education and Awareness

Public Education Literature

The City plays an active role in providing information and education to the public and our community. Several events and programs are conducted each year in which the City provides literature to the public. Please refer to the CSO Annual Report **Section II.G – Pollution Prevention** on page 24 for information about this topic.

c. Pesticides, Herbicides, and Fertilizer Controls

Integrated Pest Management protocol

The majority of the City does not use pesticides or conduct any practices that require the use of the Integrated Pest Management (IPM) protocol. The City is currently focusing on invasive plant management through the use of herbicide to remove invasive plants.

The Philadelphia Department of Public Health (PDPH), Environmental Health Services (EHS), uses larvicides, including LS Lactobacillus Sphaericus (brand name Vectolex), BTI Bacillus thuringiensis subsp. Israelensis (Vectomax), and Methoprene (Altosid), to prevent mosquito breeding. These larvicides are approved for use in stormwater catch basins and are applied as such. The IPM protocol is followed when using larvicides by inspecting catch basins before treatments, using the least toxic or non-toxic product, and submitting a request for repairs when necessary. PWD and PDPH-EHS work closely together. This collaboration has resulted in PDPH-EHS receiving maps with locations of the City's storm water inlets

and surface basins. This allows PWD to improve access to report concerns of pests in the water collection systems for treatment by PDPH-EHS staff.

All associated PDPH-EHS staff are certified pest control applicators in accordance with the Pennsylvania Department of Agriculture. To maintain this certification, on-going training is required. PDPH-EHS holds several on-site trainings per year for staff.

Education materials to private pesticide users

PDPH-EHS provides educational materials to organizations, companies, and/or individuals upon request. Often, private exterminators, especially companies that handle pest control work for City facilities, request this information, since most buildings in the City contract out for pest control work through the individual Departments. PDPH-EHS staff have this information available to provide to the public.

d. Snow Management Plan

The City faces winter storms that bring potentially dangerous accumulations of ice, sleet, freezing rain, and snow. To mitigate the impact of these storms, the Streets Department prepares a Snow and Ice Operations Plan which provides a detailed outline of the City's response to adverse winter weather conditions. The plan includes the salt storage locations at the six Highway Districts and outlines the city's salting policy. The **City of Philadelphia Snow and Ice Operations Plan Winter** is available upon request.

e. Municipal/Hazardous Waste, Storage, Treatment, and Processing Facilities

The City's one active waste transfer station, Northwest Transfer Station, is located at Domino Lane and Umbria Street in the Roxborough section of the city. Through recent upgrades to the facility pollution prevention and stormwater management practices such as an oil/water separator connected to all trench drains in the facility and three lined rain gardens have been installed to manage stormwater runoff on-site.

F.8 Best Management Practices (BMPs)

a. Submit Storm Sewer Discharge Ordinance

The authority for PWD to adopt stormwater regulations is found within Title 14 Zoning and Planning Code under §14-704(3) Stormwater Management. PWD maintains Stormwater Regulations as Chapter 6 of PWD's regulations. These regulations were originally adopted in 2006, and periodic updates are made to reflect changing regulatory requirements, emerging development concerns, feedback from ongoing monitoring and post-construction inspections, and advances in stormwater management technology and best practices. These regulations require stormwater management on most development projects that exceed an earth disturbance threshold of 15,000 square feet. For more information regarding PWD's regulation updates within the last year, see **Section F.5.b. – Post-Construction Stormwater Management in New Development and Redevelopment** on page 24.

PWD has added documentation to a website (https://water.phila.gov/development/stormwater-plan-review) to provide the development community a means of accessing the most recent stormwater management information.

b. Commercial and Residential Source Controls

b.i. Mingo Creek Surge Basin

Given notice to proceed in 2023, a capital construction project for the rehabilitation of Mingo Creek is now more than 70% complete. The rehabilitation project is in response to flooding in the Eastwick area of Philadelphia because of the Cobbs Creek overtopping. For more information on this project, please refer to Section F.8.b.i on page 214 of the CSO Stormwater FY12 Annual Report.

b.ii. Existing privately owned structural controls

To ensure ongoing SMP maintenance of private facilities, PWD continues to utilize four means: executing Operation & Maintenance Agreements, maintaining comprehensive operations and maintenance information, conducting post-construction maintenance inspections, and enforcing on non-compliant projects.

An Operation and Maintenance agreement between the property owner and PWD is executed and recorded against the property as part of the PWD post-construction stormwater management plan process. These agreements outline the SMP(s) on the private site and stipulate maintenance requirements. The agreements also include language granting PWD the authority to inspect on-site SMPs and even perform maintenance on behalf of the property owner if necessary.

PWD maintains comprehensive operations and maintenance information geared toward the private development community in Chapter 4 of the Philadelphia Stormwater Management Guidance Manual. Each SMP section provides guidance on SMP maintenance activities, including a recommended SMP maintenance schedule and maintenance factsheets, which are available as a resource for the property owner. In addition, as part of the post-construction stormwater management plan review process, projects must create an SMP Maintenance Guide which is detailed in Appendix G of the Manual. The SMP Maintenance Guide is unique to each project and includes a site map and Maintenance Schedule Form for each SMP to allow the owner to track maintenance activities for the site. Please see the links below for more information:

- Philadelphia Stormwater Management Guidance Manual, Chapter 4
- Philadelphia Stormwater Management Guidance Manual, Appendix G

Post-construction maintenance inspections of private facilities were conducted throughout the reporting period. PWD utilizes visual inspections and specialized inspection techniques to assess the condition of private SMPs. PWD conducts post-construction maintenance inspections on all applicable private facilities. As projects are identified for maintenance inspection, the PWD post-construction inspection staff contacts the property owner to schedule the inspection. PWD prefers to conduct the inspection with the property owner or their maintenance representative present so any concerns or questions can be verbally discussed. After inspection, a post-construction inspection report is generated and issued to the property owner. Any required corrective actions are identified in the report along with a deadline for resolution. After actions are taken, PWD re-inspects the property, and compliant sites are closed until their next routine inspection date. Inspectors will provide guidance to the property owner to ensure corrective actions are resolved. In addition to visual inspections, PWD has identified other effective methods and technologies, including closed-circuit television, surveys of critical system elevation points, confined space, pole-mounted camera photography, and wet weather inspections.

PWD will continue to evaluate and refine post-construction inspection protocols. In FY26, PWD performed 64 post-construction inspections in the MS4 and 289 post-construction inspections citywide.

Referral for enforcement is pursued for severe violations or if compliance is not achieved within the timeframe specified during the post-construction inspection process. PWD typically initiates an enforcement case with the issuance of a post-construction enforcement letter to the property owner if a PCSMP is found to be insufficiently maintained. In some circumstances, PWD may initiate enforcement with the issuance of a Notice of Violation (NOV). The notifications include a description of issues identified and a timeline to achieve compliance. The City is authorized to compel maintenance of SMPs on private property under the Philadelphia Code and PWD Regulations. Development sites that are subject to the regulations, as well as properties that have grant-funded SMPs, are required to maintain the SMP(s) to function as designed. If initial notification is unsuccessful at bringing action from the property owner, PWD can compel compliance through several enforcement tools, including NOVs (if enforcement is initiated with a PEL), suspension of applicable stormwater billing credits, fines, court action, and/or a nuisance abatement and lien by the City. In FY26, PWD successfully resolved 45 enforcement cases consisting of 158 SMPs citywide. Of the enforcement cases closed, escalated enforcement tools were utilized consisting of 18 NOVs, with 9 escalating to fines. PWD will continue to work with property owners to ensure that SMPs are inspected and maintained in accordance with Regulations and recorded O&M agreements.

c. Development Plans Review

Please refer to **Section F.5 – Monitor and Control Stormwater from Construction Activities** on page 20 for additional information.

d. Street Cleaning Program

During FY22, the Streets Department developed the Mechanical Street Cleaning Pilot Program as part of the City of Philadelphia's commitment to reduce trash and litter conditions in the City's most vulnerable communities. Mechanical street cleaning is an effective tool in reducing litter from city streets and preventing trash and debris from entering the water systems. A Phase II of the Pilot Program was launched in 14 neighborhoods identified through the Litter Index as having the highest concentration of litter. These areas have been identified as requiring additional City services to supplement cleaning efforts in the area. The program runs from early May through November 30th to coincide with the warmer-weathered months and decrease the potential for snow and ice. Some streets in each pilot area receive sidewalk cleaning maintenance along with mechanical broom cleaning weekly. In FY26, 35,818 miles were swept, and 1,623 tons of material were removed from the streets.

Since FY14 the Streets Department has initiated monthly street sweeping operations on routes adjacent to the Tookany/Tacony Frankford Creek, Wissahickon Creek, Cobbs Creek, and Pennypack Creek watersheds within the city.

In addition, the Center City District (CCD) and University City District (UCD) conduct sidewalk cleaning. Heavily trafficked commercial streets and areas receive daily sweeping with pans and brooms and mechanical cleaning. Other areas with a high density are cleaned at least twice weekly with machines (some areas are cleaned daily). Sidewalks also get a monthly power washing, except in winter, to remove accumulated stains, gum, and grime. In FY26, 80,015 miles of streets were mechanically

cleaned. Through a variety of fee-for-service arrangements, CCD crews clean several adjacent commercial and residential areas and provide a 24-hour deployment to clean the three and a half mile long underground subway concourse and Center City's two regional rail stations.

Public awareness of litter

Waste and litter, illegal dumping, and graffiti negatively impact the beauty and cleanliness of Philadelphia's rights-of-way, waterways, and other public and private spaces, and landfilling waste creates emissions that contribute to climate change. To accomplish the goals of reducing waste and litter in Philadelphia, the office of clean and green continues to maintain an interdepartmental effort to combat litter, enhance the cleanliness of streets and public spaces, and with a goal of making Philadelphia the safest, cleanest, greenest big city in the nation.

The City's recycling program operates on an enormous scale, collecting over 80,000 tons of recycling. Recycling right saves resources. It's good for the environment, reduces litter and pollution, and keeps our communities clean and healthy. Improper recycling is putting trash in your recycling, where it ruins good materials, damages equipment, and endangers workers. It only takes one bad bin to ruin a truckload of good recycling. Recycling is the law in Philadelphia. The Streets & Walkways Education and Enforcement Program (SWEEP) educates Philadelphia residents, businesses, and property owners about sanitation regulations and enforces code violations. SWEEP officers are trained, uniformed civilians. They educate local businesses and apartment managers about their responsibility for keeping their properties clean, work with communities on outreach efforts, patrol streets to enforce litter laws, and issue warnings and citations.

The Philadelphia More Beautiful Committee (PMBC) works with registered block captains to keep City blocks clean and green. PMBC promotes and organizes clean-up events, provides block captains with cleaning tools, information, and guidance; supports and celebrates volunteer block captains. Together with 41,968 volunteers, PMBC cleans 6,042 blocks each year. PMBC also organizes neighborhood cleaning events citywide. Such cleaning efforts are bolstered every April by the Philly Spring Cleanup, a citywide event that kicks off the cleaning season uniting residents, civic organizations, businesses, and nonprofits to work together to remove litter, beautify blocks, spruce up shared spaces like parks, gardens, and recreation centers. Philly Spring Cleanup is Philadelphia's largest city-wide, single-day clean-up event. Since its 2008 launch, a total of 200,000 volunteers have removed more than 11.4 million pounds of trash and 950,000 pounds of tires from city streets at nearly 6,750 project sites.

A BigBelly is an enclosed litter basket that often includes a recycling station. The Department of Streets installs BigBelly units on commercial corridors in high pedestrian areas to help reduce litter and provide access to public recycling. Advertisements on BigBelly units help fund the program. There are about 500 BigBelly units in Center City, and another 700 in other commercial districts and targeted residential corridors throughout the city. An additional 300 locations will be installed during Fall 2026. The City also implements a Community Cans Program that partners with community organizations and businesses to place wire mesh litter baskets in designated locations along commercial corridors with a goal of reducing litter in Philadelphia neighborhoods.

e. Animal Waste and Code Enforcement

Educational material regarding control of animal waste

The Philadelphia Code and Charter Chapter 10.100 – Animals and Chapter 10.700 – Refuse and Littering address the proper clean-up of pet waste and applicable fines and penalties. In addition, signs advertising said penalties are displayed city-wide to prevent residents from violating this statute. The City of Philadelphia also provides the text of this code online at http://municipalcodes.lexisnexis.com/codes/philadelphia/.

PWD provides additional information on pet waste to the public including how it affects stormwater and why to pick it up through its website located at the following site: http://water.phila.gov/drops/dog-waste/

Dog Waste Control Program

PWD's approach to address dog waste in Philadelphia focuses on partnerships with key dog-related organizations, including dog shelters, vet clinics, and animal nonprofits. In FY26, the program partnered with three dog-focused nonprofits and shelters to distribute materials to current pet owners, including 400 educational postcards, 300 dog bag dispensers, and 400 dog waste bags. ACCT Philly, the dog licensing provider for the City of Philadelphia, continued to provide dog waste education in new dog license paperwork. PWD worked with the Partnership for the Delaware Estuary (PDE) to create and run two dog waste education social media campaigns; a combination of 27 posts across Facebook and Instagram reached almost 50,000 accounts. Finally, PWD and PDE hosted the 2026 Spokesdog Competition which crowned Gracie Girl as the next canine representative for the Philadelphia Water Department; Gracie Girl will appear at in-person events and in educational campaigns to help further promote the message or proper dog waste control.

f. Flood Management and Flood Control Devices

Structures built within the floodplain

All development within the Special Flood Hazard Area (SFHA), which is identified on FEMA's Flood Information Rate Maps (FIRM's), is reviewed and approved per the City's codes and regulations found in both Zoning and Building codes. L&I will identify all City parcels within the SFHA, and upon an application submission, will determine whether the floodplain codes apply. If the development site itself is determined to be within the SFHA, structures built will be designed to an elevation of Base Flood Elevation (BFE) plus a safety factor of at least 18 inches. L&I will maintain records of compliance for all development located with the SFHA. Licenses and Inspections issued 567 permits in total, which includes separate building, mechanical/electrical/plumbing (MEP) permits, and alteration permits.

Evaluate new and existing structural drainage controls

Our evaluation of structural drainage controls was discussed in further detail in **Section F.8.b.ii - Existing privately owned structural controls** on page 30 of this report.

Work is being completed in sections of the city that have chronic flooding to eliminate or reduce these occurrences; please refer to CSO Annual Report **Section II.B.3 – Flood Relief Project Summary** on page 8 for more information about the SFR projects and details on evaluating structural drainage controls.

Streambank Restoration and Wetland Enhancement

Please refer to **Section F.2.Step 3.a – Access the benefits of implementing a Natural Stream Channel Design (NSCD) and effectiveness of the NSCD restoration approach** on page 14.

g. Sanitary Infiltration Controls

Limit sanitary infiltration

As part of the Cross-Connection Repair Program, PWD has conducted 1,940 abatements to correct cross -connection in sewer laterals since 1994; 71 abatements were completed in FY26. PWD also has in place twelve dry weather diversion devices which divert sanitary flow back into the sanitary sewer but still allow stormwater to pass through during wet weather events. PWD estimates that these abatements and dry weather diversion devices have prevented over 272.6 million gallons of contaminated flow from entering our waterways since the inception of the program and about 10 million gallons during FY26. Please refer to **Section F.3 – Detection, Investigation, and Abatement of Illicit Connection and Improper Disposal** on page 16 for more information on the Cross-Connection Repair Program.

In addition, as part of PWD's Sewer Maintenance Program, sewer lining is routinely conducted on both sanitary and storm sewers. Lining sewers helps to reinforce, seal, and rehabilitate the existing sewers, specifically preventing infiltration to allow the pipe capacity to be reserved for sanitary and storm flow. Apart from those being done under consent orders, there are several sewer lining projects in the city that originate from sewer maintenance issues like street cave-ins, depressions, backups, as well as outputs from sewer assessment meetings.

As a part of PWD's commitment to improvement of water quality and aesthetics in dry weather, large sewer lining projects were initiated on the intercepting sewers along the Tookany/Tacony-Frankford and Cobbs Creeks. Please refer to **Appendix A Green City, Clean Waters FY26 Annual Report Section 3.3 Interceptor Rehabilitation Program** on page 8 for more information on the interceptor relining project.

Construction of a storage tank upstream of relief sewer manhole R-20, located at Main Street and Shurs Lane, to capture and store excess flows was completed during November of 2013. The consent order requirement for sewer linings around regulator R-20 to reduce inflow and infiltration has been completed. Please refer to CSO Annual Report **Section III.B.1– Construction and Implementation of the Main and Shurs Off-line Storage Project** on page 38 for more information on the Main and Shurs Off-line Storage Project and efforts to reduce inflow and infiltration at R-20.

PWD constructed a parallel relief sewer in December of 2011 to eliminate overflows at manhole PC-30 as per a consent order issued by the PADEP. The overflows at PC-30 were caused by a combination of various factors which influence the hydraulic carrying capacity of the Poquessing Creek Interceptor during wet weather events. During FY26, there were zero overflow events at manhole PC-0030. Information regarding PC-30 monitoring and modeling data for overflow observation is submitted monthly to PADEP. Please refer to CSO Annual Report **Section III.B.2 – New Capital Improvement Projects to be Included in LTCPU** on page 39 for more details on PC-30.

Investigate, remediate, and report sanitary infiltration

PWD responds to all citizen complaints of liquid, solid, or gaseous pollutants within Philadelphia. A database called the Sewage Pollution Incident & Location Log (SPILL), which stores information about unintentional sanitary discharges including the date reported, problem location, spill type, description,

and abatement date, is maintained. Detailed information on the events found on the SPILL database of reported sewage pollution incidents in FY26 are found within **Appendix L – FY26 Sanitary Infiltration Events**.

The following locations have been identified by the Department as locations suffering from chronic discharges of sanitary sewage to the storm sewer system and/or waterways. A description of the specific site issues and the status of remediation efforts is provided for each location.

Neill Drive Pumping Station

Historically, force main failures have occurred at the Neill Drive Pumping Station due to faulty fittings and plastic couplings. As of FY26, proactive replacement of all faulty fittings and plastic couplings is complete; therefore, future force main failures of this nature are not likely. In FY26, a sanitary sewer overflow (SSO) was noted at the pump station due to a tripped electrical breaker, causing the station to lose power. A PWD electrician swiftly reset the breaker, power was restored, and no evidence of debris or cloudy water was found at the outfall. A project to install an emergency standby generator sized to meet pump operations has been initiated with a target bid year of FY28. In the meantime, the department continues to actively monitor Neill Drive Pumping Station for signs of discharges and spills.

Navy Yard Force Mains

Issues with the force mains associated with Pump Station 603 in the Philadelphia Navy Yard have been ongoing for several years, and the Department saw significant progress in the necessary upgrade and rehabilitation of a portion of these mains in FY26. The force main and associated pumping station are integral in conveying sanitary flows out of the western area of the Navy Yard to the Southeast Water Pollution Control Plant.

Pump Station 603

In 2021, PNBC-603 experienced multiple force main breaks due to the corrosive effluent from PNCB-648 eroding the inner wall of the main. After years of recurring breaks, a two-phase project was initiated in 2021 to replace the force main with a corrosive resistant material. The first half of the project entailed replacing the main starting at the station and ending around 1000 ft west of Broad St. The construction of this project was completed in FY26. In FY26, there were no SSOs due to the corrosion of the 8” force main.

Pump Station 648

Force main deterioration issues have been ongoing for several years at this location and the Department completed a major overhaul of Pump Station 648 (which discharges to Pump Station 603) and the cast iron force main in 2020. The project consisted of replacing the force main with high density polyethylene and all internal station piping, pumps, and fittings with stainless steel to help resist corrosion.

Hortter Street Sewer

On December 13th, 2020, PWD responded to the fourth SSO along the 300 and 400 blocks of W Hortter Street in a four-year period. The Department has completed several CCTV inspections of sanitary and storm sewers in this street, with the most recent occurring in February 2019. The primary causes of the SSOs have been heavy debris accumulation and failures in the terracotta pipe sanitary sewer installed in the late 1800s, resulting in the restriction of flows and discharge through manholes or privately owned

fresh-air-inlets. The Department has been able to respond to the SSO incidents by completing sewer flushing and cleaning activities and point repairs when necessary.

During FY26, PWD continued to monitor this location and no SSOs occurred at the Hortter Street sewer. Construction for the sewer reconstruction project started on 4/26/2022 and is substantially complete as of 8/23/2023.

On-lot septic/disposal system

During FY26, no complaints of malfunctioning on-lot sewage disposal systems were received. Also, during FY26, eight (8) applications were submitted for the installation or repair of on-lot sewage disposal systems, and eight (8) permits were approved. In addition, 371 portable toilet permits were issued. PWD continues to support the inspection and remediation of these systems.

h. Spill Prevention and Response

The City's response plan to respond to and contain harmful spills that may discharge to the municipal separate storm sewer system is managed by the Office of Emergency Management under the Hazardous Materials Response Plan. The Hazardous Materials Response Plan was updated in 2025. The Office of Emergency Management collects annual reports from all Tier II facilities within the City as well as Emergency Response Plans for all facilities which meet the threshold planning quantity of materials on-site. OEM also maintains a record of all downstream notifications.

To protect PWD's structures and treatment processes, PWD staff respond to oil and chemical spills and other incidents that have the potential to threaten the water supply or impact the sewer system, twenty-four hours per day, seven days per week. PWD responds to all incidents that can impact the sewer system or endanger PWD employees. This includes both the sanitary sewer system and the storm sewer system. PWD supervises cleanup activities and assesses environmental impact. PWD inspectors also investigate various other types of complaints. In FY26, 13 pollution migration events occurred. A list of all pollutant migration events in the MS4 section of the City that occurred in FY26 is presented in **Appendix M – Pollutant Migration/Infiltration**.

i. Public Reporting of Illicit Discharges, Improper Disposal

The City encourages residents to report the occurrence of illicit discharges that may impact the sewer system and water bodies. To facilitate the timely reporting of such events, PWD operates a Municipal Dispatcher 24 Hours/Day, 7 Days/Week to handle reports from the public. In addition, a customer service hotline (215 685-6300) is also operated that provides the ability to connect to the dispatcher. This information is distributed in mailings, as well as online at http://www.phila.gov/water/contact_us.html.

Upon the reporting of such an incident, a PWD inspector is immediately dispatched to the site to investigate and determine the source of the discharge, as well as the extent of impact on the receiving water body. Each incident is logged into an electronic database that enables tracking of the details of each occurrence.

The PWD Customer Contact Center received 335,570 inbound phone calls in FY26. Currently PWD does not track phone calls specifically related to illicit discharges and improper disposals in the MS4 area, but instead tracks broader topics including sewage backup, flooding, street cave-ins, and water service disruptions.

Philly 311

Philly311 was created to help eliminate the need to sort through the numerous phone numbers and hotlines available to contact the city government. A customer service specialist will connect the user to the information and services they may need either by calling 3-1-1, asking a question on the website, or through Twitter @philly311. A Philly 311 mobile app is available for iPhone, Android, or Blackberry devices to report issues such as graffiti, potholes, litter and more. For more information on uses of Philly311, please visit: http://www.phila.gov/311/. During FY26, Philly 311 transferred 3,819 non-emergency inlet and hydrant requests to Customer Service Call Center.

j. Used Oil and Toxic Material Disposal

The City continues to facilitate the proper disposal of used oil and other toxic materials. This program includes collections events, distribution of educational materials, the operation of a website, and a hotline accessible to the public. The Philadelphia Sanitation Department hosts household hazardous waste (HHW) collection events for Philadelphia residents every year. The events provide an opportunity for the public to dropoff household hazardous waste that is not collected curbside or through other routine disposal options (**Table 15**). For more information on the hazardous waste program please visit: https://www.phila.gov/services/trash-recycling-city-upkeep/dispose-of-household-hazardous-waste/.

Table 14: FY26 Household Hazardous Waste Collection Events

Date	Area	Address
Thursday, July 10, 2025	Northeast Philadelphia	8401 State Rd., 19136
Saturday, Sept. 13, 2025	North Philadelphia	2121 W. York St., 19132
Saturday, Oct. 11, 2025	Southwest Philadelphia	3033 S. 63rd St., 19153
Saturday, Nov. 1, 2025	Port Richmond	3901 N. Delaware Ave., 19137
Saturday, April 11, 2026	Northeast Philadelphia	8401 State Rd., 19136
Saturday, May 9, 2026	West Philadelphia	4804 Parkside Ave., 19131
Saturday, June 13, 2026	Northwest Philadelphia	5201 Umbria St., 19128

k. Storm Water Inlet Labeling/Stenciling

Since 2015, PWD's stormwater inlet labeling program has included watershed specific markers representing the seven watersheds in Philadelphia. Each marker features a unique color scheme and an animal native to its respective watershed. Storm drain marking kits are assembled and distributed to volunteers, both individually and through partnerships with community and environmental organizations; kits include enough supplies to mark 15 storm drains as well as educational tip cards to inform the public about how their actions can reduce stormwater runoff pollution. PWD continues to utilize its web-based marking app to track which storm drains are marked by volunteers.

In FY26, a total of 137 storm drain marking kits were distributed to volunteers leading to 1,692 storm drains being marked throughout Philadelphia. The Partnership for the Delaware Estuary led nine storm drain marking events with volunteers and four additional presentations about the program and its connection to stormwater runoff. These presentations ranged from short five-minute flash talks to

longer stormwater lessons. In total, 16 watershed, civic, and educational organizations were engaged with storm drain marking this year, both in the distribution of kits and the installation of markers.

Section G Assessment of Controls

PWD has selected a set of effective post-construction stormwater management controls to address problems identified in the waterways and documented these controls in the Philadelphia Stormwater Management Guidance Manual. Philadelphia's stormwater regulations obligate all development projects subject to these regulations to implement the identified controls. The requirements of the stormwater regulations were developed through the Act 167 planning process in coordination with neighboring counties. The requirements are explained in detail in Section 1.2.1 of the Stormwater Management Guidance Manual and summarized below.

Water Quality

The Water Quality requirement focuses on the removal of both runoff volume and pollutants and is similar to requirements in surrounding states and other major cities across the country. Because flow rates and velocities were identified as significant causes of aquatic ecosystem impairment, infiltration is emphasized as the preferred water quality management practice unless evidence is provided that it is infeasible on a particular site. Additional water quality benefits are provided, in part, by slowing water flow rate and allowing suspended solids and associated pollutants to settle.

The Water Quality requirement stipulates infiltration of the first 1.5 inches of runoff from all directly connected impervious area (DCIA) within the limits of earth disturbance. The initial 2006 regulations required 1.0 inch of runoff to be managed, based on water budget analyses and precedents for control of the 90th percentile event set by Maryland and other nearby states with similar climates. In 2015, this requirement was increased to 1.5 inches based on evidence provided by simulations showing that this level of control will further reduce the volume and flow rate of runoff to waterways.

Channel Protection

Erosion of stream beds and banks caused by high volumes and velocities of urban runoff was identified as a significant contributing factor to aquatic ecosystem impairment in Philadelphia's stream systems. For this reason, a channel protection requirement was incorporated in the stormwater regulations. This requirement is based on the concept of effective channel forming discharge and is similar to precedents set by Maryland and other nearby states with similar climates and geology.

The Channel Protection requirement stipulates the detention and release of runoff from the one-year, 24-hour Natural Resources Conservation Service Type II design storm event for all DCIA within the limits of earth disturbance at a maximum rate of 0.24 cfs per acre of directly connected impervious drainage area in no more than 72 hours.

Flood Control

Act 167 Plans identified peak rates of runoff as a contributing factor to out-of-bank flooding events in Philadelphia and surrounding counties. To address peak rate control, geographically specific requirements were incorporated in Philadelphia's stormwater regulations and manual.

The Flood Control requirement stipulates that a development project meet or reduce peak rates of runoff, as determined by its Flood Management District, from predevelopment to post-development conditions during certain storm events.

Directly Connected Impervious Area (DCIA) There are approximately 20.7 square miles of impervious area in the portion of the City that falls under the MS4 permit. Since July 2010, approximately 1.70 square miles (1,088 acres) of directly connected impervious area are tributary to completed or approved green stormwater infrastructure. This is approximately 8.21% of the impervious area.

Section H Fiscal Resources

Maintain adequate program funding

During FY26, the City provided fiscal resources needed to support operation and maintenance of the Stormwater Management Program. The budget for the upcoming FY26 budget is available upon request.

Annually submit fiscal analysis

The conditions of the NPDES permit can be achieved through appropriate budget planning supporting the projects and assessments critical to a successful program. Any funding changes will be included as part of subsequent annual reports.

COMBINED SEWER & STORMWATER MANAGEMENT PROGRAM ANNUAL REPORTS

APPENDICES

Reporting Period July 1st 2025 to June 30th 2026

Submitted to:

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Clean Water

And

ENVIRONMENTAL PROTECTION AGENCY – REGION III
Water Protection Division

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APPENDIX A

Green City, Clean Waters

FY 2026 Annual Report

Fifteenth Annual Report for the City of Philadelphia's Consent Order and Agreement on Green City, Clean Waters

Reporting period July 1, 2025 – June 30, 2026

Submitted to
The Commonwealth of Pennsylvania
Department of Environmental Protection
And
The United States Environmental Protection Agency

By the City of Philadelphia Water Department
September 30, 2026

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Glossary of Acronyms

AOCC	Administrative Order for Compliance on Consent
BOD	Biological Oxygen Demand
City	City of Philadelphia
CMP	Comprehensive Monitoring Plan
COA	Consent Order and Agreement
CSO	Combined Sewer Overflow
EAP	Evaluation and Adaptation Plan
FWWIC	Fairmount Water Works Interpretive Center
GA	Greened Acre
GIS	Geographic Information Systems
GSI	Green Stormwater Infrastructure
LTCPU	Long Term Control Plan Update
NASSCO	National Association of Sewer Service Companies
NPDES	National Pollutant Discharge Elimination System
O&M	Operation and Maintenance
PACP	Pipeline Assessment Certification Program
PADEP	Pennsylvania Department of Environmental Protection
PCSMP	Post Construction Stormwater Management Plan
PennDOT	Pennsylvania Department of Transportation
PP&R	Philadelphia Parks and Recreation
PSWMR	Philadelphia Stormwater Management Regulations
PWD	Philadelphia Water Department
ROW	Right of Way
SIUA	Soak It Up Adoption
SMP	Stormwater Management Practice
SRT	Simulated Runoff Testing
TSS	Total Suspended Solids
UUW	Understanding the Urban Watershed
US EPA	United States Environmental Protection Agency
WPCP	Water Pollution Control Plant
WQBEL	Water Quality-Based Effluent Limit

1.0 Introduction

In 2011, the Consent Order and Agreement (COA) between the City of Philadelphia (City) and the Pennsylvania Department of Environmental Protection (PADEP), and in 2012 the Administrative Order for Compliance on Consent (AOCC) between the City and the United States Environmental Protection Agency (US EPA), formalized the regulatory approval of the *Green City, Clean Waters* program and amended the 2009 CSO Long Term Control Plan Update (LTCPU). This is the fifteenth Annual Report submitted under the requirements of the COA. Fiscal Year 2026 (FY26) covers the City's *Green City, Clean Waters* implementation progress activities that occurred between July 1, 2025, and June 30, 2026.

The Year 10 Evaluation and Adaptation Plan (EAP) submitted on May 30, 2022 to PADEP can be found at https://water.phila.gov/pool/files/gccw-year-10-eap.pdf. The Year 10 EAP provides a comprehensive assessment of program progress at the Year 10 milestone, including an assessment of compliance with Water Quality Based Effluent Limits (WQBEL) Performance Standards and an updated assessment of receiving water conditions.

The PADEP granted the City a force majeure extension for the requirements and deliverables associated with the Year 15 Performance Standards of the COA due to unforeseen impacts to the schedule for the Frankford Creek Crossing Improvement Project. This extends the Year 15 compliance deadline from June 1, 2026 to April 1, 2027 which includes a revised Year 15 Evaluation and Adaptation Plan (EAP) submission date of August 30, 2027. The Year 15 EAP will provide progress of achieving the Year 15 targets outlined in the Water Quality-Based Effluent Limits (WQBEL). The FY26 COA Annual Report will focus on progress accomplished in FY26.

1.1 Water Quality Based Effluent Limit Performance Standards

The Water Quality-Based Effluent Limits (WQBEL) performance standards are broken into incremental targets that must be achieved by the City every five years of the 25-year program. This annual report includes water pollution control plant and collection system improvements, interceptor lining, and greened acre (GA) interim progress towards the Year 15 WQBEL requirements. Volume reduction and mass capture are only reported every 5 years with updated values to be reported in the upcoming Year 15 EAP. **Table 1: Water Quality-Based Effluent Limits** displays the cumulative progress achieved at Year 10 and includes the upcoming Year 15 WQBEL requirements.

Table 1: Water Quality-Based Effluent Limits

Metric	Units	Base Line Value	Cumulative Amount as of Year 5 (2016)	Cumulative Amount as of Year 10 (2021)	Year 15 WQBEL Requirement
NE WPCP Improvements	*Percent Complete*	0	Reported progress in Year 5 EAP	**Reported progress in Year 10 EAP**	To report progress in Year 15 EAP
SE WPCP Improvements	*Percent Complete*	0			
SW WPCP Improvements	*Percent Complete*	0			
Miles of Interceptor Lined	*Miles*	0	7.5	**9.2**	14.5

Metric	Units	Base Line Value	Cumulative Amount as of Year 5 (2016)	Cumulative Amount as of Year 10 (2021)	Year 15 WQBEL Requirement
Overflow Reduction Volume	*Million Gallons Per Year*	0	1,710	**3,080**	3,619
Total GAs	*GAs*	0	837.7	**2,196**	3,812
Equivalent Mass Capture *(TSS)*	*Percent*	62%	70.5%	**77.5%**	Report value
Equivalent Mass Capture *(BOD5)*	*Percent*	62%	88.9%	**~100.0%***	Report value
Equivalent Mass Capture *(Fecal Coliform)*	*Percent*	62%	72.0%	**77.1%**	Report value

*BOD5 capture has met or exceeded the 85% equivalent mass capture. The amount of BOD5 captured has met or exceeded the load reduction that is associated with 85 percent capture volume treated using primary clarification and disinfection using the end-of-pipe treatment technology.

1.2 Green City, Clean Waters Green Infrastructure

Greened Acres (GA) are achieved through three implementation approaches: Public Retrofits, Private Development, and Incentivized Retrofits. **Table 2: Cumulative Greened Acres** displays the cumulative program progress at the end of Year 15 towards meeting the Year 25 GA requirement. The requirement was achieved prior to the deadline and ultimately exceeded by over 90 GAs by the close of the fiscal year.

Table 2: Cumulative Greened Acres

Implementation Approach	Cumulative Number of Projects (FY11-FY26)	Cumulative GAs (FY11-FY26)
Public Retrofits	396	1,395
Private Development	667	1,379
Incentivized Retrofits	145	1,129
Total	**1,208**	**3,903**

It is important to note that project specific GA values are subject to change and do not remain constant over time. A project's GA value is calculated using the best available information based on phase and site conditions which can result in adjustments. The designed GA is established from final design drawings and is then informed and updated upon the completion of construction to produce an as-built GA value. The as-built value can be updated post construction as maintenance and monitoring data is gathered to create an as-maintained GA value when appropriate. The GA calculation method revision introduced in the Year 10 EAP and solidified in the FY22 COA Annual Report is another example of the dynamic nature of the GA metric. The Greened Acre calculation method revision was based upon applying a data-driven understanding of performance gained through 10 years of program implementation, data collection, and analyses to date. For more details, please see https://water.phila.gov/pool/files/gccw-year-10-eap.pdf.

The current Greened Acre calculation method now accounts for storage, infiltration, and slow-release processes where applicable, with the following formula:

$$Wd(in) = \frac{\left(V_{storage}(ft^3) + V_{infiltration}(ft^3) + V_{slow\ release}(ft^3)\right)}{DCIA(ft^2)} * 12\left(\frac{in}{ft}\right)$$

2.0 Implementation Tracking and Reporting

2.1 Green City, Clean Waters Program Tracking

Various databases track program implementation and support data requests for internal and external reporting. The Department continues to ensure proper programmatic alignment across the various source databases for metrics calculations and reporting.

Table 3: FY26 Status Updates for Existing Databases and Systems

Existing Databases and Systems	Status
PlanIT	PWD's tracking system that stores information from site evaluations conducted on locations throughout Philadelphia. All sites must undergo an initial evaluation to determine the feasibility of green infrastructure before they can be transferred to CIPIT to begin design phase. In FY26, planning stage project tracking in PlanIT for Ecological Restoration Planning (ERP) team-initiated projects was officially launched, and the precision and consistency of project location assignments were improved with an enhanced GIS-based algorithm. Additionally, an upgrade of the application's mapping component was undertaken to keep PlanIT's tech stack modern and ensure long-term maintainability.
GreenIT	PWD's metrics tracking system for all public green stormwater infrastructure (GSI) projects. GreenIT tracks estimated, designed, built, and maintained compliance metrics. The GreenIT Data Entry Application is used to create metrics reports by consultants and staff that are directly uploaded to the GreenIT database.
CIPIT	CIPIT is PWD's Capital Program Information Tracking System which tracks project statuses through Design, Procurement, and Construction and displays bid amounts and percent invoiced.
SPRITE Application	PWD's tracking system that stores metrics and detailed SMP data for both private development projects that are subject to the Philadelphia Stormwater Regulations, as well as voluntary stormwater management retrofit projects. SPRITE is designed to track workflows related to reviews and inspections, including the status of conceptual and technical reviews, record drawing reviews, active and post-construction inspections, and active and post-construction enforcement. This application was recently developed to replace an antiquated system. The new app offers expanded functionality and accessibility for internal stakeholders as well as the Philadelphia development community and provides a system that will stay current with functionality and technology.
Geographic Information	GIS is used to track the location of all PWD assets. This includes public retrofit, private development and incentivized retrofit SMPs.

System (GIS) Asset Tracking	
Maintenance Management Systems	Inspection and maintenance activities for public green stormwater infrastructure are tracked in PWD's Cityworks work order management system. This system is linked to the City's GIS data and provides tools to track and manage work performed on other PWD assets such as fire hydrants, inlets, water mains, and sewers.

2.2 Reporting Metrics

Green Stormwater Infrastructure through Public Implementation

The information in GreenIT is used to produce compliance reporting outputs for the completed and planned public project tables in Appendices 1 and 2 of this report. The Public Completed Projects reporting format and metric definitions are described in Table 1 in **Appendix 1**. The Public Planned Projects reporting format is described in Table 1 in **Appendix 2**.

Green Stormwater Infrastructure through Private Development

Information from the SPRITE application is used to produce reporting outputs for completed Private Development and Incentivized Retrofits project tables in **Appendix 3**. The reporting format is described in Table 1 in **Appendix 3**.

Stormwater Management Practice (SMP) Types

SMP types used for public implementation are described in Table 2 of **Appendix 1** and SMP types used for private implementation are defined in Table 2 of **Appendix 3**.

3.0 Water Pollution Control Plant and Collection System Project Progress

3.1 Water Pollution Control Plant and Collection System Project Progress

Upgrades to increase the peak flow capacity at each of the City's Water Pollution Control Plants (WPCPs) were described in the Wet Weather Facility Plan (WWFP), submitted on June 1, 2016. During FY26, PWD has continued to work towards completing the projects committed to in the WWFP. The following sections present progress made on these projects during FY26. The *Green City, Clean Waters* WWFP can be referenced here: http://water.phila.gov/pool/Wet_Weather_Facility_Plan_website.pdf.

3.1.1 Northeast Water Pollution Control Plant

Within **Table 4**, the seven NE WPCP improvements committed to in the WWFP are listed with their required operation years, as approved by the PADEP. To date, five improvements have been completed, one is in construction and the final project is being further evaluated.

Table 4: Status of Northeast WPCP Improvements

Northeast WPCP Improvements	Anticipated Completion	Project Status (FY26)
Facility Improvements		
Remove Double Deck Effluent Channel in Final Sedimentation Tanks Set 2	6/1/2016	Complete (FY16)
New (4 x 48") conduits from Preliminary Treatment Building to Primary Sedimentation Tanks Set 1	6/1/2016	Complete (FY16)
High Flow Management System	6/1/2021	Complete (FY19)
Gravity Sludge Thickeners	6/1/2021	Complete (FY19)
Preliminary Treatment Building #2	2027	In Construction
New Influent Baffles in Primary Sedimentation Tanks Set	2031	In Planning
Operational Improvements		
Operate with minimal sludge blanket when Gravity Sludge Thickeners in service	6/1/2021	Complete (FY19)

Preliminary Treatment Building #2

PWD is upgrading the NE WPCP, located at the confluence of Tacony-Frankford Creek and Delaware River, with a new Preliminary Treatment Building (PTB) to increase treatment capacity. The new PTB eliminates some of the hydraulic constrictions which will increase the inflow into the NE WPCP. The primary benefit of this project is to reduce combined sewer overflow to the Tacony-Frankford Creek and improve water quality. The project will result in approximately 500-550 MG/year of CSO volume reduction. In FY26, all major structural concrete work was completed and the building envelope for the PTB, tunnel, and grit facility were completed. Influent and effluent channels are complete and await testing. All major backfilling operations were completed, and bio retention basin installation and final site grading are underway. All major mechanical systems are installed across the facility, with appurtenant piping, accessories, and electrical hook-up work continuing. The green roof was installed on the PTB. Some issues with on-site vandalism have significantly delayed energizing the permanent electrical system for the facility, which in turn is causing delays in testing and commissioning of the building's systems. The work to rectify related damage is underway. The 66" Frankford Creek High Level

has been connected to the new diversion chamber, with flow currently active through the new bypass conduit. Work on connection the 78" is expected to begin shortly.

In FY27, construction efforts will focus on finalizing sewer connections to the building and energizing and testing all building systems to prepare for building activation and initial flow through the new facility.

3.1.2 Southeast Water Pollution Control Plant

All Southeast WPCP improvement commitments in the WWFP were completed in FY16, meeting the required operation date of June 1, 2016. For more detailed information, please see the *Green City, Clean Waters* Wet Weather Facility Plan or the Year 5 EAP.

3.1.3 Southwest Water Pollution Control Plant

All Southwest WPCP improvement commitments in the WWFP were completed in FY16, meeting the required operation date of June 1, 2016. For more detailed information, please see Green *City, Clean Waters* Wet Weather Facility Plan or the Year 5 EAP.

3.2 Philadelphia Collection System Improvements

Within **Table 5**, the three Collection System improvements committed to in the WWFP are listed with their required operation dates. Two of the improvements were completed, meeting the required deadlines. The other identified improvement is to evaluate CSO regulator capacities and identify improvements, if necessary. These evaluations are ongoing and anticipated to continue throughout the implementation of the LTCPU, as PWD is committed to maintaining and improving the efficiency of the collection system. Additional Collection System improvements are described below.

Table 5: Status of Collection System Improvements

Collection System Improvements	Anticipated Completion	Project Status (FY26)
Improvements		
NE Second 66" Frankford Grit Chamber Bypass In Service	6/1/2016	Complete (FY16)
NE Frankford High Level Second Barrel Rehabilitation	6/1/2016	Complete (FY16)
All Districts: Balancing CSO Regulator Wet Weather Capacities	Ongoing	On Track

3.2.1 Additional Collection System Improvements

PWD continues to research and evaluate tools and technologies used within the Collection System and at the WPCPs to enhance performance when possible. PWD studies and evaluates potential collection system and WWFP projects to determine feasibility and cost effectiveness for inclusion in a Combined Sewer Overflow (CSO) mitigation program to expand upon or in addition to the projects committed to in the 2016 WWFP.

Frankford Creek Crossing

This project will replace the four separate pipes of the Frankford Creek Siphon with a single box sewer to remove a flow constriction in the Upper Delaware Low Level Interceptor (UDLL). The new box sewer will result in approximately 100 million gallons of CSO volume reduction in the typical year precipitation and provide capacity required for operation of the new D-05 chamber and other future improvements in the

collection system. Construction in this area of Frankford Creek has experienced delays due to the level of contamination at the site far exceeding anticipated amounts. Once the elevated contamination levels were identified, routine construction activities became irregular for approximately 10 to 12 months to conduct sampling and make iterative revisions to the personal protective equipment (PPE) outlined within the Health and Safety Plan (HASP), acquire appropriate safety gear onsite, establish air monitoring equipment around the perimeter of the site, and establish protocols for receiving and reacting to monitored results. The resultant effects of the new safety procedures and extensive monitoring protocols continue to impact the project's schedule and affect the contractor's ability to make up lost time. Despite these delays steady progress has been made in FY26. The entirety of the siphon has been demolished and removed and welding work on the braces supporting the steel sheet piling has begun. Upon completion of the placement of the piles, work will begin on the reinforced concrete pile caps. The placement of the pre-cast concrete sewer sections and cast in place sewer segments will be completed this Fall. The project is expected to be completed in early 2027.

D-05 CSO Regulator (State Road and Magee Avenue)

Construction of a new D05 chamber will increase the delivery of combined sewer flow to the UDLL system. This chamber modification will help utilize the additional conveyance capacity provided by expansion of the Frankford Creek Crossing project. The new D05 chamber will include real time control and help utilize interceptor capacity efficiently. The construction of the new chamber was completed in 2025, however wire corrosion occurred when low levels of sewer gas seeped into the control panel during construction. In FY26, the sewer gas leak was corrected, and the controls were replaced. The new chamber is operationally complete and undergoing calibration checks.

42nd Street Pump Station Expansion

Based on evaluation of the collection system, as well as considering the necessary operational upgrades, it was determined that there are advantages to replacing the combined sewer pump station located at 42nd Street with a station of larger pumping capacity. A preliminary feasibility study has been completed to determine the constructability and sizing of the pump station. The study determined that the current 8 MGD (peak flow) pump station could be expanded to 60-100 MGD. This upgrade would accommodate increased flow to the SW WPCP and reduce CSO volume. The project is currently in the bid process with advertisement expected in September. It is estimated that it will reduce CSO volume by approximately 200-250 MG/year, but the reduction will be dependent on final sizing of the pump station. In FY26, the project received a Department of Housing and Urban Development grant to assist with funding the project.

Thomas Run Relief Sewer (R-01)

A Basis of Design report for the modification of the Thomas Run relief sewer was completed in March 2026. The report evaluates the potential for this system to be maximized for in-line storage during wet weather by creating a static dam, a new interceptor connection, and CSO regulator site. Alternatives considered include relocating the outfall to minimize disruption to trees and recreational areas in the Cobbs Creek Park and combining small sewersheds (C-15 and C-16) into the Thomas Run Relief Sewer catchment for additional CSO control.

Wingohocking Creek Tunnel Planning Study

A planning study for the Wingohocking Creek Wet Weather Tunnel is underway focusing on hydraulic optimization, community and stakeholder engagement, geotechnical studies, and the evaluation of regulatory impacts. A committee of internal subject matter experts are coordinating to review and

discuss deliverables on collector system characterization, community engagement, diversion chamber layouts and locations, and opportunities for estimated CSO reduction.

Southwest Drainage District Regulator Modification (S-20, S-05 and S-26)

The primary project goal is to increase the flow capacity through each regulator to decrease CSO volumes in the Southwest Drainage District.

Evaluation of S-20 will include expansion of the DWO opening at the existing chamber and construction of a new chamber to allow for tidal and storm surge backflow prevention at a location that allows for improved maintenance access. The potential new S-20 chamber location is within an existing ROW on University of Pennsylvania property, which will require coordination with the university.

Evaluation of S-05 and S-26 includes expansion of existing DWO openings within regulating chambers and removal of Brown & Brown regulators.

Regulating Chamber S-50

Modifications to regulating chamber S-50 are in progress. The modifications will increase flow from the regulator to the southwest main gravity interceptor, reducing CSO volume in the southwest drainage district. The project is currently in construction. Additionally, replacement of the tide gate will provide tidal and storm surge backflow prevention and preserve hydraulic capacity within the interceptor. Based on the tide gate delivery schedule and the expected construction duration the project should be completed by the end of FY27.

3.3 Interceptor Relining and Rehabilitation

3.3.1 FY26 Progress on Miles of Interceptor Lined

The WQBEL Performance Standards required 6 miles of interceptor lining to be completed by the end of Year 10 (2021) which was achieved and reported in the Year 10 EAP. To date, 11.8 miles of interceptor have been completed. Looking at progress towards the Year 15 target, there are 2.3 miles in construction (**Table 6**).

Prior to scoping rehabilitation efforts, each interceptor segment is inspected to determine condition and need for rehabilitation. The Frankford High Level Interceptor (FHL) was studied to determine the condition of the interceptor prior to scoping rehabilitation efforts. This segment is labeled as “Tacony Creek Intercepting Sewer Lining Phase 3” in the table below. The section of the FHL evaluated is approximately 6,000 linear feet in length originating just downstream of Regulator T-14 and terminating near the intersection of O Street and Erie Avenue. The evaluation confirms that this segment of the FHL is in serviceable condition and any observed defects, such as root intrusion or surface spalling, can be corrected with spot repairs and debris removal. The report concludes that application of a continuous liner to the FHL, as has been pursued with the other segments listed in the WQBEL Performance Standards, is not recommended to correct infiltration or exfiltration in this case; the rehabilitation work can be completed at a much lower cost by pursuing the recommended spot repairs and debris removal rather than relining the full section of the interceptor.

In 2023, PWD shared inspection results of the Phase 3 Tacony Creek Intercepting Sewer segment with PADEP, along with a recommendation that the segment is not appropriate for lining. DEP responded in agreement with the recommendation with an understanding that PWD maintain the segment in serviceable condition.

Cobbs Creek Intercepting Sewer Lining Phase 2 (1 mile) – In Construction

Lining of the Cobbs Creek intercepting sewer from 61st and Baltimore to 60th and Warrington is underway. The project entered construction in 2024 but permitting challenges, difficult site conditions, and heavy debris found in the pipe delayed the project. In FY26, sewer bypass installation and sewer cleaning began and are 90% complete and approximately 1.0 mile has been lined. The site restoration, demobilization, etc. is expected to be completed by the end of the calendar year.

Tacony Creek Intercepting Sewer Lining Phase 4 and 5 (2.3 miles) – In Construction

Lining of the Tacony Creek intercepting sewer from Caster & Wyoming to Frankford/Hunting Park (Phase 4) and Frankford/Hunting Park to Luzerne and Richmond (Phase 5) is underway. The project entered construction in July 2025. In FY26, sewer bypass installation and sewer cleaning began and are 20% complete and 0.5 miles (or 2500 feet) have been lined. The full lining is expected to be completed by the end of the calendar year.

After construction of the remaining segments, a total of 14.1 miles of interceptor is expected to be relined by the Year 15 deadline. The total is different than the 14.5 miles originally planned for and required by the program's Year 15 milestone. Justification for the Tacony Creek segment that was evaluated and not recommended for lining was reported on in the Year 10 EAP and is described above.

Table 6: Interceptor Relining FY26 Status

Project Name	Street Extents	Length (Miles)
Construction Complete		**10.8**
60th and Cobbs Creek Parkway to 75th and Wheeler Sewer Lining	60th and Cobbs Creek Parkway to 75th and Wheeler	2.2
Cobbs Creek Park to 63rd and Market Sewer Lining	Cobbs Creek Park to 63rd and Market	0.5
Cobbs Creek Interceptor Phase 1 CIPP Lining	63rd and Market to 62nd and Baltimore	1.6
Tacony Creek Intercepting Sewer Lining Phase 1	Chew & Rising Sun to I & Ramona	1.9
Tacony Creek Intercepting Sewer Lining Phase 2	2nd St & 64th Ave to Chew & Rising Sun; DRW Mascher to Tacony Interceptor; Cheltenham Ave to Crescentville & Godfrey	1.3
Cobbs Creek Interceptor Lining Phase 3	City Avenue to D R/W in former 67th Street	1.7
Cobbs Creek Intercepting Sewer Lining Phase 4 (Indian Creek Branch)	City Avenue to D R/W in former 67th Street	1.6
In Construction		**3.3**
Cobbs Creek Intercepting Sewer Lining Phase 2	61st and Baltimore to 60th and Warrington	1.0
Upper Frankford LL Collector/Tacony Intercepting Sewer Lining Phase 4	Castor & Wyoming to Frankford/Hunting Park	1.1
Upper Frankford Creek LL Collector/Tacony Intercepting Sewer Lining Phase 5	Frankford/Hunting Park to Luzerne & Richmond	1.2

Project Name	Street Extents	Length (Miles)
Lining Not Recommended		1.0
Tacony Creek Intercepting Sewer Lining Phase 3	I & Ramona to O & Erie	1.0
Total Anticipated Miles of Interceptor Lined		**14.1**

4.0 Green Stormwater Infrastructure through Public Implementation

The programmatic strategies for achieving public GAs are benchmarked in four phases: planning, design, construction, and post-construction maintenance. The following four subsections describe the progress made during FY26 for each of these phases. **Table 7** summarizes Public GSI projects and GAs for FY26. Later in this section, **Figure 1** displays the Planned and Completed Public GSI projects. A full list of completed public projects can be found in **Appendix 1,** and a full list of planned public projects can be found in **Appendix 2**.

Table 7: FY26 Summary of Public Green Stormwater Infrastructure

	End of FY26			Cumulative
Project Phase	**In Design**	**In Contract Development**	**In Construction**	**Completed**
Number of Projects	168	53	60	**370**
Current Number of GAs	TBD*	150	298	**1,216**

*An accurate GA value cannot be provided until the design phase is completed

4.1 Planning Approaches for Green Stormwater Infrastructure Implementation

During FY26, PWD completed analysis of all public GSI retrofit opportunities in the entire combined sewer area. This analysis includes all remaining Philadelphia Parks and Recreation (PPR) and City facility sites and right-of-way management opportunities on 300+ school sites. Priority has been placed on packaging sites in high and medium priority sewersheds where GSI would have the highest impact on CSO volume reduction. With the predominant program type being green streets, GSI Planning has continued its extensive coordination with water and sewer planning to address holistic linear asset replacement.

GSI Planning has also continued to meet regularly with PWD units to improve feedback loops and streamline project processes. As more GSI projects are constructed, communication has increased around project retrofits and retirement, operation and maintenance needs, and data tracking to better address needs in the planning phase

4.1.1 Planning Outreach and Coordination

PWD works closely with a variety of partners to implement the *Green City, Clean Waters* program throughout all stages of a project. In FY26, PWD continued to refine coordination with City agency partners such as Streets Department and PPR to address project-level feedback and tracking to minimize impacts to project designs and timelines.

This past year, GSI Planning coordinated with PWD's Public Affairs team to finalize outreach workflows to address the increase in integrated projects that include GSI, water, and sewer replacement, including updating outreach maps and project pages. In addition to moving forward on planning for public retrofit GSI, coordination with non-City partners has supported projects applying for stormwater grants and other implementation mechanisms. Planning outreach and coordination will continue to take a holistic approach to maximizing stormwater management by utilizing a combination of implementation tools available.

4.2 Design Approaches

During FY26, PWD continued to advance public GSI through public retrofit projects led by GSI Design, integrated water and sewer replacement projects led by Water/Sewer Design, and GSI opportunities at PWD's plants and facilities. PWD completed designs for 75 GAs through the public retrofit pipeline and 14.5 GAs through the integrated water and sewer pipeline, for a combined total of 89.5 GAs.

PWD continued to coordinate with the Streets Department, Pennsylvania Department of Transportation (PennDOT), PPR, other PWD units, and utility owners to identify conflicts, clarify utility approval requirements, and minimize impacts to project designs and timelines. Emphasis was placed on roadway grading, pedestrian accessibility requirements, and utility review and clearance.

PWD also continued to update design standards, specifications, review procedures, and quality-control tools to improve consistency and constructability. These efforts included updates to project scoping procedures, strengthening consistency in calculation and quantity reviews, clarifying utility submission requirements, and incorporating lessons learned during design and construction into technical guidance. PWD will continue these efforts in FY27 to improve review efficiency and support delivery of the public GSI program.

4.3 Construction

In FY26, PWD continued work on streamlining and improving the construction process through staff training, guidance updates, additional construction support tasks from the design team, and frequent coordination. FY26 highlights are listed below.

- PWD's Design and Construction teams coordinated to improve the delivery of As-built drawings by streamlining the red line markup processes to reflect changes to the Design plans as construction progresses. This ultimately ensures all changes are included in the As-Built drawing and is intended to help shorten the time it takes to prepare As-built drawings upon projection completion. The Red lines drawings are used to track updates of plans during construction and are utilized by the GSI monitoring and maintenance teams before final As-builts are available.
- Completed updates to the GSI Master Specifications, Construction Details, and Bid Item List/Engineering Estimate template from lessons learned and continued to more appropriately reflect specification differences for green-only and green on water/sewer projects.

- PWD's landscape design team gathered feedback from the construction, monitoring, and maintenance teams to prepare soil guidance for contractors which included a listing of soil vendors with stormwater and planting soil that follows standards.
- PWD's Field Inspectors Guide was updated to include a new section for GSI construction guidance. The content was based on feedback gathered over year of PWD GSI implementation to inform and improve GSI construction practices.
- PWD's GSI Monitoring team continued coordination with Construction to develop modifications to design specifications and construction guidance to improve performance of fully lined and partially lined systems, domed risers, and VCP inlet connections and researched alternative geotextile and pipe material. The implementation of liner testing during construction continued to yield reduced average recession rates in FY26.

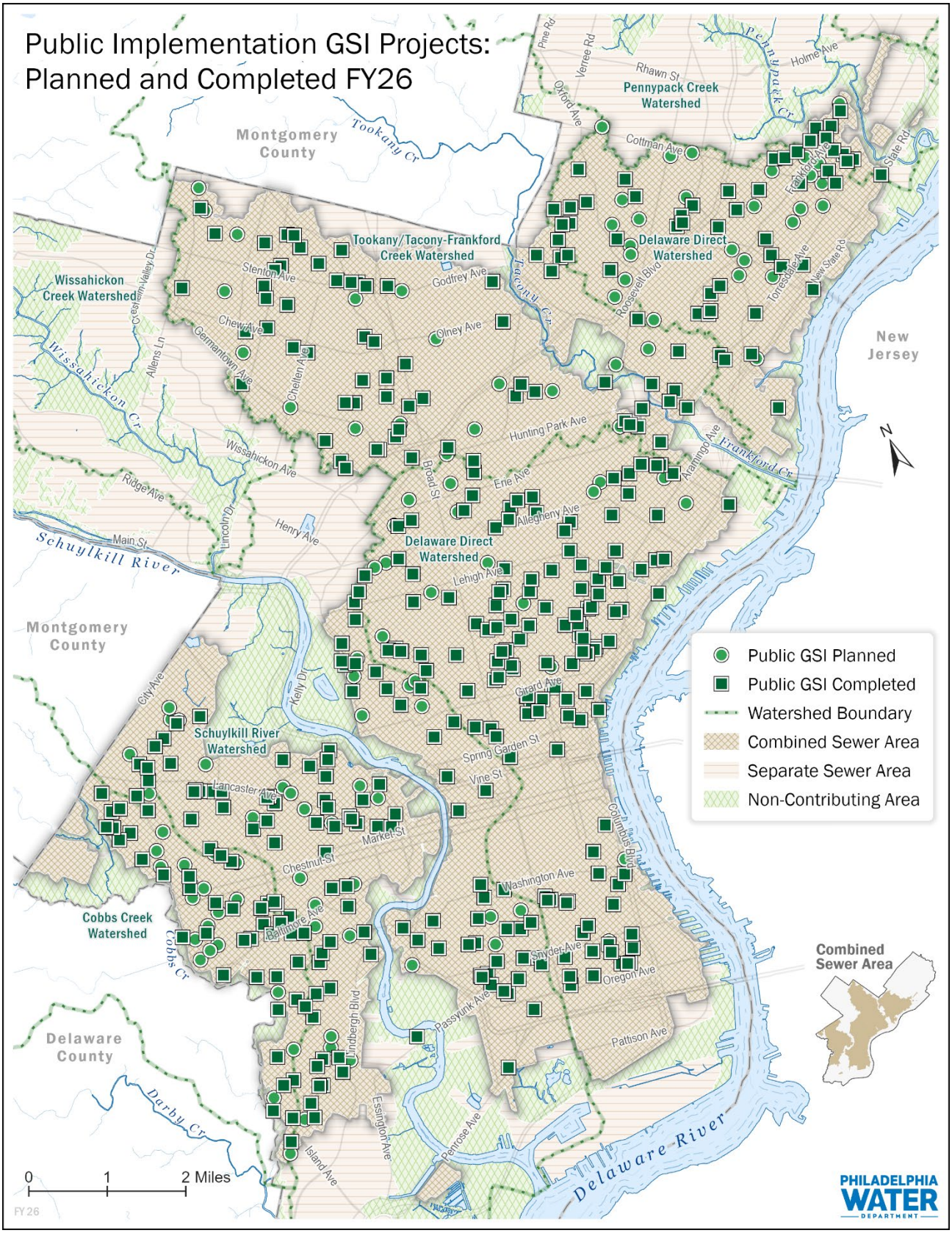


Figure 1: Public Green Stormwater Infrastructure Projects

4.4 Public Green Stormwater Infrastructure Maintenance Program

To ensure the function and sustainability of stormwater management infrastructure investments, PWD continues to implement a GSI maintenance program. **Table 8** provides a count of SMPs by type that received work orders in FY26. PWD implements post construction maintenance in accordance with the Green Infrastructure Maintenance Manual.

Table 8: FY26 PWD SMP Types in Maintenance

SMP Types	Total Number of SMPs in the Combined Sewer System (CSS)	Total Number of SMPs with Work Orders Citywide
Tree Trench	830	870
Rain Garden	180	192
Stormwater Planter	103	124
Stormwater Bumpout	237	256
Infiltration/Storage Trench	559	590
Pervious Paving	4	5
Green Roof	1	2
Swale	55	55
Basin	2	8
Stormwater Tree	138	138
Drainage Well	4	4
ROW Connection (Inlets)	57	59
ROW Connection (Trench Drains)	6	6
Green Gutter	1	1
Wetland	4	8
Total Number of SMPs		**2,318**

4.4.1 Inspections

Inspection of Surface Elements

While PWD has prescribed maintenance frequencies for GSI, practice and experience have determined that pre-maintenance inspections are the best method to determine the level of maintenance required. At each SMP that has surface features, PWD completed pre-maintenance surface inspections.

In FY26, PWD conducted 4,774 pre-maintenance surface inspections. The condition of the site at the time of the pre-maintenance inspection determined whether maintenance is required. PWD also performs dry weather and wet weather inspections for a more comprehensive assessment. By the conclusion of FY26, PWD completed 2,812 dry weather inspections and 251 wet weather inspections. In FY26, PWD conducted a total of 7,837 surface inspections.

Inspection of Subsurface Elements

The objective of the subsurface inspection program is to observe and assess all structural components of SMPs that exist below street level. Inspections are performed in dry weather conditions as capturing discernable video during wet weather conditions is difficult. Inspection staff are certified through the National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP).

PWD completed a total of 779 post-construction inspections and 3,456 post-maintenance inspections. The post-construction inspections were associated with 196 SMPs and a total of 8.94 miles of pipe. The post-maintenance inspections were associated with a total of 1,182 SMPs and 40.08 miles of pipe. The conditions of each pipe run at the time of the inspection determined whether maintenance was completed and if any structural defects were present.

4.4.2 Maintenance

PWD's GSI maintenance program operates through three types of maintenance activities to adequately address the maintenance needs of PWD's GSI. Work orders associated with inspection and maintenance events for surface maintenance, subsurface maintenance, and porous maintenance are summarized in **Table 9**.

Table 9: FY26 Summary of Maintenance Events by Type

Work Order Type	Number of FY26 Events
Surface	
Surface Inspection	4,774
Surface Maintenance - Routine	7,176
Surface - Mulching	1,004
Surface - Pruning	327
Surface Maintenance - Watering	3,220
Tree Maintenance	472
Trench Drain Maintenance	436
Work Zone Protection	0
Aesthetic	502
Signage Repair	126
Surface Vegetation Cutback	459
Snow Removal	19
Rough Mowing	18
Turf Mowing	6
Surface Maintenance - Reactive	
Surface Vegetation Repair	172
Earthwork	12
Surface Structural Repair	68
Drainage Modification	10

Work Order Type	Number of FY26 Events
Subsurface	
Sub-surface – Post Construction Inspection	779
Sub-surface Maintenance	3,456
Sub-surface Inlet Cleaning	2,892
Sub-surface Inlet Protection Maintenance	1,418
Surface Inlet Protection Maintenance	20,864
Non-Standard Subsurface Inspection	0
Non-Standard Subsurface Maintenance	0
Subsurface Structural Repair	4
Porous	
Routine Porous Maintenance	8
Restorative Porous Maintenance	0
Total	**48,222**

PowerCorpsPHL

Over the past decade, the City and PWD have implemented new strategies to promote the economic and social growth of the city and meet environmental, ecological, and business missions. In support of these initiatives, and to augment PWD's GSI maintenance responsibilities, PWD entered a partnership with PowerCorpsPHL. PowerCorps is a City of Philadelphia AmeriCorps initiative designed to engage youth, ages 18-26, which transforms lives through service and workforce development. **Table 10** summarizes the amount of material collected by PowerCorps in FY26.

Table 10: PowerCorpsPHL Trash and Debris Removal in FY26

Amount collected (in pounds)	Amount collected (in tons)
39,393	**19.7**

4.4.3. SMP Abandonments

Two SMPs were retired and abandoned in FY26. When a SMP is retired due to performance issues or nearby development impacts, it is permanently taken offline, no longer maintained, and is removed from compliance reporting.

5.0 Green Stormwater Infrastructure through Private Development

5.1 Philadelphia Stormwater Management Regulations

The Philadelphia Stormwater Management Regulations (PSWMR) were established in January 2006. Periodic updates are made to reflect changing regulatory requirements, emerging development concerns, feedback from ongoing monitoring and post-construction inspections, and advances in stormwater management technology and best practices. The City of Philadelphia requires stormwater management for most land development projects in the City of Philadelphia that feature 15,000 square feet or more of earth disturbance. Plans for proposed projects must be submitted for Conceptual Review to pursue a zoning permit, while the submission of detailed stormwater management plans must receive a technical review and approval prior to obtaining a building permit.

A summary of constructed GAs through private development projects by watershed is listed below in **Table 11**. A full list of completed private development projects can be found in Table 3 **Appendix 3**. At the end of this section, **Figure 3** displays the completed green infrastructure installed through private development and incentivized retrofits.

Table 11: FY26 Cumulative Completed Greened Acres by Watershed through Private Development

Watershed	Darby-Cobbs	Delaware	Pennypack	Tookany-Tacony/ Frankford	Schuylkill	Cumulative Completed
Number of Projects	31	295	4	81	256	667
Greened Acres	30	707	8	151	483	**1,379**

5.1.1 Expedited Review

PWD offers a service level goal of no more than a fifteen-day review for all projects submitted for post-construction stormwater management plan review. However, projects that propose preferred green stormwater management approaches are eligible for an expedited, five-day review. PWD offers two types of expedited reviews: 1) disconnection green review and 2) surface green review. The disconnection green review ensures redevelopment projects that disconnect 95% or more of the post-construction impervious area—using features such as green roofs, porous pavement, and new tree canopy—will receive a review response within five days. The surface green review expands the number of eligible projects by including both new development and redevelopment projects that manage 100% of the post-construction impervious area through bioinfiltration and bioretention basins as well as the practices that qualify for the disconnection green review. In FY26, a total of fourteen projects qualified for an expedited review in the combined sewer areas, with twelve projects selecting the disconnection green review and two projects selecting the surface green review.

5.1.2 Active Construction Inspections

For projects that proceed to construction, the installations of SMPs are inspected by PWD during construction. Active construction inspections are completed for both private development and incentivized retrofit projects in accordance with standard inspection procedures. During FY26, PWD conducted 4,032 inspections during active construction in the combined sewer area.

5.1.3 Construction Verification Initiative

PWD continued to refine a construction verification process with the goal of assessing individual projects prior to counting GAs toward compliance totals. This process emphasizes communication efforts from the start of the development project so property owners can adequately plan for record drawing creation. Throughout construction and at the time of construction completion, PWD conducts inspections of the site to observe and document installation of the approved SMPs. PWD also continued to perform outreach at the close of construction to solicit record drawings from project engineers and owners. Since August 2023, PWD is holding the certificate of occupancy for all approvals until the record drawing and other required documents are provided. These record drawings allow PWD to verify SMP installation and function.

In addition to this process, PWD continued to pursue a verification initiative to gather documentation of approvals that have not otherwise been verified and create record drawings to document the constructed conditions. To date, 220 projects with a total of 338 GAs have been inspected and verified through this supplemental approach.

5.1.4 I-95 Reconstruction Project

PennDOT is reconstructing Interstate 95 (I-95) in Philadelphia. Three components of the I-95 reconstruction project support stormwater management: 1) disconnection of stormwater from the combined sewer system; 2) ensuring that redevelopment occurs in a manner consistent with the PSWMR; and 3) installation of GSI in the public right-of-way.

The work on I-95 in Philadelphia is broken into two sectors: Sector A and Sector B. The multi-phased work between Bleigh Avenue and Race Street is known collectively as Sector A. Sector A of the I-95 Reconstruction Project is divided into five major design sections, moving from north to south: CPR, BSR, BRI, AFC, and GIR. Each of these sections is further subdivided into a total of twenty-four construction subsections. Sector B encompasses the area from Race Street to Girard Point Bridge (airport side). At present, Sector B has two design sections delineated, Section CAP from Chestnut to Walnut, and Section CSP from Vine Street to Girard Point Bridge (airport side). Some of the design and construction work for Sector B may be concurrent with the work in Sector A.

A graphic illustrating the I-95 Reconstruction Project sections is featured below in **Figure 2**.

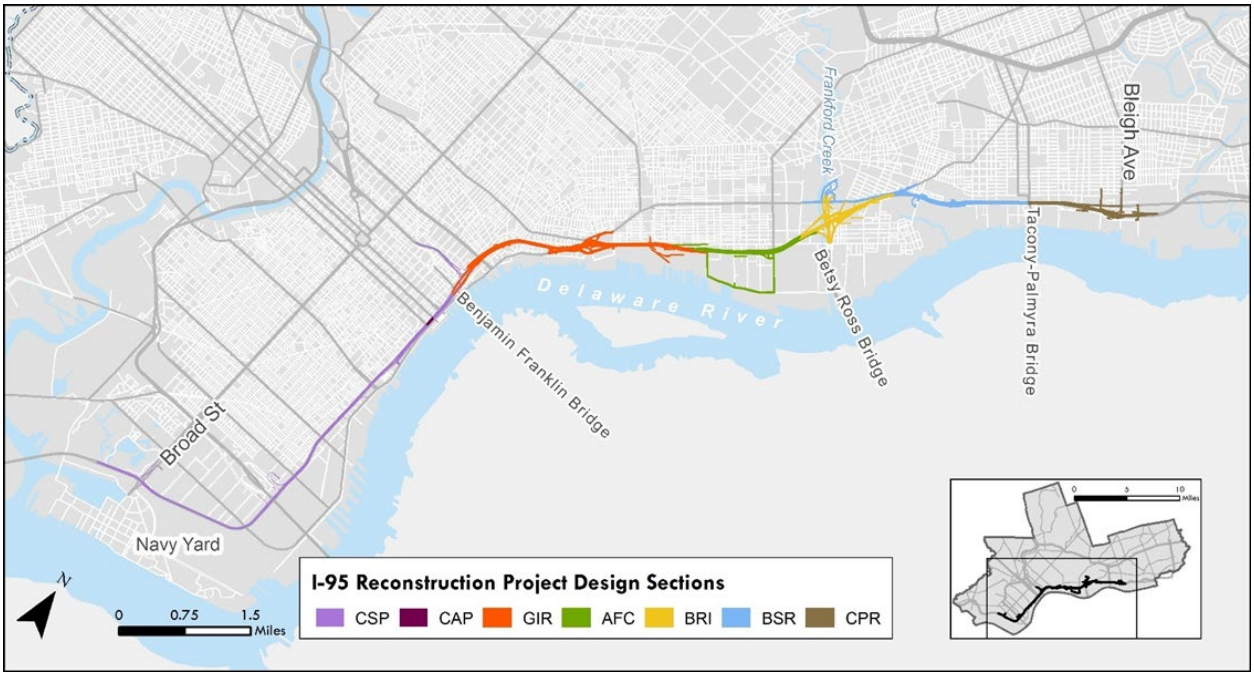


Figure 2: I-95 Reconstruction Project Sections

Project updates for the construction subsections with significant design or construction progress in FY26 are summarized in **Table 12.** The PennDOT I-95 website is available at the following link: https://95revive.com/.

Table 12: I-95 Construction Section FY26 Updates and Anticipated Bid Dates

Section	Project Description/ Update	FY26 Project Phase	Completion Date
Sector A – Between Bleigh Avenue and Race Street			
Section CPR (Cottman-Princeton Ramp Area)			
CP2	Six new separate stormwater outfalls have been completed in Cottman Avenue, Princeton Avenue, Magee Avenue, Disston Street, Unruh Avenue, and Bleigh Avenue. The stormwater pipes are designed to accept the drainage from the highway as well as the area in between the highway and the Delaware River as development occurs.	Completed	2017
CP3	Relocation of approximately 1500 feet of sanitary sewer.	Completed	2024
Section BSR (Bridge Street Ramp Area)			
BS1	Construction underway. Work includes the construction of one bioretention system, one media filter, two VorTech separators, and one new outfall in Levick Street will be constructed to treat stormwater from the mainline highway.	Completed	2023
BS4	New PWD storm sewers, inlets, and new outfalls were installed to convey the new Adams Street runoff. Three basins with amended	Completed	2020

	soils and impervious liners were constructed to treat stormwater from the new interchange ramps.		
BS2	Work will include two bioinfiltration basins and five bioretention basins to manage stormwater from the mainline highway. Also proposing 9 tree trenches which will be owned and maintained by PWD. A portion of the drainage area to the tree trenches is existing impervious ROW which will be banked for trade in future phases of the I-95 expansion project. Anticipated bid date calendar year 2022.	In Construction	(2028)
BS3	Reconstruction of Aramingo Avenue from Church Street to Tacony Street; continuing north on Harbison Avenue to Amtrak overpass. Project is anticipated to be bid in 2026.	In Design	(2032)
BS5	Extension of Delaware Avenue from its current terminus at Orthodox Street to Tacony Street. Anticipated bid date end of calendar year 2025.	Approved for Construction	(2031)
Section BRI (Betsy Ross Interchange Area)			
BR0	PWD sanitary and storm sewer culverts were relocated. Stormwater runoff from the reconstructed portions of the highway and ramps was treated by under-drained bioretention and water quality units then directly discharged to the Frankford Creek, removing the drainage area from the CSO system.	Completed	2017
BR2	Under construction. Basins built in BR0 will be reused in BR2 and new basins will be installed. The new basins will be sized for future phases as well. All basins will have forebays, be non-infiltrating, and have amended soils and underdrains with a rock layer and liner. The PennDOT-owned outfall locations in BR2 will be reconstructed in the same locations as existing outfalls. Anticipated completion date calendar year 2023.	Completed	2023
BR3	Reconstruction of northbound lanes of I-95 from Wheatsheaf Lane to just north of Margaret Street. Anticipated bid date calendar year 2024.	In Construction	(2031)
BR4	Reconstruction of the southbound lanes of I-95 from Wheatsheaf Lane to just north of Margaret Street. Anticipated bid date calendar year 2026.	In Design	(2032)
BR5	Includes work related to the Conrail/NJ Transit railroad line. Bridge over northbound ramps to the Betsy Ross Bridge and Aramingo Avenue will be rehabilitated. Anticipated bid date calendar year 2027.	In Design	(2031)
Section AFC (Ann to Frankford Creek Area)			
AF1	Streetscape work within the Richmond Street right-of-way (ROW) between Allegheny and Westmoreland is not subject to the Stormwater Regulations. Improvements to Melvale Street will be managed by two infiltration trenches that will be owned and maintained by PWD.	Completed	2020
AF2	Work included rebuilding of side streets prior to mainline construction. Proposing a net decrease in impervious area and a GSI tree trench along Castor Avenue. The managed area was banked for future phases.	Completed	2023
AF3	Reconstruction of northbound and southbound I-95 and its structures between Tioga Street and Wheatsheaf Lane. Section SF3 is in Final Design and tentatively scheduled to start construction in 2025.	In Construction	(2031)

AF4	Reconstruction of southbound I-95 and its structures between Tioga Street and Clearfield Street. Section AF4 is in Final Design and tentatively scheduled for construction in 2029.	In Design	(2036)
Section GIR (Girard Avenue Interchange Area)			
GR1	The reconstruction of Richmond Street was managed by street trees and a bioretention basin. A new separate sewer system was constructed and connected below the regulators in Dyott Street and Cumberland Street.	Completed	2017
GR2	The mainline highway areas are managed by multiple bioretention basins along the side of the highway.	Completed	2016
GR3	GR3 is the northbound mainline highway segment. One separate sewer outfall was constructed in Cumberland Street. In Dyott Street, a pipe was constructed that ties in below the regulating chamber. A sewer was found in the old Lehigh Avenue ROW and rehabilitated to separate a portion of the highway drainage. Stormwater is managed in GR3 using bioretention basins, infiltration basins, and detention basins. The basins are designed to manage the water quality volume.	Completed	2018
GR4	GR4 is the southbound mainline highway segment and is currently under construction. Stormwater is managed in GR4 using bioretention basins, infiltration basins, and detention basins. The basins are designed to manage the water quality volume.	Complete	2023
GR5/ GR6	Reconstruction of I-676/Vine Street ramp connections with northbound/southbound I-95. Anticipated construction start for GR6 is calendar year 2026. Anticipated construction start date for GR5 is calendar year 2028.	In Design	(2031/2033)
Sector B – Race Street to Girard Point Bridge (Airport Side)			
Section CSP (Central and South Philadelphia Area)			
CAP	CAP project is a 600’ wide structure spanning I-95 and Christopher Columbus Blvd between Walnut and Chestnut Streets. An area of fill will gently slope from the structure to the Delaware River waterfront. A vegetated park, recreational areas, walkways, and several building structures are proposed on the CAP structure and fill area. The majority of the CAP structure is proposed to function as a green roof with the remaining impervious area managed by a cistern with captured runoff reused as greywater for the restroom facilities and a subsurface detention basin. Earth disturbance in 95 and Columbus will be minimal under the CAP. Areas outside of LOD, managed by the CAP are eligible for management banking. All SWM components must be designed and built in accordance with the Green Stormwater Infrastructure design standards.	In Construction	(2029)
CSP - I-95 NB/SB between Race Street and Girard Point Bridge		**Planning Study Completed**	

5.2 Incentives for Private Property Owners to Implement Green Stormwater Infrastructure

PWD offers incentives to private landholders to implement stormwater management practices on existing properties to reduce stormwater pollution entering the City's sewers and surrounding waterways while enhancing water quality in the region's watersheds. A summary of completed GAs from incentivized retrofit projects by watershed is listed below in **Table 13**. A full list of completed incentivized retrofit projects is available in Table 4 of **Appendix 3**.

Table 13: FY26 Cumulative Completed Greened Acres by Watershed through Incentivized Retrofits

Watershed	Darby-Cobbs	Delaware	Pennypack	Tookany-Tacony/ Frankford	Schuylkill	Cumulative Completed
Number of Projects	2	47	6	46	44	**145**
Incentivized GAs	4	426	45	336	318	**1,129**

5.2.1 Zoning Bonuses

The Philadelphia Zoning Code incentivizes stormwater management through height and density bonuses. PWD helps determine the criteria for earning a bonus, but the code is written by the Philadelphia City Planning Commission and enacted by City Council, which limits PWD's control over the process.

Green Roof Density Bonus

The Philadelphia Zoning Code offers incentives to projects citywide that install green roofs by providing exceptions to certain residential density rules. To be eligible for these exceptions, the project must be located in the designated zoning districts and propose coverage of at least sixty percent (60%) of the roof's surface with a green roof. In July 2018, the Zoning Code was amended to allow eligibility for existing buildings. New building construction must involve at least 5,000 square feet of earth disturbance, while existing buildings must have a minimum footprint of 5,000 square feet. The green roofs are designed to PWD standards and inspected by PWD during construction. PWD also executes operation and maintenance agreements with the project owners, ensuring the long-term maintenance and functionality of the green roof system. Projects submitted for this bonus sized between 5,000 square feet and 15,000 square feet of disturbance were not required to install stormwater management practices to comply with the PSWMR. In FY26, a total of twelve projects took advantage of the green roof density bonus, eleven of which were in the combined sewer area.

Height Bonus

The Philadelphia Zoning Code offers incentives to projects in the East Callowhill Overlay (ECO) and Central Delaware Overlay (CDO) Districts that provide stormwater open space and/or manage stormwater runoff from the public right-of-way (ROW) that front their property. PWD also executes Operation and Maintenance agreements with the project owners who take advantage of these bonuses, ensuring long-term maintenance and functionality of the SMPs. To date, four projects have received

post-construction stormwater management plan (PCSMP) approval using a height bonus and two of those projects have completed construction.

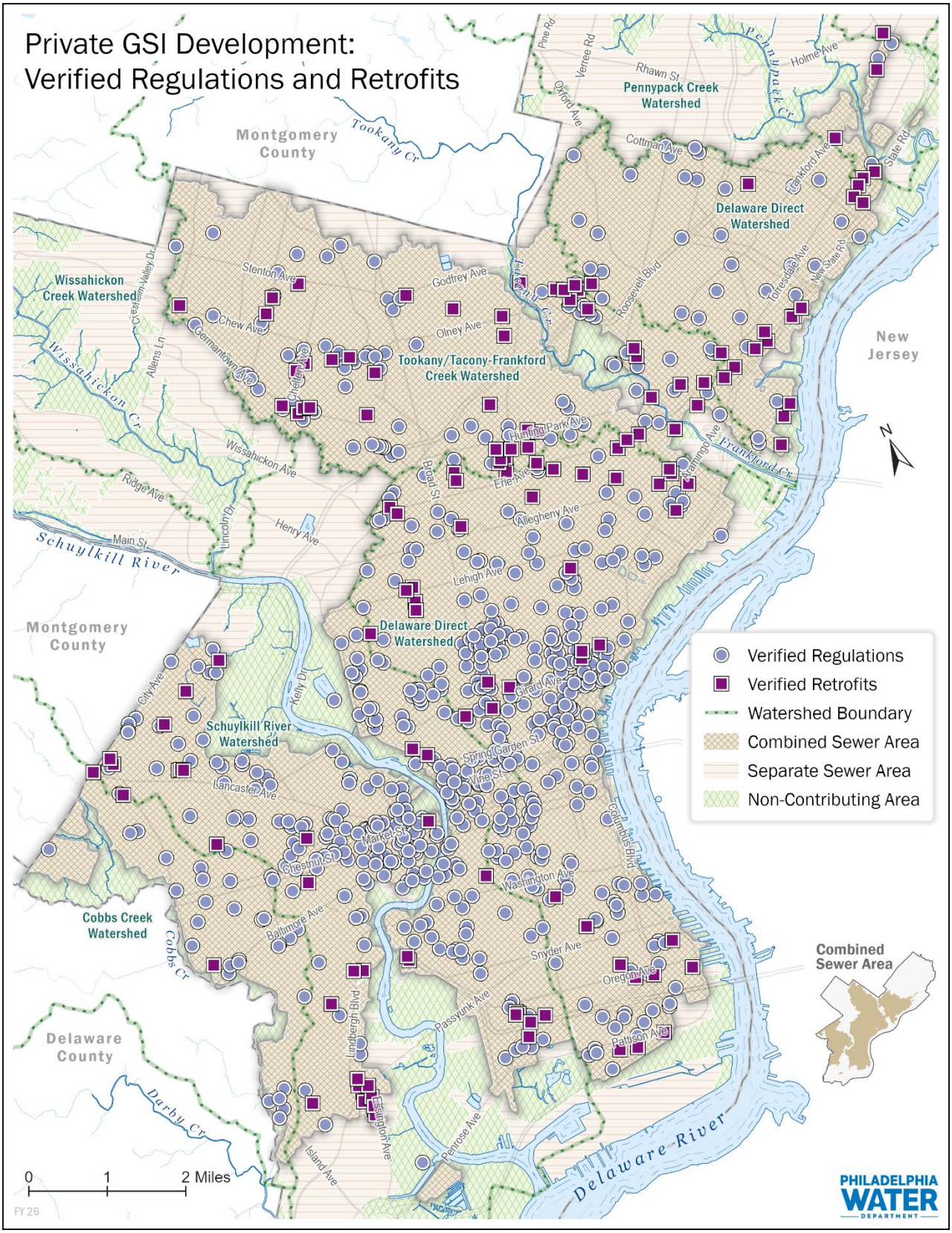


Figure 3: Completed Regulations and Retrofit GSI projects

5.3 Post-Construction Maintenance of Private Facilities

To ensure ongoing SMP maintenance of private facilities constructed through the stormwater management regulations or incentivized retrofit projects, PWD continues to use the following combination of tools: executing Operation and Maintenance (O&M) agreements, conducting post-construction maintenance inspections, utilizing enforcement, and administering stormwater credits.

An Operation and Maintenance agreement between the property owner and PWD is executed and recorded against the property as part of the PWD post-construction stormwater management plan process. These agreements outline the SMPs on the private site and stipulate maintenance requirements. The agreements also include language granting PWD the authority to inspect on-site SMPs and even perform maintenance on behalf of the property owner if necessary.

PWD maintains comprehensive operations and maintenance information geared toward the private development community in Chapter 4 of the Philadelphia Stormwater Management Guidance Manual. Each SMP section provides guidance on SMP maintenance activities, including a recommended SMP maintenance schedule and maintenance factsheets that are available as a quick resource for the property owner. In addition, as part of the post-construction stormwater management plan review process, projects must create an SMP Maintenance Guide which is detailed in Appendix G of the Manual. The SMP Maintenance Guide is unique to each project and includes a site map and Maintenance Schedule Form for each SMP to allow the owner to track maintenance activities for the site. Please see the links below for more information:

- Philadelphia Stormwater Management Guidance Manual, Chapter 4
- Philadelphia Stormwater Management Guidance Manual, Appendix G

Post-construction maintenance inspections of private facilities were conducted throughout the reporting period. PWD utilizes visual inspections and specialized inspection techniques to assess the performance of private SMPs. PWD conducts post-construction maintenance inspections on all applicable private facilities. As projects are identified for maintenance inspection, the PWD post-construction inspection staff contacts the property owner to schedule the inspection. PWD attempts to conduct the inspection with the property owner or their maintenance representative present so any concerns or questions can be verbally discussed.

After inspection, a post-construction inspection report is generated and issued to the property owner. Any required corrective actions are identified in the report along with a deadline for resolution. After actions are taken, PWD reinspects the property and compliant sites are closed until their next routine inspection date. Inspectors will provide guidance to the property owner to ensure corrective actions are resolved. In addition to visual inspections, PWD has identified other effective methods and technologies, including closed-circuit television, surveys of critical system elevation points, confined space, pole-mounted camera photography, and wet weather inspections. PWD will continue to evaluate and refine post-construction inspection protocols. In FY26, PWD performed 208 post-construction inspections in the combined sewer areas of the city.

Referral for enforcement is pursued for severe violations or if compliance is not achieved within the timeframe specified during the post-construction inspection process. PWD typically initiates an

enforcement case with the issuance of a post-construction enforcement letter to the property owner if a PCSMP is found to be insufficiently maintained. In some circumstances, PWD may initiate enforcement with the issuance of a Notice of Violation (NOV). The notifications include a description of issues identified and a timeline to achieve compliance. The City is authorized to compel maintenance of SMPs on private property under the Philadelphia Code and PWD Regulations. Development sites that are subject to the PSWMR, as well as properties that have grant funded SMPs, are required to maintain the SMPs to function as designed. If initial notification is unsuccessful at bringing action from the property owner, PWD can compel compliance through several enforcement tools, including NOVs (if enforcement is initiated with a PEL), suspension of applicable stormwater billing credits, fines, court action, and/or a nuisance abatement and lien by the City. In FY26, PWD successfully resolved 33 enforcement cases consisting of 129 SMPs in the combined sewer area of the city. Of the enforcement cases closed, escalated enforcement tools were utilized, consisting of 13 NOVs, with 8 escalating to fines. PWD will continue to work with property owners to ensure that SMPs are inspected and maintained in accordance with the Regulations and recorded O&M agreements.

5.3.1 Stormwater Credits

Non-residential property owners are eligible for *Stormwater Credits*—a direct reduction to the monthly stormwater charge—if they own and maintain stormwater management practices that reduce stormwater flows and volume to the City's sewer systems and surrounding waterways. Both retrofit and development projects are eligible for credits against their stormwater charge upon completion of construction, and owners must renew their credits every four years. With the credits renewal application, owners may provide maintenance logs and/or PWD may perform an inspection to demonstrate that the SMPs continue to be functional. PWD approved or renewed 155 combined sewer area (284 citywide) stormwater billing credit applications during the reporting period. Failure to adhere to the credit requirements will result in the suspension or termination of the billing reduction.

6.0 Data Collection and Analysis

6.1 Green Stormwater Infrastructure Post-Construction Monitoring

Proposed methodologies for the *Green City, Clean Waters* monitoring program were outlined in a revised Comprehensive Monitoring Plan (CMP) that was submitted on January 10, 2014, and approved on May 28, 2014, by PADEP. PWD has updated methods through new standard operating procedures (SOPs) that better reflect current techniques.

Monitoring and testing green stormwater infrastructure are essential to evaluate its effectiveness in managing stormwater and reducing CSOs. PWD uses construction-phase testing and post-construction monitoring and testing at the SMP and system levels to ensure functionality, evaluate the performance of stormwater management practices, and to provide information for improvements to design and maintenance. FY26 monitoring activities are described in detail in **Appendix 4 GSI Monitoring Status Report.** FY26 updates on other, non-GSI infrastructure components of the CMP can be referenced in Section **F.2 Step 1.b. of the Stormwater Management Program Annual Report.**

PWD has completed its 5-year green stormwater infrastructure pilot program and results were reported in the Year 5 Evaluation and Adaptation Plan. Information on the selected sites, associated variables, and results are available here:
https://water.phila.gov/pool/files/Year5_EAPBody_website.pdf.

PWD continued extensive data collection and analyses performed during the second 5 years of the program implementation. This assessment of the program performance is provided in Section 3.0 of the Year 10 Evaluation and Adaptation Plan available here:
https://water.phila.gov/pool/files/gccw-year-10-eap.pdf.

7.0 Public Outreach and Participation

7.1 Public Engagement & Participation Overview

PWD's Public Engagement (PE) Team, nested within the Public Affairs (PA) division, continues to engage a broad range of residents, ratepayers, community organizations, and other stakeholders across greater Philadelphia. In FY26, the PE Team and other PA programming and events teams interacted with over 338,000 people using a variety of best practice outreach techniques. A primary purpose of this outreach is to notify and educate residents about planned projects to upgrade PWD core service infrastructure in their neighborhood, including where to find more information, location(s) of construction, and why the project is occurring.

In FY26, PWD & the PE Team debuted a more coordinated methodology for outreach around capital projects that contain both green stormwater infrastructure built through Green City, Clean Waters, as well as traditional infrastructure, like new water mains or sewer pipes. In this section, these types of projects and outreach may be referred to as "integrated."

Table 14 below for the high level FY26 metrics, showing individual outreach breakdowns and the total estimated engaged audience for this year.

Table 14: FY26 Public Engagement Metrics Overview

Public Outreach & Participation Programming Type Focused on Stormwater Management & *Green City, Clean Waters*	*Approximate Number of Direct Contacts, Connections & Engagements With Residents
Integrated Project Notification, Outreach & Engagement in Planning, Design & Bid	97,918
Integrated Project Focused Digital Notification in Planning, Design & Bid	146,294
Integrated Project Notification, Outreach & Engagement Post-Bid, Pre-Construction & Construction	79,322
GSI Interpretive Signage	31
Rain Check Engagement	927
Soak It Up Adoption Outreach	14,290
FY26 Grand Total Outreach:	**338,722**

**Best-faith effort; data / metrics below.*

7.2 Green Stormwater Infrastructure (GSI) Notification

Public notification, education, and engagement around capital projects that include GSI in Philadelphia's oldest neighborhoods continued as outlined through PWD's Green City, Clean Waters (GCCW) plan. Each GSI District has a dedicated COS tasked with community outreach for all capital projects that include GSI within the outreach area. These four Districts represent a large, culminating effort across Philadelphia's entire combined sewer service (CSS) area. Along with traditional GCCW outreach (such as community presentations at public meetings and tabling), the PE Team routinely used focused digital media strategies for broader public notification and awareness.

7.2.1 Events & Touchpoints Around Capital Projects with Public GSI

During FY26 the PE Team made over 97,500 points of contact with residents about capital projects that include GSI in their neighborhood. These outreach types are displayed in Table 15 and Table 16 for the different project phases and GSI Districts. The PE Team pairs technical project milestones with public

friendly messaging to communicate project updates. Each community meeting, tabling event, and/or other event (e.g., fun day, GSI tour, etc.) is generally preceded by public notification and promotion. After a given engagement event, the PE Team updates all project tracking sheets, metrics, and other necessary documents to maintain forward progress in the community and accurately collect outreach data for reporting purposes.

Table 15: FY26 Public Engagement Meeting Metrics Around Capital Projects that Include GSI in Planning, Design & Bid Phases

Outreach Type	PWD GSI Outreach District				
	GSI District 1 West Philly	GSI District 2 South Philly & Riverwards	GSI District 3 Lower North Philly	GSI District 4 Northeast & Northwest Philly	PE Team Total(s):
Capital Projects Containing Public GSI	95	16	71	92	274
Public Meeting / Other Events Around Projects	28	5	23	10	66
Participants at Public Events	1,158	66	1,027	298	2,549
1:1 GSI Project Letters Sent	147	6	187	255	595
People Attempted Through Robo - Calls	19,269	3,327	17,655	10,895	51,146
Bid-Award Letters Sent About Capital Projects Containing Public GSI	13,951	2,288	6,771	20,618	43,628
Total Estimated Community Reach by GSI District	**34,525**	**5,687**	**25,640**	**32,066**	**97,918**

**Best-faith estimate due to the technical classification of some of these projects, and/or based on internal workflows, and/or the fact that PWD plans & constructs integrated projects (GSI with water and/or sewer).*

Table 16: FY26 Public Engagement Metrics Around Integrated Capital Projects in Pre-Construction or Construction Phase

Outreach Type	Total
Construction Outreach Locations	PWD GSI Districts 1 - 4
Integrated Capital Projects in Construction	148
Public Project Meetings	28
Public Meeting Participants	315
GSI 1:1 Project Letters Sent	3
Construction Letters Sent	44,456
Construction Letters Sent	34,548
Total Estimated Community Reach	**79,322**

**Best-faith effort due to the technical classification of some of these projects, and/or based on internal workflows, and/or the fact that PWD plans & constructs integrated projects (GSI with water and/or sewer).*

As a complementary approach to traditional outreach, focused digital communications were scaled up to create a blanketed approach to better inform larger service areas. PWD also continued to increase production of its Project Pages as an online resource containing contact information and public-facing GSI project information.

7.2.2 Focused Digital Communications for Integrated Projects

In FY26, the PE Team expanded outreach to projects that pair GSI with water main and/or sewer work. The PE Team continued to employ focused digital communications to raise public awareness of these projects. The team also made impactful changes to standard communication templates to reflect the inclusion of new project types. Significant effort was made to upgrade maps and copy to be readable for the average resident.

Outreach included targeted digital communications to inform residents about local project updates and project-based community meetings in their neighborhood. Digital communications were sent to specific ZIP codes via the Granicus Communications (formerly 'GovDelivery') bulletins and posted to specific neighborhoods via Nextdoor at the following project phases:

- Early Design - Street Survey & Geotechnical Work Notifications
- Early Design - Early Design Quarterly Sends
- Mid-Design - Community Meeting Promotions
- Pre-Construction - Bid Notifications for Capital Project Containing Public GSI
- At Construction - Work Starting Notifications for Capital Project Containing Public GSI

Subscribers to PWD newsletter updates receive bulletins about various topics, including PWD services and programming. Specific subscribers in the following topics receive project updates filtered by ZIP code: Alerts and Notification, Events, PWD General News, PWD Partners, Registered Community Organizations (RCO), Neighborhood Energy Centers (NEC), and Neighborhood Advisory Committees (NAC). During FY26, approximately 100 targeted Nextdoor posts were published to inform the public about these project phases/events. Each post reaches approximately 1,000 to 5,000 subscribers.

The table below highlights relevant focused digital communications metrics for Granicus Communications email and SMS bulletins for outreach on integrated projects.

Table 17: FY26 Integrated Targeted Digital Communications Metrics

Type of Digital GSI / Integrated Bulletin Sent	Delivery Method(s)	Number of Bulletins Sent	Number of Email Recipients	Open Rate	Click Rate
Survey & Geotechnical Work for Capital Projects Containing Public GSI	Email & SMS Text	16	17,284	56.9%	2.9%
Early Quarterly Design Communications	Email & SMS Text	25	33,407	58.1%	9.3%
Community Meeting Promotion	Email & SMS Text	19	37,757	49.1%	2.2%
Capital Project Containing Public GSI at Bid	Email & SMS Text	38	57,846	61%	10.3%
Capital Projects Containing Public GSI Starting Construction	Email & SMS Text	112	N/A	N/A	N/A
Digital Comms Total(s):		**210**	**146,294**	**56.3% (Average)**	**6.2% (Average)**

Metric goals are based on a 2026 Digital Communications Benchmark Report created by Granicus, a digital civic engagement company for governmental use, and PWD's Granicus Communications system is a product of Granicus. PWD Public Affairs uses the following industry benchmarks: 1) Public Work & Utilities: median open rate of 33% and a median click rate of 6%, and 2) Water Sanitation: median open rate of 35% and a median click rate of 5%.

Table 18: FY26 Example Digital Communications Bulletins Around Integrated Projects at Various Phases of Project Timeline

FY26 Example Bulletins	GSI District	Type of Message	General Project Timeline
Example Send	District 1	Survey Work & Soil Testing Alert	Early
Example Send	District 2	Early Neighborhood Alert	Early
Example Send	District 3	Community Meeting Promo	Mid
Example Send	District 4	Construction Alert	Late

7.3 Other Public Education, Outreach, & Engagement Programs

7.3.1 *Green City, Clean Waters* Interpretive Signage

In FY26, the PE Team continued to develop and install interpretive *Green City, Clean Waters* permanent signage (see examples here and here) at newly constructed GSI sites across the city's CSS area. This process includes reviewing and updating design or install specifications, site visits, coordination with property owners/partners, permitting (when necessary), and permanent mounting for installation. In FY26, 31 new interpretive signs were installed with public GSI. As of this report, over 240 total GSI interpretive signs have been installed as ways to educate the public about what these systems are, how they work, and how they protect local waterways. The next round of signage installations is planned for FY27.

7.3.2 Rain Check – A Green Homes Program

Rain Check, a program managed by the Pennsylvania Horticultural Society (PHS) through a contract with PWD, seeks to install stormwater management systems on residential properties within Philadelphia with the help of vetted local contractors. In FY26, the Rain Check program hosted 31 workshops, which drew over 860 PWD customers, and resulted in over 180 stormwater management tools installed on residential properties throughout the city **(Table 19)**.

Table 19: FY26 Rain Check Metrics

FY26 Rain Check Metrics	Total(s)
Rain Check Workshops (Virtual)	31
Rain Check Workshops (In-Person)	2
Rain Check Workshop Attendees	927
Rain Barrels Installed*	113
Metal Downspout Planters Installed*	59
Permeable Paving Installed*	11
Rain Gardens Installed*	0
Total Number of Residential Stormwater Systems Installed*	**183**

**Installations Completed: For some participants who signed up this Fiscal Year (FY), the installation of their tools is still in progress.*

7.3.3 Soak It Up Adoption – A Green Communities Program

In FY26, the Soak It Up Adoption (SIUA) program provided small annual grants to eligible organizations and to serve a dual purpose: to help PWD clean, monitor, and maintain these public GSI sites & to engage local residents about what GSI is and how it is connected to protecting local waterways.

In FY26 eleven community-based organizations participated in the Soak It Up Adoption program, adopted over 100 GSI sites in Philadelphia, removed over 1,900 bags of trash, and engaged over 14,000 residents. Site-care heroes are paid hourly rates and are usually residents of the communities in which they work. For more information, please visit these links: SIUA Home Page, SIUA 'In the News', and SIUA 'My Favorite Thing'.

SIUA partners use a wide variety of outreach techniques to educate and engage residents around their adopted infrastructure; strategies include digital and social media, in-person meetings, e-newsletters, tabling with printed materials, tours, and more. Please see the table below for SIUA program metrics for this fiscal year.

Table 20: FY26 Soak It Up Adoption (SIUA) Metrics

Soak It Up Adoption (SIUA) Partner List	Number of Public GSI Sites Adopted	Number of 30-Gallon Trash Bags Collected*	Number of Residents Engaged
Asociación Puertorriqueños en Marcha (APM)	7	98.75	23
Centennial Parkside Community Development Corporation (CPCDC)	7	700	99
Frankford Community Development Corporation (FCDC)	5	516	4,225
Friends of Eastern State Penitentiary Park & Corinthian Gardens (FESPP & CG)	9	142.50	249
Make the World Better (MTWB)	10	93	500
North10 (North10)	6	31	142
South Kensington Community Partners (SKCP)	9	25.75	24
Southwest Community Development Corporation (SWCDC)	47	272	9,023
Tookany-Tacony Frankford Watershed Partnership (TTF)	5	23.25	2
FY26 SIUA Total(s):	**105 SIUA Sites**	**~1,902.25 bags of trash collected**	**~14,290 engaged residents**
Converting FY26 30-Gallon Bag Collection Total Into Total Pounds (lbs)** Collected		~73,977.5 lbs of trash collected	

**All SIUA partners collected trash in 30-gallon paper bags.*
***Conversion from 30-gallon bags to pounds (lbs.) of trash is done using the EPA-originated factors / equations site.*

7.4 Public Education & Urban Watersheds Curriculum

7.4.1 Fairmount Water Works Interpretative Center (FWWIC)

For further information on FWWIC engagement in FY26, please refer to **CSO II.G.4 – Continue to Support the Fairmount Water Works Interpretive Center** on page 34.

Appendix 1

Completed Public Green Stormwater Infrastructure Projects

Completed Public Green Infrastructure Reporting Metrics

The Public Completed Projects reporting format and metric definitions are described in Table 1 below.

Table 1: Public Reporting Metric Definitions

Metric	Definition
Work Number	Work Number is a unique assigned identifier from the CIPIT program. A CIPIT work number is attached to construction proposals, bids, work orders, contracts and invoices.
Project ID	This is a unique number, which is assigned automatically by the system when the project is created.
System Number	Unique identifier for system. Composed of the project ID and the System ID.
Construction Completion Date	Date PWD inspector confirmed completion of GSI system.
Storage Volume	The volume of runoff managed by the system. For all systems, the entire depth of the system is counted, except for detention/slow-release systems that are completely lined with an impermeable liner. For those systems, only the depth above the orifice is counted.
New Trees	Total number of new trees planted in association with a system. This number also includes non-SMP trees, which are trees planted as part of a project but are not part of a stormwater management system.
Drainage Area (acres)	Area, in square footage, of impervious and/or pervious surface(s) flowing into a system(s) and SMP(s).
Greened Acres (acre-inch)	Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce storm water runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the stormwater runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting.
SMP Type(s)	A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP.
Program	Current public programs which a greened acre can be assigned to include: • Alleys/Driveways • Campuses • Facilities • Industry and Business • Open Space • Parking • Schools • Streets • Vacant Land

Metric	Definition
Green Construction Cost	Projects with a status of Construction Complete will have a finalized cost of construction provided.
Partner(s)	External entities involved in a project.
Watershed	The City of Philadelphia watershed where the project is located. Four of the City's seven watersheds fall at least partially within the combined sewer area. These watersheds are: • Cobbs-Darby Creek Watershed • Delaware Direct Watershed • Tookany/Tacony-Frankford Creek Watershed • Schuylkill River Watersheds

Table 2: Public SMP Definitions

Public SMP Type Definitions	
Field/Metric	**Definition/Purpose**
Basin*	A stormwater basin is a basin or depression that is vegetated with mowed grass. It is designed to detain and release stormwater runoff and/or infiltrate where feasible.
Blue Roof	A blue roof is a storage system designed into a roof surface such that the roof retains stormwater. Blue roofs are designed to reduce the rate of stormwater runoff.
Bump-out*	A stormwater bump-out is a vegetated curb extension that intercepts gutter flow. It is designed to detain and release stormwater runoff and/or infiltrate where feasible.
Cistern/Rain Barrel	A cistern/rain barrel is a tank or storage receptacle that captures and stores runoff and can thereby reduce runoff volume. The stored water may be used to serve a variety of non-potable water needs (e.g., irrigation).
Depaving	Depaving projects remove existing impervious pavement and restore the surface with grass, other types of vegetation, or loose materials (stone, mulch, etc.) such that the area can thereafter be considered pervious area. Depaving projects remove contributing impervious area from the sewer system.
Drainage Well	A stormwater drainage well is manhole structure designed to manage stormwater runoff by receiving stormwater from upstream collection and pretreatment systems and then discharging the stormwater into the surrounding soils through perforations in the manhole. It is designed to infiltrate stormwater.
Green Gutter	A green gutter is a narrow and shallow landscaped strip along a street's curb line. It is designed to manage stormwater runoff by placing the top of the planting media in the green gutter lower than the street's gutter elevation allowing stormwater runoff from both the street and sidewalk to flow directly into the green gutter. It is designed to slowly infiltrate stormwater.
Green Roof	A green roof is a vegetated surface installed over a roof surface.
Infiltration/Storage Trench	An infiltration/storage trench is a subsurface structure designed to detain and release stormwater runoff and/or infiltrate where feasible.
Non-SMP Tree	A non-SMP tree is a planted tree that does not have stormwater directed to it.
Pervious Paving	Pervious paving is a hard permeable surface commonly composed of concrete, asphalt or pavers. It is designed to detain and release stormwater runoff and/or infiltrate where feasible.

Public SMP Type Definitions	
Planter*	A stormwater planter is a structure filled with soil media and planted with vegetation or trees. It is designed to detain and release stormwater runoff and/or infiltrate where feasible. Planters often contain curb edging or fencing as barrier protection around the planter.
Rain Garden	A rain garden is a shallow vegetated area designed to detain and release stormwater runoff and/or infiltrate where feasible. Rain gardens may also be referred to as bioinfiltration basins and bio-retention basins. They are typically integrated into landscape features (e.g. median strips) and are non-mowed areas.
Stormwater Tree	A stormwater tree is planted in a specialized tree pit that has stormwater runoff directed to its pit. It is designed to manage stormwater by placing the top of the planting media in a tree pit lower than the street's gutter elevation and connecting the tree pit to an inlet which directs runoff from the street into the tree pit. It is designed to detain and release stormwater runoff and/or infiltrate where feasible.
Swale	A swale is a channel designed to convey stormwater. It can be designed to attenuate and/or infiltrate where feasible.
Tree Trench*	A stormwater tree trench is a subsurface infiltration/storage trench that is planted with trees. They are typically linear features that are constructed between the curb and the sidewalk. It is designed to detain and release stormwater runoff and/or infiltrate where feasible.
Wetland*	A stormwater wetland is a vegetated basin designed principally for pollutant removal. It typically holds runoff for periods longer than 72 hours and may include a permanent pool. Wetlands can also detain and release stormwater runoff.

*The word 'stormwater' was previously included in these types but was removed because it was redundant.

Table 3: Completed Public Green Stormwater Infrastructure Projects

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
20391	1056	1056-1	Ashville/Ditman/Rhawn etal	04-May-20	2462	11	0.3	0.7	Tree Trench	Streets	$552,000		Delaware,Pennypack
		1056-2		04-May-20	4438	11	0.8	1.6	Tree Trench	Streets			Delaware,Pennypack
		1056-3		04-May-20	2774	11	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware,Pennypack
20400	306	306-1	Ontario, "A" - Glenwood / Glenwood	24-Mar-17	820	9	0.1	0.3	Tree Trench	Streets	$411,000		Delaware
		306-2		24-Mar-17	574	9	0.1	0.2	Tree Trench	Streets			Delaware
		306-3		24-Mar-17	1287	9	0.2	0.4	Tree Trench	Streets			Delaware
		306-4		24-Mar-17	1763	9	0.3	0.6	Tree Trench	Streets			Delaware
		306-5		24-Mar-17	1000	9	0.2	0.3	Tree Trench	Streets			Delaware
20422	517	517-1	Woodland / 56th	06-May-16	1684	5	0.2	0.3	Tree Trench	Streets	$152,000		Schuylkill
		517-2		06-May-16	2394	5	0.3	0.7	Tree Trench	Streets			Schuylkill
20437	1124	1124-3	Berks / Montgomery / 6th	21-Apr-25	1929	8	0.4	0.8	Tree Trench	Streets	$156,000		Delaware
		1124-5		21-Apr-25	2428	8	0.6	0.8	Infiltration/Storage Trench	Streets			Delaware
		1124-7		21-Apr-25	1250	8	0.3	0.4	Tree Trench	Streets			Delaware
20439	584	584-1	Ellsworth / 20th etal	07-Nov-18	1683	10	0.3	0.5	Tree Trench	Streets	$577,000		Delaware,Schuylkill
		584-2		07-Nov-18	1748	10	0.2	0.5	Tree Trench	Streets			Delaware,Schuylkill
		584-3		07-Nov-18	1150	10	0.2	0.3	Tree Trench	Streets			Delaware,Schuylkill
		584-5		07-Nov-18	1527	10	0.3	0.5	Tree Trench	Streets			Delaware,Schuylkill
20443	411	411-1	Juniata : Cayuga/Claridge/Lawndale etal Ferko Playground	08-Dec-17	41804	0	7.2	13.3	Bumpout, Infiltration/Storage Trench	Open Space	$2,987,000	Philadelphia Department of Parks & Recreation	TTF
20444	563	563-1	Corinthian / Fairmount	26-Mar-19	3779	4	0.9	1.3	Tree Trench	Streets	$688,000		Delaware,Schuylkill
		563-2		26-Mar-19	3935	4	0.6	1.2	Tree Trench	Streets			Delaware,Schuylkill
		563-3		26-Mar-19	2442	4	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware,Schuylkill
		563-4		26-Mar-19	1382	4	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware,Schuylkill
20456	994	994-1	Tulpehocken / Mansfield / Lowber / Duval / Johnson	14-Dec-17	3103	0	0.5	0.9	Infiltration/Storage Trench	Streets	$548,000		TTF
		994-2		14-Dec-17	1131	0	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		994-3		14-Dec-17	1302	0	0.4	0.5	Infiltration/Storage Trench	Streets			TTF
		994-4		14-Dec-17	814	0	0.1	0.3	Infiltration/Storage Trench	Streets			TTF
20458	1006	1006-1	Bridge/Creston/Darrah/Penn	23-Apr-18	1886	7	0.3	0.6	Tree Trench	Streets	$1,319,000		Delaware
		1006-2		23-Apr-18	4702	7	0.6	1.3	Infiltration/Storage Trench	Streets			Delaware
		1006-3		23-Apr-18	2459	7	0.3	0.6	Tree Trench	Streets			Delaware
		1006-4		23-Apr-18	2122	7	0.3	0.6	Tree Trench	Streets			Delaware
		1006-5		23-Apr-18	2299	7	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware
		1006-6		23-Apr-18	2855	7	0.7	1.0	Infiltration/Storage Trench	Streets			Delaware
20461	1066	1066-1	Frankford / Pacific / Wheatsheaf	22-Aug-16	588	0	0.1	0.2	Infiltration/Storage Trench	Streets	$570,000		Delaware,TTF
		1066-2		22-Aug-16	1112	0	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1066-3		22-Aug-16	1480	0	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware,TTF
		1066-4		22-Aug-16	1093	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
		1066-5		22-Aug-16	2400	0	0.5	0.8	Infiltration/Storage Trench	Streets			Delaware,TTF
		1066-6		22-Aug-16	1084	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
20474	1243	1243-1	Benner/Lawndale/Levick/Palmetto	06-Mar-26	1888	14	0.3	0.6	Tree Trench	Streets	$1,813,000		Delaware,TTF
		1243-2		06-Mar-26	1995	14	0.4	0.6	Tree Trench	Streets			Delaware,TTF
		1243-4		06-Mar-26	533	14	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware,TTF
		1243-5		06-Mar-26	1497	14	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1243-6		06-Mar-26	1002	14	0.1	0.3	Tree Trench	Streets			Delaware,TTF
		1243-7		06-Mar-26	2087	14	0.5	0.7	Infiltration/Storage Trench	Streets			Delaware,TTF
		1243-8		06-Mar-26	1162	14	0.3	0.4	Tree Trench	Streets			Delaware,TTF
20475	1042	1042-1	31st / 34th / 35th / Wharton	06-Aug-21	1683	4	0.3	0.5	Tree Trench	Streets	$293,000		Schuylkill
20480	1266	1266-1	Somerset / 7th	05-Jun-20	3343	4	0.5	1.0	Tree Trench	Streets	$225,000		Delaware
20483	1294	1294-1	Fanshawe/Longshore/Unruh/Bingham/Kerper	30-Mar-22	1192	0	0.1	0.3	Infiltration/Storage Trench	Streets	$143,000		Delaware
		1294-2		30-Mar-22	1258	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1282-1		19-Mar-24	628	0	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
20486	1282	1282-2	Elbridge/Gilham/Unruh etal	19-Mar-24	734	0	0.1	0.3	Infiltration/Storage Trench	Streets	$280,000		Delaware
		1282-3		19-Mar-24	715	0	0.1	0.3	Infiltration/Storage Trench	Streets			Delaware
		1282-4		19-Mar-24	583	0	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware
20489	1136	1136-1	Angora / Cedar / Yewdall / 57th	26-Feb-19	2464	0	0.4	0.8	Infiltration/Storage Trench	Streets	$388,000		Cobbs-Darby
		1136-2		26-Feb-19	1048	0	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1136-3		26-Feb-19	924	0	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby
20490	1206	1206-1	Wishart/Clementine/Elkhart/Helen/Jasper	18-Jan-19	850	0	0.2	0.3	Infiltration/Storage Trench	Streets	$294,000		Delaware
		1206-2		18-Jan-19	1194	0	0.1	0.3	Infiltration/Storage Trench	Streets			Delaware
		1206-3		18-Jan-19	1172	0	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware
20497	1215	1215-1	44th / Larchwood / Osage / Pine	22-Nov-19	1437	4	0.2	0.4	Tree Trench	Streets	$117,000		Schuylkill
20499	1248	1248-1	Crease / Frankford / Mascher / Thompson / Girard	26-May-21	1175	0	0.3	0.4	Infiltration/Storage Trench	Streets	$248,000		Delaware
20513	1338	1338-1	Mayfair I / Tyson / Brighton / Princeton / Et al	14-Oct-22	3250	0	0.7	0.9	Infiltration/Storage Trench	Streets	$285,000		Delaware
20559	1463	1463-1	B /Cambria / Somerset	14-Nov-24	924	4	0.2	0.3	Tree Trench	Streets	$139,000	-	Delaware
20578	1542	1542-1	Magee / Erdrick / Gilham	13-Nov-25	2615	4	0.4	0.8	Tree Trench	Streets	$294,000	-	Delaware
20599	1501	1501-1	Iseminger/ Camac / Shunk / 12th	25-Sep-25	2203	4	0.5	0.7	Tree Trench	Streets	$526,000	-	Delaware
		1501-2		25-Sep-25	1936	4	0.4	0.8	Tree Trench	Streets			Delaware
20601	1464	1464-1	Diamond / Page / 29th	10-Feb-26	1399	2	0.3	0.5	Tree Trench	Streets	$298,000	-	Schuylkill
20619	1485	1485-1	Cottman / Roosevelt / Sandyford / Ryan / Nesper / Teesdale / Battersby	27-Apr-26	1528	25	0.4	0.5	Tree Trench	Streets	$1,583,000	-	Delaware,Pennypack
		1485-2		27-Apr-26	2302	25	0.6	0.7	Tree Trench	Streets			Delaware,Pennypack
		1485-3		27-Apr-26	2856	25	0.6	0.9	Tree Trench	Streets			Delaware,Pennypack
		1485-4		27-Apr-26	1190	25	0.3	0.4	Tree Trench	Streets			Delaware,Pennypack
40330	289 *	289-1	Coral, Sergeant-Huntingdon / Sepviva, Susquehanna - Dauphin	27-Jan-10	962	17	0.6	0.3	Infiltration/Storage Trench	Streets	$209,000		Delaware
		289-10		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-11		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-12		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-13		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-14		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-15		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-16		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-17		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-18		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-2		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-3		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-4		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-5		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-6		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-7		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-8		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
		289-9		27-Jan-10	38	17	0.0	0.0	Stormwater Tree	Streets			Delaware
40368	234	234-1	Franklin, Berks - Norris / Norris - Diamond /16th Street / Dauphin Street	24-Oct-13	601	32	0.2	0.2	Tree Trench	Streets	$185,000		Delaware
		234-2		24-Oct-13	1128	32	0.3	0.4	Tree Trench	Streets			Delaware
		234-3		24-Oct-13	525	32	0.2	0.2	Tree Trench	Streets			Delaware
		234-4		24-Oct-13	2343	32	0.4	0.8	Tree Trench	Streets			Delaware
		234-5		24-Oct-13	2618	32	0.4	0.8	Tree Trench	Streets			Delaware
		441-1		08-Apr-11	480	21	0.4	0.2	Infiltration/Storage Trench	Streets			TTF
		441-11		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-12		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-13		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-14		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-15		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
40577	441 *	441-16	Wagner St.,12th - Broad; Rockland St., 11th - Broad	08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets	$924,000		TTF
		441-21		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-22		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-25		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-27		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-28		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-31		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-32		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-38		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-39		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-42		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-43		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-45		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-5		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-7		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
		441-8		08-Apr-11	38	21	0.0	0.0	Stormwater Tree	Streets			TTF
40599	233	233-1	Belgrade / Crease / Marlborough	20-Dec-12	847	1	0.2	0.3	Infiltration/Storage Trench	Streets	$27,000		Delaware
		233-2		20-Dec-12	416	1	0.1	0.1	Infiltration/Storage Trench	Streets			Delaware
40607	235	235-2	Northern Liberties Flood Relief	15-Jul-16	530	13	0.2	0.2	Tree Trench	Streets	$475,000		Delaware
		235-4		15-Jul-16	791	13	0.1	0.3	Tree Trench	Streets			Delaware
40659	207	207-1	Waterview Rec Center Stormwater Management Improvements	01-Jul-08	786	4	0.3	0.5	Pervious Paving, Tree Trench	Streets	$50,000	Pennsylvania Horticulture Society,Philadelphia Department of Recreation	TTF
40662	218	218-3	Green Streets Pilot Project - Passyunk Avenue Locations	05-Mar-13	5137	0	0.7	1.3	Bumpout	Streets	$0	Philadelphia Streets Department	Schuylkill
40750	304	304-1	Adams / Church / Penn	09-Mar-20	710	1	0.2	0.3	Tree Trench	Streets	$317,000		TTF
		304-2		09-Mar-20	1184	1	0.2	0.4	Infiltration/Storage Trench	Streets			TTF
40755	305	305-1	Ellsworth / Federal / Wharton	25-Sep-19	1594	2	0.3	0.5	Tree Trench	Streets	$237,000	Philadelphia Department of Parks & Recreation	Delaware
		305-2		25-Sep-19	1251	2	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
40771	301	301-2	Dauphin / Sepviva etal	26-Aug-15	1444	10	0.2	0.4	Tree Trench	Streets	$133,000		Delaware
40773	469	469-1	Galloway/Roseberry etal	13-Jun-18	1312	5	0.2	0.4	Tree Trench	Streets	$105,000		Delaware
40784	406	406-1	Conestoga / Thompson	25-Nov-19	807	0	0.2	0.3	Infiltration/Storage Trench	Streets	$169,000		Schuylkill
		406-2		25-Nov-19	1067	0	0.2	0.4	Infiltration/Storage Trench	Streets			Schuylkill
40795	443	443-1	Cobbs Creek GSI	11-Jun-20	2233	58	0.5	1.1	Rain Garden	Open Space	$3,572,000	Philadelphia Department of Parks & Recreation	Cobbs-Darby
		443-10		10-Jul-19	4738	58	0.7	1.3	Tree Trench	Streets			Cobbs-Darby
		443-11		10-Jul-19	2017	58	0.3	0.6	Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-12		10-Jul-19	3177	58	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-13		10-Jul-19	3428	58	0.6	1.1	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-14		11-Jun-20	8390	58	1.4	2.7	Basin, Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby
		443-15		11-Jun-20	1902	58	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby
		443-16		11-Jun-20	2135	58	0.4	0.7	Rain Garden	Open Space			Cobbs-Darby
		443-17		11-Jun-20	573	58	0.1	0.2	Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-18		11-Jun-20	1467	58	0.3	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-3		11-Jun-20	1897	58	0.3	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-4		11-Jun-20	1862	58	0.3	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby
		443-5		11-Jun-20	4533	58	0.7	1.3	Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby
		443-6		11-Jun-20	3917	58	0.4	0.9	Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		443-7		10-Jul-19	1008	58	0.2	0.3	Rain Garden	Open Space			Cobbs-Darby
		443-8		10-Jul-19	2390	58	0.3	0.7	Tree Trench	Streets			Cobbs-Darby
		443-9		10-Jul-19	4196	58	0.6	1.2	Tree Trench	Streets			Cobbs-Darby
40796	1086	1086-1	Sepviva Street	27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets	$150,000		Delaware
		1086-10		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-11		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-12		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-13		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-14		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-15		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-16		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-17		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-18		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-19		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-2		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-20		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-21		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-22		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-23		27-Dec-12	28	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-24		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-25		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-26		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-27		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-3		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-6		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-7		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
		1086-9		27-Dec-12	38	32	0.0	0.0	Stormwater Tree	Streets			Delaware
40798	518	518-1	Ludlow / Hirst / Robinson	16-Jul-20	835	28	0.2	0.3	Infiltration/Storage Trench	Streets	$465,000		Cobbs-Darby
		518-2		16-Jul-20	932	28	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby
		518-3		16-Jul-20	661	28	0.2	0.2	Infiltration/Storage Trench	Streets			Cobbs-Darby
		518-4		16-Jul-20	923	28	0.3	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby
40799	556	556-1	Cleveland/Gratz/Greene/Roberts	01-Nov-18	2884	0	0.4	0.8	Infiltration/Storage Trench	Streets	$144,000		TTF
		556-2		01-Nov-18	1433	0	0.4	0.5	Infiltration/Storage Trench	Streets			TTF
40800	502	502-1	59th St / Edgewood St / Vogdes St / Yocum St / Trinity St	31-Jul-20	1735	6	0.3	0.5	Tree Trench	Streets	$355,000		Cobbs-Darby
40816	554	554-1	Weikel / Witte / Gaul	07-Jan-19	3795	4	0.4	0.7	Tree Trench	Streets	$710,000		Delaware
		554-2		07-Jan-19	2350	4	0.3	0.7	Tree Trench	Streets			Delaware
		554-3		07-Jan-19	1714	4	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		554-4		07-Jan-19	653	4	0.1	0.2	Tree Trench	Streets			Delaware
		554-5		07-Jan-19	638	4	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware
		554-6		07-Jan-19	1058	4	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		554-7		07-Jan-19	787	4	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
40817	1293	1293-1	C/F/Mayfield/Rosehill/Hartville	29-Jan-18	1002	0	0.1	0.3	Infiltration/Storage Trench	Streets	$270,000		Delaware
		1293-2		29-Jan-18	1907	0	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1293-3		29-Jan-18	3038	0	0.6	0.9	Infiltration/Storage Trench	Streets			Delaware
40821	504	504-2	9th / Mifflin / Pierce	19-Dec-18	1194	2	0.2	0.3	Tree Trench	Streets	$567,000		Delaware
40824	525	525-1	52nd / 53rd / Gainor	20-Mar-20	1473	11	0.3	0.5	Tree Trench	Streets	$335,000		Schuylkill
		525-2		20-Mar-20	1005	11	0.3	0.3	Tree Trench	Streets			Schuylkill
		525-3		20-Mar-20	2463	11	0.5	0.9	Tree Trench	Streets			Schuylkill
40826	1063	1063-1	Parrish / Union / 41st	04-Oct-24	2146	17	0.3	0.7	Tree Trench	Streets	$418,000		Schuylkill
		1063-2		04-Oct-24	3404	17	0.6	1.1	Tree Trench	Streets			Schuylkill
40828	657	657-1	Brandywine / Green / Melon / North	07-Jun-17	1217	2	0.3	0.4	Tree Trench	Streets	$113,000		Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
40829	990	990-1	Galloway / Orianna / Leithgow	27-Sep-19	1255	0	0.2	0.4	Infiltration/Storage Trench	Streets	$249,000		Delaware
		990-2		27-Sep-19	635	0	0.2	0.2	Infiltration/Storage Trench	Streets			Delaware
40839	995	995-1	50th / Rodman / Walton	25-Jan-23	1434	6	0.3	0.5	Tree Trench	Streets	$411,000		Cobbs-Darby,Schuylkill
		995-2		25-Jan-23	1420	6	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		995-3		25-Jan-23	1722	6	0.5	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
40844	989	989-1	Master / Wanamaker / Hobart	03-Jul-19	2670	0	0.6	1.2	Infiltration/Storage Trench	Streets	$182,000		Schuylkill
		989-2		15-Oct-20	1919	0	0.5	0.7	Infiltration/Storage Trench	Streets			Schuylkill
40856	1060	1060-1	Nicholas / 28th / Myrtlewood	09-Dec-22	1171	6	0.3	0.4	Tree Trench	Streets	$124,000		Schuylkill
40862	1064	1064-1	8th / 12th / Lemon / North	27-May-20	2068	6	0.3	0.6	Tree Trench	Streets	$263,000		Delaware
		1064-2		27-May-20	1583	6	0.2	0.5	Infiltration/Storage Trench	Streets			Delaware
40863	1010	1010-1	Bouvier / Monument / Willington / 17th	03-Jun-19	1788	3	0.3	0.6	Infiltration/Storage Trench	Streets	Unknown		Delaware
		1010-2		03-Jun-19	1109	3	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1010-3		03-Jun-19	1334	3	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1010-4		03-Jun-19	530	3	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware
		1010-5		03-Jun-19	2034	3	0.2	0.5	Tree Trench	Streets			Delaware
40865	1057	1057-2	Crowson / Stokes / Woodlawn	30-Aug-18	675	0	0.2	0.2	Infiltration/Storage Trench	Streets	$534,000		TTF
		1057-4		30-Aug-18	970	0	0.3	0.3	Infiltration/Storage Trench	Streets			TTF
		1057-5		30-Aug-18	1572	0	0.4	0.5	Infiltration/Storage Trench	Streets			TTF
		1057-6		30-Aug-18	504	0	0.1	0.2	Infiltration/Storage Trench	Streets			TTF
40866	1065	1065-1	Creighton / Spring / Vogdes / Race	17-Sep-21	1462	4	0.3	0.5	Tree Trench	Streets	$134,000		Cobbs-Darby
40869	1289	1289-1	Hicks / Rowan / St Paul etal	11-Dec-23	634	0	0.1	0.2	Infiltration/Storage Trench	Streets	$171,000		TTF
		1289-2		11-Dec-23	674	0	0.1	0.2	Infiltration/Storage Trench	Streets			TTF
		1289-3		11-Dec-23	1687	0	0.3	0.5	Infiltration/Storage Trench	Streets			TTF
40877	1550	1550-1	I-95 Section AF2	23-Oct-23	824	0	0.2	0.3	Infiltration/Storage Trench	Streets	Unknown	-	Delaware
		1550-2		23-Oct-23	757	0	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware
40888	1011	1011-1	SR 3037, Section JFK - Rehab of bridges over 21st, 22nd, & 23rd	29-Jan-20	1868	19	0.5	0.6	Tree Trench	Streets	Unknown		Schuylkill
		1011-10		29-Jan-20	750	19	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1011-2		29-Jan-20	906	19	0.2	0.3	Tree Trench	Streets			Schuylkill
		1011-3		29-Jan-20	1211	19	0.2	0.4	Infiltration/Storage Trench	Streets			Schuylkill
		1011-4		29-Jan-20	831	19	0.2	0.3	Tree Trench	Streets			Schuylkill
		1011-5		29-Jan-20	914	19	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1011-6		29-Jan-20	877	19	0.2	0.3	Tree Trench	Streets			Schuylkill
		1011-7		29-Jan-20	837	19	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1011-8		29-Jan-20	1157	19	0.3	0.4	Tree Trench	Streets			Schuylkill
		1011-9		29-Jan-20	899	19	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
40891	1062	1062-2	Wynnefield, Monument - 170' W. of 50th	25-May-17	1859	13	0.3	0.6	Tree Trench	Streets	$684,000		Schuylkill
		1062-3		25-May-17	2184	13	0.6	0.8	Infiltration/Storage Trench	Streets			Schuylkill
		1062-4		25-May-17	2926	13	0.6	0.9	Tree Trench	Streets			Schuylkill
		1062-5		25-May-17	3276	13	0.4	0.9	Tree Trench	Streets			Schuylkill
		1062-6		25-May-17	809	13	0.2	0.2	Tree Trench	Streets			Schuylkill
		1062-7		25-May-17	5458	13	0.8	1.6	Tree Trench	Streets			Schuylkill
40900	1058	1058-1	Medary Avenue from 13th Street to Broad Street	31-May-16	1605	0	0.3	0.6	Infiltration/Storage Trench	Streets	$161,000		TTF
		1058-2		31-May-16	868	0	0.2	0.3	Infiltration/Storage Trench	Streets			TTF
40903	656	656-1	Market / 43rd / Ludlow / 45th	07-Sep-16	541	3	0.1	0.2	Tree Trench	Streets	$71,000		Schuylkill
40906	1246	1246-1	Church / Orchard / Ruan / Salem	12-Mar-20	867	0	0.1	0.3	Infiltration/Storage Trench	Streets	$126,000		TTF
40918	1149	1149-1	Loudon / Carlisle	28-Sep-17	1379	0	0.4	0.5	Infiltration/Storage Trench	Streets	$134,000		TTF
		1149-2		28-Sep-17	572	0	0.1	0.2	Infiltration/Storage Trench	Streets			TTF
40928	1275	1275-1	SR1026 Section H04	06-Sep-19	3521	28	0.5	0.9	Tree Trench	Streets	Unknown		TTF
		1275-2		06-Sep-19	5371	28	0.7	1.4	Tree Trench	Streets			TTF
		1275-3		06-Sep-19	1731	28	0.2	0.4	Tree Trench	Streets			TTF
		1275-4		06-Sep-19	2520	28	0.5	0.8	Tree Trench	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1275-5		06-Sep-19	1083	28	0.1	0.3	Tree Trench	Streets			TTF
		1275-6		06-Sep-19	2578	28	0.3	0.6	Tree Trench	Streets			TTF
40938	1423	1423-1	I-95 Section AF1	04-Aug-20	2133	24	0.6	1.3	Infiltration/Storage Trench	Streets	Unknown	-	Delaware
		1423-10		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-11		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-12		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-13		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-14		04-Aug-20	27	24	0.2	0.0	Stormwater Tree	Streets			Delaware
		1423-15		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-16		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-17		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-18		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-19		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-2		04-Aug-20	1897	24	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware
		1423-20		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-21		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-22		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-23		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-24		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-25		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-26		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-27		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-28		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-29		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-6		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-7		04-Aug-20	27	24	0.0	0.0	Stormwater Tree	Streets			Delaware
		1423-8		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
		1423-9		04-Aug-20	27	24	0.1	0.0	Stormwater Tree	Streets			Delaware
40945	1292	1292-1	Univ. City HS Redev. Infrastructure Proj	07-Apr-23	639	23	0.2	0.2	Tree Trench	Streets	Unknown		Schuylkill
		1292-10		07-Apr-23	625	23	0.2	0.2	Tree Trench	Streets			Schuylkill
		1292-2		07-Apr-23	639	23	0.2	0.2	Tree Trench	Streets			Schuylkill
		1292-3		07-Apr-23	514	23	0.1	0.2	Tree Trench	Streets			Schuylkill
		1292-4		07-Apr-23	558	23	0.1	0.2	Tree Trench	Streets			Schuylkill
		1292-5		07-Apr-23	577	23	0.2	0.2	Tree Trench	Streets			Schuylkill
		1292-6		07-Apr-23	878	23	0.2	0.3	Tree Trench	Streets			Schuylkill
		1292-7		07-Apr-23	1426	23	0.4	0.7	Tree Trench	Streets			Schuylkill
		1292-8		07-Apr-23	1426	23	0.4	0.7	Tree Trench	Streets			Schuylkill
		1292-9		07-Apr-23	625	23	0.2	0.2	Tree Trench	Streets			Schuylkill
40996	1366	1366-1	Thompson / Belgrade / Freedly / Hazzard	17-Apr-23	1196	4	0.2	0.3	Tree Trench	Streets	$119,000		Delaware
41034	1399	1399-1	Natrona / Napa / Huntingdon	28-Feb-22	1155	0	0.3	0.4	Infiltration/Storage Trench	Streets	$106,000	-	Schuylkill
41039	1455	1455-1	I-95 Section BS1	02-Oct-23	1935	11	0.3	0.5	Tree Trench	Streets	Unknown	-	Delaware
		1455-2		02-Oct-23	2488	11	0.4	0.8	Tree Trench	Streets			Delaware
		1455-3		02-Oct-23	1513	11	0.2	0.4	Tree Trench	Streets			Delaware
		1455-4		02-Oct-23	1183	11	0.2	0.4	Tree Trench	Streets			Delaware
50001	14 *	14-1	Passyunk Square Model Neighborhood	17-Sep-13	1452	0	0.5	0.5	Infiltration/Storage Trench, Rain Garden	Streets	$873,000	Department of Recreation,Passyunk Square Civic Association	Delaware
	16 *	16-1		17-Sep-13	1112	5	0.2	0.3	Tree Trench	Streets		Department of Recreation,Passyunk Square Civic Association,South Philadelphia Older Adult Center	Delaware
	162 *	162-1		17-Sep-13	604	13	0.1	0.2	Bumpout, Tree Trench	Streets		Department of Recreation	Delaware,Schuylkill
		162-2		17-Sep-13	1236	13	0.3	0.4	Bumpout, Tree Trench	Streets			Delaware,Schuylkill
		162-3		17-Sep-13	2041	13	0.4	0.7	Tree Trench	Streets			Delaware,Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		162-4		17-Sep-13	1316	13	0.2	0.4	Tree Trench	Streets			Delaware,Schuylkill
	313 *	313-1		17-Sep-13	1452	0	0.3	0.4	Infiltration/Storage Trench	Streets		Department of Recreation,Passyunk Square Civic Association,South Philadelphia Older Adult Center	Delaware
50002	8 *	8-2	New Kensington Model Neighborhood	04-Nov-11	1681	0	0.5	1.0	Rain Garden	Streets	$173,000	Department of Recreation,New Kensington Community Development Corporation,Pennsylvania Horticulture Society	Delaware
50003	12 *	12-1	Northern Liberties Model Neighborhood	08-Feb-13	163	7	0.1	0.1	Infiltration/Storage Trench	Streets	$455,000	City Play,Mural Arts Program,Northern Liberties Neighborhood Association	Delaware
		12-3		08-Feb-13	336	7	0.1	0.1	Tree Trench	Streets			Delaware
		12-4		08-Feb-13	479	7	0.1	0.1	Tree Trench	Streets			Delaware
	91 *	91-1		08-Feb-13	1463	7	0.4	0.4	Bumpout, Tree Trench	Streets		Northern Liberties Neighborhood Association	Delaware
50005	1 *	1-1	Green Street Project in 16th Street	10-Nov-10	1676	6	0.5	0.7	Tree Trench	Streets	$402,000	Pennsylvania Horticulture Society	Delaware
		1-2		10-Nov-10	1280	6	0.3	0.4	Tree Trench	Streets			Delaware
		1-3		10-Nov-10	600	6	0.2	0.2	Tree Trench	Streets			Delaware
	9 *	9-1		10-Nov-10	494	5	0.1	0.1	Tree Trench	Streets		New Kensington Community Development Corporation,Pennsylvania	Delaware
		9-2		10-Nov-10	779	5	0.1	0.3	Tree Trench	Streets			Delaware
	18 *	18-1		10-Nov-10	609	8	0.3	0.2	Tree Trench	Streets			Schuylkill
50006	187	187-1	Columbus Square Park Infrastructure Demonstration Project	26-May-10	20	0	0.0	0.0	Planter	Streets	$66,000	Department of Public Property,Department of Recreation,Friends of Columbus Square	Delaware
		187-2		26-May-10	20	0	0.0	0.0	Planter	Streets			Delaware
		187-3		26-May-10	882	0	0.2	0.3	Infiltration/Storage Trench, Planter	Streets			Delaware
50007	21 *	21-1	Blue Bell Inn Triangle Stormwater Improvements	31-Oct-13	2066	12	0.6	1.2	Swale	Streets	$278,000	Fairmount Park Commission,Pennsylvania Horticulture Society,Philadelphia Department of Parks & Recreation	Cobbs-Darby
50009	20 *	20-10	Queen Lane Bumpouts	14-May-11	1357	13	0.3	0.6	Tree Trench	Streets	Unknown		TTF
50010	19 *	19-1	Barry Playground - Tree Trenches	14-Oct-13	2777	36	0.7	0.9	Tree Trench	Streets	$975,000	Department of Recreation	Schuylkill
		19-2		14-Oct-13	3979	36	0.6	1.2	Tree Trench	Streets			Schuylkill
		19-3		14-Oct-13	2180	36	0.4	0.7	Tree Trench	Streets			Schuylkill
		19-4		14-Oct-13	4463	36	0.5	1.1	Tree Trench	Streets			Schuylkill
		19-5		14-Oct-13	2745	36	0.3	0.6	Tree Trench	Streets			Schuylkill
50011	194	194-1	N. 3rd St and Wildey St	01-Jun-09	849	24	0.2	0.4	Rain Garden	Open Space	$22,000	Northern Liberties Neighborhood Association,Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,Philadelphia Department of Parks & Recreation	Delaware
50012	186	186-1	Cliveden Park Extended Detention	01-Oct-07	876	0	0.6	0.3	Rain Garden	Open Space	$175,000	Pennsylvania Department of Environmental Protection,Pennsylvania	TTF
		186-2		01-Oct-07	3687	0	0.6	1.0	Rain Garden	Open Space			TTF
50013	208	208-1	West Mill Creek Stormwater Tree Trench	01-Jul-06	311	4	0.2	0.1	Tree Trench	Streets	$66,000	Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,Philadelphia	Schuylkill
		208-2		01-Jul-06	456	4	0.1	0.2	Tree Trench	Streets			Schuylkill
		208-3		01-Jul-06	63	4	0.0	0.0	Pervious Paving	Streets			Schuylkill
50014	181	181-1	47th and Grays Ferry Rain Garden	01-Apr-07	1260	7	0.4	0.7	Rain Garden	Vacant Land	$16,000	Pennsylvania Department of Environmental Protection,Pennsylvania Horticulture Society,University City Green	Schuylkill
50015	185	185-1	Clark Park Stormwater Bed	01-Nov-07	3080	0	0.7	0.9	Infiltration/Storage Trench	Open Space		Pennsylvania Department of Environmental Protection,Pennsylvania Department of Conservation & Natural Resources,Philadelphia Department of Parks & Recreation	Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50019	154 *	154-1	Anna B. Day School, Epiphany of Our Lord, Francis Scott, Dickinson Sq	25-Nov-14	1853	15	0.4	0.7	Tree Trench	Streets	$948,000	Tookany/Tacony-Frankford Watershed Partnership	TTF
		154-2		25-Nov-14	2754	15	0.4	0.9	Tree Trench	Streets			TTF
		154-3		25-Nov-14	2349	15	0.5	1.0	Tree Trench	Streets			TTF
		154-4		25-Nov-14	2926	15	0.4	0.8	Tree Trench	Streets			TTF
	17 *	17-1		25-Nov-14	2635	5	0.4	0.9	Bumpout, Infiltration/Storage Trench	Streets		Department of Recreation,Friends of Dickinson Park,Southeastern Transportation Authority	Delaware
		17-2		25-Nov-14	1015	5	0.2	0.4	Tree Trench	Streets			Delaware
	79 *	79-1		25-Nov-14	619	1	0.1	0.2	Infiltration/Storage Trench	Streets		Lower Moyamensing Civic Association	Delaware
	81 *	81-1		25-Nov-14	1606	2	0.3	0.5	Tree Trench	Streets			Delaware
		81-2		25-Nov-14	1374	2	0.2	0.5	Infiltration/Storage Trench	Streets			Delaware
50020	2 *	2-1	Welsh and Wakisha School	23-Apr-13	989	7	0.3	0.3	Infiltration/Storage Trench, Rain Garden	Streets	$679,000	Pennsylvania Horticulture Society	Delaware
		2-2		23-Apr-13	828	7	0.2	0.3	Tree Trench	Streets			Delaware
	157 *	157-1		23-Apr-13	900	19	0.2	0.3	Tree Trench	Streets		Department of Recreation	Delaware
		157-2		23-Apr-13	1234	19	0.3	0.4	Tree Trench	Streets			Delaware
		157-3		23-Apr-13	943	19	0.2	0.3	Tree Trench	Streets			Delaware
	245 *	245-1		23-Apr-13	974	7	0.2	0.3	Tree Trench	Streets		Pennsylvania Horticulture Society	Delaware
	296 *	296-1		23-Apr-13	1034	4	0.2	0.3	Tree Trench	Streets			Delaware
	312 *	312-1		23-Apr-13	1183	7	0.3	0.4	Tree Trench	Streets		Department of Recreation	Delaware
		312-2		23-Apr-13	1130	7	0.3	0.4	Tree Trench	Streets			Delaware
50022	13	13-1	Madison Park	16-Dec-11	402	13	0.2	0.2	Infiltration/Storage Trench	Open Space	$99,000	City Play,Digsau,Northern Liberties Neighborhood Association,Philadelphia Department of Parks & Recreation	Delaware
50023	192	192-1	Herron Playground porous basketball court	02-Oct-12	539	12	0.1	0.3	Infiltration/Storage Trench, Rain Garden	Open Space	$191,000	Philadelphia Capital Program Office,Philadelphia Department of Parks & Recreation	Delaware
		192-2		02-Oct-12	2150	12	0.2	0.4	Pervious Paving	Open Space			Delaware
50024	170	170-1	Work in Shissler Playground Blair and Hewson Street	10-Oct-10	1533	4	0.2	0.4	Infiltration/Storage Trench	Open Space	$50,000	New Kensington Community Development Corporation,Pennsylvania	Delaware
		170-2		10-Oct-10	1500	4	0.2	0.4	Tree Trench	Open Space			Delaware
50025	223 *	223-1	A.S. Jenks School, Sacks Playground, Smith Elementary, St. Thomas Aquinas	22-Oct-13	1684	18	0.3	0.5	Tree Trench	Streets	$1,150,000	Lower Moyamensing Civic Association	Delaware
		223-2		22-Oct-13	1690	18	0.3	0.5	Tree Trench	Streets			Delaware
	224 *	224-1		22-Oct-13	2813	12	0.4	0.8	Tree Trench	Streets			Delaware
		224-2		22-Oct-13	1625	12	0.3	0.5	Tree Trench	Streets			Delaware
		224-3		22-Oct-13	2131	12	0.4	0.8	Tree Trench	Streets			Delaware
	227 *	227-1		22-Oct-13	1843	18	0.3	0.7	Tree Trench	Streets			Schuylkill
		227-2		22-Oct-13	1291	18	0.3	0.6	Tree Trench	Streets			Schuylkill
		227-3		22-Oct-13	1588	18	0.3	0.7	Tree Trench	Streets			Schuylkill
50026	210 *	210-1	Daroff School, Shepard Rec Center, Sayre School, Andrew Hamilton School	13-Dec-12	2048	42	0.4	0.7	Infiltration/Storage Trench	Streets	$1,659,000	Pennsylvania Environmental Council	Cobbs-Darby
		210-2		13-Dec-12	3420	42	0.5	1.1	Tree Trench	Streets			Cobbs-Darby
		210-3		13-Dec-12	2828	42	0.5	0.9	Tree Trench	Streets			Cobbs-Darby
	211 *	211-1		13-Dec-12	2765	28	0.6	0.9	Bumpout, Tree Trench	Streets			Schuylkill
		211-2		13-Dec-12	3718	28	0.4	0.8	Planter, Tree Trench	Streets			Schuylkill
		211-3		13-Dec-12	2799	28	0.4	0.9	Tree Trench	Streets			Schuylkill
	216 *	216-1		13-Dec-12	4551	14	1.0	2.0	Tree Trench	Streets			Cobbs-Darby
	231 *	231-1		13-Dec-12	2511	39	0.5	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		231-2		13-Dec-12	4884	39	0.8	1.5	Bumpout, Planter, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		231-3		13-Dec-12	2915	39	0.6	1.0	Tree Trench	Streets			Cobbs-Darby,Schuylkill
50027	212 *	212-1	Samuel Huey School, Bryant School, Christy Rec Center,	23-Nov-12	2786	4	0.4	0.9	Tree Trench	Streets	$952,000	Pennsylvania Environmental Council	Cobbs-Darby
		212-3		23-Nov-12	886	4	0.1	0.3	Tree Trench	Streets			Cobbs-Darby
	213 *	213-1		23-Nov-12	1103	19	0.2	0.3	Tree Trench	Streets		Department of Recreation,Pennsylvania Environmental Council	Cobbs-Darby
		213-2		23-Nov-12	1771	19	0.3	0.6	Tree Trench	Streets			Cobbs-Darby
		213-3		23-Nov-12	2582	19	0.5	1.1	Tree Trench	Streets			Cobbs-Darby
	214 *	214-1		23-Nov-12	753	11	0.1	0.2	Tree Trench	Streets			Cobbs-Darby
		214-2		23-Nov-12	2052	11	0.3	0.7	Tree Trench	Streets			Cobbs-Darby

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
	215 *	215-1		23-Nov-12	2534	16	0.4	0.8	Tree Trench	Streets		Pennsylvania Environmental Council	Cobbs-Darby
		215-2		23-Nov-12	3886	16	0.6	1.2	Tree Trench	Streets			Cobbs-Darby
	59 *	59-1		23-Nov-12	3251	5	0.5	1.0	Tree Trench	Streets			Cobbs-Darby
50028	175 *	175-1	Phila. Military Academy/MLK Rec Center/FD Elementary /Towey Rec Center	24-Dec-12	5051	20	0.7	1.5	Tree Trench	Streets	$606,000		Delaware
	176 *	176-1		24-Dec-12	2401	14	0.5	0.9	Tree Trench	Streets			Delaware
	177 *	177-1		24-Dec-12	3800	10	0.4	0.7	Tree Trench	Streets			Delaware
		177-2		24-Dec-12	3390	10	0.6	1.1	Tree Trench	Streets			Delaware
	178 *	178-1		24-Dec-12	2904	6	0.3	0.7	Tree Trench	Streets		Fairmount Park Commission,Pennsylvania Horticulture	Delaware
		178-2		24-Dec-12	1348	6	0.1	0.3	Tree Trench	Streets			Delaware
50029	147 *	147-1	Morris Leeds School, Pleasant Playground, Simons Rec. Center	10-May-13	709	32	0.3	0.3	Infiltration/Storage Trench	Streets	$1,152,000	Department of Recreation	TTF
	179 *	179-1		10-May-13	1473	80	0.3	0.6	Tree Trench	Streets			TTF
		179-10		10-May-13	1337	80	0.2	0.5	Tree Trench	Streets			TTF
		179-11		10-May-13	2499	80	0.4	0.8	Tree Trench	Streets			TTF
		179-12		10-May-13	1443	80	0.5	0.5	Tree Trench	Streets			TTF
		179-13		10-May-13	2387	80	0.4	0.8	Tree Trench	Streets			TTF
		179-14		10-May-13	1974	80	0.3	0.6	Tree Trench	Streets			TTF
		179-2		10-May-13	1950	80	0.3	0.6	Tree Trench	Streets			TTF
		179-3		10-May-13	2586	80	0.5	0.8	Tree Trench	Streets			TTF
		179-4		10-May-13	2778	80	0.5	1.0	Tree Trench	Streets			TTF
		179-5		10-May-13	4188	80	0.6	1.2	Tree Trench	Streets			TTF
		179-6		10-May-13	3805	80	0.6	1.3	Tree Trench	Streets			TTF
		179-7		10-May-13	1518	80	0.2	0.4	Tree Trench	Streets			TTF
		179-8		10-May-13	1700	80	0.2	0.5	Tree Trench	Streets			TTF
		179-9		10-May-13	1532	80	0.2	0.4	Tree Trench	Streets			TTF
50030	171	171-1	KendertonField, Cecil B.Moore, Congeso de Latinos, HM Stanton School	27-Sep-18	2417	11	0.2	0.5	Tree Trench	Streets	$1,363,000	Fairmount Park Commission,Pennsylvania Horticulture Society	Delaware
		171-2		27-Sep-18	1526	11	0.3	0.6	Tree Trench	Streets			Delaware
		171-3		27-Sep-18	3500	11	0.4	0.8	Tree Trench	Streets			Delaware
	172	172-1		27-Sep-18	3921	14	0.5	1.0	Bumpout, Tree Trench	Streets			Delaware
		172-2		27-Sep-18	3573	14	0.3	0.7	Bumpout, Tree Trench	Streets			Delaware
		172-3		27-Sep-18	1721	14	0.4	0.5	Bumpout, Tree Trench	Streets			Delaware
		172-4		27-Sep-18	1534	14	0.2	0.4	Tree Trench	Streets			Delaware
		172-5		27-Sep-18	1943	14	0.4	0.6	Infiltration/Storage Trench	Streets			Delaware
	173	173-1		27-Sep-18	1926	5	0.2	0.4	Tree Trench	Streets			Delaware
		173-2		27-Sep-18	1669	5	0.2	0.4	Tree Trench	Streets			Delaware
50031	123	123-1	58th St. Connector -Greenway Ave.	15-Jan-13	1705	7	0.4	0.6	Rain Garden	Streets	$368,000		Cobbs-Darby,Schuylkill
		123-2		15-Jan-13	1672	7	0.4	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		123-3		15-Jan-13	1534	7	0.3	0.6	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
50032	180	180-1	PHS Tree Trenches	05-Nov-11	646	4	0.1	0.2	Tree Trench	Streets	$0	Pennsylvania Horticulture Society	Delaware
	324	324-1		05-Nov-11	768	3	0.2	0.3	Tree Trench	Streets			Delaware
	325	325-1		05-Nov-11	1088	4	0.2	0.3	Tree Trench	Streets			Delaware
	326	326-1		05-Nov-11	1047	6	0.4	0.3	Tree Trench	Streets			Delaware
	327	327-1		05-Nov-11	1029	4	0.2	0.3	Tree Trench	Streets			Delaware
	342	342-1		05-Nov-11	1292	4	0.3	0.6	Tree Trench	Streets			Delaware
50033	46	46-1	Lancaster Ave 59th to 62nd Tree Trenches	01-Nov-10	2075	17	0.6	0.6	Tree Trench	Streets		Environmental Protection Agency,Philadelphia Department of Commerce,Philadelphia Industrial Development Corporation	Schuylkill
		46-2		01-Nov-10	782	17	0.1	0.2	Bumpout	Streets			Schuylkill
		46-3		01-Nov-10	1470	17	0.5	0.5	Rain Garden, Swale	Streets			Schuylkill
		46-4		01-Nov-10	3953	17	0.5	0.9	Swale	Streets			Schuylkill
50034	10 *	10-1	Trenton and Norris, Thompson and Columbia	20-Sep-13	3428	3	0.7	1.4	Bumpout, Tree Trench	Streets	$581,000	New Kensington Community Development Corporation,Pennsylvania Horticulture Society	Delaware
	88 *	88-1		20-Sep-13	2738	0	0.4	0.8	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
50035	45	45-1	Ben Franklin Parkway Tree Trenches	01-Jun-11	1011	0	0.2	0.4	Infiltration/Storage Trench	Streets	$216,000	Fairmount Park Commission	Schuylkill
		45-2		01-Jun-11	852	0	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		45-3		01-Jun-11	1698	0	0.2	0.5	Infiltration/Storage Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50036	228 *	228-1	29th / Cambria / William Cramp / Barton / Hunting Park	25-Apr-14	1189	0	0.2	0.4	Infiltration/Storage Trench	Streets	$623,000	Philadelphia Department of Parks & Recreation	Delaware
	277 *	277-1		25-Apr-14	3380	11	0.6	1.1	Tree Trench	Streets			Delaware
		277-2		25-Apr-14	1500	11	0.3	0.6	Tree Trench	Streets			Delaware
	278 *	278-1		25-Apr-14	4885	5	0.9	1.6	Tree Trench	Streets			TTF
	50 *	50-1		25-Apr-14	3353	0	0.6	1.0	Bumpout, Infiltration/Storage Trench	Streets		Philadelphia Department of Parks & Recreation	Delaware,Schuylkill
50037	250 *	250-1	Cassidy/Overbrook/Shoemaker/ Cathedral/Durham/sister Clara/James Rhoads/Belmont	09-Sep-13	2261	29	0.4	0.8	Tree Trench	Streets	$1,547,000		Schuylkill
		250-2		09-Sep-13	2675	29	0.4	0.8	Tree Trench	Streets			Schuylkill
		250-3		09-Sep-13	1561	29	0.2	0.5	Tree Trench	Streets			Schuylkill
	251 *	251-1		09-Sep-13	3614	13	0.6	1.1	Tree Trench	Streets			Schuylkill
	252 *	252-1		09-Sep-13	1467	15	0.3	0.5	Tree Trench	Streets			Schuylkill
		252-2		09-Sep-13	1466	15	0.3	0.5	Tree Trench	Streets			Schuylkill
	253 *	253-1		09-Sep-13	2989	39	0.6	1.0	Tree Trench	Streets			Schuylkill
		253-2		09-Sep-13	1288	39	0.2	0.3	Tree Trench	Streets			Schuylkill
		253-3		09-Sep-13	2818	39	0.6	1.0	Tree Trench	Streets			Schuylkill
	254 *	254-1		09-Sep-13	1488	4	0.2	0.5	Tree Trench	Streets			Schuylkill
		254-2		09-Sep-13	1809	4	0.3	0.6	Tree Trench	Streets			Schuylkill
	255 *	255-1		09-Sep-13	3159	9	0.6	1.1	Tree Trench	Streets			Cobbs-Darby
		255-2		09-Sep-13	2617	9	0.4	0.8	Tree Trench	Streets			Cobbs-Darby
	256 *	256-1		09-Sep-13	3189	3	0.6	0.9	Tree Trench	Streets			Schuylkill
	257 *	257-1		09-Sep-13	2921	12	0.6	0.9	Tree Trench	Streets			Schuylkill
50038	247 *	247-1	Donald/Wilson/Vare/StephenGirard/Southwark/Markward/Cherry/JulianAbele	16-May-13	3566	7	0.5	1.0	Tree Trench	Streets	$1,336,000	Department of Public Property	Schuylkill
	258 *	258-1		16-May-13	3728	23	0.7	1.2	Tree Trench	Streets			Schuylkill
	259 *	259-1		16-May-13	6155	18	0.8	1.7	Tree Trench	Streets			Schuylkill
		259-2		16-May-13	2778	18	0.4	0.9	Tree Trench	Streets			Schuylkill
	260 *	260-1		16-May-13	2991	20	0.5	0.9	Tree Trench	Streets			Schuylkill
		260-2		16-May-13	1480	20	0.3	0.6	Tree Trench	Streets			Schuylkill
	261 *	261-1		16-May-13	1604	6	0.2	0.4	Tree Trench	Streets			Schuylkill
	262 *	262-1		16-May-13	2029	3	0.4	0.7	Tree Trench	Streets			Delaware
50039	268 *	268-1	Temple / William Gray / Dick Elementary / Parking Lot 12th and Diamond	01-Aug-14	1715	9	0.4	0.6	Tree Trench	Streets	$889,000		Delaware
		268-2		01-Aug-14	1495	9	0.2	0.5	Infiltration/Storage Trench	Streets			Delaware
		268-3		01-Aug-14	1015	9	0.2	0.3	Tree Trench	Streets			Delaware
	269 *	269-1		01-Aug-14	1601	21	0.3	0.5	Tree Trench	Streets			Delaware
		269-2		01-Aug-14	1776	21	0.3	0.6	Tree Trench	Streets			Delaware
		269-3		01-Aug-14	1303	21	0.2	0.4	Tree Trench	Streets			Delaware
		269-4		01-Aug-14	1402	21	0.2	0.4	Tree Trench	Streets			Delaware
		269-5		01-Aug-14	1605	21	0.2	0.4	Tree Trench	Streets			Delaware
	270 *	270-1		01-Aug-14	3933	11	0.3	0.7	Tree Trench	Streets			Delaware
		270-2		01-Aug-14	2708	11	0.3	0.6	Tree Trench	Streets			Delaware
	283 *	283-1		01-Aug-14	1985	1	0.3	0.6	Tree Trench	Streets		Philadelphia Housing Authority	Delaware
50040	153	153-1	Yorktown Green Streets	20-Feb-19	1666	15	0.5	0.9	Infiltration/Storage Trench, Planter	Streets	$1,418,000		Delaware
		153-2		14-Mar-19	2677	15	0.5	1.0	Infiltration/Storage Trench, Planter	Streets			Delaware
		153-3		11-Dec-18	1004	15	0.2	0.4	Infiltration/Storage Trench, Planter	Streets			Delaware
		153-4		07-Nov-18	997	15	0.2	0.4	Infiltration/Storage Trench, Planter	Streets			Delaware
		153-5		16-Oct-18	891	15	0.2	0.4	Infiltration/Storage Trench, Planter	Streets			Delaware
		153-6		13-Sep-18	1327	15	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50041	167 *	167-1	Longstretch, Little Sisters of Poor, McCresh Plground, Cobbs Crk Pkwy. Island	13-Jan-14	2798	33	0.4	0.8	Tree Trench	Streets	$1,232,000	Snyderville Community Development Corporation	Schuylkill
		167-2		13-Jan-14	2733	33	0.5	1.0	Tree Trench	Streets			Schuylkill
		167-3		13-Jan-14	4354	33	0.8	1.6	Tree Trench	Streets			Schuylkill
	264 *	264-1		13-Jan-14	4488	13	0.8	1.6	Planter, Tree Trench	Streets			Cobbs-Darby
	265 *	265-1		13-Jan-14	1754	12	0.3	0.5	Tree Trench	Streets			Cobbs-Darby
		265-2		13-Jan-14	1446	12	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		265-3		13-Jan-14	2587	12	0.5	0.9	Infiltration/Storage Trench	Streets			Cobbs-Darby
		265-4		13-Jan-14	1481	12	0.3	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby
		265-5		13-Jan-14	1212	12	0.2	0.4	Tree Trench	Streets			Cobbs-Darby
	266 *	266-1		13-Jan-14	3312	6	0.8	1.5	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
50042	271 *	271-1	Bridesburg Sch., Dorsey Plygrnd, Roosevelt Plygrnd, Magnolia Cem.,Carmell	30-Sep-13	1930	3	0.4	0.8	Infiltration/Storage Trench, Rain Garden	Streets	$1,765,000	Philadelphia Department of Parks & Recreation,Tacony Civic Association	Delaware
		271-2		30-Sep-13	1108	3	0.2	0.5	Infiltration/Storage Trench	Streets			Delaware
		271-3		30-Sep-13	4671	3	0.6	1.1	Tree Trench	Streets			Delaware
	272 *	272-1		30-Sep-13	1128	16	0.2	0.3	Tree Trench	Streets		Tacony Civic Association	Delaware,TTF
		272-2		30-Sep-13	1438	16	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		272-3		30-Sep-13	1685	16	0.3	0.6	Tree Trench	Streets			Delaware,TTF
		272-4		30-Sep-13	1673	16	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		272-5		30-Sep-13	1583	16	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		272-6		30-Sep-13	2446	16	0.3	0.7	Tree Trench	Streets			Delaware,TTF
		272-7		30-Sep-13	2761	16	0.4	0.7	Tree Trench	Streets			Delaware,TTF
	273 *	273-1		30-Sep-13	2213	35	0.3	0.6	Tree Trench	Streets			Delaware
		273-2		30-Sep-13	1814	35	0.3	0.5	Tree Trench	Streets			Delaware
		273-3		30-Sep-13	1725	35	0.3	0.5	Tree Trench	Streets			Delaware
	274 *	274-1		30-Sep-13	3559	42	0.6	1.1	Tree Trench	Streets		Roosevelt Playground Park Advisory Council,Tacony Civic Association	Delaware
		274-2		30-Sep-13	2091	42	0.3	0.5	Tree Trench	Streets			Delaware
		274-3		30-Sep-13	1122	42	0.1	0.2	Tree Trench	Streets			Delaware
		274-4		30-Sep-13	1667	42	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware
	275 *	275-1		30-Sep-13	1968	2	0.3	0.5	Tree Trench	Streets		Tacony Civic Association	Delaware
50043	279 *	279-1	Harpers Hollow, Wakefield Park	04-Dec-12	2996	0	0.6	1.1	Basin	Open Space	$474,000	Philadelphia Department of Parks & Recreation	TTF
	281 *	281-1		04-Dec-12	1798	0	0.4	0.8	Rain Garden	Open Space			TTF
		281-2		04-Dec-12	2769	0	0.5	1.0	Rain Garden	Open Space			TTF
50044	280	280-1	Wister Woods, Kemble Park	21-Jan-15	21592	69	3.1	6.1	Rain Garden, Swale	Open Space	$2,360,000	Philadelphia Department of Parks & Recreation	TTF
		280-2		21-Jan-15	5052	69	0.7	1.4	Infiltration/Storage Trench	Open Space			TTF
		280-3		21-Jan-15	7996	69	1.2	2.4	Infiltration/Storage Trench	Open Space			TTF
		280-4		21-Jan-15	2008	69	0.3	0.6	Infiltration/Storage Trench	Open Space			TTF
	282	282-1		21-Jan-15	9158	7	0.9	1.8	Rain Garden	Open Space			TTF
		282-2		21-Jan-15	11228	7	1.3	2.6	Rain Garden	Open Space			TTF
		282-3		21-Jan-15	11275	7	1.3	2.6	Rain Garden	Open Space			TTF
		282-4		21-Jan-15	9504	7	1.3	2.6	Rain Garden	Open Space			TTF
50045	292	292-1	Ben Franklin Parkway 16-19th St.	16-Mar-17	3338	0	0.5	1.1	Infiltration/Storage Trench	Streets	Unknown	Department of Public Property,Philadelphia Department of Parks & Recreation	Schuylkill
		292-2		16-Mar-17	1920	0	0.3	0.5	Infiltration/Storage Trench	Streets			Schuylkill
		292-3		16-Mar-17	1680	0	0.2	0.5	Infiltration/Storage Trench	Streets			Schuylkill
		292-4		16-Mar-17	1322	0	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		292-5		16-Mar-17	2424	0	0.3	0.6	Infiltration/Storage Trench	Streets			Schuylkill
		292-6		16-Mar-17	2414	0	0.5	0.8	Infiltration/Storage Trench	Streets			Schuylkill
50046	243 *	243-1	Womrath Park	27-Sep-12	3539	7	1.1	1.2	Infiltration/Storage Trench, Rain Garden, Swale	Open Space	$540,000	Tookany/Tacony-Frankford Watershed Partnership,Philadelphia Department of Parks & Recreation,Frankford Civic Association	TTF
		366-1		29-May-13	875	5	0.2	0.3	Rain Garden	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50047	366	366-10	Philadelphia Zoo Green Streets Project	29-May-13	816	5	0.1	0.2	Infiltration/Storage Trench, Planter	Streets	$358,000	Philadelphia Department of Parks & Recreation,Philadelphia Zoo	Schuylkill
		366-2		29-May-13	894	5	0.2	0.4	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		366-3		29-May-13	385	5	0.1	0.1	Rain Garden	Streets			Schuylkill
		366-4		29-May-13	814	5	0.2	0.4	Rain Garden	Streets			Schuylkill
		366-5		29-May-13	582	5	0.1	0.2	Rain Garden	Streets			Schuylkill
		366-6		29-May-13	797	5	0.1	0.3	Rain Garden	Streets			Schuylkill
		366-8		29-May-13	650	5	0.1	0.2	Infiltration/Storage Trench	Streets			Schuylkill
		366-9		29-May-13	697	5	0.1	0.2	Infiltration/Storage Trench	Streets			Schuylkill
50048	375	375-1	Kinsey Sch./National Cem./Rowen Sch./Wagner Sch.	26-Oct-17	3997	10	0.7	1.3	Tree Trench	Streets	$1,108,000		TTF
		375-2		26-Oct-17	2070	10	0.3	0.5	Tree Trench	Streets			TTF
	377	377-1		26-Oct-17	591	0	0.1	0.2	Infiltration/Storage Trench, Swale	Streets			TTF
		377-2		26-Oct-17	720	0	0.2	0.4	Infiltration/Storage Trench, Swale	Streets			TTF
		377-3		26-Oct-17	587	0	0.2	0.3	Infiltration/Storage Trench, Swale	Streets			TTF
	378	378-1		26-Oct-17	3260	9	0.6	1.2	Tree Trench	Streets			TTF
	379	379-1		26-Oct-17	3457	11	0.6	1.2	Tree Trench	Streets			TTF
		379-2		26-Oct-17	1913	11	0.4	0.6	Tree Trench	Streets			TTF
50049	291	291-1	Sharswood & Our Lady of Carmel Schs./ St. Monica/ Taggart Sch.	27-Sep-17	3023	3	0.4	0.8	Tree Trench	Streets	$1,265,000	Community Design Collaborative	Delaware
		291-2		27-Sep-17	875	3	0.2	0.3	Tree Trench	Streets			Delaware
		291-3		27-Sep-17	2063	3	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
	388	388-1		27-Sep-17	2006	5	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		388-2		27-Sep-17	1494	5	0.4	0.5	Tree Trench	Streets			Delaware
		388-3		27-Sep-17	985	5	0.2	0.3	Tree Trench	Streets			Delaware
		388-4		27-Sep-17	1479	5	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
	389	389-1		27-Sep-17	2177	3	0.5	0.7	Infiltration/Storage Trench	Streets			Delaware
		389-2		27-Sep-17	1306	3	0.2	0.5	Tree Trench	Streets			Delaware
50051	392	392-1	73rd/Elmwood Pk./Patterson Sch./Connell Pk./Mother Mary Sch./St. James Ch.	03-Feb-15	4871	8	0.8	1.6	Tree Trench	Streets	$2,526,000		Cobbs-Darby,Schuylkill
		392-2		03-Feb-15	4663	8	0.9	1.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
	393	393-1		03-Feb-15	4901	9	0.9	1.8	Infiltration/Storage Trench, Rain Garden	Streets		Philadelphia Department of Parks & Recreation	Schuylkill
		393-2		03-Feb-15	2267	9	0.4	0.7	Tree Trench	Streets			Schuylkill
		393-3		03-Feb-15	3855	9	0.8	1.2	Rain Garden, Tree Trench	Streets			Schuylkill
		393-4		03-Feb-15	1081	9	0.1	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		393-5		03-Feb-15	4995	9	0.9	1.6	Tree Trench	Streets			Schuylkill
	394	394-1		03-Feb-15	1425	6	0.2	0.4	Tree Trench	Streets			Schuylkill
		394-2		03-Feb-15	3184	6	0.6	1.0	Tree Trench	Streets			Schuylkill
		394-3		03-Feb-15	881	6	0.1	0.3	Infiltration/Storage Trench	Streets			Schuylkill
	396	396-1		03-Feb-15	4331	17	0.7	1.4	Tree Trench	Streets			Schuylkill
		396-2		03-Feb-15	1413	17	0.4	0.7	Tree Trench	Streets			Schuylkill
		396-3		03-Feb-15	3229	17	0.5	1.0	Tree Trench	Streets			Schuylkill
	397	397-1		03-Feb-15	3846	8	0.7	1.2	Tree Trench	Streets			Schuylkill
		397-2		03-Feb-15	1832	8	0.4	0.7	Tree Trench	Streets			Schuylkill
	398	398-1		03-Feb-15	12536	18	2.2	3.9	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		398-2		03-Feb-15	3931	18	0.4	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
	335	335-1		12-Mar-18	6081	2	1.0	1.8	Bumpout, Infiltration/Storage Trench	Streets		Southeastern Transportation Authority	TTF
		380-1		12-Mar-18	5493	0	1.1	1.7	Infiltration/Storage Trench	Streets			TTF
		380-10		12-Mar-18	1560	0	0.3	0.5	Infiltration/Storage Trench	Streets			TTF
		380-11		12-Mar-18	1534	0	0.2	0.4	Infiltration/Storage Trench	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50052	380	380-12	Chelten Hills Cem./Finley Pg./Ivy Hills Cem./Pennypacker Sch./ Sedgwick Sta.	12-Mar-18	2048	0	0.3	0.6	Infiltration/Storage Trench, Swale	Streets	$2,256,000		TTF
		380-2		12-Mar-18	2615	0	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			TTF
		380-3		12-Mar-18	2709	0	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			TTF
		380-4		12-Mar-18	2922	0	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			TTF
		380-5		12-Mar-18	1544	0	0.2	0.4	Infiltration/Storage Trench	Streets			TTF
		380-6		12-Mar-18	3284	0	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			TTF
		380-9		12-Mar-18	3185	0	0.5	1.0	Infiltration/Storage Trench, Swale	Streets			TTF
	383	383-1		12-Mar-18	3622	0	0.6	1.2	Infiltration/Storage Trench	Streets			TTF
		383-2		12-Mar-18	2952	0	0.6	0.9	Infiltration/Storage Trench	Streets			TTF
50053	314	314-1	Logan Sch./Wayne/Windrim/Richmond Lib./Stokley/Vacant Lot/Skev. Pk./Westmoreland	28-Mar-18	1465	16	0.3	0.5	Tree Trench	Streets	$1,843,000		TTF
		314-2		28-Mar-18	1746	16	0.4	0.6	Tree Trench	Streets			TTF
		314-3		28-Mar-18	2932	16	0.8	1.0	Tree Trench	Streets			TTF
	384	384-1		28-Mar-18	4170	9	0.7	1.3	Tree Trench	Streets			Delaware
	385	385-1		28-Mar-18	2054	7	0.4	0.7	Tree Trench	Streets			Delaware
		385-2		28-Mar-18	905	7	0.1	0.3	Tree Trench	Streets			Delaware
	413	413-1		28-Mar-18	1365	0	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets		Department of Public Property	TTF
		413-2		28-Mar-18	1093	0	0.2	0.3	Bumpout, Infiltration/Storage Trench	Streets			TTF
50055	246	246-1	40th St./Drexel COMAD/Malcom X Pk./42nd St.Vacant Lot/Beeber Sch./Upland Way	20-Mar-19	2458	13	0.4	0.7	Tree Trench	Streets	$1,941,000	Drexel University	Schuylkill
		246-2		20-Mar-19	2794	13	0.4	0.8	Tree Trench	Streets			Schuylkill
	344	344-1		20-Mar-19	2506	3	0.3	0.6	Tree Trench	Streets			Schuylkill
	399	399-1		20-Mar-19	2525	29	0.3	0.6	Tree Trench	Streets		Philadelphia Planning Commission,Philadelphia Department of Parks & Recreation	Cobbs-Darby,Schuylkill
		399-2		20-Mar-19	3759	29	0.7	1.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		399-3		20-Mar-19	1605	29	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		399-4		20-Mar-19	3382	29	0.5	1.0	Tree Trench	Streets			Cobbs-Darby,Schuylkill
	400	400-1		20-Mar-19	3279	0	0.5	1.0	Bumpout, Infiltration/Storage Trench, Swale	Streets		American Cities Foundation	Schuylkill
		400-2		20-Mar-19	1756	0	0.2	0.4	Bumpout, Infiltration/Storage Trench, Swale	Streets			Schuylkill
		400-3		20-Mar-19	1704	0	0.2	0.4	Bumpout, Infiltration/Storage Trench, Swale	Streets			Schuylkill
		400-4		20-Mar-19	5082	0	0.8	1.6	Infiltration/Storage Trench, Swale	Streets			Schuylkill
50057	417	417-1	Stenton Ave. & E. Washington Ln.	08-Jul-14	2326	0	0.3	0.6	Rain Garden	Streets	$34,000	Philadelphia Streets Department,Ogontz Avenue Revitalization Corporation,Mayors Office of Transportation & Utilities	TTF
50059	410	410-1	Harrowgate Park	01-Sep-16	1842	0	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Open Space	$807,000	Southeastern Transportation Authority,Philadelphia Department of Parks & Recreation	Delaware
		410-2		01-Sep-16	2885	0	0.4	0.8	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
		410-3		01-Sep-16	4049	0	0.4	0.8	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
		410-4		01-Sep-16	5789	0	0.8	1.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50060	416	416-1	Hunting Park	31-Jan-20	1642	20	0.2	0.4	Infiltration/Storage Trench, Rain Garden	Open Space	$1,824,000	Philadelphia Department of Parks & Recreation	Delaware,TTF
		416-10		31-Jan-20	10061	20	1.4	2.8	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
		416-2		15-Nov-19	6476	20	0.9	1.8	Infiltration/Storage Trench	Open Space			Delaware,TTF
		416-3		31-Jan-20	1828	20	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
		416-4		07-Oct-19	2894	20	0.4	0.8	Infiltration/Storage Trench	Open Space			Delaware,TTF
		416-5		02-Nov-19	2955	20	0.4	0.8	Infiltration/Storage Trench	Open Space			Delaware,TTF
		416-6		19-Sep-19	972	20	0.2	0.4	Rain Garden	Open Space			Delaware,TTF
		416-7		24-Nov-20	1963	20	0.3	0.5	Infiltration/Storage Trench	Open Space			Delaware,TTF
		416-9		31-Jan-20	15146	20	2.1	4.2	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
50061	471	471-1	Bustleton Avenue South, TIGER 3 Project (w/PWD Green Streets Funding)	08-Feb-16	2650	0	0.5	0.9	Infiltration/Storage Trench	Streets	$177,000	Philadelphia Streets Department	Delaware
50062	470	470-1	TIGER III: Woodland Ave. Corrdor (For PWD Green Streets Program)	14-Dec-15	1820	15	0.4	0.7	Tree Trench	Streets	$438,000	Philadelphia Streets Department	Cobbs-Darby,Schuylkill
		470-2		14-Dec-15	770	15	0.2	0.3	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		470-3		14-Dec-15	3118	15	0.6	1.0	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		470-4		14-Dec-15	1024	15	0.2	0.3	Tree Trench	Streets			Cobbs-Darby,Schuylkill
50063	310	310-1	Eadom St. Parking Lot - 5312-50 Eadom	02-May-12	3973	20	0.8	1.2	Rain Garden	Parking	$0	Department of Public Property	Delaware
		310-2		02-May-12	1949	20	0.3	0.6	Rain Garden	Parking			Delaware
		310-3		02-May-12	675	20	0.1	0.2	Rain Garden	Parking			Delaware
		310-4		02-May-12	223	20	0.0	0.0	Rain Garden	Parking			Delaware
		310-5		02-May-12	2689	20	0.6	0.8	Rain Garden	Parking			Delaware
		310-6		02-May-12	1289	20	0.1	0.3	Rain Garden	Parking			Delaware
50065	367	367-1	Panati Playground	14-May-15	3770	8	0.9	1.3	Infiltration/Storage Trench, Rain Garden	Open Space	$227,000	Department of Public Property,Philadelphia Department of Parks & Recreation	Delaware
50067	276	276-1	29th and Cambria PWD Facility Parking Lot	31-Oct-16	3963	58	0.8	1.3	Swale, Tree Trench	Streets	$1,009,000		Delaware
		276-2		31-Oct-16	4302	58	0.9	1.4	Swale, Tree Trench	Streets			Delaware
50068	244	244-1	Ingersoll Commons	08-Nov-16	6056	17	0.7	1.4	Infiltration/Storage Trench, Rain Garden, Swale	Open Space	$752,000	Community Ventures,Department of Public Property,Philadelphia Department of Parks & Recreation	Delaware
50069	511	511-1	Callowhill St. from 2nd St. to 7th St.	05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets	$0	Philadelphia Streets Department	Delaware
		511-10		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-2		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-3		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-4		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-5		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-6		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-7		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-8		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
		511-9		05-Feb-16	27	10	0.0	0.0	Stormwater Tree	Streets			Delaware
50070	524	524-1	Benson Park	13-Nov-15	0	0	0.2	0.2	Pervious Paving	Open Space	Unknown	Department of Public Property,Philadelphia Department of	Delaware
		524-2		13-Nov-15	700	0	0.2	0.3	Infiltration/Storage Trench	Open Space			Delaware
50071	475	475-1	Green2015 - Phase I - Collazo (2.37 GA)	23-Jun-17	5697	16	1.2	1.9	Infiltration/Storage Trench, Rain Garden	Open Space	Unknown	Philadelphia School District,Philadelphia Department of Parks & Recreation,Trust for Public Land	Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50075	479	479-1	Green2015 - Phase I - William Dick Elementary	13-Jun-14	8738	0	1.5	2.8	Rain Garden	Schools	$207,000	Philadelphia School District,Philadelphia Department of Parks & Recreation,Trust for Public Land	Delaware
50077	322	322-1	Baker, Heston, Haverford Triangle	16-Sep-16	944	10	0.2	0.3	Infiltration/Storage Trench	Vacant Land	$725,000		Schuylkill
		322-2		16-Sep-16	3056	10	0.6	0.9	Rain Garden	Vacant Land			Schuylkill
		322-3		16-Sep-16	1574	10	0.4	0.7	Infiltration/Storage Trench	Vacant Land			Schuylkill
	530	530-1		16-Sep-16	1419	0	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Streets		Philadelphia Department of Parks & Recreation	Schuylkill
	558	558-1		16-Sep-16	3638	4	0.7	1.3	Infiltration/Storage Trench, Rain Garden	Vacant Land		Department of Public Property,Philadelphia Department of Parks & Recreation	Schuylkill
50078	303	303-1	Clearview Community Park & Morris Estate Park	07-Oct-16	3531	0	0.7	1.5	Infiltration/Storage Trench, Rain Garden	Vacant Land	$866,000	Tookany/Tacony-Frankford Watershed Partnership	TTF
	642	642-2		07-Oct-16	1037	13	0.3	0.6	Tree Trench	Open Space		Philadelphia Department of Parks & Recreation	TTF
		642-3		07-Oct-16	4670	13	0.8	1.5	Infiltration/Storage Trench, Rain Garden	Open Space			TTF
		642-6		07-Oct-16	1978	13	0.4	0.7	Tree Trench	Open Space			TTF
50079	401	401-1	Guerin Recreation Center	23-Jul-18	5641	1	0.7	1.5	Infiltration/Storage Trench	Open Space	$1,148,000	Philadelphia Department of Parks & Recreation	Schuylkill
		401-2		23-Jul-18	9563	1	1.3	2.6	Infiltration/Storage Trench	Open Space			Schuylkill
		401-3		23-Jul-18	0	1	2.1	0.1	Depaving	Open Space			Schuylkill
50080	588	588-2	Penn Street Trail	13-Jun-13	1260	25	0.6	0.3	Rain Garden	Streets	$0	DRWC	Delaware
		588-3		13-Jun-13	447	25	0.2	0.1	Rain Garden	Streets			Delaware
50082	597	597-1	33rd and Dauphin St. Sept Bus Loop Green Streets Project	31-Jul-13	481	0	0.1	0.1	Infiltration/Storage Trench	Streets	$0	Southeastern Transportation Authority	Schuylkill
50083	151	151-1	Weccacoe Playground	09-Dec-16	1181	9	0.3	0.4	Infiltration/Storage Trench, Rain Garden	Open Space	Unknown	Philadelphia Department of Parks & Recreation	Delaware
		151-2		09-Dec-16	0	9	0.3	0.0	Depaving	Open Space			Delaware
		151-3		09-Dec-16	0	9	0.3	0.0	Depaving	Open Space			Delaware
		151-4		09-Dec-16	0	9	0.3	0.1	Depaving	Open Space			Delaware
		151-5		09-Dec-16	0	9	0.3	0.0	Depaving	Open Space			Delaware
		151-6		09-Dec-16	0	9	0.3	0.0	Depaving	Open Space			Delaware
50084	487	487-1	Moss Playground/Carmella Playground	13-Jan-20	6088	15	1.0	2.0	Tree Trench	Open Space	$1,742,000	Philadelphia Department of Parks & Recreation	Delaware
		487-2		13-Jan-20	11478	15	1.7	3.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
	580	580-1		13-Jan-20	4241	0	0.7	1.4	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
		580-2		13-Jan-20	5611	0	0.8	1.6	Rain Garden	Open Space			Delaware,TTF
		580-3		13-Jan-20	1775	0	0.2	0.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
		580-4		13-Jan-20	4630	0	0.8	1.6	Rain Garden	Open Space			Delaware,TTF
		580-5		13-Jan-20	1943	0	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware,TTF
		580-6		13-Jan-20	875	0	0.1	0.3	Infiltration/Storage Trench	Open Space			Delaware,TTF
50085	574	574-1	Ralph Brooks Park	08-Oct-15	1609	5	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Open Space	Unknown	Philadelphia Department of Parks & Recreation,Councilman Johnson,Urban Roots	Schuylkill
		546-1		11-Sep-20	2009	16	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		546-2		06-Jul-21	1009	16	0.2	0.4	Tree Trench	Streets			Delaware
		546-3		18-Aug-21	2120	16	0.3	0.6	Infiltration/Storage Trench, Planter	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50088	546	546-4	Rowland and Crispin	06-Jul-21	3112	16	0.6	1.0	Infiltration/Storage Trench, Planter	Streets	$4,502,000		Delaware
		546-5		11-Sep-20	2380	16	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		546-6		18-Nov-20	1475	16	0.2	0.5	Tree Trench	Streets			Delaware
		546-7		11-Sep-20	4188	16	0.8	1.3	Infiltration/Storage Trench, Swale	Streets			Delaware
		546-8		18-Nov-20	3616	16	0.6	1.2	Infiltration/Storage Trench, Swale	Streets			Delaware
	595	595-1		15-Dec-21	2447	16	0.5	0.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-10		03-May-21	876	16	0.1	0.3	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-11		09-Sep-20	3785	16	0.7	1.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-12		09-Sep-20	3027	16	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-2		12-Apr-22	5507	16	1.1	1.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-3		26-Aug-22	5113	16	1.1	1.6	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-4		19-Aug-21	4327	16	0.8	1.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-5		26-Aug-22	5137	16	1.0	1.7	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-6		03-May-21	1040	16	0.2	0.3	Tree Trench	Streets			Delaware,Pennypack
		595-7		13-Apr-22	2842	16	0.6	0.9	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-8		26-Aug-22	4120	16	0.8	1.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		595-9		09-Sep-20	6412	16	1.1	2.1	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
	596	596-1		27-May-20	3903	6	0.6	1.3	Bumpout, Infiltration/Storage Trench	Streets			Pennypack
		596-2		27-May-20	4244	6	0.7	1.4	Bumpout, Infiltration/Storage Trench	Streets			Pennypack
		596-3		26-May-20	1899	6	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			Pennypack
		596-4		26-May-20	1361	6	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Pennypack
50089	455	455-1	Erie, Francis Hopkins, and Mariana Bracetti	29-Oct-19	1911	0	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets	$1,819,000		TTF
		455-2		29-Oct-19	6567	0	0.9	1.8	Infiltration/Storage Trench, Planter	Streets			TTF
	459	459-1		29-Oct-19	8729	3	1.8	2.9	Planter, Tree Trench	Streets			TTF
		459-2		23-Oct-19	899	3	0.4	0.3	Infiltration/Storage Trench, Planter	Streets			TTF
50090	539	539-1	Protestant Home and Devereaux	21-May-24	2161	9	0.5	0.7	Tree Trench	Streets	$1,977,000		Delaware
		539-2		21-May-24	1568	9	0.4	0.4	Tree Trench	Streets			Delaware
		539-3		21-May-24	1006	9	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
		539-4		21-May-24	2852	9	0.6	1.0	Infiltration/Storage Trench	Streets			Delaware
	540	540-1		06-Dec-23	4215	19	1.1	1.4	Tree Trench	Streets			Delaware
		540-2		06-Dec-23	2209	19	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware
		540-3		06-Dec-23	2387	19	0.4	0.9	Tree Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		540-4		06-Dec-23	4127	19	0.9	1.6	Tree Trench	Streets			Delaware
50091	589	589-1	Stinger Square	06-Jul-16	1475	15	0.2	0.5	Infiltration/Storage Trench	Open Space	Unknown	Philadelphia Department of Parks & Recreation	Schuylkill
		589-2		06-Jul-16	1558	15	0.4	0.5	Infiltration/Storage Trench, Rain Garden	Open Space			Schuylkill
50097	483	483-1	Black Coyle McBride Playground	10-Jul-19	2711	0	0.5	1.0	Infiltration/Storage Trench	Open Space	$1,200,000	Philadelphia Department of Parks & Recreation	Delaware
	634	634-1		30-Mar-18	1683	3	0.3	0.5	Tree Trench	Streets			Delaware
	637	637-1		05-Nov-18	1371	3	0.2	0.3	Tree Trench	Streets			Delaware
	638	638-2		09-Jan-18	786	6	0.1	0.2	Tree Trench	Streets			Delaware
		638-3		02-Feb-18	958	6	0.1	0.2	Tree Trench	Streets			Delaware
	993	993-1		06-Aug-18	1471	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
50098	1007	1007-1	Neighborhood Parks - Wissinoming Park	15-Feb-18	2225	0	0.6	0.7	Infiltration/Storage Trench, Rain Garden	Open Space	$246,000	Philadelphia Department of Parks & Recreation	Delaware
		1007-2		15-Feb-18	4815	0	1.0	1.5	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
50101	1049	1049-1	Kingsessing Recreation Center and Street Locations	06-Mar-19	793	10	0.1	0.3	Tree Trench	Streets	$1,789,000		Cobbs-Darby,Schuylkill
		1049-2		19-Mar-19	1349	10	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1049-3		08-Jan-19	1405	10	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1049-4		18-Dec-18	1312	10	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1049-5		26-Mar-19	1194	10	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
	608	608-1		15-Jan-19	9421	17	1.6	3.0	Infiltration/Storage Trench, Rain Garden	Open Space		Philadelphia Department of Parks & Recreation	Schuylkill
		608-2		04-Jun-19	16397	17	2.2	4.4	Infiltration/Storage Trench, Rain Garden	Open Space			Schuylkill
		608-3		31-Oct-18	5410	17	0.7	1.4	Infiltration/Storage Trench, Rain Garden	Open Space			Schuylkill
		608-4		19-Feb-19	3661	17	0.6	1.1	Infiltration/Storage Trench	Open Space			Schuylkill
50102	1012	1012-1	Gray's Ferry Neighborhood Disconnection SMP Lanier Park	06-Oct-16	224448	0	0.0	0.0	Infiltration/Storage Trench	Open Space	$3,692,000	Philadelphia Department of Parks & Recreation	Schuylkill
50103	1024	1024-1	Drainage Well	07-Sep-18	561	0	0.2	0.2	Drainage Well	Streets	$611,000		Cobbs-Darby
	1025	1025-1		07-Sep-18	258	0	0.2	0.3	Drainage Well	Streets			Delaware
	1029	1029-1		07-Sep-18	458	0	0.4	0.3	Drainage Well	Streets			Delaware
50104	1050	1050-1	Stenton Park and Streets Locations	06-Apr-18	2045	26	0.3	0.6	Tree Trench	Streets	$2,294,000		TTF
		1050-2		24-May-18	3580	26	0.5	1.0	Tree Trench	Streets			TTF
		1050-3		14-Jun-18	939	26	0.2	0.4	Tree Trench	Streets			TTF
		1050-4		15-Oct-18	1740	26	0.3	0.6	Tree Trench	Streets			TTF
		1050-5		17-May-18	2652	26	0.4	0.8	Infiltration/Storage Trench	Streets			TTF
		1050-8		29-Aug-18	2487	26	0.5	0.8	Tree Trench	Streets			TTF
		1050-9		14-May-18	1241	26	0.2	0.4	Tree Trench	Streets			TTF
	578	578-1		04-Jun-18	7803	21	1.1	2.1	Infiltration/Storage Trench	Open Space		Philadelphia Department of Parks & Recreation	TTF
		578-2		18-Oct-18	6283	21	0.8	1.6	Infiltration/Storage Trench, Rain Garden	Open Space			TTF
		578-3		18-Oct-18	6416	21	0.8	1.7	Infiltration/Storage Trench, Rain Garden	Open Space			TTF
		578-4		07-Dec-18	2299	21	0.3	0.6	Rain Garden	Open Space			TTF
		578-5		19-Oct-18	1430	21	0.2	0.5	Tree Trench	Open Space			TTF
		1051-1		17-Nov-20	8567	69	1.8	3.5	Green Gutter, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1051-10		16-Apr-21	1849	69	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-12		16-Apr-21	3080	69	0.4	0.9	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50105	1051	1051-13	Francis Myers Recreation Center and Streets Locations	15-Jul-21	4532	69	0.9	1.6	Bumpout, Infiltration/Storage Trench	Streets	$4,242,000		Cobbs-Darby,Schuylkill
		1051-14		22-Apr-21	2465	69	0.4	0.7	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-15		28-Apr-21	3205	69	0.4	0.9	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-16		10-Jun-21	2693	69	0.4	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-17		22-Apr-21	905	69	0.1	0.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-18		21-May-21	4233	69	0.6	1.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-19		15-Jul-21	1338	69	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-2		17-Nov-20	4730	69	0.6	1.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-20		02-Jun-21	704	69	0.1	0.2	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1051-21		02-Jun-21	2532	69	0.4	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-22		02-Jun-21	3282	69	0.6	1.0	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-3		25-Jan-21	2008	69	0.5	0.7	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-4		25-Jan-21	1119	69	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-5		25-Jan-21	1893	69	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-6		25-Jan-21	1496	69	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-7		25-Jan-21	3105	69	0.4	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1051-8		22-Apr-21	2213	69	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1051-9		16-Apr-21	2508	69	0.4	0.8	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
50108	1053	1053-1	Fotterall Square Streets	12-May-21	1316	25	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets	$1,740,000		Delaware
		1053-10		12-May-21	1678	25	0.4	0.6	Tree Trench	Streets			Delaware
		1053-2		13-May-21	1049	25	0.1	0.3	Bumpout, Tree Trench	Streets			Delaware
		1053-3		17-Sep-21	3605	25	0.5	1.0	Tree Trench	Streets			Delaware
		1053-4		13-May-21	1614	25	0.2	0.5	Tree Trench	Streets			Delaware
		1053-5		13-May-21	2153	25	0.3	0.7	Tree Trench	Streets			Delaware
		1053-6		17-Sep-21	1366	25	0.2	0.5	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1053-7		15-Feb-22	922	25	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
		1053-8		04-Mar-22	1510	25	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware
		1053-9		20-Sep-21	1707	25	0.3	0.5	Tree Trench	Streets			Delaware
	1054	1054-1		07-Mar-22	2022	3	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Open Space		Philadelphia School District	Delaware
50109	1023	1023-1	Osage Ave from 42nd to 43rd	28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets	$197,000		Schuylkill
		1023-10		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-11		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-2		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-3		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-4		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-5		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-6		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-7		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-8		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
		1023-9		28-Mar-19	40	11	0.0	0.0	Stormwater Tree	Streets			Schuylkill
50110	242	242-1	North Morris Park	03-Jul-21	13562	85	2.3	4.6	Infiltration/Storage Trench, Rain Garden	Streets	$2,372,000	Philadelphia Department of Parks & Recreation	Cobbs-Darby
		242-2		31-Oct-23	13206	85	1.7	3.4	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
		376-1		29-Oct-18	4812	11	0.7	1.3	Bumpout, Infiltration/Storage Trench	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50111	376	376-2	Mt. Airy Church	29-Oct-18	1891	11	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets	$967,000		TTF
		376-3		29-Oct-18	1284	11	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			TTF
		376-5		29-Oct-18	1590	11	0.2	0.4	Tree Trench	Streets			TTF
		376-6		29-Oct-18	2545	11	0.4	0.8	Tree Trench	Streets			TTF
50112	1055	1055-1	Botanic Ave	09-Feb-18	5745	50	0.4	0.7	Rain Garden	Streets	Unknown	Philadelphia Department of Parks & Recreation	Schuylkill
		1055-2		09-Feb-18	1526	50	0.7	0.5	Rain Garden	Streets			Schuylkill
		1055-3		09-Feb-18	9540	50	1.5	2.9	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
50113	600	600-1	37th and Mount Vernon Playground	16-Dec-16	2006	5	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Open Space	$72,000	Philadelphia Department of Parks & Recreation	Schuylkill
50118	1059	1059-1	Street Crossings - Aramingo, Cedar, Cambria, Almond	14-Dec-20	2605	8	0.4	0.9	Infiltration/Storage Trench, Rain Garden	Streets	$1,230,000		Delaware
		1059-2		03-Dec-20	3643	8	0.9	1.2	Infiltration/Storage Trench	Streets			Delaware
		1059-3		30-Jul-20	1261	8	0.3	0.4	Tree Trench	Streets			Delaware
		1059-4		26-Aug-20	1186	8	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware
		1059-5		25-Nov-20	2353	8	0.4	0.8	Bumpout, Tree Trench	Streets			Delaware
50119	1067	1067-1	Cement Park (Northern Liberties Rec Center)	08-May-19	3163	0	0.7	1.1	Infiltration/Storage Trench	Streets	$1,222,000		Delaware
		1067-2		08-May-19	1024	0	0.1	0.3	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1067-3		08-May-19	1661	0	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware
		1067-4		08-May-19	3191	0	0.5	1.0	Rain Garden	Streets			Delaware
	1068	1068-1		08-May-19	1603	5	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware
50120	1070	1070-1	McPherson Streets	24-Mar-21	3008	55	0.6	1.2	Tree Trench	Streets	$1,924,000		Delaware
		1070-10		24-Mar-21	1438	55	0.3	0.6	Tree Trench	Streets			Delaware
		1070-11		24-Mar-21	1019	55	0.2	0.4	Tree Trench	Streets			Delaware
		1070-12		24-Mar-21	1116	55	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware
		1070-13		24-Mar-21	1688	55	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		1070-14		24-Mar-21	1424	55	0.3	0.4	Tree Trench	Streets			Delaware
		1070-15		24-Mar-21	1677	55	0.3	0.5	Tree Trench	Streets			Delaware
		1070-16		24-Mar-21	2138	55	0.6	1.2	Tree Trench	Streets			Delaware
		1070-3		24-Mar-21	3136	55	0.6	1.2	Tree Trench	Streets			Delaware
		1070-4		24-Mar-21	2030	55	0.4	0.6	Tree Trench	Streets			Delaware
		1070-5		24-Mar-21	1441	55	0.2	0.5	Tree Trench	Streets			Delaware
		1070-6		24-Mar-21	2698	55	0.5	0.8	Infiltration/Storage Trench, Tree Trench	Streets			Delaware
		1070-7		24-Mar-21	1666	55	0.3	0.5	Tree Trench	Streets			Delaware
		1070-8		24-Mar-21	2010	55	0.4	0.7	Tree Trench	Streets			Delaware
	1077	1077-1		07-Jun-19	4959	2	0.9	1.8	Infiltration/Storage Trench	Open Space			Delaware,TTF
		1077-2		30-Aug-19	2646	2	0.5	1.0	Tree Trench	Vacant Land			Delaware,TTF
		1083-1		20-Jun-19	837	54	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1083-10		06-May-19	3808	54	0.7	1.3	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1083-11		01-May-19	1852	54	0.3	0.6	Tree Trench	Streets			Delaware,TTF
		1083-12		03-May-19	2263	54	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1083-13		29-Jul-19	1353	54	0.3	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware,TTF
		1083-14		17-Jul-19	3737	54	0.7	1.2	Planter, Tree Trench	Streets			Delaware,TTF

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50122	1083	1083-2	Mount Sinai	03-Apr-19	2689	54	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets	$3,652,000	Philadelphia Department of Parks & Recreation	Delaware,TTF
		1083-3		03-Apr-19	2539	54	0.4	0.9	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1083-4		03-Apr-19	7041	54	1.0	2.0	Bumpout, Tree Trench	Streets			Delaware,TTF
		1083-5		04-Jan-19	2975	54	0.6	1.1	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1083-6		01-Apr-19	7304	54	1.3	2.3	Infiltration/Storage Trench, Swale	Streets			Delaware,TTF
		1083-7		01-Apr-19	5245	54	1.0	1.9	Infiltration/Storage Trench, Swale	Streets			Delaware,TTF
		1083-8		20-Dec-18	2766	54	0.5	0.9	Tree Trench	Streets			Delaware,TTF
		1083-9		20-Dec-18	1115	54	0.2	0.4	Tree Trench	Streets			Delaware,TTF
50123	1084	1084-1	Allegheny Ave Safety Corridor Improvement Project (MPMS 85417)	10-Jan-19	1419	0	0.2	0.4	Infiltration/Storage Trench	Streets	Unknown	PennDOT	Delaware
		1084-2		10-Jan-19	1485	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1084-3		10-Jan-19	1027	0	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
		1084-4		10-Jan-19	1293	0	0.2	0.3	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1084-5		10-Jan-19	1582	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1084-6		10-Jan-19	2086	0	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1084-7		10-Jan-19	1598	0	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1084-8		10-Jan-19	1106	0	0.1	0.3	Infiltration/Storage Trench	Streets			Delaware
50124	1085	1085-1	Trenton and Auburn Playground	05-Feb-20	55349	0	7.7	15.4	Infiltration/Storage Trench	Open Space	$3,167,000		Delaware
50125	1087	1087-1	Lawncrest Streets Southeast	07-Sep-21	3866	9	0.7	1.5	Bumpout, Infiltration/Storage Trench	Streets	$2,446,000		Delaware,TTF
		1087-2		08-Sep-21	5982	9	1.1	2.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-3		08-Sep-21	6721	9	1.2	2.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-4		08-Sep-21	5698	9	1.0	2.1	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-5		02-Sep-21	5216	9	1.0	1.7	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-6		02-Sep-21	5881	9	1.0	2.0	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-7		06-Sep-21	5031	9	1.0	2.0	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-8		03-Sep-21	4494	9	0.7	1.5	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1087-9		03-Sep-21	2627	9	0.5	0.9	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
50126	1088	1088-1	Safe Routes to School (Pennypacker/Spruance)	25-Apr-25	2529	6	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets	$1,012,000		TTF
		1088-2		25-Apr-25	1788	6	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1088-4		25-Apr-25	3816	6	0.9	1.2	Infiltration/Storage Trench, Planter	Streets			TTF
	1262	1262-1		25-Apr-25	2438	8	0.5	0.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1262-2		25-Apr-25	2329	8	0.5	0.7	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1262-3		25-Apr-25	3968	8	0.6	1.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50128	1090	1090-1	Weinberg Park and Street Locations	21-May-25	1636	50	0.4	0.6	Tree Trench	Streets	$4,101,000		Delaware
		1090-10		16-May-25	1099	50	0.2	0.4	Tree Trench	Streets			Delaware
		1090-11		16-May-25	1335	50	0.2	0.4	Tree Trench	Streets			Delaware
		1090-12		17-Jul-25	1182	50	0.2	0.3	Tree Trench	Streets			Delaware
		1090-13		17-Jul-25	1446	50	0.3	0.5	Tree Trench	Streets			Delaware
		1090-2		19-May-25	1609	50	0.3	0.5	Tree Trench	Streets			Delaware
		1090-3		16-May-25	1170	50	0.2	0.4	Tree Trench	Streets			Delaware
		1090-4		16-May-25	1359	50	0.2	0.4	Tree Trench	Streets			Delaware
		1090-5		16-May-25	1180	50	0.2	0.3	Tree Trench	Streets			Delaware
		1090-6		03-Jun-25	950	50	0.1	0.3	Tree Trench	Streets			Delaware
		1090-7		18-Aug-25	1147	50	0.3	0.4	Tree Trench	Streets			Delaware
		1090-8		17-Jul-25	1176	50	0.2	0.4	Tree Trench	Streets			Delaware
		1090-9		17-Jul-25	1286	50	0.3	0.5	Tree Trench	Streets			Delaware
	1107	1107-1		19-May-25	1324	11	0.2	0.4	Tree Trench	Streets		Philadelphia Department of Parks & Recreation	Delaware
		1107-2		30-Jun-25	2593	11	0.5	0.8	Rain Garden, Tree Trench	Streets			Delaware
	1269	1269-1		01-Aug-25	1250	7	0.2	0.4	Tree Trench	Streets			Delaware
		1269-2		17-Jul-25	833	7	0.2	0.3	Tree Trench	Streets			Delaware
50129	1127	1127-1	Girard Park and Warriner Post Park	29-Jun-20	5602	11	0.8	1.7	Rain Garden, Tree Trench	Vacant Land	$2,555,000		Schuylkill
	1128	1128-1		29-Jun-20	4925	8	0.8	1.6	Bumpout, Tree Trench	Streets		Philadelphia Department of Parks & Recreation	Schuylkill
		1128-2		29-Jun-20	4395	8	0.6	1.1	Bumpout, Tree Trench	Streets			Schuylkill
		1128-3		29-Jun-20	5064	8	0.9	1.7	Bumpout, Tree Trench	Streets			Schuylkill
	1129	1129-1		21-Feb-20	1139	19	0.1	0.3	Tree Trench	Streets			Schuylkill
		1129-2		21-Feb-20	690	19	0.1	0.2	Tree Trench	Streets			Schuylkill
		1129-3		10-Jan-20	1015	19	0.1	0.3	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1129-4		10-Jan-20	4439	19	0.6	1.1	Tree Trench	Streets			Schuylkill
		1129-5		13-Jan-20	1374	19	0.2	0.4	Tree Trench	Streets			Schuylkill
		1129-6		17-Jan-20	4530	19	0.7	1.4	Tree Trench	Streets			Schuylkill
		1129-7		17-Jan-20	4214	19	0.6	1.2	Infiltration/Storage Trench	Streets			Schuylkill
50132	1137	1137-1	Max Myers	19-May-21	12427	12	1.8	3.7	Infiltration/Storage Trench, Rain Garden, Swale	Open Space	$3,089,000		Delaware
		1137-2		25-Nov-19	20572	12	3.2	6.4	Infiltration/Storage Trench, Planter	Streets			Delaware
		1137-3		25-Nov-19	2893	12	0.7	1.3	Infiltration/Storage Trench	Streets			Delaware
		1137-4		25-Nov-19	3237	12	0.5	1.0	Infiltration/Storage Trench	Streets			Delaware
		1137-5		25-Nov-19	1262	12	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1137-6		25-Nov-19	790	12	0.1	0.2	Infiltration/Storage Trench	Streets			Delaware
		1137-7		25-Nov-19	5851	12	0.8	1.6	Tree Trench	Streets			Delaware
	1138	1138-1		25-Nov-19	1208	8	0.2	0.3	Tree Trench	Streets			Delaware
		1138-2		25-Nov-19	796	8	0.1	0.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1138-3		25-Nov-19	709	8	0.1	0.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1138-4		25-Nov-19	3928	8	0.7	1.2	Infiltration/Storage Trench	Streets			Delaware
		1138-5		25-Nov-19	818	8	0.1	0.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1138-6		25-Nov-19	2930	8	0.4	0.9	Bumpout	Streets			Delaware
		1138-8		25-Nov-19	1562	8	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1139-1		18-May-23	2758	55	0.5	0.9	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-10		10-Mar-23	1844	55	0.4	0.7	Tree Trench	Streets			TTF
		1139-11		17-Nov-22	1718	55	0.3	0.7	Tree Trench	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50133	1139 *	1139-12	Lawncrest Streets Southwest	07-Mar-23	1673	55	0.4	0.5	Infiltration/Storage Trench	Streets	$5,766,000		TTF
		1139-13		25-May-23	1387	55	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		1139-14		08-Mar-22	1351	55	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		1139-15		25-May-23	1474	55	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		1139-16		25-May-23	1702	55	0.4	0.8	Infiltration/Storage Trench	Streets			TTF
		1139-17		14-Nov-23	2175	55	0.6	0.7	Infiltration/Storage Trench	Streets			TTF
		1139-18		14-Nov-23	903	55	0.3	0.3	Infiltration/Storage Trench	Streets			TTF
		1139-19		25-May-23	1623	55	0.5	0.6	Tree Trench	Streets			TTF
		1139-20		14-Nov-23	2348	55	0.4	0.7	Infiltration/Storage Trench	Streets			TTF
		1139-21		15-Jul-22	2125	55	0.4	0.6	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-22		15-Jul-22	3875	55	1.1	1.2	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-23		25-Aug-22	4204	55	0.6	1.2	Infiltration/Storage Trench, Stormwater Tree	Streets			TTF
		1139-24		15-Jul-22	2023	55	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-25		15-Jul-22	1468	55	0.3	0.5	Infiltration/Storage Trench	Streets			TTF
		1139-26		15-Jul-22	1674	55	0.2	0.5	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-27		15-Jul-22	3774	55	0.8	1.2	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-28		15-Jul-22	2738	55	0.6	0.8	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1139-29		15-Jul-22	4954	55	1.0	1.6	Tree Trench	Streets			TTF
		1139-3		10-Mar-21	2129	55	0.6	0.7	Tree Trench	Streets			TTF
		1139-4		10-Mar-23	895	55	0.3	0.5	Infiltration/Storage Trench	Streets			TTF
		1139-5		10-Mar-23	1316	55	0.3	0.5	Tree Trench	Streets			TTF
		1139-6		10-Mar-23	1140	55	0.3	0.4	Tree Trench	Streets			TTF
		1139-7		10-Mar-23	812	55	0.3	0.5	Tree Trench	Streets			TTF
		1139-8		17-Nov-22	596	55	0.2	0.2	Tree Trench	Streets			TTF
		1139-9		10-Mar-23	1196	55	0.2	0.4	Tree Trench	Streets			TTF
	1298 *	1298-1		15-Jul-22	1129	0	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		1298-2		15-Jul-22	1905	0	0.5	0.9	Infiltration/Storage Trench	Streets			TTF
50134	1140	1140-2	Wharton Square Greening Improvements	08-Feb-19	1522	5	0.3	0.6	Rain Garden	Open Space	$892,000		Schuylkill
		1140-3		13-Feb-19	9545	5	2.0	3.1	Rain Garden, Tree Trench	Open Space			Schuylkill
50135	1142	1142-1	PHA/Blumberg Campus Green Streets	30-Mar-20	1687	26	0.2	0.4	Infiltration/Storage Trench, Stormwater Tree	Streets	$291,000	Philadelphia Housing Authority	Schuylkill
		1142-2		30-Mar-20	1726	26	0.2	0.4	Infiltration/Storage Trench, Stormwater Tree	Streets			Schuylkill
		1142-3		30-Mar-20	1718	26	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1142-4		30-Mar-20	1747	26	0.2	0.5	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1142-5		30-Mar-20	1595	26	0.2	0.3	Infiltration/Storage Trench, Stormwater Tree	Streets			Schuylkill
		1142-6		30-Mar-20	1485	26	0.2	0.3	Infiltration/Storage Trench, Stormwater Tree	Streets			Schuylkill
		1142-7		30-Mar-20	1897	26	0.3	0.5	Infiltration/Storage Trench, Stormwater Tree	Streets			Schuylkill
		1142-8		30-Mar-20	1875	26	0.2	0.4	Infiltration/Storage Trench, Stormwater Tree	Streets			Schuylkill
		1145-1		19-Nov-19	2226	21	0.3	0.6	Bumpout, Tree Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50138	1145	1145-10	Buist Avenue Green Streets and Buist Park Improvements	19-Nov-19	769	21	0.1	0.3	Bumpout, Infiltration/Storage Trench	Streets	$2,579,000	Philadelphia Department of Parks & Recreation	Schuylkill
		1145-11		19-Nov-19	2709	21	0.5	0.9	Bumpout, Tree Trench	Streets			Schuylkill
		1145-12		19-Nov-19	2736	21	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1145-13		19-Nov-19	3074	21	0.5	0.9	Bumpout, Tree Trench	Streets			Schuylkill
		1145-2		19-Nov-19	957	21	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1145-3		19-Nov-19	2011	21	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1145-4		19-Nov-19	1107	21	0.1	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1145-5		19-Nov-19	1435	21	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1145-6		19-Nov-19	892	21	0.1	0.3	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1145-7		19-Nov-19	1822	21	0.4	0.6	Bumpout, Tree Trench	Streets			Schuylkill
		1145-8		19-Nov-19	961	21	0.1	0.3	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1145-9		19-Nov-19	1601	21	0.3	0.5	Bumpout, Tree Trench	Streets			Schuylkill
	1146	1146-1		19-Nov-19	7861	3	1.3	2.6	Bumpout, Infiltration/Storage Trench, Rain Garden	Open Space			Schuylkill
50143	1195	1195-1	Parkside Edge - Green Streets Buyback	19-Jan-18	11930	0	0.8	1.6	Infiltration/Storage Trench, Rain Garden	Open Space	$1,163,000	Fairmount Park Conservancy	Schuylkill
		1195-2		19-Jan-18	4341	0	0.6	1.2	Rain Garden	Open Space			Schuylkill
		1195-3		19-Jan-18	9397	0	1.2	2.4	Rain Garden	Open Space			Schuylkill
50145	1163	1163-1	Nelson Playground and Hissey Playground Green Improvement	07-Feb-20	1861	6	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Open Space	$636,000		Delaware
		1163-2		07-Feb-20	8344	6	1.4	2.6	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
50146	1197	1197-1	Point Breeze Vacant Lots	21-May-19	1484	3	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Vacant Land	$2,074,000		Schuylkill
	1198	1198-1		19-Nov-18	861	43	0.1	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1198-2		25-Oct-18	943	43	0.3	0.3	Tree Trench	Streets			Schuylkill
		1198-3		29-Oct-18	8787	43	1.7	3.3	Tree Trench	Streets			Schuylkill
		1198-4		09-Nov-18	1206	43	0.2	0.3	Tree Trench	Streets			Schuylkill
		1198-6		14-Mar-19	907	43	0.2	0.3	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1198-7		03-May-19	3702	43	0.5	0.4	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1198-8		28-Jan-19	3292	43	0.5	1.0	Tree Trench	Streets			Schuylkill
50148	1200	1200-1	Elmwood Medians Package	08-Oct-20	7164	21	1.1	2.2	Infiltration/Storage Trench, Rain Garden	Streets	$942,000		Cobbs-Darby,Schuylkill
		1200-2		08-Oct-20	3278	21	0.5	1.0	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby,Schuylkill
		1200-3		08-Oct-20	2578	21	0.4	0.8	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby,Schuylkill
		1200-4		08-Oct-20	3831	21	0.6	1.2	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby,Schuylkill
		1200-5		08-Oct-20	1283	21	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1202-1		30-Jul-19	1239	30	0.3	0.4	Tree Trench	Streets			Delaware
		1202-10		30-Jul-19	1303	30	0.2	0.5	Tree Trench	Streets			Delaware
		1202-11		30-Jul-19	1456	30	0.3	0.5	Tree Trench	Streets			Delaware
		1202-12		30-Jul-19	1659	30	0.4	0.6	Infiltration/Storage Trench	Streets			Delaware
		1202-2		30-Jul-19	1316	30	0.3	0.4	Tree Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50149	1202	1202-3	Erie and Rising Sun Street Improvements	30-Jul-19	921	30	0.2	0.3	Infiltration/Storage Trench	Streets	$1,690,000		Delaware
		1202-4		30-Jul-19	2074	30	0.3	0.6	Tree Trench	Streets			Delaware
		1202-5		30-Jul-19	1274	30	0.3	0.4	Infiltration/Storage Trench, Planter	Streets			Delaware
		1202-6		30-Jul-19	1031	30	0.3	0.4	Tree Trench	Streets			Delaware
		1202-7		30-Jul-19	1230	30	0.3	0.4	Tree Trench	Streets			Delaware
		1202-8		30-Jul-19	4158	30	0.9	1.4	Tree Trench	Streets			Delaware
		1202-9		30-Jul-19	1077	30	0.3	0.4	Tree Trench	Streets			Delaware
	1379	1379-1		30-Jul-19	5811	3	0.8	1.6	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
50150	1015	1015-1	Hagert Playground	10-Feb-17	1941	1	0.4	0.7	Infiltration/Storage Trench, Rain Garden	Open Space	$251,000	Philadelphia Department of Parks & Recreation	Delaware
		1015-2		10-Feb-17	2283	1	0.4	0.7	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
50151	1204	1204-1	Reading Viaduct	13-Jun-18	1091	0	0.1	0.3	Bumpout, Infiltration/Storage Trench	Streets	Unknown	Center City District	Delaware
50152	1209	1209-1	Athletic Square	29-Jan-20	733	9	0.1	0.3	Tree Trench	Streets	$813,000		Schuylkill
		1209-2		29-Jan-20	1659	9	0.3	0.6	Tree Trench	Streets			Schuylkill
		1209-3		29-Jan-20	1863	9	0.3	0.6	Infiltration/Storage Trench, Planter	Streets			Schuylkill
		1209-4		29-Jan-20	1243	9	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1209-5		29-Jan-20	2002	9	0.3	0.6	Infiltration/Storage Trench	Streets			Schuylkill
		1209-6		29-Jan-20	1098	9	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
50155	488	488-1	Smith Playground Green Improvements	22-May-18	970	8	0.2	0.3	Infiltration/Storage Trench	Open Space	$537,000	Department of Public Property,Philadelphia Department of Parks & Recreation,Councilman Johnson,Urban Roots	Schuylkill
		488-2		22-May-18	4257	8	0.8	1.5	Rain Garden, Tree Trench	Open Space			Schuylkill
		488-3		22-May-18	2249	8	0.4	0.8	Infiltration/Storage Trench	Open Space			Schuylkill
		488-4		22-May-18	2168	8	0.4	0.8	Infiltration/Storage Trench	Open Space			Schuylkill
		488-5		22-May-18	1081	8	0.2	0.3	Infiltration/Storage Trench	Open Space			Schuylkill
50157	1240	1240-1	Kensington Green Street Improvements	17-Mar-20	1195	18	0.2	0.4	Tree Trench	Streets	$984,000		Delaware
		1240-2		20-Mar-20	461	18	0.1	0.2	Tree Trench	Streets			Delaware
		1240-3		20-Mar-20	720	18	0.2	0.3	Tree Trench	Streets			Delaware
		1240-4		20-Mar-20	1713	18	0.3	0.5	Tree Trench	Streets			Delaware
		1240-5		20-Mar-20	787	18	0.2	0.3	Tree Trench	Streets			Delaware
		1240-6		20-Mar-20	684	18	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
		1240-7		20-Mar-20	4408	18	0.7	1.3	Tree Trench	Streets			Delaware
		1240-8		19-Mar-20	1350	18	0.4	0.5	Tree Trench	Streets			Delaware
		1240-9		13-Mar-20	850	18	0.2	0.3	Tree Trench	Streets			Delaware
50158	1221	1221-1	53rd and Baltimore	27-Aug-21	3099	0	0.5	1.0	Infiltration/Storage Trench, Rain Garden	Streets	$247,000	Philadelphia Streets Department	Cobbs-Darby
		1221-2		11-May-21	6233	0	0.8	1.6	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
50160	1242	1242-1	Kensington Neighborhood Greening Phase 2	08-Apr-21	1993	17	0.3	0.6	Infiltration/Storage Trench	Streets	$1,196,000		Delaware
		1242-10		08-Apr-21	2647	17	0.5	0.8	Infiltration/Storage Trench	Streets			Delaware
		1242-11		17-Aug-22	2497	17	0.5	0.8	Tree Trench	Streets			Delaware
		1242-2		08-Apr-21	2418	17	0.5	0.7	Tree Trench	Streets			Delaware
		1242-3		08-Apr-21	2511	17	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware
		1242-4		08-Apr-21	1030	17	0.2	0.3	Tree Trench	Streets			Delaware
		1242-7		08-Apr-21	1268	17	0.2	0.4	Tree Trench	Streets			Delaware
		1242-8		08-Apr-21	1184	17	0.2	0.4	Tree Trench	Streets			Delaware
		1242-9		08-Apr-21	915	17	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware
		1265-1		17-Feb-20	1105	16	0.2	0.3	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-10		02-Jul-20	2992	16	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50162	1265	1265-11	Cedar Park Neighborhood Streets Package 1	08-Jun-20	1821	16	0.3	0.6	Tree Trench	Streets	$1,951,000		Cobbs-Darby,Schuylkill
		1265-12		06-Jul-20	1483	16	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-13		20-Jul-20	926	16	0.2	0.3	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-14		29-Jul-20	1439	16	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1265-15		31-Aug-20	704	16	0.2	0.3	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-2		20-May-20	2042	16	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1265-3		20-May-20	1563	16	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1265-4		11-Mar-20	1214	16	0.3	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-5		18-Sep-20	1261	16	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-6		11-Mar-20	1448	16	0.2	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1265-7		06-May-20	1253	16	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1265-9		20-May-20	1123	16	0.2	0.3	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
50166	1264	1264-1	Temple Station Green Streets	24-Nov-20	4582	16	0.9	1.5	Tree Trench	Streets	$1,661,000		Delaware
		1264-2		24-Nov-20	833	16	0.2	0.3	Tree Trench	Streets			Delaware
		1264-3		24-Nov-20	2122	16	0.3	0.6	Bumpout, Tree Trench	Streets			Delaware
		1264-4		24-Nov-20	5121	16	0.9	1.8	Infiltration/Storage Trench, Planter	Streets			Delaware
		1264-5		24-Nov-20	981	16	0.1	0.3	Tree Trench	Streets			Delaware
		1264-6		24-Nov-20	4095	16	0.8	1.5	Infiltration/Storage Trench	Streets			Delaware
50167	1267	1267-1	Wissinoming	29-Oct-21	66213	0	11.4	22.7	Rain Garden, Wetland	Open Space	$8,187,000		Delaware
		1267-2		05-Nov-21	22842	0	3.1	6.2	Infiltration/Storage Trench	Open Space			Delaware
		1267-3		05-Nov-21	47461	0	6.4	12.8	Infiltration/Storage Trench	Open Space			Delaware
50168	1271	1271-1	Cedar Park Neighborhood Streets Package 2	16-Jul-24	719	13	0.2	0.3	Tree Trench	Streets	$1,634,000		Cobbs-Darby
		1271-2		16-Jul-24	1317	13	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1271-3		10-Oct-24	3085	13	0.6	1.0	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1271-4		10-Jun-24	1569	13	0.4	0.6	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1271-6		19-Feb-24	1377	13	0.3	0.4	Tree Trench	Streets			Cobbs-Darby
		1271-7		11-Apr-24	794	13	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1271-8		12-Mar-24	796	13	0.2	0.3	Tree Trench	Streets			Cobbs-Darby
50170	1272	1272-10	East Park Greenways	11-Feb-22	1444	6	0.3	0.5	Bumpout, Tree Trench	Streets	$1,412,000		Schuylkill
		1272-9		05-Apr-22	2749	6	0.5	0.9	Bumpout, Tree Trench	Streets			Schuylkill
	1273	1273-1		13-Aug-20	1819	15	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Streets		Philadelphia Department of Parks & Recreation,Fairmount Park Conservancy	Schuylkill
		1273-2		13-Aug-20	1470	15	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1273-3		05-Apr-22	1840	15	0.4	0.6	Infiltration/Storage Trench	Streets			Schuylkill
		1273-4		05-Apr-22	1370	15	0.3	0.4	Infiltration/Storage Trench	Streets			Schuylkill
		1273-5		09-Feb-22	2179	15	0.5	0.7	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1273-6		20-Jan-22	4424	15	0.9	1.4	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1273-7		06-May-21	2493	15	0.5	0.8	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1273-8		11-Feb-22	6303	15	1.1	2.0	Tree Trench	Streets			Schuylkill
50171	1274	1274-1	South Street Headhouse Square	12-May-21	12780	0	2.2	3.8	Infiltration/Storage Trench	Streets	$703,000	Department of Public Property,Philadelphia Streets Department	Delaware
		1279-1		05-Aug-20	1127	29	0.2	0.5	Tree Trench	Streets			Delaware
		1279-10		06-Oct-20	2402	29	0.4	0.8	Tree Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50174	1279	1279-11	Tioga Green Streets Phase I & II	05-Oct-20	1460	29	0.3	0.5	Tree Trench	Streets	$1,689,000		Delaware
		1279-12		05-Oct-20	923	29	0.2	0.3	Tree Trench	Streets			Delaware
		1279-13		27-Oct-20	1748	29	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		1279-14		06-Oct-20	1115	29	0.2	0.4	Tree Trench	Streets			Delaware
		1279-2		05-Aug-20	883	29	0.1	0.3	Tree Trench	Streets			Delaware
		1279-3		05-Aug-20	1431	29	0.4	0.6	Tree Trench	Streets			Delaware
		1279-4		08-Oct-20	1087	29	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1279-5		07-Aug-20	1732	29	0.2	0.5	Tree Trench	Streets			Delaware
		1279-6		08-Jun-20	1987	29	0.3	0.6	Tree Trench	Streets			Delaware
		1279-7		05-Aug-20	2034	29	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		1279-8		07-Oct-20	2766	29	0.6	1.0	Infiltration/Storage Trench, Tree Trench	Streets			Delaware
		1279-9		07-Oct-20	1282	29	0.2	0.4	Tree Trench	Streets			Delaware
50175	1281	1281-1	American Street Corridor Improvements	30-Aug-18	2027	184	0.5	0.9	Infiltration/Storage Trench, Rain Garden	Streets	$5,383,000		Delaware
		1281-10		21-Apr-21	7076	184	0.8	1.7	Infiltration/Storage Trench	Streets			Delaware
		1281-11		21-Apr-21	4097	184	0.5	1.0	Tree Trench	Streets			Delaware
		1281-12		21-Apr-21	2208	184	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		1281-13		21-Apr-21	8310	184	0.8	1.4	Swale	Streets			Delaware
		1281-14		21-Apr-21	5381	184	0.5	0.9	Swale	Streets			Delaware
		1281-15		19-Nov-20	10821	184	1.6	3.2	Infiltration/Storage Trench	Streets			Delaware
		1281-16		19-Nov-20	5878	184	0.7	1.4	Infiltration/Storage Trench	Streets			Delaware
		1281-17		19-Nov-20	6449	184	0.9	1.8	Swale	Streets			Delaware
		1281-18		19-Nov-20	6310	184	0.8	1.6	Swale	Streets			Delaware
		1281-19		01-Dec-20	4770	184	0.7	1.4	Swale	Streets			Delaware
		1281-2		02-Apr-19	692	184	0.1	0.3	Tree Trench	Streets			Delaware
		1281-20		01-Dec-20	7196	184	1.0	2.0	Infiltration/Storage Trench, Swale	Streets			Delaware
		1281-21		01-Dec-20	4468	184	0.6	1.3	Infiltration/Storage Trench	Streets			Delaware
		1281-22		01-Dec-20	4057	184	0.5	1.1	Infiltration/Storage Trench	Streets			Delaware
		1281-23		01-Dec-20	4060	184	0.6	1.1	Infiltration/Storage Trench	Streets			Delaware
		1281-24		01-Dec-20	3555	184	0.5	0.9	Infiltration/Storage Trench	Streets			Delaware
		1281-25		11-Dec-20	6744	184	0.7	1.3	Infiltration/Storage Trench	Streets			Delaware
		1281-26		21-May-21	3247	184	0.5	0.9	Infiltration/Storage Trench	Streets			Delaware
		1281-27		11-Dec-20	5028	184	0.7	1.4	Infiltration/Storage Trench	Streets			Delaware
		1281-28		11-Dec-20	3231	184	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware
		1281-29		11-Dec-20	4818	184	0.4	0.7	Swale	Streets			Delaware
		1281-3		28-Nov-18	1228	184	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1281-30		11-Dec-20	6682	184	0.8	1.7	Swale	Streets			Delaware
		1281-31		11-Dec-20	6783	184	0.9	1.8	Infiltration/Storage Trench, Swale	Streets			Delaware
		1281-32		11-Dec-20	4222	184	0.5	1.1	Infiltration/Storage Trench, Swale	Streets			Delaware
		1281-33		20-Apr-21	2343	184	0.3	0.7	Tree Trench	Streets			Delaware
		1281-34		20-Apr-21	6408	184	0.9	1.7	Tree Trench	Streets			Delaware
		1281-35		12-Dec-20	3366	184	0.5	0.9	Tree Trench	Streets			Delaware
		1281-36		12-Dec-20	5900	184	0.8	1.6	Bumpout, Tree Trench	Streets			Delaware
		1281-37		25-May-21	7768	184	1.0	2.1	Bumpout, Tree Trench	Streets			Delaware
		1281-38		12-Dec-20	4466	184	0.7	1.4	Infiltration/Storage Trench	Streets			Delaware
		1281-39		25-May-21	7341	184	1.0	2.1	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1281-4		05-Apr-21	574	184	0.6	0.4	Infiltration/Storage Trench	Streets			Delaware
		1281-40		01-Dec-20	3200	184	0.4	0.9	Infiltration/Storage Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1281-41		20-Apr-21	3708	184	0.5	1.1	Tree Trench	Streets			Delaware
		1281-42		20-Apr-21	3661	184	0.5	1.0	Infiltration/Storage Trench	Streets			Delaware
		1281-5		12-Sep-18	1824	184	0.2	0.5	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1281-6		05-Sep-18	1926	184	0.2	0.5	Rain Garden, Tree Trench	Streets			Delaware
		1281-7		28-Jun-19	5081	184	0.6	1.3	Tree Trench	Streets			Delaware
		1281-9		21-Apr-21	6486	184	0.9	1.8	Infiltration/Storage Trench	Streets			Delaware
50176	1283	1283-2	Girard Estates Green Streets Improvements	30-Jun-26	1083	50	0.2	0.3	Tree Trench	Streets	$4,519,000		Schuylkill
		1283-9		05-May-26	1019	50	0.2	0.3	Tree Trench	Streets			Schuylkill
		1287-1		05-Nov-20	1603	21	0.2	0.4	Tree Trench	Streets			Schuylkill,TTF
		1287-10		05-Nov-20	1128	21	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1287-11		03-Dec-20	1985	21	0.3	0.6	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1287-12		10-Jun-20	1084	21	0.2	0.3	Tree Trench	Streets			Schuylkill,TTF
		1287-13		03-Dec-20	1301	21	0.2	0.4	Tree Trench	Streets			Schuylkill,TTF
		1287-2		05-Nov-20	2486	21	0.3	0.7	Tree Trench	Streets			Schuylkill,TTF
50177	1287	1287-3	Wayne and Manheim Streets	05-Nov-20	1555	21	0.2	0.5	Tree Trench	Streets	$1,776,000		Schuylkill,TTF
		1287-4		10-Jun-20	1998	21	0.3	0.6	Tree Trench	Streets			Schuylkill,TTF
		1287-5		10-Jun-20	2058	21	0.3	0.6	Tree Trench	Streets			Schuylkill,TTF
		1287-6		10-Jun-20	1525	21	0.2	0.5	Tree Trench	Streets			Schuylkill,TTF
		1287-7		05-Nov-20	1911	21	0.5	0.6	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1287-8		05-Nov-20	1687	21	0.5	0.5	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1287-9		10-Jun-20	868	21	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1288-1		05-Dec-18	1201	17	0.2	0.4	Infiltration/Storage Trench, Planter	Streets			Schuylkill
		1288-10		09-Nov-18	2109	17	0.3	0.6	Infiltration/Storage Trench	Streets			Schuylkill
		1288-11		29-Oct-18	1483	17	0.3	0.6	Tree Trench	Streets			Schuylkill
		1288-2		05-Dec-18	807	17	0.1	0.2	Infiltration/Storage Trench	Streets			Schuylkill
		1288-3		20-Dec-18	862	17	0.2	0.3	Tree Trench	Streets			Schuylkill
50179	1288	1288-4	Berks & Sedgley Greening	05-Dec-18	1347	17	0.3	0.5	Infiltration/Storage Trench, Planter	Streets	$1,795,000		Schuylkill
		1288-5		14-Feb-19	5680	17	1.2	1.9	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1288-6		28-Feb-19	2328	17	0.7	0.8	Infiltration/Storage Trench	Streets			Schuylkill
		1288-7		30-Oct-18	1260	17	0.2	0.5	Tree Trench	Streets			Schuylkill
		1288-8		25-Oct-18	2016	17	0.4	0.6	Infiltration/Storage Trench	Streets			Schuylkill
		1288-9		25-Oct-18	1049	17	0.2	0.4	Infiltration/Storage Trench	Streets			Schuylkill
		1285-1		16-Jul-24	2054	25	0.5	0.8	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1285-2		16-Jul-24	1282	25	0.2	0.3	Tree Trench	Streets			Schuylkill
		1285-3		16-Jul-24	737	25	0.1	0.3	Tree Trench	Streets			Schuylkill
50180	1285 *	1285-4	Saunders Park Streets Improvements Package	16-Jul-24	1654	25	0.3	0.5	Infiltration/Storage Trench	Streets	$1,563,000		Schuylkill
		1285-5		16-Jul-24	2381	25	0.6	0.8	Tree Trench	Streets			Schuylkill
		1285-6		16-Jul-24	943	25	0.2	0.3	Tree Trench	Streets			Schuylkill
		1285-7		16-Jul-24	3104	25	0.5	0.9	Tree Trench	Streets			Schuylkill
		1285-8		16-Jul-24	1690	25	0.4	0.6	Tree Trench	Streets			Schuylkill
	1290	1290-1	16th Police District Headquarters Improvements	13-Jul-23	824	2	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1290-2		13-Jul-23	469	2	0.1	0.2	Infiltration/Storage Trench	Streets			Schuylkill
		1290-3		13-Jul-23	717	2	0.2	0.3	Tree Trench	Streets			Schuylkill
50181		1290-4		13-Jul-23	409	2	0.1	0.2	Infiltration/Storage Trench	Streets	$1,624,000		Schuylkill
	1291	1291-1		13-Jul-23	1430	0	0.3	0.5	Infiltration/Storage Trench, Planter	Facilities			Schuylkill
		1291-2		13-Jul-23	12358	0	1.8	3.6	Infiltration/Storage Trench	Parking			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50182	1296	1296-1	Feltonville Plaza	08-Apr-22	883	11	0.2	0.3	Infiltration/Storage Trench, Rain Garden	Streets	$1,302,000		TTF
		1296-10		17-Mar-22	2082	11	0.3	0.6	Tree Trench	Streets			TTF
		1296-11		18-Mar-22	2204	11	0.5	0.7	Infiltration/Storage Trench	Streets			TTF
		1296-2		24-Mar-22	1389	11	0.3	0.7	Infiltration/Storage Trench	Streets			TTF
		1296-5		04-Apr-22	1209	11	0.3	0.4	Infiltration/Storage Trench	Streets			TTF
		1296-6		20-Apr-22	3251	11	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1296-7		05-Apr-22	3396	11	0.5	0.9	Bumpout, Tree Trench	Streets			TTF
		1296-8		24-Mar-22	1847	11	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1296-9		18-Mar-22	1082	11	0.2	0.3	Infiltration/Storage Trench	Streets			TTF
50184	1299	1299-1	Port Richmond Green Streets Improvements	07-Oct-20	1724	35	0.3	0.5	Tree Trench	Streets	$1,519,000		Delaware,TTF
		1299-10		07-Oct-20	1799	35	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1299-11		07-Oct-20	2955	35	0.5	0.9	Tree Trench	Streets			Delaware,TTF
		1299-12		07-Oct-20	1597	35	0.2	0.4	Tree Trench	Streets			Delaware,TTF
		1299-2		07-Oct-20	1775	35	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware,TTF
		1299-3		07-Oct-20	1034	35	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1299-4		07-Oct-20	1262	35	0.2	0.4	Tree Trench	Streets			Delaware,TTF
		1299-5		07-Oct-20	2459	35	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware,TTF
		1299-6		07-Oct-20	2077	35	0.4	0.6	Tree Trench	Streets			Delaware,TTF
		1299-7		07-Oct-20	2187	35	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware,TTF
		1299-8		07-Oct-20	2321	35	0.3	0.6	Tree Trench	Streets			Delaware,TTF
		1299-9		07-Oct-20	1420	35	0.3	0.4	Tree Trench	Streets			Delaware,TTF
50186	1301	1301-1	Jefferson Street Green Improvements	05-Mar-24	1505	19	0.3	0.5	Tree Trench	Streets	$2,408,000		Cobbs-Darby,Schuylkill
		1301-10		05-Mar-24	4774	19	0.9	1.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1301-11		04-Mar-24	3783	19	0.9	1.3	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1301-2		07-Mar-24	1087	19	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1301-3		01-Mar-24	1624	19	0.4	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1301-4		29-Feb-24	1787	19	0.3	0.6	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1301-5		07-Mar-24	1991	19	0.4	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1301-6		29-Feb-24	751	19	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1301-7		29-Feb-24	1072	19	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1301-8		07-Mar-24	4122	19	1.1	1.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1301-9		07-Mar-24	4326	19	1.1	1.4	Infiltration/Storage Trench, Tree Trench	Streets			Cobbs-Darby,Schuylkill
50187	1302	1302-1	Palmer Park	09-Jan-20	2581	2	0.5	0.9	Infiltration/Storage Trench	Streets	$561,000	Philadelphia Department of Parks & Recreation	Delaware
	1303	1303-1		09-Jan-20	1721	3	0.3	0.6	Infiltration/Storage Trench, Planter	Streets			Delaware
		1303-2		09-Jan-20	629	3	0.2	0.2	Tree Trench	Streets			Delaware
50189	1307	1307-2	Newbold Green Street Improvements	04-Jun-20	2805	17	0.4	0.8	Tree Trench	Streets	$969,000		Schuylkill
		1307-3		16-Jun-20	1351	17	0.2	0.4	Tree Trench	Streets			Schuylkill
		1307-4		02-Jul-20	1384	17	0.3	0.5	Tree Trench	Streets			Schuylkill
		1307-5		31-Jul-20	1156	17	0.2	0.3	Tree Trench	Streets			Schuylkill
		1307-6		18-Aug-20	1156	17	0.3	0.4	Tree Trench	Streets			Schuylkill
		1307-7		25-Aug-20	2195	17	0.3	0.7	Tree Trench	Streets			Schuylkill
		1307-8		08-Sep-20	1594	17	0.3	0.5	Tree Trench	Streets			Schuylkill
50190	1308	1308-1	Clayborn & Lewis Streets GSI	12-Oct-20	6028	4	1.1	2.3	Tree Trench	Streets	$1,201,000		Schuylkill
		1308-3		10-Feb-22	3140	4	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1308-4		10-Feb-22	6376	4	0.9	1.7	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50192	1311	1311-1	Heitzman Playground	11-Mar-23	37149	3	3.8	7.7	Infiltration/Storage Trench	Open Space	$2,726,000	Philadelphia Department of Parks & Recreation	Delaware
		1311-2		11-Mar-23	1290	3	0.2	0.4	Tree Trench	Streets			Delaware
		1311-3		11-Mar-23	1211	3	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
50194	1315	1315-1	East Parkside Streets	26-Apr-22	2899	18	0.4	0.9	Bumpout, Tree Trench	Streets	$1,212,000		Schuylkill
		1315-2		29-Mar-22	1139	18	0.3	0.4	Tree Trench	Streets			Schuylkill
		1315-3		26-Apr-22	2534	18	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1315-4		31-Mar-22	1148	18	0.2	0.3	Tree Trench	Streets			Schuylkill
		1315-5		26-Apr-22	1842	18	0.3	0.6	Tree Trench	Streets			Schuylkill
		1315-6		07-Jun-22	5347	18	1.2	2.4	Tree Trench	Streets			Schuylkill
		1315-7		27-Apr-22	1463	18	0.4	0.5	Infiltration/Storage Trench	Streets			Schuylkill
50195	290	290-1	Windrim Avenue Green Street	06-Apr-19	3830	0	0.6	1.2	Bumpout, Infiltration/Storage Trench	Streets	$949,000	Philadelphia Planning Commission,Southeastern Transportation Authority,Nicetown Community Development Corporation	TTF
		290-2		06-Apr-19	1839	0	0.3	0.6	Bumpout, Infiltration/Storage Trench	Streets			TTF
		290-3		06-Apr-19	4782	0	0.6	1.2	Bumpout, Infiltration/Storage Trench	Streets			TTF
50196	1318	1318-1	Happy Hollow Park	28-Oct-24	1206	20	0.2	0.3	Infiltration/Storage Trench	Streets	$5,425,000		Schuylkill,TTF
		1318-10		09-Aug-24	1463	20	0.4	0.5	Tree Trench	Streets			Schuylkill,TTF
		1318-11		11-Sep-24	1585	20	0.4	0.5	Tree Trench	Streets			Schuylkill,TTF
		1318-12		03-Jun-24	1652	20	0.4	0.6	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-13		16-Jun-24	2265	20	0.5	0.8	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-14		22-Jul-24	1952	20	0.4	0.6	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-2		24-Oct-24	1028	20	0.3	0.4	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-3		08-Nov-24	1216	20	0.3	0.4	Tree Trench	Streets			Schuylkill,TTF
		1318-4		11-Oct-24	920	20	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-5		01-Oct-24	951	20	0.2	0.3	Tree Trench	Streets			Schuylkill,TTF
		1318-6		13-Sep-24	1133	20	0.3	0.4	Infiltration/Storage Trench	Streets			Schuylkill,TTF
		1318-7		17-Sep-24	2518	20	0.5	0.8	Tree Trench	Streets			Schuylkill,TTF
		1318-8		30-Aug-24	1373	20	0.3	0.4	Tree Trench	Streets			Schuylkill,TTF
		1318-9		11-Jul-24	1131	20	0.3	0.4	Tree Trench	Streets			Schuylkill,TTF
	1319	1319-1		07-Feb-25	6095	25	1.1	1.9	Infiltration/Storage Trench, Rain Garden	Streets		Philadelphia Department of Parks & Recreation	Schuylkill,TTF
		1319-2		16-Jan-25	2989	25	0.8	1.2	Tree Trench	Streets			Schuylkill,TTF
		1319-3		26-Sep-24	2360	25	0.2	0.5	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill,TTF
		1319-4		12-Sep-24	4104	25	0.9	1.3	Tree Trench	Streets			Schuylkill,TTF
50198	1327	1327-1	41st & Lancaster 1 Streets Improvement Package	28-May-25	2021	22	0.5	0.6	Bumpout, Tree Trench	Streets	$3,003,000		Schuylkill
		1327-2		10-Jul-25	1676	22	0.3	0.6	Infiltration/Storage Trench, Planter	Streets			Schuylkill
		1327-3		28-May-25	1220	22	0.3	0.4	Tree Trench	Streets			Schuylkill
		1327-4		09-Jul-25	1209	22	0.4	0.4	Tree Trench	Streets			Schuylkill
		1327-5		16-Jul-25	3858	22	0.6	1.2	Infiltration/Storage Trench, Planter, Rain Garden	Streets			Schuylkill
		1327-6		09-Jul-25	2076	22	0.3	0.6	Tree Trench	Streets			Schuylkill
		1327-8		28-May-25	1068	22	0.2	0.3	Tree Trench	Streets			Schuylkill
50199	1328	1328-10	41st & Lancaster 2 Streets Improvement Package	05-Jun-25	1816	40	0.5	0.5	Tree Trench	Streets	$2,347,000		Schuylkill
		1328-11		15-Jan-25	2394	40	0.3	0.7	Tree Trench	Streets			Schuylkill
		1328-2		15-Jan-25	1284	40	0.3	0.4	Tree Trench	Streets			Schuylkill
		1328-3		05-Jun-25	2585	40	0.4	0.8	Tree Trench	Streets			Schuylkill
		1328-4		05-Jun-25	1140	40	0.2	0.4	Tree Trench	Streets			Schuylkill
		1328-5		29-Jul-24	3289	40	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1328-6		28-Aug-24	2029	40	0.4	0.6	Bumpout, Tree Trench	Streets			Schuylkill
		1328-7		15-Jan-25	2133	40	0.4	0.6	Tree Trench	Streets			Schuylkill
		1328-8		28-Aug-24	1308	40	0.2	0.4	Infiltration/Storage Trench, Planter	Streets			Schuylkill
		1328-9		05-Jun-25	1788	40	0.3	0.5	Tree Trench	Streets			Schuylkill
50200	1329	1329-1	41st & Lancaster 3 Streets Improvement Package	31-Oct-24	1362	25	0.2	0.4	Tree Trench	Streets	$1,689,000		Schuylkill
		1329-2		01-Apr-25	1628	25	0.4	0.5	Tree Trench	Streets			Schuylkill
		1329-3		31-Oct-24	1675	25	0.3	0.6	Tree Trench	Streets			Schuylkill
		1329-4		31-Oct-24	1838	25	0.3	0.6	Tree Trench	Streets			Schuylkill
		1329-5		04-Apr-25	4475	25	0.6	1.2	Bumpout, Tree Trench	Streets			Schuylkill
		1329-6		01-Apr-25	2340	25	0.4	0.7	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1329-7		02-Apr-25	823	25	0.2	0.3	Tree Trench	Streets			Schuylkill
50201	1335	1335-1	229 E Logan Street Lot	16-Aug-23	15131	13	3.1	6.2	Infiltration/Storage Trench, Rain Garden	Vacant Land	$1,568,000		TTF
50202	1334	1334-1	Bringhurst Park Package	04-May-23	976	4	0.3	0.3	Infiltration/Storage Trench	Streets	$960,000		TTF
		1334-2		04-May-23	1028	4	0.2	0.3	Infiltration/Storage Trench	Streets			TTF
		1334-3		04-May-23	1624	4	0.3	0.5	Infiltration/Storage Trench	Streets			TTF
		1334-4		04-May-23	2585	4	0.5	0.8	Rain Garden, Tree Trench	Open Space			TTF
50203	1336 *	1336-1	Penrose Avenue	06-Sep-23	1322	12	0.2	0.4	Infiltration/Storage Trench	Streets	$1,463,000		Schuylkill
		1336-2		06-Sep-22	5362	12	1.0	1.7	Infiltration/Storage Trench, Swale	Streets			Schuylkill
		1336-3		07-Nov-23	1935	12	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1336-4		06-Sep-23	2519	12	0.4	0.8	Infiltration/Storage Trench	Streets			Schuylkill
		1336-5		04-May-23	3247	12	0.4	0.9	Infiltration/Storage Trench	Streets			Schuylkill
		1336-6		06-Sep-22	5689	12	0.9	1.7	Infiltration/Storage Trench	Streets			Schuylkill
		1336-7		04-May-23	4682	12	0.8	1.5	Infiltration/Storage Trench	Streets			Schuylkill
50204	1339	1339-1	Yorktown Courtyards Improvement Package	12-Jan-24	2386	14	0.4	0.7	Tree Trench	Streets	$1,491,000		Delaware
		1339-2		12-Jan-24	2223	14	0.5	0.7	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1339-3		12-Jan-24	2187	14	0.4	0.7	Infiltration/Storage Trench, Planter	Streets			Delaware
		1339-4		17-Nov-23	2289	14	0.5	0.7	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1339-5		17-Nov-23	2307	14	0.3	0.6	Tree Trench	Streets			Delaware
		1339-7		06-Nov-23	1268	14	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1339-8		06-Nov-23	1780	14	0.4	0.6	Tree Trench	Streets			Delaware
50205	1341	1341-1	Mantua Greenway Neighborhood Connections	07-Sep-23	742	25	0.2	0.3	Infiltration/Storage Trench	Streets	$1,954,000		Schuylkill
		1341-10		07-Sep-23	1450	25	0.4	0.5	Tree Trench	Streets			Schuylkill
		1341-11		07-Sep-23	1790	25	0.5	0.6	Tree Trench	Streets			Schuylkill
		1341-2		07-Sep-23	1767	25	0.4	0.6	Tree Trench	Streets			Schuylkill
		1341-3		07-Jul-23	1424	25	0.3	0.5	Infiltration/Storage Trench	Streets			Schuylkill
		1341-4		07-Sep-23	4702	25	1.2	1.4	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1341-5		07-Jul-23	1505	25	0.4	0.5	Tree Trench	Streets			Schuylkill
		1341-6		08-Sep-23	1143	25	0.3	0.4	Tree Trench	Streets			Schuylkill
		1341-7		07-Jul-23	1251	25	0.3	0.4	Tree Trench	Streets			Schuylkill
		1341-8		07-Jul-23	1710	25	0.3	0.6	Tree Trench	Streets			Schuylkill
		1341-9		21-Sep-23	1090	25	0.2	0.4	Tree Trench	Streets			Schuylkill
		1343-1	Drexel University Campus Green	15-Aug-24	1933	34	0.4	0.8	Tree Trench	Streets			Schuylkill
		1343-2		15-Aug-24	1805	34	0.4	0.6	Tree Trench	Streets			Schuylkill
		1343-3		15-Aug-24	2347	34	0.4	0.7	Tree Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50206	1343	1343-4	Streets Package	15-Aug-24	2516	34	0.5	0.8	Tree Trench	Streets	$2,547,000	Drexel University	Schuylkill
		1343-5		15-Aug-24	1605	34	0.4	0.5	Tree Trench	Streets			Schuylkill
		1343-6		15-Aug-24	1497	34	0.3	0.5	Tree Trench	Streets			Schuylkill
		1343-8		15-Aug-24	2479	34	0.5	1.0	Tree Trench	Streets			Schuylkill
50207	1342	1342-1	Snyder Avenue Greening Improvements	22-May-23	1834	16	0.3	0.6	Tree Trench	Streets	$1,819,000		Schuylkill
		1342-10		30-Oct-23	708	16	0.2	0.3	Tree Trench	Streets			Schuylkill
		1342-11		30-Oct-23	889	16	0.2	0.3	Infiltration/Storage Trench	Streets			Schuylkill
		1342-12		30-Oct-23	931	16	0.2	0.4	Tree Trench	Streets			Schuylkill
		1342-2		22-May-23	1130	16	0.2	0.4	Infiltration/Storage Trench	Streets			Schuylkill
		1342-3		30-Oct-23	1319	16	0.3	0.4	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1342-4		06-Nov-23	1342	16	0.4	0.4	Infiltration/Storage Trench	Streets			Schuylkill
		1342-6		30-Oct-23	756	16	0.2	0.3	Tree Trench	Streets			Schuylkill
		1342-7		30-Oct-23	606	16	0.2	0.2	Infiltration/Storage Trench	Streets			Schuylkill
		1342-8		30-Oct-23	912	16	0.3	0.3	Tree Trench	Streets			Schuylkill
		1342-9		31-May-24	1287	16	0.3	0.4	Tree Trench	Streets			Schuylkill
50210	1345 *	1345-1	24th Street Greening Improvements	27-Nov-23	2876	55	0.4	0.9	Infiltration/Storage Trench, Rain Garden	Streets	$2,560,000		Schuylkill
		1345-2		27-Nov-23	15450	55	1.9	3.9	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1345-3		27-Nov-23	3559	55	0.4	0.9	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1345-4		27-Nov-23	2105	55	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1345-5		27-Nov-23	9013	55	1.3	2.7	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1345-6		27-Nov-23	3372	55	0.4	0.9	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1345-7		27-Nov-23	5471	55	0.7	1.4	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
50211	1347	1347-1	Mifflin Square	01-Aug-22	4183	13	0.6	1.3	Tree Trench	Open Space	$1,246,000		Delaware
		1347-2		23-May-22	6415	13	0.9	1.8	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
		1347-3		23-May-22	3780	13	0.7	1.2	Tree Trench	Open Space			Delaware
		1347-4		23-May-22	2883	13	0.4	0.8	Tree Trench	Open Space			Delaware
50212	1348	1348-1	Fairmount Ave Greening Improvements	19-May-20	2173	13	0.5	0.7	Infiltration/Storage Trench	Streets	$1,185,000		Delaware,Schuylkill
		1348-2		04-Jun-20	1829	13	0.3	0.6	Tree Trench	Streets			Delaware,Schuylkill
		1348-3		25-Jun-20	1264	13	0.2	0.4	Tree Trench	Streets			Delaware,Schuylkill
		1348-5		17-Jun-20	2310	13	0.4	0.7	Tree Trench	Streets			Delaware,Schuylkill
		1348-8		07-Aug-20	1486	13	0.2	0.4	Tree Trench	Streets			Delaware,Schuylkill
		1348-9		07-Aug-20	1710	13	0.3	0.5	Tree Trench	Streets			Delaware,Schuylkill
50213	1351 *	1351-1	Five Loaves Two Fish Streets Improvements	17-Apr-24	1177	20	0.3	0.4	Tree Trench	Streets	$1,102,000		Schuylkill
		1351-2		17-Apr-24	1600	20	0.3	0.5	Tree Trench	Streets			Schuylkill
		1351-3		17-Apr-24	1292	20	0.2	0.4	Tree Trench	Streets			Schuylkill
		1351-4		17-Apr-24	1042	20	0.2	0.3	Tree Trench	Streets			Schuylkill
		1351-5		17-Apr-24	1159	20	0.3	0.4	Tree Trench	Streets			Schuylkill
		1351-6		17-Apr-24	1196	20	0.3	0.4	Tree Trench	Streets			Schuylkill
50214	1353	1353-1	State & Rhawn Sidepath	15-Oct-24	2824	5	0.5	0.9	Tree Trench	Streets	$274,000	Philadelphia Streets Department,Philadelphia Department of Parks & Recreation	Pennypack
		1354-1		06-Apr-23	1421	27	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1354-2		16-Feb-23	869	27	0.1	0.3	Tree Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50215	1354 *	1354-3	Fairmount Neighborhood Bumpouts	06-Apr-23	3099	27	0.6	1.0	Tree Trench	Streets	$1,750,000		Schuylkill
		1354-4		06-Apr-23	4131	27	0.8	1.3	Tree Trench	Streets			Schuylkill
		1354-5		06-Apr-23	3078	27	0.9	1.0	Bumpout, Tree Trench	Streets			Schuylkill
		1354-6		06-Apr-23	1713	27	0.5	0.8	Tree Trench	Streets			Schuylkill
		1354-7		16-Feb-23	948	27	0.2	0.3	Tree Trench	Streets			Schuylkill
50217	1359	1359-1	Lawncrest Streets North	26-Oct-20	1855	10	0.5	0.6	Tree Trench	Streets	$1,699,000		Delaware,TTF
		1359-10		27-Jan-21	584	10	0.1	0.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-11		19-Apr-21	1421	10	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1359-12		04-Nov-20	1504	10	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1359-13		11-Nov-20	1743	10	0.4	0.5	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-14		11-Nov-20	1368	10	0.4	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-2		26-Oct-20	1062	10	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-3		26-Oct-20	1053	10	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-5		17-Nov-20	1184	10	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-6		09-Nov-20	915	10	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-7		19-Apr-21	2673	10	0.7	0.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-8		07-Jan-21	833	10	0.1	0.2	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1359-9		07-Jan-21	1652	10	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
50218	1357	1357-1	Arch St West Streets Improvements	11-Jun-24	1826	33	0.5	0.6	Tree Trench	Streets	$2,596,000		Cobbs-Darby
		1357-10		11-Jun-24	1351	33	0.4	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1357-11		11-Jun-24	1765	33	0.4	0.6	Tree Trench	Streets			Cobbs-Darby
		1357-2		11-Jun-24	1719	33	0.6	0.6	Tree Trench	Streets			Cobbs-Darby
		1357-3		11-Jun-24	2112	33	0.6	0.7	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1357-4		11-Jun-24	2453	33	0.5	0.8	Tree Trench	Streets			Cobbs-Darby
		1357-5		11-Jun-24	1547	33	0.3	0.5	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1357-6		11-Jun-24	3410	33	0.8	1.0	Tree Trench	Streets			Cobbs-Darby
		1357-7		11-Jun-24	2059	33	0.5	0.6	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1357-8		11-Jun-24	3437	33	0.9	1.1	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1357-9		11-Jun-24	3856	33	0.7	1.2	Bumpout, Tree Trench	Streets			Cobbs-Darby
50219	1360 *	1360-1	Shunk Street Greening Improvements	22-Mar-24	2756	8	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets	$2,794,000		Delaware
		1360-10		02-Feb-24	1969	8	0.4	0.5	Bumpout, Tree Trench	Streets			Delaware
		1360-11		24-Nov-23	1848	8	0.2	0.5	Infiltration/Storage Trench	Streets			Delaware
		1360-12		24-Nov-23	1499	8	0.3	0.4	Bumpout, Tree Trench	Streets			Delaware
		1360-2		02-Feb-24	1328	8	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1360-3		29-Dec-23	3016	8	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware
		1360-4		03-Apr-24	2074	8	0.4	0.6	Bumpout, Tree Trench	Streets			Delaware
		1360-5		20-Dec-23	1360	8	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1360-6		20-Dec-23	1404	8	0.3	0.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1360-7		30-Nov-23	1675	8	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1360-8		22-Mar-24	1070	8	0.2	0.3	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1360-9		22-Mar-24	1918	8	0.4	0.5	Bumpout, Tree Trench	Streets			Delaware
		1361-1		12-Dec-25	5751	49	1.0	1.8	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50220	1361	1361-10	64th Street Corridor	12-Dec-25	5641	49	1.2	1.9	Bumpout, Infiltration/Storage Trench, Tree Trench	Streets	$3,352,000		Cobbs-Darby,Schuylkill
		1361-11		12-Dec-25	4980	49	1.2	1.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1361-2		12-Dec-25	4667	49	0.9	1.5	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1361-3		18-Mar-25	4186	49	1.0	1.3	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1361-4		17-Jul-25	2697	49	0.7	1.0	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1361-5		11-Jul-25	1455	49	0.2	0.5	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1361-6		23-Apr-25	1122	49	0.2	0.4	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1361-7		11-Jul-25	2215	49	0.4	0.8	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1361-8		23-Apr-25	1820	49	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1361-9		22-Apr-25	1838	49	0.3	0.5	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
50221	1363	1363-1	Lawndale Streets East	17-Nov-23	2614	14	0.5	0.8	Infiltration/Storage Trench	Streets	$2,095,000		Delaware,TTF
		1363-10		17-Nov-23	935	14	0.2	0.3	Infiltration/Storage Trench	Streets			Delaware,TTF
		1363-2		17-Nov-23	1837	14	0.3	0.6	Tree Trench	Streets			Delaware,TTF
		1363-3		17-Nov-23	2171	14	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware,TTF
		1363-4		17-Nov-23	3711	14	0.6	1.1	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1363-5		17-Nov-23	2173	14	0.4	0.7	Tree Trench	Streets			Delaware,TTF
		1363-6		17-Nov-23	918	14	0.2	0.3	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1363-8		17-Nov-23	2005	14	0.4	0.6	Tree Trench	Streets			Delaware,TTF
		1363-9		17-Nov-23	4481	14	1.0	1.5	Bumpout, Tree Trench	Streets			Delaware,TTF
50222	1374	1374-1	48th & Warrington Green Streets Improvements	03-Oct-23	2008	11	0.5	0.6	Tree Trench	Streets	$1,029,000		Cobbs-Darby,Schuylkill
		1374-2		16-Oct-23	1670	11	0.4	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1374-3		06-Dec-23	1404	11	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1374-4		14-Nov-23	2499	11	0.6	0.8	Infiltration/Storage Trench, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1374-5		13-Nov-23	907	11	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
50226	1382	1382-1	Tabor Ave	15-May-24	1667	65	0.4	0.6	Infiltration/Storage Trench	Streets	$3,116,000		Delaware,TTF
		1382-11		15-May-24	3299	65	0.7	1.4	Tree Trench	Streets			Delaware,TTF
		1382-12		15-May-24	3175	65	0.6	1.3	Tree Trench	Streets			Delaware,TTF
		1382-13		15-May-24	8431	65	1.7	3.1	Infiltration/Storage Trench	Streets			Delaware,TTF
		1382-14		15-May-24	2495	65	0.6	0.7	Bumpout, Infiltration/Storage Trench	Streets			Delaware,TTF
		1382-15		15-May-24	5277	65	1.0	2.0	Tree Trench	Streets			Delaware,TTF
		1382-16		15-May-24	7788	65	1.3	2.6	Tree Trench	Streets			Delaware,TTF
		1382-17		15-May-24	4373	65	1.0	1.5	Tree Trench	Streets			Delaware,TTF
		1382-18		15-May-24	2803	65	0.5	0.9	Tree Trench	Streets			Delaware,TTF
		1382-2		15-May-24	1733	65	0.5	0.9	Tree Trench	Streets			Delaware,TTF
		1382-3		15-May-24	1727	65	0.3	0.7	Infiltration/Storage Trench	Streets			Delaware,TTF
		1382-5		15-May-24	3007	65	0.7	1.2	Infiltration/Storage Trench	Streets			Delaware,TTF
		1382-7		15-May-24	2550	65	0.5	0.9	Tree Trench	Streets			Delaware,TTF
		1382-9		15-May-24	3187	65	0.7	1.4	Tree Trench	Streets			Delaware,TTF
50229	1383	1383-1	Columbia Field	11-Dec-20	10064	12	1.4	2.8	Infiltration/Storage Trench, Rain Garden	Open Space	$577,000		Delaware
50232	1387	1387-1	Waterloo Playground	10-Nov-21	2550	13	0.4	0.7	Tree Trench	Open Space	$320,000	Department of Public Property	Delaware
		1387-2		10-Nov-21	2096	13	0.5	0.9	Infiltration/Storage Trench, Rain Garden	Open Space			Delaware
	1389	1389-1		24-Oct-24	1650	7	0.4	0.5	Infiltration/Storage Trench, Rain Garden, Swale	Streets			Cobbs-Darby

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50233	1390	1390-2	Morris Park Neighborhood Streets 1	24-Oct-24	1010	13	0.3	0.4	Tree Trench	Streets	$2,423,000		Cobbs-Darby
		1390-3		24-Oct-24	1471	13	0.2	0.4	Tree Trench	Streets			Cobbs-Darby
		1390-4		24-Oct-24	1705	13	0.4	0.5	Tree Trench	Streets			Cobbs-Darby
		1390-5		24-Oct-24	847	13	0.2	0.3	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1390-6		24-Oct-24	1138	13	0.2	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1390-7		24-Oct-24	4232	13	1.0	1.3	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		1390-8		24-Oct-24	2921	13	0.5	0.9	Infiltration/Storage Trench	Streets			Cobbs-Darby
50234	1388 *	1388-1	I Street Green Corridor	06-Sep-23	1129	19	0.2	0.3	Tree Trench	Streets	$1,274,000	Impact Services CDC	Delaware
		1388-2		30-Jul-24	2285	19	0.6	0.8	Tree Trench	Streets			Delaware
		1388-3		01-Jun-23	1169	19	0.2	0.4	Tree Trench	Streets			Delaware
		1388-4		15-May-23	1185	19	0.2	0.3	Tree Trench	Streets			Delaware
		1388-5		15-May-23	1528	19	0.2	0.4	Tree Trench	Streets			Delaware
		1388-6		23-Oct-24	1426	19	0.2	0.4	Tree Trench	Streets			Delaware
		1388-7		23-Oct-24	1403	19	0.3	0.4	Tree Trench	Streets			Delaware
50235	1392	1392-1	Heitzman Playground Streets	22-Oct-20	1614	7	0.3	0.5	Tree Trench	Streets	$1,097,000	-	Delaware,TTF
		1392-2		22-Oct-20	3460	7	0.7	1.1	Tree Trench	Streets			Delaware,TTF
		1392-3		22-Oct-20	1812	7	0.4	0.6	Infiltration/Storage Trench	Streets			Delaware,TTF
		1392-4		22-Oct-20	2005	7	0.5	0.7	Infiltration/Storage Trench	Streets			Delaware,TTF
		1392-5		22-Oct-20	1334	7	0.3	0.4	Tree Trench	Streets			Delaware,TTF
		1392-6		22-Oct-20	3076	7	0.6	1.1	Infiltration/Storage Trench	Streets			Delaware,TTF
		1392-7		22-Oct-20	1709	7	0.4	0.5	Infiltration/Storage Trench	Streets			Delaware,TTF
50236	1393	1393-1	Frankford Pause	13-Jul-22	1702	0	0.3	0.6	Infiltration/Storage Trench, Rain Garden	Open Space	$250,000	Frankford Community Development Corporation	TTF
50237	1394	1394-1	Frankford and Belgrade	30-Sep-21	980	0	0.3	0.4	Infiltration/Storage Trench	Streets	$122,000	-	Delaware
50238	1396	1396-1	Levick Edge	25-Jul-24	3097	22	0.5	1.1	Bumpout, Infiltration/Storage Trench	Streets	$2,088,000	-	Delaware
		1396-10		25-Jul-24	1254	22	0.2	0.4	Tree Trench	Streets			Delaware
		1396-11		25-Jul-24	1071	22	0.2	0.4	Tree Trench	Streets			Delaware
		1396-2		25-Jul-24	1771	22	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1396-3		25-Jul-24	1408	22	0.3	0.5	Tree Trench	Streets			Delaware
		1396-4		25-Jul-24	3679	22	0.5	1.0	Bumpout, Tree Trench	Streets			Delaware
		1396-5		25-Jul-24	2925	22	0.4	0.8	Infiltration/Storage Trench	Streets			Delaware
		1396-6		25-Jul-24	1814	22	0.3	0.6	Infiltration/Storage Trench	Streets			Delaware
		1396-7		25-Jul-24	3155	22	0.9	1.1	Tree Trench	Streets			Delaware
		1396-8		25-Jul-24	1575	22	0.4	0.5	Tree Trench	Streets			Delaware
		1396-9		25-Jul-24	2896	22	0.6	1.0	Tree Trench	Streets			Delaware
50240	1401	1401-1	Morris Park Neighborhood Streets 2	28-Feb-25	3313	11	0.6	1.0	Bumpout, Infiltration/Storage Trench	Streets	$1,995,000	-	Cobbs-Darby
		1401-2		28-Feb-25	1538	11	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		1401-3		28-Feb-25	1674	11	0.3	0.5	Tree Trench	Streets			Cobbs-Darby
		1401-4		28-Feb-25	2210	11	0.6	0.7	Bumpout, Tree Trench	Streets			Cobbs-Darby
		1401-5		28-Feb-25	2464	11	0.4	0.7	Tree Trench	Streets			Cobbs-Darby
		1401-6		28-Feb-25	2799	11	0.7	0.9	Infiltration/Storage Trench	Streets			Cobbs-Darby
50241	1403	1403-1	Awbury GSI	25-Jul-23	3892	17	1.0	1.5	Infiltration/Storage Trench, Swale	Open Space	$1,354,000	-	TTF
		1403-2		25-Jul-23	4198	17	0.8	1.2	Infiltration/Storage Trench, Swale	Open Space			TTF
		1403-3		04-Mar-24	7702	17	1.2	2.1	Infiltration/Storage Trench, Rain Garden	Open Space			TTF
50243	1405	1405-1	56th St Tree Canopy Enhancements	24-Apr-26	2162	41	0.4	0.8	Tree Trench	Streets	$3,606,000	-	Schuylkill
		1405-2		24-Apr-26	2066	41	0.4	0.6	Tree Trench	Streets			Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1405-3		24-Apr-26	1640	41	0.4	0.8	Tree Trench	Streets			Schuylkill
50245	1410	1410-1	Rivera Recreation Center	15-Mar-24	12843	0	0.0	0.0	Infiltration/Storage Trench	Open Space	$138,000	Councilwoman Sanchez,Department of Parks & Recreation (PPR)	Delaware
50246	1412	1412-1	64th and 66th at Lindbergh	09-Oct-25	6183	27	1.3	1.9	Bumpout, Tree Trench	Streets	$3,781,000	-	Schuylkill
		1412-10		24-Apr-25	2884	27	0.6	1.0	Infiltration/Storage Trench	Streets			Schuylkill
		1412-11		11-Mar-25	926	27	0.2	0.3	Tree Trench	Streets			Schuylkill
		1412-12		03-Jun-25	1764	27	0.4	0.6	Tree Trench	Streets			Schuylkill
		1412-2		22-May-25	2631	27	0.5	0.9	Tree Trench	Streets			Schuylkill
		1412-3		22-May-25	5421	27	1.0	1.7	Bumpout, Tree Trench	Streets			Schuylkill
		1412-4		21-May-25	1986	27	0.4	0.6	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1412-5		22-Apr-25	2895	27	0.7	0.9	Tree Trench	Streets			Schuylkill
		1412-6		22-Jun-25	3743	27	0.8	1.2	Bumpout, Tree Trench	Streets			Schuylkill
		1412-7		09-Oct-25	2871	27	0.6	0.9	Bumpout, Infiltration/Storage Trench, Tree Trench	Streets			Schuylkill
		1412-8		22-May-25	4030	27	1.0	1.3	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1412-9		11-Mar-25	3450	27	0.9	1.1	Tree Trench	Streets			Schuylkill
50247	1413 *	1413-1	Lawndale Streets West	17-Nov-23	1468	10	0.3	0.5	Infiltration/Storage Trench	Streets	$1,437,000	-	Delaware,TTF
		1413-2		17-Nov-23	1315	10	0.3	0.4	Tree Trench	Streets			Delaware,TTF
		1413-3		17-Nov-23	1430	10	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1413-4		17-Nov-23	1247	10	0.2	0.4	Tree Trench	Streets			Delaware,TTF
		1413-5		17-Nov-23	1461	10	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware,TTF
		1413-6		17-Nov-23	1306	10	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1413-7		17-Nov-23	2009	10	0.5	0.6	Infiltration/Storage Trench	Streets			Delaware,TTF
		1413-8		17-Nov-23	1354	10	0.4	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
		1413-9		17-Nov-23	1295	10	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware,TTF
50252	1420	1420-1	Awbury Streets	14-Mar-25	2120	15	0.5	0.7	Infiltration/Storage Trench	Streets	$2,738,000	-	TTF
		1420-2		14-Mar-25	2155	15	0.5	0.7	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1420-3		14-Mar-25	2546	15	0.6	0.9	Infiltration/Storage Trench	Streets			TTF
		1420-4		14-Mar-25	4080	15	0.9	1.3	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1420-5		24-Apr-25	2529	15	0.5	0.8	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1420-6		24-Apr-25	2693	15	0.6	0.8	Bumpout, Infiltration/Storage Trench	Streets			TTF
		1420-7		24-Apr-25	7888	15	1.2	2.3	Bumpout, Infiltration/Storage Trench	Streets			TTF
50255	1425	1425-1	Cobbs Creek Trail Rain Gardens	14-May-26	3537	35	0.7	1.4	Infiltration/Storage Trench, Rain Garden	Streets	$3,270,000	-	Cobbs-Darby
		1425-2		14-May-26	1598	35	0.3	0.5	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
		1425-3		14-May-26	2622	35	0.5	0.9	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
		1425-4		14-May-26	3221	35	0.6	1.1	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
		1425-5		14-May-26	3482	35	0.7	1.1	Infiltration/Storage Trench, Rain Garden	Streets			Cobbs-Darby
		1425-6		14-May-26	1299	35	0.2	0.4	Tree Trench	Streets			Cobbs-Darby
		1425-7		14-May-26	3516	35	0.9	1.8	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		1425-8		14-May-26	6402	35	1.1	2.1	Bumpout, Tree Trench	Streets			Cobbs-Darby

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1425-9		14-May-26	858	35	0.2	0.3	Tree Trench	Streets			Cobbs-Darby
50258	1429	1429-1	Upland Way Package	06-Jun-24	3796	21	0.7	1.3	Tree Trench	Streets	$2,148,000	-	Schuylkill
		1429-2		06-Jun-24	2177	21	0.4	0.7	Tree Trench	Streets			Schuylkill
		1429-3		06-Jun-24	2402	21	0.6	0.8	Infiltration/Storage Trench	Streets			Schuylkill
		1429-4		06-Jun-24	3997	21	1.0	1.3	Tree Trench	Streets			Schuylkill
		1429-5		06-Jun-24	2143	21	0.6	0.7	Tree Trench	Streets			Schuylkill
		1429-6		06-Jun-24	2177	21	0.4	0.7	Tree Trench	Streets			Schuylkill
		1429-7		06-Jun-24	3137	21	0.6	1.0	Tree Trench	Streets			Schuylkill
		1429-8		06-Jun-24	2737	21	0.6	0.9	Tree Trench	Streets			Schuylkill
50260	1433	1433-1	Haddington Woods Rain Garden	07-Oct-25	13351	33	2.4	4.9	Infiltration/Storage Trench, Rain Garden	Open Space	$4,130,000	-	Cobbs-Darby
		1433-2		10-Oct-25	9333	33	1.6	3.3	Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby
		1433-3		10-Oct-25	5373	33	1.3	2.4	Infiltration/Storage Trench, Rain Garden	Open Space			Cobbs-Darby
		1433-4		02-Oct-25	3909	33	0.9	1.3	Tree Trench	Streets			Cobbs-Darby
		1433-6		02-Oct-25	1134	33	0.3	0.4	Tree Trench	Streets			Cobbs-Darby
		1433-7		02-Oct-25	1134	33	0.3	0.4	Infiltration/Storage Trench	Streets			Cobbs-Darby
		1433-8		02-Oct-25	932	33	0.2	0.3	Tree Trench	Streets			Cobbs-Darby
		1433-9		02-Oct-25	1487	33	0.3	0.5	Tree Trench	Streets			Cobbs-Darby
50262	1436	1436-1	Callowhill Street West	17-May-24	13260	30	2.4	4.8	Infiltration/Storage Trench, Rain Garden	Open Space	$1,984,000	-	Cobbs-Darby
		1436-2		11-Mar-24	1776	30	0.3	0.5	Tree Trench	Streets			Cobbs-Darby
		1436-3		11-Mar-24	3489	30	0.9	1.5	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		1436-4		11-Mar-24	2497	30	0.6	0.8	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby
		1436-5		11-Mar-24	1418	30	0.3	0.5	Tree Trench	Streets			Cobbs-Darby
		1436-6		16-Oct-23	2577	30	0.7	0.8	Tree Trench	Streets			Cobbs-Darby
		1436-7		16-Oct-23	1223	30	0.3	0.4	Tree Trench	Streets			Cobbs-Darby
		1436-8		16-Oct-23	1246	30	0.3	0.4	Tree Trench	Streets			Cobbs-Darby
50263	1437	1437-1	Rowland Leon	07-May-25	1348	39	0.3	0.4	Tree Trench	Streets	$5,990,000	-	Delaware,Pennypack
		1437-10		07-Oct-24	2531	39	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-11		07-Oct-24	2137	39	0.4	0.6	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-12		07-Oct-24	2485	39	0.4	0.7	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-13		14-Oct-24	1613	39	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-14		14-Oct-24	2661	39	0.5	0.7	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-15		14-Nov-24	2676	39	0.5	0.7	Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-2		07-May-25	3457	39	0.6	1.0	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1437-3		04-Aug-25	6305	39	1.0	1.7	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1437-4		04-Aug-25	5624	39	1.0	1.5	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1437-5		07-May-25	5003	39	0.9	1.4	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1437-6		20-Oct-25	5242	39	1.4	1.4	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1437-7		01-Sep-25	3009	39	0.5	0.8	Tree Trench	Streets			Delaware,Pennypack
		1437-8		07-May-25	3027	39	0.7	0.8	Tree Trench	Streets			Delaware,Pennypack
		1437-9		24-Nov-25	1697	39	0.3	0.5	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
50264	1438	1438-1	Huntingdon Emerald Package	15-Feb-24	7351	8	0.9	1.9	Infiltration/Storage Trench, Rain Garden	Vacant Land	$587,000	Arcadia Commons,Neighborhood Gardens Trust (NGT)	Delaware
50266	1440	1440-1	Feltonville Recreation Center Outfield	07-Oct-25	8444	8	1.6	3.2	Infiltration/Storage Trench	Open Space	$3,382,000	Department of Parks & Recreation (PPR)	TTF
		1440-2		14-Oct-25	14086	8	2.7	4.5	Infiltration/Storage Trench	Open Space			TTF
		1440-3		07-Oct-25	3156	8	0.5	1.0	Bumpout, Tree Trench	Streets			TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1440-4		01-Dec-25	3020	8	0.8	1.0	Tree Trench	Streets			TTF
50267	1441 *	1441-1	Holmesburg Streets	30-Jan-23	1770	14	0.4	0.5	Tree Trench	Streets	Unknown	-	Pennypack
		1441-2		21-Feb-23	2541	14	0.7	0.7	Tree Trench	Streets			Pennypack
		1441-3		21-Feb-23	886	14	0.2	0.2	Infiltration/Storage Trench	Streets			Pennypack
		1441-4		21-Dec-22	1879	14	0.5	0.5	Tree Trench	Streets			Pennypack
		1441-5		05-Dec-22	1996	14	0.5	0.5	Infiltration/Storage Trench	Streets			Pennypack
		1441-6		11-Nov-22	1318	14	0.3	0.4	Tree Trench	Streets			Pennypack
		1441-7		03-Nov-22	1443	14	0.3	0.4	Tree Trench	Streets			Pennypack
50269	1444	1444-1	Holmesburg Rec Center LAD	16-Oct-24	20756	0	2.9	5.8	Infiltration/Storage Trench	Open Space	Unknown	Department of Parks & Recreation (PPR)	Delaware,Pennypack
		1444-2		02-Oct-24	15259	0	2.1	4.1	Infiltration/Storage Trench	Open Space			Delaware,Pennypack
50271	1446	1446-1	57th St from Woodbine Ave to Lebanon Ave	10-Jun-24	2796	19	0.7	0.9	Bumpout, Infiltration/Storage Trench	Streets	$2,813,000	-	Schuylkill
		1446-10		03-May-24	3854	19	1.0	1.3	Tree Trench	Streets			Schuylkill
		1446-11		30-Jan-24	1550	19	0.4	0.5	Tree Trench	Streets			Schuylkill
		1446-2		30-Jan-24	2179	19	0.5	0.7	Infiltration/Storage Trench	Streets			Schuylkill
		1446-3		30-Jan-24	3491	19	0.7	1.1	Infiltration/Storage Trench	Streets			Schuylkill
		1446-4		30-Jan-24	2232	19	0.5	0.7	Infiltration/Storage Trench	Streets			Schuylkill
		1446-5		30-Jan-24	3654	19	0.8	1.2	Bumpout, Infiltration/Storage Trench	Streets			Schuylkill
		1446-6		30-Jan-24	1729	19	0.4	0.5	Infiltration/Storage Trench	Streets			Schuylkill
		1446-7		03-May-24	2629	19	0.6	0.9	Tree Trench	Streets			Schuylkill
		1446-8		03-May-24	2090	19	0.4	0.6	Tree Trench	Streets			Schuylkill
		1446-9		10-Jun-24	1261	19	0.2	0.4	Infiltration/Storage Trench	Streets			Schuylkill
50272	1447	1447-1	East Poplar Green Streets	10-Jan-23	3008	8	0.7	1.0	Tree Trench	Streets	$1,135,000	-	Delaware
		1447-2		19-Jan-23	1683	8	0.4	0.5	Infiltration/Storage Trench, Planter	Streets			Delaware
		1447-3		10-Jan-23	1552	8	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1447-4		19-Jan-23	1159	8	0.2	0.4	Infiltration/Storage Trench, Rain Garden	Streets			Delaware
		1447-5		20-Jan-23	1375	8	0.3	0.4	Infiltration/Storage Trench	Streets			Delaware
50274	1449	1449-1	55th and Springfield Ave	22-Aug-25	4082	45	1.1	1.3	Tree Trench	Streets	$6,037,000	-	Cobbs-Darby,Schuylkill
		1449-11		20-May-25	3268	45	0.7	1.0	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-12		07-May-25	4010	45	1.0	1.3	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-13		28-Apr-25	1217	45	0.3	0.4	Bumpout, Infiltration/Storage Trench	Streets			Cobbs-Darby,Schuylkill
		1449-4		27-Jun-25	3625	45	0.9	1.2	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-6		25-Jun-25	3596	45	0.7	1.2	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-7		22-Aug-25	1951	45	0.5	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-8		11-Jul-25	3646	45	0.8	1.2	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1449-9		17-Jun-25	2377	45	0.5	0.8	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
50275	1450	1450-1	Holmesburg Edge	30-Dec-24	2514	19	0.4	0.8	Tree Trench	Streets	$1,149,000	-	Pennypack
		1450-3		30-Dec-24	1866	19	0.9	0.6	Tree Trench	Streets			Pennypack
		1450-4		30-Dec-24	2353	19	0.6	0.9	Tree Trench	Streets			Pennypack
		1450-5		27-Dec-24	1821	19	0.4	0.6	Infiltration/Storage Trench	Streets			Pennypack
		1450-6		30-Dec-24	1179	19	0.4	0.4	Tree Trench	Streets			Pennypack
50276	1454	1454-1	Craig Decatur	30-Dec-24	2528	17	0.6	0.9	Tree Trench	Streets	$1,317,000	-	Delaware,Pennypack
		1454-2		30-Dec-24	1490	17	0.2	0.4	Tree Trench	Streets			Delaware,Pennypack
		1454-3		07-Aug-25	835	17	0.2	0.3	Tree Trench	Streets			Delaware,Pennypack
		1454-4		03-Mar-25	1055	17	0.2	0.3	Tree Trench	Streets			Delaware,Pennypack
		1454-5		03-Mar-25	1167	17	0.2	0.4	Tree Trench	Streets			Delaware,Pennypack
		1454-6		03-Mar-25	1214	17	0.3	0.4	Tree Trench	Streets			Delaware,Pennypack
50279	1459	1459-1	Holman Field	26-Apr-23	8757	3	1.9	2.6	Tree Trench	Open Space	$929,000	-	TTF
		1461-1		18-Jul-24	2292	23	0.6	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50281	1461	1461-2	Paschalville Library Branch Rain Gardens	18-Jul-24	2719	23	0.7	0.9	Bumpout, Tree Trench	Streets	$2,010,000	-	Cobbs-Darby,Schuylkill
		1461-3		18-Jul-24	1185	23	0.2	0.4	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1461-4		18-Jul-24	4843	23	0.9	1.5	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1461-5		18-Jul-24	3209	23	0.6	1.0	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1461-6		18-Jul-24	3324	23	0.6	1.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1461-7		18-Jul-24	2662	23	0.5	0.9	Tree Trench	Streets			Cobbs-Darby,Schuylkill
50283	1467	1467-1	Olney Rec Center	10-Apr-26	40190	14	5.6	11.2	Infiltration/Storage Trench, Rain Garden	Open Space	$5,165,000	Department of Parks & Recreation (PPR)	TTF
		1467-2		10-Apr-26	3814	14	0.6	1.1	Bumpout, Infiltration/Storage Trench	Open Space			TTF
		1467-3		10-Apr-26	4457	14	0.9	1.4	Tree Trench	Open Space			TTF
50284	1469	1469-1	Erdrick Walker	12-Mar-25	1811	22	0.5	0.6	Bumpout, Infiltration/Storage Trench	Streets	$3,861,000	-	Delaware,Pennypack
		1469-2		12-Mar-25	3992	22	1.0	1.3	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1469-3		12-Mar-25	2803	22	0.5	1.0	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1469-4		12-Mar-25	3860	22	1.1	1.3	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1469-5		12-Mar-25	4191	22	1.1	1.4	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1469-6		12-Mar-25	2987	22	0.7	1.0	Bumpout, Infiltration/Storage Trench	Streets			Delaware,Pennypack
		1469-7		12-Mar-25	4614	22	1.1	1.5	Tree Trench	Streets			Delaware,Pennypack
50288	1475	1475-1	McMenamy Torresdale	18-Oct-24	3491	32	0.5	1.1	Tree Trench	Streets	$2,799,000	-	Delaware,Pennypack
		1475-2		18-Oct-24	4922	32	0.9	1.6	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1475-3		18-Oct-24	2807	32	0.5	0.9	Bumpout, Tree Trench	Streets			Delaware,Pennypack
		1475-4		18-Oct-24	1443	32	0.3	0.5	Tree Trench	Streets			Delaware,Pennypack
		1475-5		18-Oct-24	1798	32	0.3	0.6	Tree Trench	Streets			Delaware,Pennypack
		1475-6		18-Oct-24	1564	32	0.3	0.5	Tree Trench	Streets			Delaware,Pennypack
		1475-7		18-Oct-24	2282	32	0.4	0.7	Tree Trench	Streets			Delaware,Pennypack
		1475-8		18-Oct-24	2048	32	0.5	0.7	Tree Trench	Streets			Delaware,Pennypack
		1475-9		18-Oct-24	895	32	0.2	0.3	Tree Trench	Streets			Delaware,Pennypack
50290	1477	1477-1	Cottage and Jackson Streets	21-Mar-24	4183	17	1.0	1.3	Bumpout, Tree Trench	Streets	$3,351,000	-	Delaware
		1477-10		30-Aug-23	1395	17	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1477-11		30-Aug-23	1550	17	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1477-12		30-Aug-23	1107	17	0.3	0.5	Infiltration/Storage Trench	Streets			Delaware
		1477-2		21-Mar-24	3309	17	0.7	1.0	Bumpout, Tree Trench	Streets			Delaware
		1477-3		01-Mar-24	3528	17	0.8	1.1	Bumpout, Tree Trench	Streets			Delaware
		1477-4		01-Mar-24	3699	17	0.8	1.2	Bumpout, Tree Trench	Streets			Delaware
		1477-5		01-Mar-24	2617	17	0.5	0.8	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1477-6		05-Nov-23	2422	17	0.6	0.8	Tree Trench	Streets			Delaware
		1477-7		05-Nov-23	1423	17	0.2	0.4	Infiltration/Storage Trench	Streets			Delaware
		1477-8		05-Nov-23	2797	17	0.6	0.9	Infiltration/Storage Trench	Streets			Delaware
		1477-9		30-Aug-23	1352	17	0.3	0.7	Infiltration/Storage Trench	Streets			Delaware
50296	1486	1486-1	Conestoga Green Streets	17-Apr-25	2776	29	0.5	0.9	Tree Trench	Streets	$2,151,000	-	Schuylkill
		1486-2		17-Apr-25	1009	29	0.3	0.3	Tree Trench	Streets			Schuylkill
		1486-3		17-Apr-25	1157	29	0.3	0.4	Tree Trench	Streets			Schuylkill
		1486-4		17-Apr-25	1089	29	0.3	0.4	Tree Trench	Streets			Schuylkill
		1486-5		17-Apr-25	2006	29	0.4	0.6	Tree Trench	Streets			Schuylkill
		1486-6		17-Apr-25	791	29	0.2	0.3	Tree Trench	Streets			Schuylkill
		1486-7		17-Apr-25	2324	29	0.5	0.7	Tree Trench	Streets			Schuylkill
		1486-8		17-Apr-25	2303	29	0.4	0.8	Tree Trench	Streets			Schuylkill
		1490-2		12-May-26	6201	49	1.1	2.2	Bumpout, Tree Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50297	1490	1490-3	Ditman Green Corridor	17-Sep-25	5749	49	1.0	2.0	Bumpout, Tree Trench	Streets	$4,922,000	-	Delaware
		1490-4		17-Sep-25	4468	49	0.9	1.8	Bumpout, Tree Trench	Streets			Delaware
		1490-5		10-Mar-25	3642	49	0.8	1.7	Tree Trench	Streets			Delaware
		1490-6		10-Mar-25	3944	49	0.7	1.4	Tree Trench	Streets			Delaware
		1490-7		17-Sep-25	4219	49	0.9	1.8	Tree Trench	Streets			Delaware
		1490-8		12-May-26	3674	49	0.8	1.2	Bumpout, Tree Trench	Streets			Delaware
50298	1491	1491-1	Hunting Park Cool Cover 1	04-Sep-24	1882	20	0.4	0.6	Tree Trench	Streets	$1,820,000	-	Delaware,TTF
		1491-2		04-Sep-24	1579	20	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1491-3		04-Sep-24	3992	20	0.8	1.3	Tree Trench	Streets			Delaware,TTF
		1491-4		04-Sep-24	2779	20	0.7	0.9	Tree Trench	Streets			Delaware,TTF
		1491-5		04-Sep-24	1690	20	0.4	0.5	Tree Trench	Streets			Delaware,TTF
		1491-6		04-Sep-24	1284	20	0.3	0.4	Tree Trench	Streets			Delaware,TTF
		1491-8		04-Sep-24	1655	20	0.4	0.5	Tree Trench	Streets			Delaware,TTF
50299	1495	1495-1	51st St from Cedar to Walnut	01-Mar-24	3499	48	0.7	1.0	Bumpout, Infiltration/Storage Trench	Streets	$4,006,000	-	Cobbs-Darby,Schuylkill
		1495-10		21-Apr-25	1767	48	0.4	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-11		04-Sep-25	2392	48	0.7	0.7	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-12		23-May-25	3473	48	0.9	1.0	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-2		29-Mar-24	1943	48	0.4	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-3		24-May-24	1911	48	0.3	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-4		06-Aug-24	2130	48	0.3	0.7	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-5		04-Sep-24	3902	48	0.6	1.2	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-6		08-Nov-24	1408	48	0.2	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-7		07-Jun-24	2034	48	0.3	0.6	Bumpout, Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-8		01-Nov-24	1617	48	0.3	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1495-9		21-Apr-25	1664	48	0.4	0.5	Tree Trench	Streets			Cobbs-Darby,Schuylkill
50302	1500	1500-1	Frankford Creek Greenway West	02-Feb-26	2983	25	0.5	0.9	Bumpout, Infiltration/Storage Trench	Streets	$3,343,000	-	Delaware,TTF
		1500-2		19-Feb-26	4353	25	1.0	1.4	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-3		08-Aug-25	4572	25	0.8	1.4	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-4		08-Aug-25	3922	25	0.8	1.3	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-5		08-Aug-25	5502	25	1.1	1.7	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-6		18-Dec-25	4757	25	0.8	1.5	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-7		08-Aug-25	4507	25	0.8	1.4	Bumpout, Tree Trench	Streets			Delaware,TTF
		1500-8		18-Dec-25	4927	25	0.8	1.5	Bumpout, Tree Trench	Streets			Delaware,TTF
50304	1503	1503-1	54th St Greening	02-Apr-26	2530	54	0.7	0.8	Tree Trench	Streets	$4,797,000	-	Cobbs-Darby,Schuylkill
		1503-2		15-Jun-26	1890	54	0.4	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1503-3		17-Jun-26	2374	54	0.6	0.8	Tree Trench	Streets			Cobbs-Darby,Schuylkill
		1503-4		26-Jun-26	1930	54	0.5	0.6	Tree Trench	Streets			Cobbs-Darby,Schuylkill
50312	1517	1517-1	Hunting Park Cool Cover 2	31-Mar-26	2762	49	0.6	0.8	Tree Trench	Streets	$4,759,000	-	Delaware,TTF
		1517-10		17-Sep-25	1165	49	0.3	0.6	Tree Trench	Streets			Delaware,TTF
		1517-11		27-Oct-25	1265	49	0.3	0.4	Tree Trench	Streets			Delaware,TTF
		1517-12		21-Oct-25	2516	49	0.5	0.8	Tree Trench	Streets			Delaware,TTF
		1517-13		20-Oct-25	817	49	0.2	0.3	Tree Trench	Streets			Delaware,TTF
		1517-14		03-Dec-25	780	49	0.2	0.3	Tree Trench	Streets			Delaware,TTF
		1517-2		17-Nov-25	3585	49	0.9	1.2	Tree Trench	Streets			Delaware,TTF
		1517-3		09-Jun-25	2702	49	0.7	0.9	Tree Trench	Streets			Delaware,TTF
		1517-4		11-Jul-25	1346	49	0.4	0.5	Tree Trench	Streets			Delaware,TTF
		1517-5		30-Dec-25	2375	49	0.6	0.8	Infiltration/Storage Trench, Tree Trench	Streets			Delaware,TTF
		1517-6		11-Aug-25	1095	49	0.3	0.4	Tree Trench	Streets			Delaware,TTF
		1517-7		26-May-25	1462	49	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1517-8		11-Jun-25	1320	49	0.3	0.5	Tree Trench	Streets			Delaware,TTF

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
		1517-9		30-Jul-25	957	49	0.2	0.3	Tree Trench	Streets			Delaware,TTF
		1524-1		01-Nov-23	6149	20	0.9	1.8	Rain Garden, Tree Trench	Streets			Delaware
		1524-2		01-Aug-23	2138	20	0.4	0.7	Tree Trench	Streets			Delaware
		1524-3		01-Aug-23	1157	20	0.2	0.4	Tree Trench	Streets			Delaware
50315	1524	1524-4	Lehigh & Sedgley Green Triangle	01-Aug-23	1528	20	0.2	0.4	Tree Trench	Streets	$1,446,000	-	Delaware
		1524-5		01-Aug-23	1878	20	0.4	0.6	Infiltration/Storage Trench	Streets			Delaware
		1524-6		13-Jan-23	2707	20	0.6	0.9	Tree Trench	Streets			Delaware
		1524-7		05-Jan-23	1057	20	0.2	0.3	Tree Trench	Streets			Delaware
		1525-1		15-Apr-24	1584	46	0.3	0.5	Tree Trench	Streets			Delaware
		1525-2		15-Apr-24	1355	46	0.3	0.5	Tree Trench	Streets			Delaware
		1525-3		15-Apr-24	1593	46	0.3	0.5	Tree Trench	Streets			Delaware
		1525-4		15-Apr-24	1399	46	0.4	0.5	Tree Trench	Streets			Delaware
50316	1525	1525-5	Algard Wellington	15-Apr-24	1844	46	0.3	0.6	Tree Trench	Streets	$1,967,000	-	Delaware
		1525-6		15-Apr-24	3686	46	0.8	1.2	Tree Trench	Streets			Delaware
		1525-7		15-Apr-24	1676	46	0.3	0.5	Tree Trench	Streets			Delaware
		1525-8		15-Apr-24	1574	46	0.4	0.5	Tree Trench	Streets			Delaware
		1525-9		15-Apr-24	1479	46	0.3	0.6	Tree Trench	Streets			Delaware
		1527-1		03-Nov-25	1365	37	0.3	0.5	Tree Trench	Streets			Delaware,TTF
		1527-2		03-Nov-25	1842	37	0.4	0.6	Tree Trench	Streets			Delaware,TTF
		1527-3		03-Nov-25	1768	37	0.5	0.6	Tree Trench	Streets			Delaware,TTF
50317	1527	1527-4	Northwood Park Streets	03-Nov-25	4574	37	0.9	1.7	Tree Trench	Streets	$2,893,000	-	Delaware,TTF
		1527-5		03-Nov-25	2965	37	0.8	1.0	Tree Trench	Streets			Delaware,TTF
		1527-6		18-Dec-24	6300	37	1.2	2.3	Tree Trench	Streets			Delaware,TTF
		1527-7		03-Nov-25	2737	37	0.6	1.1	Tree Trench	Streets			Delaware,TTF
50320	1544	1544-2	Small Sites & ROW Connections	02-Sep-22	4257	5	1.1	1.4	Rain Garden, Tree Trench	Vacant Land	$778,000	-	Delaware
		1546-1		25-Feb-25	2335	38	0.6	0.8	Infiltration/Storage Trench, Rain Garden	Streets			Schuylkill
		1546-10		25-Feb-25	1367	38	0.4	0.5	Tree Trench	Streets			Schuylkill
		1546-11		25-Feb-25	1340	38	0.4	0.4	Tree Trench	Streets			Schuylkill
		1546-2		30-Jul-24	1181	38	0.3	0.4	Tree Trench	Streets			Schuylkill
		1546-3		30-Jul-24	1515	38	0.3	0.5	Tree Trench	Streets			Schuylkill
50325	1546	1546-4	Connell Park	30-Jul-24	1414	38	0.4	0.5	Tree Trench	Streets	$2,871,000	-	Schuylkill
		1546-5		30-Jul-24	1934	38	0.4	0.6	Tree Trench	Streets			Schuylkill
		1546-6		25-Feb-25	3660	38	1.0	1.2	Bumpout, Tree Trench	Streets			Schuylkill
		1546-7		25-Feb-25	1627	38	0.3	0.5	Bumpout, Tree Trench	Streets			Schuylkill
		1546-8		25-Feb-25	2456	38	0.6	0.8	Bumpout, Tree Trench	Streets			Schuylkill
		1546-9		25-Feb-25	1783	38	0.5	0.6	Tree Trench	Streets			Schuylkill
		1556-1		25-Nov-25	909	54	0.2	0.3	Tree Trench	Streets			TTF
		1556-2		25-Nov-25	2067	54	0.5	0.7	Tree Trench	Streets			TTF
		1556-3		25-Nov-25	1690	54	0.4	0.6	Tree Trench	Streets			TTF
50327	1556	1556-4	Mount Airy Ave Green Streets	25-Nov-25	5172	54	1.2	1.7	Tree Trench	Streets	$3,279,000	-	TTF
		1556-5		25-Nov-25	4010	54	1.1	1.3	Tree Trench	Streets			TTF
		1556-6		25-Nov-25	4467	54	1.2	1.5	Tree Trench	Streets			TTF
		1556-7		25-Nov-25	3283	54	0.9	1.1	Tree Trench	Streets			TTF
		1556-8		25-Nov-25	1777	54	0.4	0.6	Tree Trench	Streets			TTF
50329	1560	1560-1	Ziehler Playground	05-Apr-24	12404	18	1.5	3.1	Infiltration/Storage Trench, Rain Garden	Open Space	$912,000	Rebuild	TTF
		1579-1		22-Sep-25	3788	67	0.9	1.3	Tree Trench	Streets			Delaware
		1579-10		15-Oct-25	6729	67	1.3	2.5	Bumpout, Tree Trench	Streets			Delaware
		1579-11		15-Oct-25	2243	67	0.5	0.9	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1579-12		15-Oct-25	4973	67	1.0	1.9	Bumpout, Tree Trench	Streets			Delaware

Work Number	Project ID	System Number	Project Name	Construction Completion Date	Storage Volume (cf)	New Trees	Drainage Area (acres)	Greened Acres (acre-inches)	SMP Type	Program	Green Construction Cost **	Partner(s)	Watershed
50340	1579	1579-2	Brous & Battersby Streets	22-Sep-25	1312	67	0.4	0.7	Tree Trench	Streets	$6,004,000		Delaware
		1579-3		07-Jul-25	4019	67	1.0	1.4	Tree Trench	Streets			Delaware
		1579-4		15-Oct-25	7387	67	1.4	2.7	Tree Trench	Streets			Delaware
		1579-5		15-Oct-25	6853	67	1.5	2.9	Tree Trench	Streets			Delaware
		1579-6		15-Oct-25	7397	67	1.5	2.2	Tree Trench	Streets			Delaware
		1579-7		22-Sep-25	2656	67	0.6	1.1	Bumpout, Infiltration/Storage Trench	Streets			Delaware
		1579-8		15-Oct-25	5704	67	1.2	2.4	Bumpout, Infiltration/Storage Trench, Tree Trench	Streets			Delaware
		1579-9		22-Sep-25	6309	67	1.2	2.1	Bumpout, Tree Trench	Streets			Delaware
50347	1594	1594-1	Mayfair Greening	02-Sep-25	1609	57	0.3	0.5	Tree Trench	Streets	$4,191,000		Delaware
		1594-10		24-Oct-25	5520	57	1.0	1.8	Tree Trench	Streets			Delaware
		1594-2		14-Aug-25	1647	57	0.3	0.6	Tree Trench	Streets			Delaware
		1594-3		02-Sep-25	4967	57	0.9	1.5	Tree Trench	Streets			Delaware
		1594-4		06-Jan-26	4687	57	0.9	1.4	Tree Trench	Streets			Delaware
		1594-5		02-Sep-25	1561	57	0.3	0.5	Tree Trench	Streets			Delaware
		1594-6		24-Oct-25	4161	57	0.8	1.3	Bumpout, Tree Trench	Streets			Delaware
		1594-7		03-Oct-25	3567	57	0.7	1.2	Bumpout, Tree Trench	Streets			Delaware
		1594-8		24-Oct-25	5590	57	1.1	1.8	Bumpout, Tree Trench	Streets			Delaware
		1594-9		06-Jan-26	8194	57	1.8	2.6	Bumpout, Tree Trench	Streets			Delaware
50358	1607	1607-1	Small Sites and ROW Connections Project	04-Jun-24	2178	6	0.4	0.8	Tree Trench	Streets	$880,000		Delaware,Schuylkill,TTF
		1607-2		20-Sep-24	918	6	0.3	0.3	Tree Trench	Streets			Delaware,Schuylkill,TTF
50366	1622	1622-11	Summerdale Streets 2	19-Jun-26	2466	65	0.6	0.8	Tree Trench	Schools	$5,512,000		Delaware
64056	564	564-1	Two (2) 30 Million Gallon Storage Capacity Tanks at East Park - GC	25-Feb-20	1637	0	0.5	0.6	Rain Garden	Open Space	Unknown	Southeastern Transportation Authority,Philadelphia Department of Parks & Recreation	Schuylkill
90055	1539	1539-1	Hydrant Relocation and Green Streets Buyback: 2035 E Lehigh Ave. & Frankford Ave.	23-Jul-21	3274	8	0.6	1.0	Tree Trench	Streets	Unknown	Riverwards LLC	Delaware
Total Greened Acres:								**1395**					

Appendix 2

Planned Public Green Stormwater Infrastructure Projects

Planned Public Green Infrastructure Reporting Metrics

The Public Planned Projects reporting format and metric definitions are described in Table 1 below.

Table 1: Public Reporting Metric Definitions

Metric	Definition
Work Number	Work Number is a unique assigned identifier from the CIPIT program. A CIPIT work number is attached to construction proposals, bids, work orders, contracts and invoices.
Project ID	This is a unique number, which is assigned automatically by the system when the project is created.
System Number	Unique identifier for system. Composed of the project ID and the System ID.
Completion Date Estimate	Estimated date of construction completion.
Status	Current project status. Statuses include: In Design, Contract Management (In Projects Control), and In Construction.
Greened Acres (acre-inch)	Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce storm water runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the storm water runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting.
Estimated SMP Type(s)	A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP.
Program	Current public programs which a greened acre can be assigned to include: • Alleys/Driveways • Campuses • Facilities • Industry and Business • Open Space • Parking • Schools • Streets • Vacant Land
Estimated Construction Cost	Projects with a status of Construction Complete will have a finalized cost of construction provided. Prior to construction completion PWD provides the engineers estimate for construction cost.
Potential Partner(s)	External entities involved in a project.

Metric	Definition
Watershed	The City of Philadelphia watershed where the project is located. Four of the City's seven watersheds fall at least partially within the combined sewer area. These watersheds are: • Cobbs Creek Watershed • Delaware Direct Watershed • Tookany/Tacony-Frankford Creek Watershed • Schuylkill River Watersheds

Table 2: Planned Public Green Stormwater Infrastructure Projects

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
20417	1061	1061-1	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	TBD
		1061-2	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	
		1061-3	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	
		1061-4	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	
		1061-5	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	
20496	1212	1212-1	Schuylkill	Streets	Design	Tree Trench		TBD	2029	$174,000
20538	1611		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20545	1586		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20579	1466		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20622	1523		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20651	1590		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20653	1581	1581-1	Delaware	Streets	Design	Tree Trench		TBD	2029	TBD
		1581-10	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-11	Delaware	Streets	Design	Infiltration/Storage Trench		TBD	2029	
		1581-2	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-3	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-4	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-5	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-6	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-7	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-8	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1581-9	Delaware	Streets	Design	Tree Trench		TBD	2029	
20662	1650		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20664	1624		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20681	1667		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
40780	1496		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
40875	1515	1515-1	Cobbs-Darby	Streets	Design	Tree Trench	-	TBD	2029	$269,000
40923	1244		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41033	1505		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41064	1452		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41072	1609		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41116	1601	1601-1	Schuylkill	Streets	Design	Infiltration/Storage Trench		TBD	2029	TBD
		1601-2	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1601-3	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
41117	1551		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41147	1623		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41148	1661		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41153	1595	1595-1	Schuylkill	Streets	Design	Tree Trench		TBD	2029	TBD
		1595-2	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1595-3	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1595-4	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1595-5	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
41166	1640		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41174	1678		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41179	1644		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41180	1614		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41181	1615		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41183	1679		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41187	1621		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41189	1629		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41191	1637		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
41199	1646		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41201	1654		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41203	1658		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41208	1666		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41211	1671		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41212	1677	1677-1	Schuylkill	Streets	Design	Tree Trench		TBD	2029	TBD
		1677-2	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1677-3	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1677-4	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1677-5	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
41220	1681		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41224	1691		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41228	1696		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41237	1711		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41240	1714		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41246	1726		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41250	1728		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41255	1730		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41256	1729		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41264	1745		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41273	1757		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41274	1758		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41277	1761		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41278	1762		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41279	1763		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
41283	1766		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50107	1052	1052-1	Cobbs-Darby,Schuylkill	Streets	Design	Infiltration/Storage Trench		TBD	2029	$4,700,000
		1052-10	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-11	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-12	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-13	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-14	Cobbs-Darby,Schuylkill	Streets	Design	Bumpout, Tree Trench		TBD	2029	
		1052-15	Cobbs-Darby,Schuylkill	Streets	Design	Infiltration/Storage Trench, Planter		TBD	2029	
		1052-2	Cobbs-Darby,Schuylkill	Streets	Design	Bumpout, Tree Trench		TBD	2029	
		1052-3	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-4	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-5	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-6	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-7	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-8	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1052-9	Cobbs-Darby,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
50169	1365		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50242	1404		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50265	1439	1439-1	Cobbs-Darby	Streets	Design	Infiltration/Storage Trench	-	TBD	2029	TBD
		1439-10	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-11	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-12	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-13	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-2	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-3	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-4	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-5	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
		1439-6	Cobbs-Darby	Streets	Design	Bumpout, Tree Trench		TBD	2029	
		1439-7	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-8	Cobbs-Darby	Streets	Design	Tree Trench		TBD	2029	
		1439-9	Cobbs-Darby	Streets	Design	Bumpout, Tree Trench		TBD	2029	
50294	1482		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50318	1528		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
		1548-1	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-10	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-11	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-12	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-13	Delaware,TTF	Streets	Design	Infiltration/Storage Trench, Swale		TBD	2029	
		1548-14	Delaware,TTF	Streets	Design	Infiltration/Storage Trench		TBD	2029	
		1548-15	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-16	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
50326	1548	1548-17	Delaware,TTF	Streets	Design	Tree Trench	-	TBD	2029	TBD
		1548-2	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-3	Delaware,TTF	Streets	Design	Bumpout, Tree Trench		TBD	2029	
		1548-4	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-5	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-6	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-7	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-8	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
		1548-9	Delaware,TTF	Streets	Design	Tree Trench		TBD	2029	
50328	1557		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50331	1564		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50333	1571		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50334	1570		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50336	1574		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
		1575-1	Delaware	Streets	Design	Infiltration/Storage Trench, Rain Garden, Tree Trench		TBD	2029	
		1575-10	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-11	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-2	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-3	Delaware	Streets	Design	Tree Trench		TBD	2029	
50337	1575	1575-4	Delaware	Streets	Design	Tree Trench		TBD	2029	$3,355,000
		1575-5	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-6	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-7	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-8	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1575-9	Delaware	Streets	Design	Tree Trench		TBD	2029	
50350	1598		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50351	1599		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
		1604-1	Schuylkill	Streets	Design	Bumpout, Infiltration/Storage Trench, Tree Trench		TBD	2029	
		1604-2	Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1604-3	Schuylkill	Schools	Design	Bumpout, Tree Trench		TBD	2029	
50355	1604	1604-4	Schuylkill	Schools	Design	Bumpout, Tree Trench		TBD	2029	$3,002,000
		1604-5	Schuylkill	Industry & Business	Design	Tree Trench		TBD	2029	
		1604-6	Schuylkill	Industry & Business	Design	Bumpout, Infiltration/Storage Trench, Tree Trench		TBD	2029	
		1604-7	Schuylkill	Industry & Business	Design	Bumpout, Tree Trench		TBD	2029	
50356	1605		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
		1606-1	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-10	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-11	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50357	1606	1606-12	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	$4,577,000
		1606-2	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-3	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-4	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-5	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-6	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-7	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-8	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
		1606-9	Delaware,Schuylkill	Streets	Design	Tree Trench		TBD	2029	
50359	1608	1608-1	Delaware	Streets	Design	Tree Trench		TBD	2029	$3,573,000
		1608-10	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-2	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-3	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-4	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-5	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-6	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-7	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-8	Delaware	Streets	Design	Tree Trench		TBD	2029	
		1608-9	Delaware	Streets	Design	Tree Trench		TBD	2029	
50360	1612		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50361	1613		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50362	1616		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50363	1618		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50365	1620		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50367	1626		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50368	1627		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50369	1628		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50370	1630		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50371	1632		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50372	1634		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50373	1635		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50374	1636		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50375	1638		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50376	1639		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50377	1641		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50378	1642		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50379	1645		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50380	1647		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50381	1648		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50382	1649		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50384	1655		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50385	1656		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50386	1659		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50387	1660		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50388	1662		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50389	1663		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50391	1665		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50392	1669		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50393	1670		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50395	1673		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50396	1674		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50397	1675		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50398	1676		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50400	1682		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50401	1683		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50402	1684		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50404	1687		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50405	1688		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50406	1689		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50407	1690		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50408	1692		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50409	1693		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50411	1694		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50412	1695		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50413	1697		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50414	1698		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50415	1701		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50416	1702		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50417	1703		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50418	1704		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50419	1705		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50420	1706		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50421	1707		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50423	1709		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50424	1710		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50425	1712		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50426	1713		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50428	1718		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50429	1720		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50430	1721		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50431	1722		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50432	1723		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50433	1724		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50435	1731		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50436	1732		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50437	1733		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50438	1735		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50439	1737		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50440	1738		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50441	1739		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50442	1740		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50444	1741		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50445	1742		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50446	1743		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50447	1744		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50448	1746		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50449	1747		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50450	1748		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50451	1749		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50452	1750		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50454	1754		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50455	1755		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50456	1756		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
50457	1759		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
70025	1751		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
71131	1769		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
71141	1753		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
90357	1672		TTF	Streets	Design	Stormwater TreeTrench		TBD	2029	TBD
20479	1451	1451-1	Delaware,TTF	Streets	Contract Management	Tree Trench	-	1.0	2028	$1,859,000
		1451-2	Delaware,TTF	Streets	Contract Management	Tree Trench		1.0	2028	
		1451-3	Delaware,TTF	Streets	Contract Management	Tree Trench		0.9	2028	
		1451-4	Delaware,TTF	Streets	Contract Management	Tree Trench		1.3	2028	
		1451-5	Delaware,TTF	Streets	Contract Management	Tree Trench		0.7	2028	
20485	1126	1126-1	Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	$464,000
		1126-2	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench		0.4	2028	
		1126-3	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench		0.4	2028	
		1126-4	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench		0.4	2028	
20562	1395	1395-1	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench	-	0.5	2028	$310,000
		1395-2	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench		0.3	2028	
20575	1465	1465-1	TTF	Streets	Contract Management	Infiltration/Storage Trench	-	0.8	2028	$818,000
		1465-2	TTF	Streets	Contract Management	Tree Trench		1.1	2028	
		1465-3	TTF	Streets	Contract Management	Infiltration/Storage Trench		1.0	2028	
		1465-4	TTF	Streets	Contract Management	Tree Trench		0.5	2028	
20588	1487	1487-2	TTF	Streets	Contract Management	Infiltration/Storage Trench	-	0.8	2028	$294,000
		1487-3	TTF	Streets	Contract Management	Infiltration/Storage Trench		0.6	2028	
20597	1543	1543-1	Schuylkill	Streets	Contract Management	Tree Trench	-	0.4	2028	$214,000
20604	1610	1610-1	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.9	2028	$568,000
20609	1484	1484-1	Delaware	Streets	Contract Management	Tree Trench	-	0.6	2028	$956,000
		1484-2	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1484-3	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
20614	1494	1494-1	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench	-	0.3	2028	$521,000
		1494-2	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	
20624	1530	1530-1	Delaware,TTF	Streets	Contract Management	Tree Trench	-	0.4	2028	$180,000
20625	1504	1504-1	TTF	Open Space	Contract Management	Tree Trench	-	0.7	2028	$155,000
20630	1547	1547-1	Delaware	Streets	Contract Management	Tree Trench	-	0.6	2028	$576,000
		1547-2	Delaware	Streets	Contract Management	Tree Trench		1.6	2028	
20636	1559	1559-1	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.5	2028	$294,000
20645	1576	1576-1	Delaware	Streets	Contract Management	Infiltration/Storage Trench		1.9	2028	$2,581,000
		1576-2	Delaware	Streets	Contract Management	Infiltration/Storage Trench		2.0	2028	
		1576-3	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	
		1576-4	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1576-5	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1576-6	Delaware	Streets	Contract Management	Tree Trench		1.2	2028	
20659	1617	1617-1	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	$580,000
		1617-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
20669	1657	1657-1	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	$1,093,000
		1657-2	Delaware	Streets	Contract Management	Tree Trench		0.9	2028	
		1657-3	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1657-4	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	
20680	1668	1668-1	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	TBD
		1668-2	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1668-3	Delaware	Streets	Contract Management	Tree Trench		1.0	2028	
		1668-4	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.5	2028	
40860	1443	1443-1	Schuylkill	Streets	Contract Management	Tree Trench	-	0.6	2028	$168,000
40880	1591	1591-1	TTF	Streets	Contract Management	Infiltration/Storage Trench		1.0	2028	$126,000
40965	1369	1369-1	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench		0.4	2028	$131,000

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
40975	1377	1377-1	Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	$264,000
40990	1355	1355-1	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.3	2028	$555,000
		1355-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1355-3	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
41049	1398	1398-1	Delaware	Streets	Contract Management	Tree Trench	-	0.6	2028	$626,000
41068	1407	1407-1	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.4	2028	$94,000
41071	1471	1471-1	Schuylkill	Streets	Contract Management	Tree Trench	-	0.5	2028	$752,000
		1471-2	Schuylkill	Streets	Contract Management	Tree Trench		1.2	2028	
41080	1506	1506-1	Schuylkill	Streets	Contract Management	Infiltration/Storage Trench	-	0.5	2028	$379,000
		1506-2	Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	
41098	1518	1518-1	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.8	2028	$1,214,000
		1518-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
		1518-3	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
		1518-4	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1518-5	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
41122	1514	1514-1	Delaware	Streets	Contract Management	Tree Trench	-	0.9	2028	$273,000
41124	1540	1540-1	TTF	Streets	Contract Management	Tree Trench	-	0.7	2028	$364,000
		1540-2	TTF	Streets	Contract Management	Tree Trench		0.4	2028	
41126	1549	1549-1	Delaware	Streets	Contract Management	Tree Trench	-	0.5	2028	$178,000
41135	1553	1553-1	Delaware	Streets	Contract Management	Tree Trench	-	0.7	2028	$513,000
		1553-2	Delaware	Streets	Contract Management	Tree Trench		0.5	2028	
		1553-3	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	
41137	1588	1588-1	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	$799,000
		1588-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
41140	1643	1643-1	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	$1,026,000
		1643-2	Cobbs-Darby,Schuylkill	Streets	Contract Management	Bumpout, Tree Trench		0.8	2028	
		1643-3	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	
41144	1596	1596-1	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	$795,000
		1596-2	Delaware	Streets	Contract Management	Tree Trench		0.3	2028	
		1596-3	Delaware	Streets	Contract Management	Tree Trench		1.0	2028	
41149	1555	1555-1	Schuylkill	Streets	Contract Management	Tree Trench	-	0.6	2028	$194,000
41164	1653	1653-1	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	$1,294,000
		1653-2	Delaware	Streets	Contract Management	Tree Trench		0.5	2028	
		1653-3	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	
		1653-4	Delaware	Streets	Contract Management	Tree Trench		0.5	2028	
		1653-5	Delaware	Streets	Contract Management	Tree Trench		0.3	2028	
41221	1686	1686-1	Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	$811,000
		1686-2	Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	
50141	1150	1150-1	TTF	Streets	Contract Management	Tree Trench		1.1	2028	$2,247,000
		1150-2	TTF	Streets	Contract Management	Tree Trench		0.3	2028	
		1150-3	TTF	Streets	Contract Management	Tree Trench		0.3	2028	
		1150-4	TTF	Streets	Contract Management	Tree Trench		0.7	2028	
		1150-5	TTF	Streets	Contract Management	Tree Trench		0.3	2028	
		1150-6	TTF	Streets	Contract Management	Tree Trench		0.3	2028	
		1150-7	TTF	Streets	Contract Management	Tree Trench		0.5	2028	
		1150-8	TTF	Streets	Contract Management	Tree Trench		0.4	2028	
		1150-9	TTF	Streets	Contract Management	Tree Trench		0.4	2028	
50253	1421	1421-1	Delaware,Schuylkill	Streets	Contract Management	Infiltration/Storage Trench	Philadelphia Redevelopment Authority (PRA)	0.6	2028	$1,038,000
		1421-2	Delaware,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1421-3	Delaware,Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1421-4	Delaware,Schuylkill	Streets	Contract Management	Tree Trench		0.2	2028	
50257	1428	1428-1	Delaware	Facilities	Contract Management	Infiltration/Storage Trench, Rain Garden	Department of Parks & Recreation (PPR)	0.9	2028	$599,000

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50259	1431	1431-3	Delaware	Open Space	Contract Management	Tree Trench	Commerce Department,Streets Department	1.4	2028	$1,051,000
		1431-4	Delaware	Open Space	Contract Management	Tree Trench		0.5	2028	
		1431-5	Delaware	Open Space	Contract Management	Tree Trench		0.7	2028	
50286	1473	1473-1	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.5	2028	$3,395,000
		1473-10	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.8	2028	
		1473-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.9	2028	
		1473-4	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.9	2028	
		1473-5	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.7	2028	
		1473-6	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.7	2028	
		1473-7	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1473-8	Cobbs-Darby	Streets	Contract Management	Tree Trench		1.1	2028	
		1473-9	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.9	2028	
50293	1481	1481-1	Delaware	Streets	Contract Management	Tree Trench	-	1.3	2028	$5,460,000
		1481-10	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.8	2028	
		1481-11	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.8	2028	
		1481-12	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.8	2028	
		1481-13	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1481-2	Delaware	Streets	Contract Management	Tree Trench		1.2	2028	
		1481-3	Delaware	Streets	Contract Management	Tree Trench		0.9	2028	
		1481-4	Delaware	Streets	Contract Management	Tree Trench		0.9	2028	
		1481-5	Delaware	Streets	Contract Management	Tree Trench		0.3	2028	
		1481-6	Delaware	Streets	Contract Management	Bumpout, Tree Trench		0.9	2028	
		1481-7	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.5	2028	
		1481-8	Delaware	Streets	Contract Management	Tree Trench		0.5	2028	
		1481-9	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.8	2028	
50303	1502	1502-1	Delaware	Streets	Contract Management	Bumpout, Tree Trench	-	1.4	2028	$3,629,000
		1502-2	Delaware	Streets	Contract Management	Bumpout, Tree Trench		0.8	2028	
		1502-3	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.7	2028	
		1502-4	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		1.2	2028	
		1502-5	Delaware	Streets	Contract Management	Infiltration/Storage Trench		1.0	2028	
		1502-6	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.7	2028	
		1502-7	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.8	2028	
		1502-8	Delaware	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		1.5	2028	
		1502-9	Delaware	Streets	Contract Management	Infiltration/Storage Trench		0.6	2028	
50307	1509	1509-1	Cobbs-Darby,Schuylkill	Streets	Contract Management	Infiltration/Storage Trench, Rain Garden	Department of Parks & Recreation (PPR)	1.4	2028	$4,341,000
		1509-10	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.3	2028	
		1509-11	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1509-12	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	
		1509-13	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.6	2028	
		1509-2	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	
		1509-3	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.6	2028	
		1509-4	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	
		1509-5	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1509-6	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.6	2028	
		1509-7	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.5	2028	
		1509-8	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1509-9	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1531-1	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
		1531-10	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1531-11	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
		1531-12	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.7	2028	
		1531-13	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50319	1531	1531-2	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.5	2028	$4,315,000
		1531-3	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1531-4	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
		1531-5	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.2	2028	
		1531-6	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.1	2028	
		1531-7	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.5	2028	
		1531-8	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.3	2028	
		1531-9	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
50323	1541	1541-1	Cobbs-Darby	Streets	Contract Management	Tree Trench	-	0.5	2028	$4,367,000
		1541-10	Cobbs-Darby	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.4	2028	
		1541-11	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
		1541-12	Cobbs-Darby	Streets	Contract Management	Tree Trench		1.0	2028	
		1541-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.8	2028	
		1541-3	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.3	2028	
		1541-4	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.8	2028	
		1541-5	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1541-6	Cobbs-Darby	Streets	Contract Management	Tree Trench		1.0	2028	
		1541-7	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.2	2028	
		1541-8	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		0.6	2028	
		1541-9	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
50324	1545	1545-1	Delaware,TTF	Open Space	Contract Management	Tree Trench	-	0.4	2028	$4,093,000
		1545-10	Delaware,TTF	Open Space	Contract Management	Bumpout, Infiltration/Storage Trench		0.9	2028	
		1545-11	Delaware,TTF	Open Space	Contract Management	Bumpout, Infiltration/Storage Trench		0.6	2028	
		1545-12	Delaware,TTF	Open Space	Contract Management	Bumpout, Infiltration/Storage Trench		0.5	2028	
		1545-2	Delaware,TTF	Open Space	Contract Management	Tree Trench		0.8	2028	
		1545-3	Delaware,TTF	Open Space	Contract Management	Tree Trench		1.4	2028	
		1545-4	Delaware,TTF	Open Space	Contract Management	Bumpout, Tree Trench		1.5	2028	
		1545-5	Delaware,TTF	Open Space	Contract Management	Bumpout, Tree Trench		1.4	2028	
		1545-6	Delaware,TTF	Open Space	Contract Management	Bumpout, Tree Trench		1.1	2028	
		1545-7	Delaware,TTF	Open Space	Contract Management	Infiltration/Storage Trench, Rain Garden		0.8	2028	
		1545-8	Delaware,TTF	Open Space	Contract Management	Tree Trench		0.5	2028	
		1545-9	Delaware,TTF	Open Space	Contract Management	Tree Trench		0.5	2028	
50335	1573	1573-1	Delaware	Streets	Contract Management	Rain Garden, Tree Trench	-	1.4	2028	$2,520,000
		1573-2	Delaware	Streets	Contract Management	Tree Trench		0.7	2028	
		1573-3	Delaware	Streets	Contract Management	Rain Garden, Tree Trench		0.7	2028	
		1573-4	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1573-5	Delaware	Streets	Contract Management	Tree Trench		0.6	2028	
		1573-6	Delaware	Streets	Contract Management	Tree Trench		0.4	2028	
50339	1578	1578-1	Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	$3,375,000
		1578-10	Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1578-11	Schuylkill	Streets	Contract Management	Bumpout, Tree Trench		0.5	2028	
		1578-2	Schuylkill	Streets	Contract Management	Bumpout, Tree Trench		1.3	2028	
		1578-3	Schuylkill	Streets	Contract Management	Tree Trench		1.2	2028	
		1578-4	Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1578-5	Schuylkill	Streets	Contract Management	Tree Trench		1.0	2028	
		1578-6	Schuylkill	Streets	Contract Management	Tree Trench		0.6	2028	
		1578-7	Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1578-8	Schuylkill	Streets	Contract Management	Tree Trench		0.6	2028	
		1578-9	Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1580-1	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.6	2028	
		1580-2	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
		1580-3	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50341	1580	1580-4	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.0	2028	$3,126,000
		1580-5	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.5	2028	
		1580-6	Cobbs-Darby	Streets	Contract Management	Tree Trench		0.4	2028	
		1580-7	Cobbs-Darby	Streets	Contract Management	Bumpout, Tree Trench		1.3	2028	
		1580-8	Cobbs-Darby	Streets	Contract Management	Bumpout, Infiltration/Storage Trench		0.9	2028	
50342	1583	1583-1	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		1.0	2028	$3,342,000
		1583-10	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.3	2028	
		1583-11	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1583-2	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1583-3	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		1.5	2028	
		1583-4	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.8	2028	
		1583-5	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
		1583-6	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.9	2028	
		1583-7	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.8	2028	
		1583-8	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.4	2028	
		1583-9	Cobbs-Darby,Schuylkill	Streets	Contract Management	Tree Trench		0.7	2028	
50344	1584	1584-1	Delaware	Streets	Contract Management	Tree Trench		1.4	2028	$4,248,000
		1584-10	Delaware	Streets	Contract Management	Tree Trench		4.1	2028	
		1584-2	Delaware	Streets	Contract Management	Tree Trench		0.7	2028	
		1584-3	Delaware	Streets	Contract Management	Tree Trench		0.7	2028	
		1584-4	Delaware	Streets	Contract Management	Tree Trench		0.7	2028	
		1584-5	Delaware	Streets	Contract Management	Tree Trench		0.8	2028	
		1584-6	Delaware	Streets	Contract Management	Tree Trench		1.3	2028	
		1584-7	Delaware	Streets	Contract Management	Tree Trench		1.0	2028	
		1584-8	Delaware	Streets	Contract Management	Tree Trench		1.0	2028	
		1584-9	Delaware	Streets	Contract Management	Tree Trench		1.0	2028	
50349	1597	1597-1	Cobbs-Darby	Vacant Land	Contract Management	Infiltration/Storage Trench, Rain Garden		5.4	2028	$1,509,000
50352	1600	1600-1	Delaware	Open Space	Contract Management	Tree Trench		1.4	2028	$4,164,000
		1600-2	Delaware	Open Space	Contract Management	Tree Trench		1.1	2028	
		1600-3	Delaware	Open Space	Contract Management	Bumpout, Tree Trench		1.0	2028	
		1600-4	Delaware	Open Space	Contract Management	Bumpout, Tree Trench		1.2	2028	
		1600-5	Delaware	Open Space	Contract Management	Bumpout, Tree Trench		1.4	2028	
		1600-6	Delaware	Open Space	Contract Management	Infiltration/Storage Trench		1.0	2028	
		1600-7	Delaware	Open Space	Contract Management	Tree Trench		0.8	2028	
		1600-8	Delaware	Open Space	Contract Management	Tree Trench		1.1	2028	
20464	1381	1381-1	TTF,Wissahickon	Streets	Construction	Infiltration/Storage Trench		0.8	2027	$346,000
		1381-2	TTF,Wissahickon	Streets	Construction	Infiltration/Storage Trench		0.4	2027	
20472	1040	1040-1	Schuylkill	Streets	Construction	Tree Trench		0.4	2027	$344,000
20487	1133	1133-1	Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.5	2027	$591,000
		1133-2	Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.6	2027	
20517	1418	1418-1	TTF	Streets	Construction	Tree Trench	-	0.7	2027	$751,000
		1418-2	TTF	Streets	Construction	Infiltration/Storage Trench		1.0	2027	
		1418-3	TTF	Streets	Construction	Tree Trench		0.4	2027	
20536	1330	1330-2	TTF	Streets	Construction	Infiltration/Storage Trench		0.3	2027	$1,071,000
		1330-3	TTF	Streets	Construction	Tree Trench		0.7	2027	
		1330-4	TTF	Streets	Construction	Tree Trench		0.8	2027	
		1330-5	TTF	Streets	Construction	Infiltration/Storage Trench		0.8	2027	
20552	1489	1489-1	Delaware	Streets	Construction	Tree Trench	-	1.2	2027	$1,453,000
		1489-2	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1489-3	Delaware	Streets	Construction	Tree Trench		1.4	2027	
		1489-4	Delaware	Streets	Construction	Tree Trench		0.4	2027	
20558	1376	1376-1	TTF	Streets	Construction	Infiltration/Storage Trench		0.7	2027	$213,000

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
20564	1419	1419-1	TTF	Facilities	Construction	Infiltration/Storage Trench	-	0.6	2027	$1,643,000
		1419-2	TTF	Facilities	Construction	Infiltration/Storage Trench		0.6	2027	
		1419-3	TTF	Facilities	Construction	Infiltration/Storage Trench		0.5	2027	
		1419-4	TTF	Facilities	Construction	Infiltration/Storage Trench		1.0	2027	
		1419-5	TTF	Facilities	Construction	Infiltration/Storage Trench		0.6	2027	
		1419-6	TTF	Vacant Land	Construction	Infiltration/Storage Trench		0.4	2027	
		1419-7	TTF	Industry & Business	Construction	Infiltration/Storage Trench		0.7	2027	
20573	1479	1479-1	Delaware	Streets	Construction	Tree Trench	-	0.8	2027	$322,000
20583	1470	1470-1	TTF	Facilities	Construction	Infiltration/Storage Trench	-	0.3	2027	$1,439,000
		1470-2	TTF	Schools	Construction	Infiltration/Storage Trench		0.7	2027	
		1470-3	TTF	Facilities	Construction	Infiltration/Storage Trench		0.5	2027	
		1470-4	TTF	Facilities	Construction	Infiltration/Storage Trench		0.5	2027	
		1470-5	TTF	Facilities	Construction	Infiltration/Storage Trench		0.7	2027	
20587	1589	1589-1	Schuylkill	Streets	Construction	Tree Trench		0.4	2027	$874,000
		1589-2	Schuylkill	Streets	Construction	Tree Trench		0.8	2027	
40736	236	236-1	Delaware	Streets	Construction	Infiltration/Storage Trench, Planter		0.3	2027	$1,099,000
		236-2	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		236-3	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		236-4	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		236-5	Delaware	Streets	Construction	Tree Trench		0.4	2027	
40899	1219	1219-1	Delaware	Streets	Construction	Tree Trench		0.5	2027	$277,000
40904	1134	1134-1	Delaware	Streets	Construction	Tree Trench		0.3	2027	$288,000
		1134-2	Delaware	Streets	Construction	Infiltration/Storage Trench		0.5	2027	
40908	1370	1370-1	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.5	2027	$841,000
		1370-2	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.3	2027	
		1370-3	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.4	2027	
		1370-4	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.3	2027	
		1370-5	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.3	2027	
40922	1238	1238-1	Delaware	Streets	Construction	Infiltration/Storage Trench		0.4	2027	$892,000
		1238-2	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1238-3	Delaware	Streets	Construction	Infiltration/Storage Trench		0.8	2027	
40933	1521	1521-1	Delaware	Streets	Construction	Tree Trench	-	0.6	2027	$646,000
		1521-2	Delaware	Streets	Construction	Tree Trench		0.9	2027	
40939	1331	1331-2	Delaware	Streets	Construction	Tree Trench		0.4	2027	$530,000
		1331-3	Delaware	Streets	Construction	Tree Trench		0.4	2027	
40951	1280	1280-1	Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.5	2027	$273,000
40989	1340	1340-1	Pennypack	Streets	Construction	Tree Trench		0.4	2027	$1,460,000
		1340-2	Pennypack	Streets	Construction	Tree Trench		0.4	2027	
		1340-3	Pennypack	Streets	Construction	Tree Trench		0.5	2027	
		1340-4	Pennypack	Streets	Construction	Tree Trench		0.5	2027	
		1340-5	Pennypack	Streets	Construction	Tree Trench		0.3	2027	
41008	1402	1402-1	Schuylkill	Streets	Construction	Tree Trench	-	0.3	2027	$378,000
41070	1435	1435-1	Delaware,Schuylkill	Streets	Construction	Tree Trench	Delaware Valley Regional Planning Commission (DVRPC),Philadelphia Free Library	0.5	2027	$833,000
		1435-2	Delaware,Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
		1435-3	Delaware,Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
41103	1492	1492-1	Schuylkill	Streets	Construction	Tree Trench	-	1.1	2027	$389,000
41105	1497	1497-1	Cobbs-Darby	Streets	Construction	Tree Trench	-	0.5	2027	$306,000
50139	1147	1147-1	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.4	2027	$3,671,000
		1147-10	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.3	2027	
		1147-11	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.3	2027	
		1147-2	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench, Rain Garden		3.9	2027	
		1147-3	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.4	2027	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
		1147-4	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.3	2027	
		1147-5	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench, Rain Garden		0.9	2027	
		1147-8	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.3	2027	
		1147-9	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.4	2027	
50176	1283	1283-1	Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.5	2027	$4,519,000
		1283-11	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.4	2027	
		1283-14	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1283-3	Schuylkill	Streets	Construction	Tree Trench		0.3	2027	
		1283-4	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.5	2027	
		1283-6	Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
		1283-7	Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
50190	1308	1308-2	Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.9	2027	$1,201,000
50206	1343	1343-7	Schuylkill	Streets	Construction	Bumpout, Infiltration/Storage Trench	Drexel University	1.6	2027	$2,547,000
50243	1405	1405-10	Schuylkill	Streets	Construction	Bumpout, Tree Trench	-	0.7	2027	$3,606,000
		1405-11	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.4	2027	
		1405-12	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.7	2027	
		1405-4	Schuylkill	Streets	Construction	Tree Trench		1.0	2027	
		1405-5	Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
		1405-6	Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1405-7	Schuylkill	Streets	Construction	Tree Trench		0.8	2027	
		1405-8	Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
		1405-9	Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
50248	1414	1414-1	Schuylkill	Streets	Construction	Tree Trench	-	0.7	2027	$2,588,000
		1414-2	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1414-3	Schuylkill	Streets	Construction	Tree Trench		1.3	2027	
		1414-4	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.8	2027	
		1414-5	Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.9	2027	
50268	1442	1442-1	TTF	Streets	Construction	Inlet Disconnection	PennDOT	1.3	2027	TBD
		1442-10	TTF	Streets	Construction	Inlet Disconnection		0.3	2027	
		1442-11	TTF	Streets	Construction	Inlet Disconnection		0.1	2027	
		1442-12	TTF	Streets	Construction	Inlet Disconnection		0.7	2027	
		1442-13	TTF	Streets	Construction	Inlet Disconnection		0.5	2027	
		1442-2	TTF	Streets	Construction	Inlet Disconnection		1.1	2027	
		1442-3	TTF	Streets	Construction	Inlet Disconnection		0.7	2027	
		1442-4	TTF	Streets	Construction	Inlet Disconnection		0.5	2027	
		1442-5	TTF	Streets	Construction	Inlet Disconnection		0.2	2027	
		1442-6	TTF	Streets	Construction	Inlet Disconnection		0.5	2027	
		1442-7	TTF	Streets	Construction	Inlet Disconnection		0.2	2027	
		1442-8	TTF	Streets	Construction	Inlet Disconnection		0.6	2027	
		1442-9	TTF	Streets	Construction	Inlet Disconnection		0.7	2027	
50270	1445	1445-1	Delaware	Open Space	Construction	Infiltration/Storage Trench, Rain Garden	Streets Department,Department of Public Property (DPP),Neighborhood Gardens Trust (NGT)	1.0	2027	$1,837,000
		1445-2	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1445-3	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1445-4	Delaware	Streets	Construction	Tree Trench		0.4	2027	
50274	1449	1449-10	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench	-	0.7	2027	$6,037,000
		1449-2	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1449-3	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1449-5	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		1.0	2027	
50287	1474	1474-1	Schuylkill	Streets	Construction	Rain Garden, Tree Trench	-	3.5	2027	$2,928,000
		1474-2	Schuylkill	Streets	Construction	Infiltration/Storage Trench, Tree Trench		0.7	2027	
		1474-3	Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1474-4	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50292	1480	1480-1	Cobbs-Darby,Schuylkill	Streets	Construction	Infiltration/Storage Trench	-	1.0	2027	$4,760,000
		1480-2	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
		1480-3	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.7	2027	
		1480-4	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		1.9	2027	
		1480-5	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Tree Trench		1.0	2027	
		1480-6	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.3	2027	
		1480-7	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		1.0	2027	
		1480-8	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Tree Trench		1.5	2027	
		1480-9	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Tree Trench		2.2	2027	
50297	1490	1490-1	Delaware	Streets	Construction	Bumpout, Infiltration/Storage Trench	-	3.0	2027	$4,922,000
		1490-10	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1490-11	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1490-9	Delaware	Streets	Construction	Bumpout, Tree Trench		1.5	2027	
50300	1498	1498-1	Delaware	Open Space	Construction	Tree Trench	-	0.5	2027	$2,462,000
		1498-2	Delaware	Open Space	Construction	Bumpout, Tree Trench		0.9	2027	
		1498-3	Delaware	Open Space	Construction	Bumpout, Infiltration/Storage Trench		0.4	2027	
		1498-4	Delaware	Open Space	Construction	Bumpout, Tree Trench		1.0	2027	
		1498-5	Delaware	Open Space	Construction	Bumpout, Infiltration/Storage Trench		0.5	2027	
		1498-6	Delaware	Open Space	Construction	Tree Trench		0.4	2027	
		1498-7	Delaware	Open Space	Construction	Tree Trench		1.0	2027	
50304	1503	1503-10	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench	-	0.5	2027	$4,797,000
		1503-11	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.9	2027	
		1503-12	Cobbs-Darby,Schuylkill	Streets	Construction	Bumpout, Tree Trench		0.6	2027	
		1503-5	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
		1503-6	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.8	2027	
		1503-7	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1503-8	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1503-9	Cobbs-Darby,Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
50309	1512	1512-1	Delaware	Streets	Construction	Tree Trench	-	0.6	2027	$3,793,000
		1512-10	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1512-2	Delaware	Streets	Construction	Tree Trench		1.3	2027	
		1512-3	Delaware	Streets	Construction	Tree Trench		1.1	2027	
		1512-4	Delaware	Streets	Construction	Tree Trench		1.4	2027	
		1512-5	Delaware	Streets	Construction	Tree Trench		0.7	2027	
		1512-6	Delaware	Streets	Construction	Infiltration/Storage Trench		0.8	2027	
		1512-7	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1512-8	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1512-9	Delaware	Streets	Construction	Tree Trench		0.5	2027	
50310	1513	1513-1	Schuylkill	Streets	Construction	Tree Trench	-	0.7	2027	$1,546,000
		1513-2	Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
		1513-3	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1513-4	Schuylkill	Streets	Construction	Infiltration/Storage Trench		0.3	2027	
		1513-5	Schuylkill	Streets	Construction	Tree Trench		0.3	2027	
		1513-6	Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
50313	1519	1519-1	Delaware	Streets	Construction	Bumpout, Infiltration/Storage Trench	-	0.5	2027	$3,935,000
		1519-10	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1519-11	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1519-12	Delaware	Streets	Construction	Tree Trench		0.6	2027	
		1519-13	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1519-2	Delaware	Streets	Construction	Bumpout, Tree Trench		0.6	2027	
		1519-3	Delaware	Streets	Construction	Bumpout, Tree Trench		1.5	2027	
		1519-4	Delaware	Streets	Construction	Bumpout, Tree Trench		0.6	2027	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
		1519-5	Delaware	Streets	Construction	Bumpout, Tree Trench		0.6	2027	
		1519-6	Delaware	Streets	Construction	Bumpout, Infiltration/Storage Trench		0.6	2027	
		1519-7	Delaware	Streets	Construction	Bumpout, Tree Trench		0.6	2027	
		1519-8	Delaware	Streets	Construction	Bumpout, Tree Trench		0.6	2027	
		1519-9	Delaware	Streets	Construction	Bumpout, Tree Trench		0.5	2027	
50314	1522	1522-1	Schuylkill	Streets	Construction	Tree Trench	-	0.6	2027	$3,532,000
		1522-10	Schuylkill	Streets	Construction	Tree Trench		1.4	2027	
		1522-11	Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1522-12	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
		1522-2	Schuylkill	Streets	Construction	Tree Trench		0.8	2027	
		1522-3	Schuylkill	Streets	Construction	Tree Trench		1.1	2027	
		1522-4	Schuylkill	Streets	Construction	Tree Trench		0.9	2027	
		1522-5	Schuylkill	Streets	Construction	Tree Trench		0.4	2027	
		1522-6	Schuylkill	Streets	Construction	Tree Trench		0.5	2027	
		1522-7	Schuylkill	Streets	Construction	Tree Trench		0.7	2027	
		1522-8	Schuylkill	Streets	Construction	Tree Trench		0.8	2027	
		1522-9	Schuylkill	Streets	Construction	Tree Trench		0.6	2027	
50321	1537	1537-1	TTF	Streets	Construction	Tree Trench	-	0.4	2027	$2,100,000
		1537-2	TTF	Streets	Construction	Tree Trench		0.5	2027	
		1537-3	TTF	Streets	Construction	Tree Trench		0.4	2027	
		1537-4	TTF	Streets	Construction	Tree Trench		0.4	2027	
		1537-5	TTF	Streets	Construction	Tree Trench		0.5	2027	
		1537-6	TTF	Streets	Construction	Infiltration/Storage Trench		0.5	2027	
		1537-7	TTF	Streets	Construction	Infiltration/Storage Trench		0.5	2027	
50322	1538	1538-1	TTF	Streets	Construction	Tree Trench	-	0.8	2027	$3,585,000
		1538-2	TTF	Streets	Construction	Tree Trench		1.0	2027	
		1538-3	TTF	Streets	Construction	Tree Trench		0.9	2027	
		1538-4	TTF	Streets	Construction	Tree Trench		0.8	2027	
		1538-5	TTF	Streets	Construction	Tree Trench		0.4	2027	
		1538-6	TTF	Streets	Construction	Tree Trench		0.6	2027	
		1538-7	TTF	Streets	Construction	Tree Trench		0.8	2027	
		1538-8	TTF	Streets	Construction	Tree Trench		0.9	2027	
50330	1561	1561-1	Delaware	Streets	Construction	Tree Trench	-	0.8	2027	$3,536,000
		1561-2	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1561-3	Delaware	Streets	Construction	Tree Trench		1.0	2027	
		1561-4	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1561-5	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1561-6	Delaware	Streets	Construction	Tree Trench		1.0	2027	
		1561-7	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1561-8	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1561-9	Delaware	Streets	Construction	Tree Trench		1.3	2027	
50332	1568	1568-1	Delaware	Streets	Construction	Tree Trench	-	0.4	2027	$2,946,000
		1568-10	Delaware	Streets	Construction	Tree Trench		0.7	2027	
		1568-11	Delaware	Streets	Construction	Tree Trench		0.6	2027	
		1568-2	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1568-3	Delaware	Streets	Construction	Infiltration/Storage Trench		0.4	2027	
		1568-4	Delaware	Streets	Construction	Tree Trench		1.6	2027	
		1568-5	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1568-6	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1568-7	Delaware	Streets	Construction	Tree Trench		1.5	2027	
		1568-8	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1568-9	Delaware	Streets	Construction	Tree Trench		0.8	2027	

Work Number	Project ID	System Number	Watershed	Program	Status	Estimated SMP Type(s)	Potential Partner(s)	Greened Acres (acre-inches)	Completion Date Estimate	Estimated Green Construction Cost
50338	1577	1577-1	Delaware,Pennypack	Open Space	Construction	Tree Trench		1.2	2027	$4,547,000
		1577-2	Delaware,Pennypack	Open Space	Construction	Infiltration/Storage Trench		1.7	2027	
		1577-3	Delaware,Pennypack	Open Space	Construction	Infiltration/Storage Trench		1.7	2027	
		1577-4	Delaware,Pennypack	Open Space	Construction	Infiltration/Storage Trench		1.2	2027	
		1577-5	Delaware,Pennypack	Open Space	Construction	Tree Trench		0.6	2027	
		1577-6	Delaware,Pennypack	Open Space	Construction	Tree Trench		0.8	2027	
		1577-7	Delaware,Pennypack	Open Space	Construction	Tree Trench		0.5	2027	
		1577-8	Delaware,Pennypack	Open Space	Construction	Tree Trench		0.5	2027	
		1577-9	Delaware,Pennypack	Open Space	Construction	Tree Trench		0.5	2027	
50353	1602	1602-1	Delaware	Streets	Construction	Tree Trench		1.2	2027	$3,370,000
		1602-2	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1602-3	Delaware	Streets	Construction	Tree Trench		1.0	2027	
		1602-4	Delaware	Streets	Construction	Tree Trench		1.1	2027	
		1602-5	Delaware	Streets	Construction	Tree Trench		2.1	2027	
		1602-6	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1602-7	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1602-8	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1602-9	Delaware	Streets	Construction	Tree Trench		0.5	2027	
50364	1619	1619-1	Delaware	Streets	Construction	Tree Trench		0.9	2027	$5,833,000
		1619-10	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1619-11	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1619-12	Delaware	Streets	Construction	Tree Trench		2.3	2027	
		1619-13	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1619-2	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1619-3	Delaware	Streets	Construction	Tree Trench		1.3	2027	
		1619-4	Delaware	Streets	Construction	Tree Trench		0.8	2027	
		1619-5	Delaware	Streets	Construction	Tree Trench		1.0	2027	
		1619-6	Delaware	Streets	Construction	Tree Trench		0.9	2027	
		1619-7	Delaware	Streets	Construction	Tree Trench		0.6	2027	
		1619-8	Delaware	Streets	Construction	Tree Trench		0.5	2027	
		1619-9	Delaware	Streets	Construction	Tree Trench		0.5	2027	
50366	1622	1622-1	Delaware	Streets	Construction	Tree Trench		0.3	2027	$5,512,000
		1622-10	Delaware	Streets	Construction	Tree Trench		0.7	2027	
		1622-12	Delaware	Schools	Construction	Bumpout, Infiltration/Storage Trench		0.7	2027	
		1622-13	Delaware	Schools	Construction	Bumpout, Tree Trench		1.1	2027	
		1622-2	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1622-3	Delaware	Streets	Construction	Tree Trench		0.6	2027	
		1622-4	Delaware	Streets	Construction	Tree Trench		1.3	2027	
		1622-5	Delaware	Streets	Construction	Tree Trench		1.3	2027	
		1622-6	Delaware	Streets	Construction	Tree Trench		1.0	2027	
		1622-7	Delaware	Streets	Construction	Tree Trench		0.7	2027	
		1622-8	Delaware	Streets	Construction	Tree Trench		1.2	2027	
		1622-9	Delaware	Streets	Construction	Tree Trench		0.6	2027	
64084	1699	1699-1	Schuylkill	Facilities	Construction	Infiltration/Storage Trench		2.0	2027	TBD
90188	1582	1582-1	Delaware	Streets	Construction	Tree Trench		0.4	2027	TBD
		1582-2	Delaware	Streets	Construction	Tree Trench		0.3	2027	
		1582-3	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1582-4	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1582-5	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1582-6	Delaware	Streets	Construction	Tree Trench		0.4	2027	
		1582-7	Delaware	Streets	Construction	Tree Trench		0.3	2027	
Total Greened Acres:								**381**		

Appendix 3

Completed Private Development and Incentivized Green Stormwater Infrastructure Projects

Completed Private Development and Incentivized Green Stormwater Infrastructure Reporting Metrics

The reporting format and metric definitions are described in Table 1 below.

Table 1: Private/Incentives Reporting Metric Definitions

Metric	Definition
Tracking Number	Tracking Number is a unique assigned identifier from the SPRITE application.
Watershed	The City of Philadelphia watershed where the project is located. Six of the City's eight watersheds fall at least partially within the combined sewer area. These watersheds are: • Cobbs Creek Watershed • Darby Creek Watershed • Delaware Direct Watershed • Pennypack Creek Watershed • Tookany/Tacony-Frankford Creek Watershed • Schuylkill River Watershed
SMP Type(s)	A Stormwater Management Practice (SMP) is a technique that controls the rate and volume of stormwater runoff and/or improves runoff water quality. Multiple SMP types can be grouped together in a larger GSI system. The SMP types were originally defined in Table 2-1 of the IAMP.
Greened Acres (acre-inch)	Greened Acres is a metric that accounts for the conversion of a highly impervious urban landscape through the implementation of projects that reduce stormwater runoff. A Greened Acre is described as an acre of impervious cover connected (tributary) to a combined sewer that subsequently is reconfigured to utilize green stormwater infrastructure to manage at least one inch of stormwater runoff. If storage is provided, systems can credit up to two inches of the stormwater runoff from that acre. The best available Greened Acre value is pulled from the database for regulatory reporting.

Table 2: Private/Incentives SMP Type Definitions

Private / Incentives SMP Type Definitions	
Basin	Includes surface basins or depressions that are vegetated with mowed grass and subsurface infiltration and detention basins. In both cases, the basins are designed to detain and release stormwater runoff and/or infiltrate where feasible.
Bioinfiltration / Bioretention	A bioinfiltration/bioretention basin is a vegetated basin or depression designed to either infiltrate or release stormwater runoff.
Blue Roof	A blue roof is a storage system designed into a roof surface such that the roof retains stormwater. Blue roofs are designed to reduce the rate of stormwater runoff.
Cistern	Storage tanks (located either above or below ground) that capture and store runoff and can thereby reduce runoff volume. Stored water may drain by gravity or be pumped to its ultimate end use for a variety of non-potable water needs.

Private / Incentives SMP Type Definitions	
Depave	Depaving projects remove existing impervious pavement and restore the surface with grass, other types of vegetation, or loose materials (stone, mulch, etc.) such that the area can thereafter be considered pervious area. Depaving projects remove contributing impervious area from the sewer system. Categorized as a Disconnection and logged in square feet.
Disconnected Impervious Area	Impervious area that discharges to a pervious area. These types could be any of the following: Pavement - Runoff is designed to be directed to a vegetated area that allows for infiltration, filtration, and an increased time of concentration. Planters - At or above grade planter area and number of planters that do not contribute to water quality. Rooftop Area - Rooftop drainage directed to a vegetated area that allows for infiltration, filtration, and increased time of concentration. Tree Credit - New or existing tree canopy from an approved species list that extends over, or is in close proximity to, impervious area.
Green Roof	Vegetated surface installed over a roof surface. Green roofs are effective in reducing the volume and rates of stormwater runoff.
Porous Pavement	Permeable surface commonly composed of concrete, asphalt, pavers, turf, or rubber play surface. Stormwater flows through the porous surface during a rain event, then drains into the subbase beneath the pavement, where it is stored until it infiltrates into the soil.
WQ Treatment Device	Filter products that reduce pollutant levels by removing sediments, metals, hydrocarbons, and other pollutants from stormwater.

Table 3: Completed Private Development Green Stormwater Infrastructure Projects

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2005-0052-01	Combined	Verified	Lower Schuylkill River	19139	Subsurface Infiltration Basin (2)	3.6
2005-0099-01	Combined	Verified	Lower Schuylkill River	19131	Surface Infiltration Basin (1)	38
2006-0017-01	Combined	Verified	Lower Schuylkill River	19142	Porous Surface (1), Subsurface Infiltration Basin (1)	1.5
2006-0057-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	0
2006-0063-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	3.3
2006-0110-01	Combined	Verified	Delaware Direct	19140	Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	1
2006-30TH-236-01	Combined	Verified	Lower Schuylkill River	19104	Surface Infiltration Basin (1)	0.6
2006-9349-349-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	0.1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2006-94-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (3)	2.2
2006-ANGE-268-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Infiltration Basin (2)	1.3
2006-BRID-200-01	Combined	Verified	Delaware Direct	19137	Disconnections (1), Subsurface Infiltration Basin (16)	0.7
2006-CCPO-276-01	Combined	Verified	Delaware Direct	19122	Surface Detention Basin (1), Surface Infiltration Basin (1)	4.5
2006-CINT-431-01	Combined	Verified	Lower Schuylkill River	19131	Surface Detention Basin (1)	9.5
2006-COMM-328-01	Combined	Verified	Cobbs Creek	19139	Cistern (1), Porous Surface (2), Subsurface Detention Basin (1)	0.9
2006-EDWI-215-01	Combined	Verified	Delaware Direct	19136	Disconnections (1), Subsurface Detention Basin (3), Subsurface Infiltration Basin (1)	0.8
2006-FEDE-409-01	Combined	Verified	Delaware Direct	19106	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.3
2006-GENE-192-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Detention Basin (2)	0.3
2006-HUNT-445-01	Combined	Verified	Delaware Direct	19133	Porous Surface (48), Subsurface Infiltration Basin (48)	2
2006-LAWT-291-01	Combined	Verified	Delaware Direct	19135	Subsurface Detention Basin (1)	1.2
2006-LE22-460-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Porous Surface (2), Subsurface Infiltration Basin (1)	1
2006-MARS-381-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Detention Basin (1)	0.1
2006-MARS-407-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Detention Basin (1)	0
2006-MICH-419-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
2006-MOOR-320-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (2), Subsurface Infiltration Basin (1)	0.5
2006-NATI-441-01	Combined	Verified	Delaware Direct	19106	Subsurface Detention Basin (1)	0.5
2006-OVER-462-01	Combined	Verified	Lower Schuylkill River	19151	Subsurface Infiltration Basin (1)	1.8
2006-PILG-444-01	Combined	Verified	Delaware Direct	19111	Subsurface Infiltration Basin (2)	1.4
2006-PREF-176-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1)	1.6
2006-PROG-400-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (2)	5.5
2006-PROP-233-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Infiltration Basin (1)	1.8
2006-SAFE-234-01	Combined	Verified	Delaware Direct	19134	Bioretention (1), Subsurface Detention Basin (1)	0.6

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2006-SAMU-440-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (3), Surface Detention Basin (3)	0.9
2006-SOLI-300-01	Combined	Verified	Delaware Direct	19149	Bioretention (1), Subsurface Infiltration Basin (1)	2.7
2006-TACO-337-01	Combined	Verified	Delaware Direct	19149	Subsurface Infiltration Basin (1)	0.3
2006-TEMP-210-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1)	0.6
2006-TEMP-245-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (2)	1.3
2006-VAUX-338-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (1)	1.3
2006-VILL-194-01	Combined	Verified	Lower Schuylkill River	19145	Disconnections (1), Subsurface Infiltration Basin (9), Surface Detention Basin (3), Surface Infiltration Basin (1)	26.8
2007-4839-625-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1)	0.9
2007-AROU-626-01	Combined	Verified	Tacony-Frankford Creek	19144	Subsurface Infiltration Basin (1)	0.6
2007-BENC-482-01	Combined	Verified	Tacony-Frankford Creek	19124	Porous Surface (1), Subsurface Detention Basin (1)	1.2
2007-CECI-556-01	Combined	Verified	Delaware Direct	19121	Subsurface Detention Basin (54)	1.1
2007-DREX-669-01	Combined	Verified	Lower Schuylkill River	19104	Cistern (1), Disconnections (1), Porous Surface (1)	0.8
2007-GAMB-624-01	Combined	Verified	Tacony-Frankford Creek	19124	Porous Surface (1)	0.1
2007-GAMB-701-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioinfiltration (1), Disconnections (1), Porous Surface (2)	1.7
2007-GUIO-721-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (1)	1.4
2007-HERR-690-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Porous Surface (3)	0.6
2007-HOWI-498-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Detention Basin (1)	0.3
2007-LASA-593-01	Combined	Verified	Tacony-Frankford Creek	19144	Disconnections (2), Porous Surface (2), Subsurface Infiltration Basin (4)	12.2
2007-MCDO-558-01	Combined	Verified	Delaware Direct	19133	Subsurface Detention Basin (1)	0.5
2007-MCDO-560-01	Combined	Verified	Delaware Direct	19135	Subsurface Detention Basin (1)	0.1
2007-MTTA-480-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Porous Surface (1)	0.3
2007-NELL-504-01	Combined	Verified	Lower Schuylkill River	19121	Green Roof (1), Subsurface Detention Basin (1)	0.9

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2007-PASH-524-01	Combined	Verified	Cobbs Creek	19142	Subsurface Infiltration Basin (1)	0.8
2007-POWE-679-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1)	0.4
2007-SIMO-496-01	Combined	Verified	Tacony-Frankford Creek	19138	Bioinfiltration (1), Porous Surface (1)	0.9
2007-SOUT-557-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1)	0.1
2007-THEM-495-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1), Surface Detention Basin (1)	6.4
2007-UNIV-633-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1)	0.4
2007-WARN-646-01	Combined	Verified	Delaware Direct	19133	Subsurface Infiltration Basin (1)	2.9
2007-WARN-651-01	Combined	Verified	Delaware Direct	19133	Subsurface Infiltration Basin (1)	2.7
2007-WEST-684-01	Combined	Verified	Cobbs Creek	19139	Disconnections (1), Subsurface Detention Basin (1)	0
2007-WILL-699-01	Combined	Verified	Delaware Direct	19134	Bioretention (9), Subsurface Detention Basin (1)	5
2008-1600-898-01	Combined	Verified	Delaware Direct	19122	Bioretention (1)	0.5
2008-20UN-767-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1)	0.4
2008-2116-992-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (2), Disconnections (1), Green Roof (2), Surface Detention Basin (3)	0.5
2008-2552-873-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	0.7
2008-4014-979-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Infiltration Basin (1)	0.8
2008-BARN-986-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Green Roof (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	4.4
2008-CAST-875-01	Combined	Verified	Delaware Direct	19149	Subsurface Detention Basin (1)	0
2008-CLAS-765-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (2)	0.5
2008-COMM-763-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Green Roof (1), Porous Surface (2), Subsurface Infiltration Basin (3)	2.6
2008-DREX-788-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (2), Porous Surface (1), Subsurface Infiltration Basin (1)	1.5
2008-DREX-950-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (2), Green Roof (1), Subsurface Detention Basin (1)	0.2

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2008-FRAN-921-01	Combined	Verified	Lower Schuylkill River	19104	Porous Surface (2)	0.3
2008-FRAN-994-01	Combined	Verified	Delaware Direct	19130	Porous Surface (1), Subsurface Infiltration Basin (7)	1.6
2008-MART-980-01	Combined	Verified	Delaware Direct	19147	Subsurface Infiltration Basin (1)	0.6
2008-NAVA-893-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Infiltration Basin (6)	9.7
2008-NEWK-958-01	Combined	Verified	Delaware Direct	19122	Bioinfiltration (1), Green Roof (1), Porous Surface (2), Subsurface Detention Basin (2)	5.2
2008-NEWL-839-01	Combined	Verified	Delaware Direct	19140	Subsurface Infiltration Basin (1)	0.5
2008-NORT-1012-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (1)	0.5
2008-PROP-824-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1), Porous Surface (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	6.2
2008-ROLA-813-01	Combined	Verified	Tacony-Frankford Creek	19141	Green Roof (2), Subsurface Infiltration Basin (1)	0.3
2008-ROTE-960-01	Combined	Verified	Delaware Direct	19148	Bioretention (1), Porous Surface (1), Subsurface Detention Basin (1)	1.3
2008-SCHM-902-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (2)	5.9
2008-SHER-926-01	Combined	Verified	Delaware Direct	19122	Green Roof (1), Porous Surface (1)	0.2
2008-STRA-799-01	Combined	Verified	Lower Schuylkill River	19121	Porous Surface (1), Subsurface Infiltration Basin (6)	0.4
2008-STRA-802-01	Combined	Verified	Lower Schuylkill River	19121	Porous Surface (4), Subsurface Infiltration Basin (4)	0.3
2008-THEC-806-01	Combined	Verified	Delaware Direct	19103	Green Roof (2), Subsurface Detention Basin (1)	0.2
2008-WALG-838-01	Combined	Verified	Delaware Direct	19146	Bioretention (1), Subsurface Infiltration Basin (1)	0.5
2008-WOOD-864-01	Combined	Verified	Lower Schuylkill River	19104	Porous Surface (1)	0.5
2009-2007-1090-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1)	28.8
2009-7149-1186-01	Combined	Verified	Delaware Direct	19135	Disconnections (1), Subsurface Infiltration Basin (1)	0.8
2009-CANC-1145-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (1), Disconnections (1), Surface Detention Basin (1)	6.2
2009-CONG-1210-01	Combined	Verified	Delaware Direct	19133	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	2.8
2009-DORA-1041-01	Combined	Verified	Lower Schuylkill River	19131	Porous Surface (8), Subsurface Infiltration Basin (2)	0.7

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2009-FRAN-1130-01	Combined	Verified	Delaware Direct	19137	Disconnections (1), Subsurface Infiltration Basin (3)	0.5
2009-GLOB-1016-01	Combined	Verified	Lower Schuylkill River	19131	Bioretention (4), Subsurface Detention Basin (1)	1.8
2009-HAWT-1102-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Porous Surface (1)	0.3
2009-HELP-1138-01	Combined	Verified	Lower Schuylkill River	19153	Subsurface Infiltration Basin (2)	3.7
2009-IATS-1023-01	Combined	Verified	Delaware Direct	19148	Green Roof (1), Subsurface Detention Basin (1)	0.8
2009-JANN-1141-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Porous Surface (2)	0.3
2009-LAWR-1044-01	Combined	Verified	Delaware Direct	19140	Porous Surface (1), Subsurface Infiltration Basin (1)	2.9
2009-MANT-1033-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Infiltration Basin (1)	4.6
2009-NEWH-1079-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1), Subsurface Infiltration Basin (2)	0.7
2009-NEWP-1166-01	Combined	Verified	Delaware Direct	19140	Disconnections (1), Subsurface Infiltration Basin (1)	1.3
2009-NICE-1136-01	Combined	Verified	Tacony-Frankford Creek	19140	Bioretention (3), Subsurface Detention Basin (1)	0.4
2009-PARK-1197-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Disconnections (1)	1.5
2009-PASC-1226-01	Combined	Verified	Cobbs Creek	19142	Porous Surface (1), Subsurface Infiltration Basin (3)	4.7
2009-PECO-1133-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Infiltration Basin (2)	4
2009-PENN-1019-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (7), Subsurface Detention Basin (2)	3.9
2009-PENN-1144-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (2)	0.4
2009-PHIL-1205-01	Combined	Verified	Delaware Direct	19148	Porous Surface (1)	14.6
2009-PRES-1037-01	Combined	Verified	Tacony-Frankford Creek	19150	Bioretention (1), Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.9
2009-PRIN-1147-01	Combined	Verified	Lower Schuylkill River	19121	Green Roof (1), Subsurface Infiltration Basin (1)	1.1
2009-RODI-1176-01	Combined	Verified	Lower Schuylkill River	19130	Subsurface Infiltration Basin (2)	0.3
2009-SCHU-1140-01	Combined	Verified	Lower Schuylkill River	19103	Disconnections (1)	0.7
2009-SIST-1062-01	Combined	Verified	Lower Schuylkill River	19103	Disconnections (1)	0.1
2009-SIST-1131-01	Combined	Verified	Lower Schuylkill River	19103	Disconnections (2), Green Roof (2), Subsurface Infiltration Basin (1)	0.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2009-STRA-1050-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (4)	0.2
2009-STRA-1055-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (4)	0.3
2009-TDBA-1072-01	Combined	Verified	Delaware Direct	19149	Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (2)	1.5
2009-TEMP-1077-01	Combined	Verified	Delaware Direct	19122	Bioretention (1), Porous Surface (1), Subsurface Detention Basin (1)	0.9
2009-TEMP-1096-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1)	2.6
2009-THEC-1174-01	Combined	Verified	Delaware Direct	19135	Bioretention (2), Disconnections (1), Green Roof (1)	0.6
2009-THEM-1167-01	Combined	Verified	Delaware Direct	19121	Disconnections (1), Green Roof (1), Porous Surface (1)	0.4
2009-THEP-1173-01	Combined	Verified	Lower Schuylkill River	19140	Green Roof (1)	0.1
2009-WALM-1045-01	MS4*	Verified	Delaware Direct	19148	Bioretention (3), WQ Treatment Device (1)	8
2009-WEST-1222-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1), Green Roof (1), Porous Surface (2)	1.4
2009-WOLC-1169-01	Combined	Verified	Tacony-Frankford Creek	19138	Bioinfiltration (4), Disconnections (1), Subsurface Detention Basin (1)	1.7
2010-1800-1260-01	Combined	Verified	Lower Schuylkill River	19146	Disconnections (1), Subsurface Infiltration Basin (1)	0.8
2010-1940-1435-01	Combined	Verified	Delaware Direct	19140	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.1
2010-3737-1331-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Subsurface Detention Basin (1)	0.3
2010-4109-1277-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1)	0.2
2010-411W-1300-01	Combined	Verified	Delaware Direct	19122	Bioretention (3), Subsurface Detention Basin (1)	0.1
2010-4FRA-1464-01	Combined	Verified	Lower Schuylkill River	19103	Green Roof (1), Subsurface Detention Basin (3)	0.9
2010-5526-1348-01	Combined	Verified	Darby Creek	19139	Porous Surface (2), Subsurface Infiltration Basin (1)	0.5
2010-8828-1321-01	Combined	Verified	Pennypack Creek	19136	Subsurface Infiltration Basin (2)	2
2010-AGIL-1461-01	Combined	Verified	Delaware Direct	19121	Disconnections (1), Subsurface Infiltration Basin (1)	2.3
2010-ARCH-1393-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Green Roof (1)	0.2
2010-BRID-1233-01	Combined	Verified	Delaware Direct	19137	Porous Surface (1), Subsurface Infiltration Basin (1)	1.6

*Combined Sewer Disconnection

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2010-BROA-1347-01	Combined	Verified	Tacony-Frankford Creek	19141	Subsurface Infiltration Basin (1)	1.5
2010-CHOP-1367-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Surface Detention Basin (2)	2.6
2010-CREA-1427-01	Combined	Verified	Delaware Direct	19125	Disconnections (1), Green Roof (14), Porous Surface (15)	0.3
2010-DICK-1410-01	Combined	Verified	Delaware Direct	19148	Disconnections (1), Porous Surface (2)	0.7
2010-DILW-1442-01	Combined	Verified	Lower Schuylkill River	19107	Disconnections (1), Subsurface Detention Basin (2), Surface Detention Basin (1)	0.7
2010-DREX-1399-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Subsurface Detention Basin (3)	1.5
2010-EARL-1460-01	Combined	Verified	Lower Schuylkill River	19146	Disconnections (1), Subsurface Infiltration Basin (1)	0.7
2010-ESPE-1288-01	Combined	Verified	Tacony-Frankford Creek	19140	Subsurface Infiltration Basin (1)	1.7
2010-GEST-1346-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (2), Subsurface Infiltration Basin (1)	1.1
2010-GRAN-1432-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (1), Subsurface Detention Basin (3)	0.6
2010-HUNT-1351-01	Combined	Verified	Tacony-Frankford Creek	19140-2107	Disconnections (1)	0.1
2010-MOYE-1306-01	Combined	Verified	Delaware Direct	19125	Green Roof (2), Porous Surface (1)	0.6
2010-NORR-1475-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	2.9
2010-NORT-1449-01	Combined	Verified	Tacony-Frankford Creek	19124-3024	Subsurface Infiltration Basin (2)	1.4
2010-PASC-1238-01	Combined	Verified	Cobbs Creek	19142	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (3)	2.2
2010-PHIL-1362-01	Combined	Verified	Delaware Direct	19148	Bioretention (2), Surface Detention Basin (1)	0.9
2010-PHIL-1469-01	Combined	Verified	Delaware Direct	19148	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), Surface Detention Basin (1)	3.4
2010-PLEA-1444-01	Combined	Verified	Tacony-Frankford Creek	19119	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.2
2010-PNKW-1360-01	Combined	Verified	Tacony-Frankford Creek	19140	Porous Surface (1), Subsurface Infiltration Basin (1)	4.2
2010-PROP-1376-01	Combined	Verified	Delaware Direct	19141	Bioinfiltration (2), Bioretention (1), Subsurface Infiltration Basin (2)	2.9
2010-PSDC-1234-01	Combined	Verified	Delaware Direct	19147	Subsurface Infiltration Basin (1)	1.4
2010-PSPH-1353-01	Combined	Verified	Lower Schuylkill River	19131	Green Roof (1), Subsurface Infiltration Basin (2)	8.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2010-STJO-1239-01	Combined	Verified	Lower Schuylkill River	19131	Bioinfiltration (1), Green Roof (1), Subsurface Infiltration Basin (1)	1.3
2010-TEMP-1302-01	Combined	Verified	Delaware Direct	19122	Cistern (1), Disconnections (1), Subsurface Infiltration Basin (1)	3.5
2010-THEF-1254-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (2), Disconnections (1), Subsurface Detention Basin (2)	0.4
2010-UNIV-1312-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Subsurface Detention Basin (2)	0.7
2010-UNIV-1385-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1)	1.5
2010-WIST-1397-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Subsurface Detention Basin (1)	0.4
2011-1900-1519-01	Combined	Verified	Lower Schuylkill River	19103	Cistern (1), Green Roof (1), Subsurface Detention Basin (1)	0.7
2011-3343-1653-01	Combined	Verified	Tacony-Frankford Creek	19144	Porous Surface (1), Subsurface Infiltration Basin (1)	0.8
2011-33RD-1697-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (1), Disconnections (1), Green Roof (1)	0.1
2011-4240-1543-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Infiltration Basin (1)	1.1
2011-822N-1632-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Porous Surface (2)	0.3
2011-8318-1655-01	Combined	Verified	Lower Schuylkill River	19121	Green Roof (1), Porous Surface (1)	0.2
2011-BOTT-1646-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (1), Subsurface Detention Basin (2)	2.7
2011-CANC-1485-01	Combined	Verified	Tacony-Frankford Creek	19124	Green Roof (1)	0.3
2011-CCTD-1535-01	Combined	Verified	Lower Schuylkill River	19139	Subsurface Infiltration Basin (1)	1.8
2011-CHRI-1545-01	Combined	Verified	Delaware Direct	19147	Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (3)	1
2011-CONV-1491-01	Combined	Verified	Lower Schuylkill River	19107	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.3
2011-DIAM-1617-01	Combined	Verified	Delaware Direct	19140	Green Roof (1), Subsurface Detention Basin (1)	0.4
2011-DOLL-1636-01	Combined	Verified	Tacony-Frankford Creek	19144	Subsurface Infiltration Basin (1)	1.1
2011-DREX-1638-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Green Roof (9)	0.8
2011-EAST-1687-01	Combined	Verified	Delaware Direct	19107	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1)	0.2
2011-FAIR-1488-01	Combined	Verified	Delaware Direct	19130	Green Roof (1), Subsurface Detention Basin (1)	0.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2011-GREE-1706-01	Combined	Verified	Tacony-Frankford Creek	19138	Porous Surface (1), Subsurface Detention Basin (1), Surface Infiltration Basin (1)	2
2011-HAGE-1562-01	Combined	Verified	Delaware Direct	19125	Porous Surface (2), Subsurface Infiltration Basin (1)	2.1
2011-HAMI-1518-01	Combined	Verified	Lower Schuylkill River	19104	Bio-infiltration/Bio-retention (1), Bioretention (3), Cistern (2), Disconnections (1), Green Roof (2), Subsurface Infiltration Basin (2)	2.1
2011-HOME-1571-01	Combined	Verified	Delaware Direct	19107	Bioretention (1), Green Roof (1), Subsurface Detention Basin (1)	0.2
2011-I95S-1699-01	Combined	Verified	Delaware Direct	19125	Bioinfiltration (10), Bioretention (1), Surface Detention Basin (6)	8
2011-JWSD-1674-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Subsurface Infiltration Basin (1)	3.7
2011-KARA-1505-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1), Porous Surface (2), Subsurface Infiltration Basin (3)	4
2011-MONT-1516-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	3.6
2011-NEWB-1672-01	Combined	Verified	Lower Schuylkill River	19145	Green Roof (23), Porous Surface (1)	0.4
2011-NEWN-1620-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (1)	0.9
2011-NICE-1728-01	Combined	Verified	Tacony-Frankford Creek	19140	Porous Surface (1), Subsurface Infiltration Basin (1)	0.4
2011-NICE-1729-01	Combined	Verified	Tacony-Frankford Creek	19140	Porous Surface (1), Subsurface Detention Basin (1)	0.5
2011-NICE-1730-01	Combined	Verified	Tacony-Frankford Creek	19140	Porous Surface (2), Subsurface Infiltration Basin (1)	1.3
2011-NORT-1700-01	Combined	Verified	Tacony-Frankford Creek	19124	Porous Surface (1), Subsurface Detention Basin (1)	0.9
2011-PENN-1664-01	Combined	Verified	Lower Schuylkill River	19104	Porous Surface (1)	0.2
2011-PENN-1681-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1)	0.4
2011-PHIL-1596-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Porous Surface (2), Surface Detention Basin (1)	3.5
2011-PROP-1483-01	Combined	Verified	Tacony-Frankford Creek	19144	Porous Surface (3), Surface Infiltration Basin (1)	1.6
2011-PROP-1662-01	Combined	Verified	Lower Schuylkill River	19130	Subsurface Infiltration Basin (2), Surface Infiltration Basin (1)	3.7
2011-SAMU-1569-01	Combined	Verified	Delaware Direct	19111	Porous Surface (1)	0.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2011-STMA-1508-01	Combined	Verified	Delaware Direct	19147	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	0.5
2011-TEMP-1622-01	Combined	Verified	Delaware Direct	19122	Blue Roof (4), Green Roof (4), Porous Surface (1), Subsurface Infiltration Basin (2)	2.2
2011-TEMP-1739-01	Combined	Verified	Delaware Direct	19122	Bioretention (2), Cistern (1), Porous Surface (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	2.4
2011-THEB-1594-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (2), Disconnections (1), Subsurface Detention Basin (4), Subsurface Infiltration Basin (2)	1.6
2011-TOLL-1586-01	Combined	Verified	Lower Schuylkill River	19146	Disconnections (1), Green Roof (1), Subsurface Infiltration Basin (1)	3.9
2012-1108-2041-01	Combined	Verified	Delaware Direct	19123	Porous Surface (1), Subsurface Infiltration Basin (1)	1.8
2012-1213-1925-01	Combined	Verified	Delaware Direct	19107	Cistern (1), Green Roof (6), Subsurface Detention Basin (1)	0.3
2012-1220-1913-01	Combined	Verified	Delaware Direct	19123	Green Roof (2), Porous Surface (1)	0.4
2012-1426-1805-01	Combined	Verified	Lower Schuylkill River	19102	Blue Roof (1), Green Roof (1)	0.3
2012-1601-1939-01	Combined	Verified	Lower Schuylkill River	19143	Green Roof (2), Subsurface Detention Basin (1)	3.2
2012-1900-1754-01	Combined	Verified	Lower Schuylkill River	19145	Green Roof (1), Porous Surface (1)	0.6
2012-1919-1929-01	Combined	Verified	Lower Schuylkill River	19103	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	1.2
2012-2549-1840-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1)	1
2012-3601-2053-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Subsurface Detention Basin (1)	0.4
2012-412N-1844-01	Combined	Verified	Delaware Direct	19123	Green Roof (2), Porous Surface (1), Subsurface Infiltration Basin (1)	1.1
2012-600N-1963-01	Combined	Verified	Delaware Direct	19123	Green Roof (16), Porous Surface (1)	0.4
2012-701W-2002-01	Combined	Verified	Delaware Direct	19133	Disconnections (1), Porous Surface (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	4.7
2012-810A-1974-01	Combined	Verified	Delaware Direct	19107	Bioretention (2), Subsurface Detention Basin (1)	0.2
2012-915N-1854-01	Combined	Verified	Delaware Direct	19123	Porous Surface (1), Subsurface Infiltration Basin (1)	1.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2012-AHMA-1831-01	Combined	Verified	Delaware Direct	19133	Disconnections (1), Subsurface Infiltration Basin (1)	2.1
2012-BUIL-1807-01	Combined	Verified	Tacony-Frankford Creek	19111	Disconnections (1)	0.1
2012-CANC-1770-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioinfiltration (1), Green Roof (1)	0.6
2012-CARP-1765-01	Combined	Verified	Delaware Direct	19146	Bioretention (2), Green Roof (2), Porous Surface (1)	0.4
2012-CENT-1791-01	Combined	Verified	Delaware Direct	19122	Porous Surface (4)	1.3
2012-CIRA-1937-01	Combined	Verified	Lower Schuylkill River	19104	Blue Roof (1), Green Roof (2), Subsurface Detention Basin (1)	2
2012-EPIS-1888-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (2), Subsurface Detention Basin (2)	0.2
2012-ESPE-1947-01	Combined	Verified	Tacony-Frankford Creek	19140	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (1)	3.7
2012-GARY-1938-01	Combined	Verified	Lower Schuylkill River	19146	Bioinfiltration (3), Bioretention (1), Disconnections (1), Subsurface Detention Basin (2)	1.4
2012-HUNT-1764-01	Combined	Verified	Tacony-Frankford Creek	19140-2107	Disconnections (1), Porous Surface (2)	1.8
2012-INGE-1798-01	Combined	Verified	Delaware Direct	19121	Disconnections (1), Subsurface Infiltration Basin (1)	0.9
2012-INGL-1949-01	Combined	Verified	Lower Schuylkill River	19131	Bioretention (1), Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (2)	3.9
2012-LAWR-1945-01	Combined	Verified	Delaware Direct	19123	Green Roof (2), Porous Surface (1)	0.4
2012-LINC-2012-01	Combined	Verified	Delaware Direct	19148	Bioinfiltration (2), Porous Surface (1)	1.8
2012-PENN-1774-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Subsurface Detention Basin (1)	1.1
2012-PENN-1946-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (2), Cistern (1), Disconnections (1), Green Roof (7), Porous Surface (3), Subsurface Infiltration Basin (1)	1
2012-PRES-1785-01	Combined	Verified	Lower Schuylkill River	19131-3348	Green Roof (1), Porous Surface (1)	0.5
2012-PROP-1883-01	Combined	Verified	Tacony-Frankford Creek	19138	Subsurface Infiltration Basin (1)	2.3
2012-RIVE-2027-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Porous Surface (2)	3.3
2012-RODE-1835-01	Combined	Verified	Delaware Direct	19130	Subsurface Infiltration Basin (1)	1.3
2012-SCHU-2065-01	Combined	Verified	Lower Schuylkill River	19146	Bioretention (1), Disconnections (1), Subsurface Detention Basin (3)	3.3

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2012-SENI-1900-01	Combined	Verified	Lower Schuylkill River	19145	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1)	0.4
2012-SOUT-1782-01	Combined	Verified	Delaware Direct	19102	Green Roof (1), Subsurface Detention Basin (1)	0.8
2012-SPAR-1850-01	Combined	Verified	Delaware Direct	19148	Bioinfiltration (1), Disconnections (1), Porous Surface (2)	0.7
2012-SPRU-1813-01	Combined	Verified	Delaware Direct	19107	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.1
2012-SR00-2026-01	Combined	Verified	Delaware Direct	19125	Bioinfiltration (34), Bioretention (1)	75.1
2012-STFR-1986-01	Combined	Verified	Delaware Direct	19125	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1)	0.3
2012-SYSC-1931-01	Combined	Verified	Delaware Direct	19148	Bioretention (1)	3.9
2012-TDBA-2047-01	Combined	Verified	Delaware Direct	19149	Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1)	1.1
2012-THEM-1892-01	Combined	Verified	Delaware Direct	19106	Cistern (1), Disconnections (1), Green Roof (1), WQ Treatment Device (1)	0.8
2012-TOLL-1898-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Green Roof (5)	1.2
2012-UNIV-1848-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (6), Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (2)	1.6
2012-WISS-1891-01	Combined	Verified	Tacony-Frankford Creek	19138	Bioretention (2), Disconnections (1)	1.3
2013-1118-2248-01	Combined	Verified	Delaware Direct	19107	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1)	0.8
2013-1300-2120-01	Combined	Verified	Delaware Direct	19122	Bioinfiltration (7), Porous Surface (1), Subsurface Infiltration Basin (1)	3.2
2013-1323-2310-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1), Subsurface Infiltration Basin (1)	0.8
2013-1601-2261-01	Combined	Verified	Delaware Direct	19148	Disconnections (1), Subsurface Infiltration Basin (1)	1.5
2013-1900-2151-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (1), Subsurface Detention Basin (2), Surface Detention Basin (1)	2
2013-1901-2109-01	Combined	Verified	Lower Schuylkill River	19146	Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (1)	0.6
2013-2012-2072-01	Combined	Verified	Lower Schuylkill River	19121	Green Roof (1), Porous Surface (2)	0.2

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2013-2300-2240-01	Combined	Verified	Lower Schuylkill River	19146	Bioretention (1), Subsurface Detention Basin (1)	0.9
2013-23RD-2272-01	Combined	Verified	Lower Schuylkill River	19140	Disconnections (1), Subsurface Infiltration Basin (1)	0.6
2013-2413-2183-01	Combined	Verified	Delaware Direct	19132	Green Roof (1), Subsurface Infiltration Basin (1)	0.8
2013-3541-2376-01	Combined	Verified	Delaware Direct	19134	Disconnections (1), Subsurface Infiltration Basin (1)	1
2013-4783-2339-01	Combined	Verified	Pennypack Creek	19136	Disconnections (1), Porous Surface (2), Subsurface Detention Basin (1)	1.8
2013-708N-2316-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	0.6
2013-8268-2116-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	0.8
2013-900S-2174-01	Combined	Verified	Delaware Direct	19147	Bioinfiltration (1), Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.4
2013-9THS-2075-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	4.6
2013-ALDI-2287-01	Combined	Verified	Darby Creek	19151	Bioretention (4)	0.3
2013-CECI-2157-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1), Green Roof (1), Subsurface Infiltration Basin (1)	1.6
2013-CHOP-2288-01	Combined	Verified	Delaware Direct	19145	Bioretention (1), Porous Surface (2), Subsurface Detention Basin (1)	1.2
2013-CIRA-2405-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.6
2013-COBB-2080-01	Combined	Verified	Cobbs Creek	19143	Bioretention (2), Disconnections (1), Subsurface Detention Basin (1)	0.8
2013-DREX-2081-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Detention Basin (1), Surface Detention Basin (3)	1.3
2013-EDBE-2293-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	6.1
2013-FIRS-2202-01	Combined	Verified	Delaware Direct	19124	Bioinfiltration (7), Disconnections (1)	6.2
2013-GRAC-2328-01	Combined	Verified	Delaware Direct	19134	Bioretention (2), Disconnections (1), Subsurface Detention Basin (1)	0.6
2013-HALP-2134-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1), Subsurface Infiltration Basin (2)	1.6
2013-HELP-2241-01	Combined	Verified	Lower Schuylkill River	19153	Disconnections (1), Surface Infiltration Basin (1)	2
2013-LIBE-2255-01	Combined	Verified	Delaware Direct	19122	Bioretention (6), Surface Detention Basin (3)	1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2013-MAST-2259-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1)	0.6
2013-MUSE-2346-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	4.5
2013-NEUR-2140-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Bioretention (2), Disconnections (1), Green Roof (1), Porous Surface (1)	0.4
2013-NEWC-2114-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Disconnections (1), Green Roof (1), Porous Surface (2)	1.4
2013-ONER-2304-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (1), Green Roof (1), Subsurface Detention Basin (1)	0.3
2013-PARK-2357-01	Combined	Verified	Lower Schuylkill River	19130	Bioinfiltration (1), Disconnections (1)	1
2013-PHIL-2299-01	Combined	Verified	Delaware Direct	19102	Disconnections (1), Green Roof (2), Subsurface Detention Basin (1)	0.2
2013-PROP-2163-01	Combined	Verified	Tacony-Frankford Creek	19141	Subsurface Infiltration Basin (2)	1.2
2013-RESI-2173-01	Combined	Verified	Cobbs Creek	19143	Disconnections (1), Green Roof (1)	0.1
2013-RODI-2192-01	Combined	Verified	Lower Schuylkill River	19130	Bio-infiltration/Bio-retention (1), Green Roof (1), Subsurface Detention Basin (1)	1.6
2013-SETT-2085-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioretention (1), Disconnections (1), Green Roof (1), Porous Surface (1), Row Connection (1), Subsurface Detention Basin (1)	2.4
2013-SHOP-2250-01	Combined	Verified	Delaware Direct	19124	Basin (4), Green Roof (6), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2)	9.4
2013-STCH-2103-01	Combined	Verified	Delaware Direct	19134	Bioinfiltration (1), Bioretention (2), Disconnections (1)	4.6
2013-STCH-2149-01	Combined	Verified	Delaware Direct	19134	Bioretention (6), Disconnections (1)	3.8
2013-TACO-2197-01	Combined	Verified	Delaware Direct	19135	Bioinfiltration (1), Disconnections (1), Subsurface Detention Basin (1)	2.1
2013-TAJD-2286-01	Combined	Verified	Delaware Direct	19122	Bioretention (1), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	1.3
2013-TALL-2349-01	Combined	Verified	Delaware Direct	19133	Bioinfiltration (1), Subsurface Infiltration Basin (1)	2.9
2013-TEMP-2178-01	Combined	Verified	Delaware Direct	19140	Bioretention (1), Subsurface Detention Basin (1)	1.1
2013-THES-2177-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (2)	1.2

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2013-THES-2392-01	Combined	Verified	Lower Schuylkill River	19104	Blue Roof (1), Green Roof (1)	0.6
2013-UPEN-2280-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Infiltration Basin (3)	1.1
2014-1123-2645-01	Combined	Verified	Delaware Direct	19125	Basin (1), Subsurface Infiltration Basin (1)	0.7
2014-1325-2469-01	Combined	Verified	Delaware Direct	19121	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1)	0.8
2014-1326-2422-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	0.9
2014-1350-2658-01	Combined	Verified	Delaware Direct	19122	Bioretention (2), Subsurface Infiltration Basin (1)	1.1
2014-1515-2746-01	Combined	Verified	Delaware Direct	19106	Porous Surface (1), Subsurface Infiltration Basin (2)	0.8
2014-1601-2434-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (2), Porous Surface (1), Subsurface Detention Basin (1)	0.3
2014-1601-2440-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (4), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.7
2014-2013-2751-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Infiltration Basin (1)	0.5
2014-2201-2677-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Infiltration Basin (1), WQ Treatment Device (1)	1.7
2014-2322-2715-01	Combined	Verified	Lower Schuylkill River	19130	Porous Surface (1), Subsurface Infiltration Basin (1)	0.9
2014-250N-2565-01	Combined	Verified	Delaware Direct	19106	Green Roof (1), Porous Surface (3)	1.2
2014-3600-2426-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Green Roof (1), Subsurface Detention Basin (1), Surface Detention Basin (1)	1.3
2014-420F-2574-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Infiltration Basin (2)	1
2014-4525-2505-01	Combined	Verified	Lower Schuylkill River	19139	Green Roof (1)	0.3
2014-500W-2580-01	Combined	Verified	Delaware Direct	19106	Green Roof (1), Subsurface Detention Basin (1)	0.4
2014-5454-2552-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioretention (5), Porous Surface (1), Subsurface Detention Basin (1)	0.9
2014-5800-2463-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1), Surface Infiltration Basin (1)	1.2
2014-63RD-2502-01	Combined	Verified	Cobbs Creek	19139	Subsurface Infiltration Basin (1)	1.9
2014-8365-2530-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	1.5
2014-ALLE-2455-01	Combined	Verified	Delaware Direct	19125	Disconnections (1), Green Roof (1), Porous Surface (1)	0.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2014-ALLE-2522-01	Combined	Verified	Delaware Direct	19133	Subsurface Infiltration Basin (1)	0.8
2014-BLUM-2711-01	Combined	Verified	Lower Schuylkill River	19121	Porous Surface (1), Subsurface Infiltration Basin (2)	2.5
2014-CHIC-2755-01	Combined	Verified	Tacony-Frankford Creek	19124	Subsurface Infiltration Basin (1)	0.8
2014-DOLL-2453-01	Combined	Verified	Delaware Direct	19135-4408	Bioretention (1), Subsurface Detention Basin (1)	1.5
2014-DREX-2457-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Porous Surface (2)	2.5
2014-ENVI-2646-01	Combined	Verified	Delaware Direct	19148-5607	Bioretention (1), Subsurface Detention Basin (1), Surface Infiltration Basin (4)	2
2014-GIRA-2478-01	Combined	Verified	Delaware Direct	19107	Disconnections (1), Green Roof (2), Subsurface Detention Basin (2)	1.2
2014-GSTR-2443-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioinfiltration (1), Subsurface Infiltration Basin (1)	1.4
2014-HUNT-2525-01	Combined	Verified	Lower Schuylkill River	19140	Bioretention (1), Subsurface Detention Basin (1)	0.9
2014-LASA-2425-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (4), Porous Surface (1), Subsurface Infiltration Basin (1)	2.2
2014-NORT-2603-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	0.4
2014-PAND-2762-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	0.5
2014-PERE-2472-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Detention Basin (2)	0.6
2014-PHAG-2547-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (2), Subsurface Detention Basin (1)	0.3
2014-PHAM-2476-01	Combined	Verified	Lower Schuylkill River	19121	Bio-infiltration/Bio-retention (5), Bioretention (27), Subsurface Detention Basin (10)	1.6
2014-PHAO-2459-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (1), Porous Surface (1), Subsurface Detention Basin (1)	0.4
2014-SEPT-2614-01	Combined	Verified	Delaware Direct	19124	Disconnections (1), Green Roof (1)	0.3
2014-STEN-2616-01	Combined	Verified	Tacony-Frankford Creek	19140	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
2014-STJO-2424-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Subsurface Infiltration Basin (3)	6.9
2014-TEMP-2699-01	Combined	Verified	Delaware Direct	19121	Porous Surface (1)	0.4
2014-TRUE-2595-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	1.5
2014-UNIV-2747-01	Combined	Verified	Lower Schuylkill River	19104	Porous Surface (1)	0.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2014-VERN-2690-01	Combined	Verified	Tacony-Frankford Creek	19144	Disconnections (1), Porous Surface (2)	0.5
2014-VONC-2749-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Subsurface Infiltration Basin (1)	0.5
2014-WEST-2612-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.9
2014-WISS-2641-01	Combined	Verified	Delaware Direct	19135	Disconnections (1), Porous Surface (1)	0.4
2015-1002-2906-01	Combined	Verified	Delaware Direct	19123	Bioinfiltration (3), Porous Surface (1), Subsurface Detention Basin (1)	0.9
2015-2338-2915-01	Combined	Verified	Delaware Direct	19125	Subsurface Infiltration Basin (1)	0.8
2015-2517-2803-01	Combined	Verified	Delaware Direct	19134	Green Roof (1), Porous Surface (2), Subsurface Detention Basin (1)	0.4
2015-3201-2786-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Green Roof (2), Subsurface Detention Basin (2)	0.3
2015-3675-2955-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (2)	0.7
2015-400R-2821-01	Combined	Verified	Delaware Direct	19147	Bioinfiltration (4), Subsurface Infiltration Basin (1)	5.3
2015-4050-2828-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1)	0.7
2015-40TH-2780-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (2)	1.2
2015-7092-2945-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
2015-8385-2856-01	Combined	Verified	Delaware Direct	19123	Basin (1), Bio-infiltration/Bio-retention (1), Cistern (1), Subsurface Infiltration Basin (1)	1.8
2015-CAMD-2769-01	Combined	Verified	Delaware Direct	19134	Surface Infiltration Basin (1)	3.4
2015-DLAT-2926-01	Combined	Verified	Delaware Direct	19120	Bioretention (3), Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (8)	8
2015-GAUD-2962-01	Combined	Verified	Lower Schuylkill River	19140	Bioretention (1), Porous Surface (3), Subsurface Detention Basin (1)	0.6
2015-GROC-2925-01	Combined	Verified	Delaware Direct	19137	Bioretention (2), Subsurface Detention Basin (1)	2.6
2015-JFKP-2951-01	Combined	Verified	Lower Schuylkill River	19102	Disconnections (1), Green Roof (1), Subsurface Detention Basin (2)	1.1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2015-LANI-2871-01	Combined	Verified	Lower Schuylkill River	19145	Disconnections (1), Porous Surface (2)	0.3
2015-LASA-2848-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (2), Porous Surface (1)	1.1
2015-PHIL-2919-01	Combined	Verified	Delaware Direct	19148	Bioretention (4), Disconnections (1), Green Roof (1), Porous Surface (3), Subsurface Detention Basin (2)	7.1
2015-PHIL-2969-01	Combined	Verified	Lower Schuylkill River	19130	Cistern (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1)	3.2
2015-PHIL-2982-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	0.3
2015-ROBE-2975-01	Combined	Verified	Tacony-Frankford Creek	19140	Bioretention (1), Subsurface Detention Basin (1)	0.5
2015-ROYA-2911-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (1), Subsurface Infiltration Basin (2), Surface Detention Basin (1), Surface Infiltration Basin (3)	4.4
2015-SOUT-2956-01	Combined	Verified	Lower Schuylkill River	19145	Bioretention (1), Subsurface Detention Basin (2)	5.1
2015-TEMP-2829-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1), Subsurface Infiltration Basin (1)	0.3
2015-TEMP-2964-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1), Subsurface Infiltration Basin (3)	12.3
2015-TULI-2824-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Green Roof (1), Porous Surface (1), Row Connection (2), Subsurface Infiltration Basin (2)	3.3
2015-UCHS-2939-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	3.2
2015-WAYN-2771-01	Combined	Verified	Tacony-Frankford Creek	19144	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.2
2015-WYNN-2986-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
FY16-ADAM-4220-01	Combined	Verified	Tacony-Frankford Creek	19120	Bioinfiltration (1), Subsurface Infiltration Basin (1)	1.1
FY16-BARI-4074-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (1)	0.8
FY16-BELM-4239-01	Combined	Verified	Lower Schuylkill River	19131	Bio-infiltration/Bio-retention (5), Bioretention (1), Porous Surface (2), Subsurface Detention Basin (4), WQ Treatment Device (1)	6.6
FY16-BERN-4350-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (1)	1.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY16-CENT-138-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1), Surface Detention Basin (1), WQ Treatment Device (1)	0.5
FY16-COLU-4303-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Subsurface Infiltration Basin (1)	0.9
FY16-DREX-4244-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Porous Surface (1)	1
FY16-EAST-4017-01	Combined	Verified	Delaware Direct	19125	Subsurface Infiltration Basin (1)	0.7
FY16-EAST-4179-01	Combined	Verified	Delaware Direct	19134	Bioinfiltration (1), Disconnections (1)	0.5
FY16-FAIR-4011-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	1.4
FY16-FEDE-4201-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Infiltration Basin (1)	0.9
FY16-FIVE-4029-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioinfiltration (1), Bioretention (1), Subsurface Infiltration Basin (1)	1
FY16-FRAN-4076-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (1)	0
FY16-HANO-4040-01	Combined	Verified	Lower Schuylkill River	19107	Subsurface Detention Basin (2)	2.7
FY16-HELP-4027-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Infiltration Basin (1)	0.3
FY16-JACK-4123-01	Combined	Verified	Delaware Direct	19124	Disconnections (1), Green Roof (1), Porous Surface (2), Subsurface Infiltration Basin (2)	2.2
FY16-KENS-4216-01	Combined	Verified	Delaware Direct	19125	Bioinfiltration (1), Porous Surface (2)	0.8
FY16-LAND-4251-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (2), Porous Surface (2), Subsurface Detention Basin (2), WQ Treatment Device (2)	0.5
FY16-LASA-4354-01	Combined	Verified	Tacony-Frankford Creek	19141	Disconnections (1), Porous Surface (1)	0.2
FY16-LINC-4309-01	Combined	Verified	Delaware Direct	19146	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (1)	4.1
FY16-LOVE-4088-01	Combined	Verified	Tacony-Frankford Creek	19119	Bioinfiltration (1), Disconnections (1), Green Roof (1)	0.3
FY16-LUCI-4053-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1)	0.3
FY16-NAME-4087-01	Combined	Verified	Delaware Direct	19122	Green Roof (2), Porous Surface (1)	0.7
FY16-NATI-4211-01	Combined	Verified	Delaware Direct	19106	Subsurface Detention Basin (1)	1.6
FY16-NFRO-4270-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	1.2
FY16-NTHS-4317-01	Combined	Verified	Delaware Direct	19123	Bioinfiltration (1), Bioretention (3), Porous Surface (1)	2.1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY16-PROJ-4329-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Green Roof (2), Porous Surface (1), Subsurface Infiltration Basin (1)	0.4
FY16-PROP-4298-01	Combined	Verified	Lower Schuylkill River	19103	Green Roof (1), Surface Detention Basin (1)	0.4
FY16-RACE-4127-01	Combined	Verified	Delaware Direct	19106	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	2
FY16-SIMP-4337-01	Combined	Verified	Lower Schuylkill River	19131	Bioinfiltration (2), Disconnections (1), Subsurface Infiltration Basin (1)	1.4
FY16-SLSI-4253-01	Combined	Verified	Delaware Direct	19107	Subsurface Detention Basin (1)	0.9
FY16-SMIT-4151-01	Combined	Verified	Lower Schuylkill River	19146	Disconnections (1), Porous Surface (1)	4.3
FY16-STJO-4085-01	Combined	Verified	Lower Schuylkill River	19145	Bioretention (1), Porous Surface (1), Subsurface Detention Basin (1)	1.7
FY16-STRC-4364-01	Combined	Verified	Delaware Direct	19146	Bioretention (1), Subsurface Detention Basin (2)	0.7
FY16-TEMP-4178-01	Combined	Verified	Delaware Direct	19121	Bioretention (1), Porous Surface (1), Subsurface Detention Basin (1)	4.2
FY16-TEMP-4277-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1)	0.4
FY16-THCH-4142-01	Combined	Verified	Lower Schuylkill River	19102	Blue Roof (5), Green Roof (3), Subsurface Detention Basin (1)	1.3
FY16-UCHS-4213-01	Combined	Verified	Lower Schuylkill River	19104		0
FY16-USCI-4261-01	Combined	Verified	Lower Schuylkill River	19143	Bioinfiltration (3), Bioretention (2), Porous Surface (2)	1.4
FY16-WASH-4360-01	Combined	Verified	Lower Schuylkill River	19146	Bioinfiltration (1), Subsurface Infiltration Basin (1)	2.4
FY17-ABIG-4691-01	Combined	Verified	Delaware Direct	19148	Subsurface Infiltration Basin (2)	0.8
FY17-ALDI-4565-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (12), Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	3.7
FY17-AUTO-4659-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.2
FY17-BROA-4539-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Subsurface Detention Basin (1)	1
FY17-CAMP-4378-01	Combined	Verified	Lower Schuylkill River	19140	Disconnections (1), Subsurface Infiltration Basin (1)	0.9
FY17-CANT-4433-01	Combined	Verified	Delaware Direct	19148	Blue Roof (2), Disconnections (1), Porous Surface (3)	0.9
FY17-CAPR-4725-01	Combined	Verified	Lower Schuylkill River	19147	Subsurface Infiltration Basin (1)	3.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY17-CARV-4503-01	Combined	Verified	Delaware Direct	19123	Disconnections (1), Subsurface Infiltration Basin (1)	1.7
FY17-EALL-4578-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Infiltration Basin (1)	0.9
FY17-EAST-4468-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Detention Basin (1)	1.1
FY17-EAST-4640-01	Combined	Verified	Cobbs Creek	19139	Basin (1), Bioinfiltration (5), Blue Roof (1), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	2.3
FY17-EGIR-4646-01	Combined	Verified	Delaware Direct	19125	Green Roof (1), Porous Surface (1)	0.5
FY17-ETIO-4590-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	3.8
FY17-GERM-4720-01	Combined	Verified	Delaware Direct	19122	Green Roof (1), Porous Surface (1)	0.7
FY17-GROC-4379-01	Combined	Verified	Delaware Direct	19148	Disconnections (1), Subsurface Detention Basin (2), WQ Treatment Device (2)	6.5
FY17-HAMP-4618-01	Combined	Verified	Delaware Direct	19111	Bioinfiltration (2), Disconnections (1)	2.5
FY17-LEED-4633-01	Combined	Verified	Tacony-Frankford Creek	19150	Bioinfiltration (7)	5.2
FY17-LUCI-4480-01	Combined	Verified	Lower Schuylkill River	19139	Disconnections (1), Porous Surface (2), Subsurface Detention Basin (1), Surface Detention Basin (1), WQ Treatment Device (2)	1
FY17-MALB-4466-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
FY17-NBRO-4434-01	Combined	Verified	Delaware Direct	19121	Bioinfiltration (1), Porous Surface (1), Subsurface Detention Basin (1)	0.9
FY17-NORT-4607-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (1)	1.2
FY17-NTHS-4495-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (2), Subsurface Detention Basin (1)	0.9
FY17-NTHS-4672-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1), Row Connection (2), Subsurface Infiltration Basin (1)	3
FY17-PESS-4511-01	Combined	Verified	Lower Schuylkill River	19145	Surface Detention Basin (5)	9.6
FY17-PHAA-4543-01	Combined	Verified	Lower Schuylkill River	19121	Porous Surface (1), Subsurface Infiltration Basin (1)	0.7
FY17-PHAN-4699-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Porous Surface (1), Row Connection (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	2.5
FY17-PHIL-4417-01	Combined	Verified	Delaware Direct	19121	Subsurface Detention Basin (1), WQ Treatment Device (1)	2.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY17-POPL-4664-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.6
FY17-PRAT-4660-01	Combined	Verified	Delaware Direct	19124	Disconnections (2), Porous Surface (1), Surface Infiltration Basin (1)	0.5
FY17-QUAK-4387-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (1)	5.1
FY17-REED-4474-01	Combined	Verified	Delaware Direct	19147	Disconnections (1), Subsurface Infiltration Basin (1)	1.5
FY17-RIDG-4764-01	Combined	Verified	Delaware Direct	19130	Bioinfiltration (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	5.1
FY17-ROWE-4634-01	Combined	Verified	Tacony-Frankford Creek	19126	Bioinfiltration (1)	1.2
FY17-SENI-4411-01	Combined	Verified	Lower Schuylkill River	19145	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY17-SOUT-4486-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Subsurface Infiltration Basin (1)	0.6
FY17-SOUT-4553-01	Combined	Verified	Delaware Direct	19146	Green Roof (1), Porous Surface (1)	0.3
FY17-SPRU-4443-01	Combined	Verified	Lower Schuylkill River	19139	Subsurface Infiltration Basin (1)	1.1
FY17-STHS-4669-01	Combined	Verified	Lower Schuylkill River	19146	Green Roof (1), Porous Surface (1)	0.6
FY17-STHS-4712-01	Combined	Verified	Lower Schuylkill River	19145	Porous Surface (1), Subsurface Infiltration Basin (1)	1.1
FY17-STHS-4755-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Infiltration Basin (1)	1.2
FY17-STPI-4413-01	Combined	Verified	Cobbs Creek	19143	Bioinfiltration (1), Disconnections (1)	0.5
FY17-TEMP-4573-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Porous Surface (1)	0.2
FY17-THAN-4446-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY17-THEF-4619-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.6
FY17-VIEW-4457-01	Combined	Verified	Delaware Direct	19122	Bioinfiltration (1), Disconnections (1), Green Roof (1), Row Connection (1), Subsurface Infiltration Basin (3)	4.1
FY17-WALM-4419-01	Combined	Verified	Tacony-Frankford Creek	19114	Subsurface Detention Basin (1), WQ Treatment Device (1)	15.7
FY17-WEND-4527-01	Combined	Verified	Cobbs Creek	19139	Subsurface Infiltration Basin (1)	1.3

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY17-WGOD-4567-01	Combined	Verified	Tacony-Frankford Creek	19141	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.1
FY17-WHAR-4726-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.6
FY17-WIDE-4636-01	Combined	Verified	Tacony-Frankford Creek	19141	Bioinfiltration (1)	4.5
FY17-WYNN-4704-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1), Subsurface Infiltration Basin (2)	0.8
FY17-XXXX-4458-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (1)	2.2
FY18-ALBE-4973-01	Combined	Verified	Tacony-Frankford Creek	19141	Disconnections (1), Subsurface Infiltration Basin (1)	1.9
FY18-BART-5075-01	Combined	Verified	Lower Schuylkill River	19143	Subsurface Infiltration Basin (1)	6.1
FY18-BERK-4853-01	Combined	Verified	Delaware Direct	19122	Bioretention (1), Subsurface Detention Basin (1)	1.5
FY18-CENT-5008-01	Combined	Verified	Tacony-Frankford Creek	19141	Bioinfiltration (6), Disconnections (1), Porous Surface (3), Subsurface Infiltration Basin (3)	5.6
FY18-CHES-4832-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1)	0.2
FY18-CHES-4975-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1)	1.2
FY18-DEST-4909-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	5.9
FY18-ELEH-4835-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Infiltration Basin (3)	6.6
FY18-ENOR-4838-01	Combined	Verified	Delaware Direct	19125	Bioinfiltration (1), Porous Surface (1)	0.9
FY18-ENOR-5080-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Green Roof (1), Porous Surface (3)	0.4
FY18-GALA-5145-01	Combined	Verified	Tacony-Frankford Creek	19138	Bio-infiltration/Bio-retention (2), Subsurface Detention Basin (1)	0.6
FY18-GERM-4880-01	Combined	Verified	Tacony-Frankford Creek	19144	Green Roof (1), Porous Surface (2)	0.3
FY18-HAMI-4900-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.7
FY18-HSTX-5076-01	Combined	Verified	Delaware Direct	19134	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.3
FY18-IRVI-4922-01	Combined	Verified	Cobbs Creek	19143	Porous Surface (2)	0.8
FY18-LABO-5153-01	Combined	Verified	Delaware Direct	19122	Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1.8

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY18-MERC-4857-01	Combined	Verified	Cobbs Creek	19143	Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.5
FY18-MIXE-4990-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	8.1
FY18-MOOR-5105-01	Combined	Verified	Delaware Direct	19148	Disconnections (1), Green Roof (1), Porous Surface (1)	0.5
FY18-NCHW-5147-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (4), Disconnections (1), Green Roof (1), Porous Surface (2), Subsurface Detention Basin (1)	2
FY18-NICO-5166-01	Combined	Verified	Tacony-Frankford Creek	19144	Disconnections (1), Row Connection (1), Subsurface Infiltration Basin (2)	2.6
FY18-NORT-4881-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1)	1
FY18-NRDS-4851-01	Combined	Verified	Lower Schuylkill River	19103	Subsurface Infiltration Basin (1)	0.8
FY18-NRDS-5015-01	Combined	Verified	Delaware Direct	19123	Subsurface Infiltration Basin (1)	1
FY18-PARK-4775-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.6
FY18-PARK-4896-01	Combined	Verified	Lower Schuylkill River	19131	Disconnections (1)	0.1
FY18-PEAB-4939-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Porous Surface (1)	0.1
FY18-PERK-5001-01	Combined	Verified	Delaware Direct	19130	Disconnections (1), Green Roof (1), Porous Surface (1)	0.3
FY18-PHAS-4886-01	Combined	Verified	Delaware Direct	19148	Bioretention (3), Disconnections (1)	2.5
FY18-PHIL-5038-01	Combined	Verified	Delaware Direct	19107	Subsurface Detention Basin (2), WQ Treatment Device (2)	1.6
FY18-PORT-4941-01	Combined	Verified	Delaware Direct	19125	Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	3.7
FY18-PROJ-4946-01	Combined	Verified	Lower Schuylkill River	19131	Bioinfiltration (1), Bioretention (1)	8.4
FY18-PROV-5053-01	Combined	Verified	Pennypack Creek	19114	Bioinfiltration (1), Disconnections (1), Subsurface Infiltration Basin (1)	2.8
FY18-QWEQ-5128-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (2)	1.6
FY18-RAND-5042-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.2
FY18-RENO-4879-01	Combined	Verified	Cobbs Creek	19143	Bioinfiltration (1), Depave (1)	2.6
FY18-SOLI-4855-01	Combined	Verified	Delaware Direct	19149	Disconnections (1), Subsurface Detention Basin (3), WQ Treatment Device (2)	10.3

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY18-SUSQ-5052-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (1)	1.9
FY18-UHAU-5117-01	Combined	Verified	Delaware Direct	19125	Subsurface Detention Basin (1)	1.9
FY18-WALN-4820-01	Combined	Verified	Cobbs Creek	19139	Subsurface Infiltration Basin (1)	0.7
FY18-WEST-5167-01	Combined	Verified	Delaware Direct	19123	Bioretention (2)	0.6
FY18-WEST-5171-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.9
FY19-AUTO-5287-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.6
FY19-CASA-5240-01	Combined	Verified	Delaware Direct	19133	Subsurface Infiltration Basin (1)	0.9
FY19-CAST-5293-01	Combined	Verified	Delaware Direct	19111	Bioretention (1), Row Connection (4), Subsurface Detention Basin (1)	1
FY19-CENT-5325-01	Combined	Verified	Lower Schuylkill River	19130	Disconnections (1), Porous Surface (1)	0.4
FY19-CHES-5484-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Green Roof (1)	0.9
FY19-CHOP-5421-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Detention Basin (1)	2.5
FY19-CIOC-5507-01	Combined	Verified	Lower Schuylkill River	19125	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1)	1.4
FY19-DREX-5307-01	Combined	Verified	Lower Schuylkill River	19104	Subsurface Infiltration Basin (1)	0.5
FY19-FRAN-5510-01	Combined	Verified	Delaware Direct	19125	Green Roof (1), Porous Surface (2)	0.3
FY19-GERM-5351-01	Combined	Verified	Tacony-Frankford Creek	19144	Bio-infiltration/Bio-retention (15), Disconnections (1), Green Roof (1), Porous Surface (1)	0.3
FY19-LANC-5567-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (2), Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	3
FY19-MARK-5603-01	Combined	Verified	Lower Schuylkill River	19139	Bioinfiltration (4), Green Roof (2)	6.4
FY19-MOOR-5381-01	Combined	Verified	Delaware Direct	19148	Green Roof (6), Porous Surface (1)	0.4
FY19-NORT-5502-01	Combined	Verified	Delaware Direct	19122	Bioinfiltration (1), Porous Surface (3), Subsurface Infiltration Basin (2)	3.6
FY19-NRDS-5400-01	Combined	Verified	Lower Schuylkill River	19151	Green Roof (7), Porous Surface (2)	0.7
FY19-ONEU-5522-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (3), Subsurface Detention Basin (2), WQ Treatment Device (2)	2.1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY19-PHAS-5542-01	Combined	Verified	Delaware Direct	19121	Subsurface Detention Basin (1), WQ Treatment Device (1)	7.8
FY19-PHIL-5529-01	Combined	Verified	Delaware Direct	19148	Surface Detention Basin (5)	38.7
FY19-POPL-5344-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1)	0.7
FY19-RUTH-5584-01	Combined	Verified	Delaware Direct	19134	Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY19-SCHU-5429-01	Combined	Verified	Lower Schuylkill River	19104	Basin (1), Green Roof (2), Porous Surface (2), Subsurface Detention Basin (2), WQ Treatment Device (2)	2
FY19-SUPR-5371-01	Combined	Verified	Lower Schuylkill River	19131	Bioretention (2)	4.4
FY19-TEMP-5500-01	Combined	Verified	Delaware Direct	19122	Green Roof (1)	0.3
FY19-THPO-5411-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (1), Subsurface Infiltration Basin (1)	1.2
FY19-WEST-5622-01	Combined	Verified	Delaware Direct	19123	Disconnections (2), Subsurface Detention Basin (1)	0.8
FY19-WHIT-5544-01	Combined	Verified	Cobbs Creek	19143	Green Roof (1), Porous Surface (1)	0.2
FY20-ABLE-5713-01	Combined	Verified	Tacony-Frankford Creek	19144	Subsurface Detention Basin (1)	1.6
FY20-BEAG-5789-01	Combined	Verified	Delaware Direct	19140	Porous Surface (1), Subsurface Infiltration Basin (1)	1.3
FY20-BROA-5648-01	Combined	Verified	Lower Schuylkill River	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY20-CALL-5798-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	0.6
FY20-CALL-5892-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	1
FY20-DAND-5994-01	Combined	Verified	Lower Schuylkill River	19102	Green Roof (11), Porous Surface (1)	0.5
FY20-EAST-5780-01	Combined	Verified	Delaware Direct	19107	Subsurface Detention Basin (2)	2.5
FY20-EDGE-6001-01	Combined	Verified	Lower Schuylkill River	19103	Disconnections (1), Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.9
FY20-FAIR-5889-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Porous Surface (1)	0.3
FY20-GIRA-5792-01	Combined	Verified	Lower Schuylkill River	19130	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.6
FY20-GREA-6054-01	Combined	Verified	Pennypack Creek	19149	Subsurface Infiltration Basin (2)	1.4
FY20-HELP-5666-01	Combined	Verified	Lower Schuylkill River	19121	Bioinfiltration (1), Disconnections (1)	0.4

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY20-HOLY-5931-01	Combined	Verified	Lower Schuylkill River	19143	Bioretention (3), Disconnections (1)	3.6
FY20-KEYS-5691-01	Combined	Verified	Delaware Direct	19135	Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY20-MARK-5754-01	Combined	Verified	Lower Schuylkill River	19103	Subsurface Detention Basin (1)	0.6
FY20-NAME-5896-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.2
FY20-NAME-5942-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.3
FY20-NHOW-5665-01	Combined	Verified	Delaware Direct	19122	Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.8
FY20-NHOW-6016-01	Combined	Verified	Delaware Direct	19122	Subsurface Infiltration Basin (1)	1.1
FY20-NORT-5847-01	Combined	Verified	Delaware Direct	19122	Green Roof (1), Subsurface Detention Basin (1)	0.4
FY20-NORT-5864-01	Combined	Verified	Delaware Direct	19123	Green Roof (1)	0.2
FY20-PENN-5669-01	Combined	Verified	Lower Schuylkill River	19104	Bio-infiltration/Bio-retention (1), Subsurface Detention Basin (2), WQ Treatment Device (2)	3.8
FY20-PHIL-6012-01	Combined	Verified	Cobbs Creek	19142	Porous Surface (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1)	0.8
FY20-POIN-6021-01	Combined	Verified	Lower Schuylkill River	19145	Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.9
FY20-RACE-5746-01	Combined	Verified	Lower Schuylkill River	19103	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.6
FY20-ROMO-5984-01	Combined	Verified	Tacony-Frankford Creek	19120	Subsurface Infiltration Basin (1)	3.1
FY20-SANS-5906-01	Combined	Verified	Lower Schuylkill River	19103	Subsurface Detention Basin (1)	0.7
FY20-SHAR-5706-01	Combined	Verified	Lower Schuylkill River	19121	Bioretention (1), Subsurface Infiltration Basin (1)	0.4
FY20-SPRI-5857-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (2)	4.7
FY20-SPRI-5901-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Subsurface Detention Basin (1)	0.6
FY20-SPRI-5940-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1)	0.4
FY20-STHS-5985-01	Combined	Verified	Delaware Direct	19107	Subsurface Detention Basin (1)	0.4
FY20-SUMM-5803-01	Combined	Verified	Delaware Direct	19124	Bioretention (4), Subsurface Detention Basin (1)	24
FY20-TRIA-5749-01	Combined	Verified	Lower Schuylkill River	19104	Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (2)	1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY20-WCLE-5888-01	Combined	Verified	Lower Schuylkill River	19139	Bioinfiltration (4), Porous Surface (2), Row Connection (9), Subsurface Infiltration Basin (1)	3.8
FY20-WECC-5809-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1), WQ Treatment Device (1)	2
FY20-WEST-5866-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.6
FY20-WOOD-5724-01	Combined	Verified	Tacony-Frankford Creek	19144	Porous Surface (2), Subsurface Detention Basin (1)	0.6
FY21-ANDR-6472-01	Combined	Verified	Cobbs Creek	19139	Bioinfiltration (1)	0.7
FY21-ARTI-6347-01	Combined	Verified	Delaware Direct	19146	Green Roof (2), Porous Surface (2), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.8
FY21-ATTS-6292-01	Combined	Verified	Lower Schuylkill River	19146	Bioretention (2)	0.3
FY21-AWFP-6317-01	Combined	Verified	Lower Schuylkill River	19140	Subsurface Infiltration Basin (1)	1.2
FY21-BLUM-6486-01	Combined	Verified	Lower Schuylkill River	19121	Bioinfiltration (1), Green Roof (1), Row Connection (2)	1.6
FY21-BLUM-6546-01	Combined	Verified	Lower Schuylkill River	19121	Subsurface Infiltration Basin (1), Surface Infiltration Basin (1)	2.4
FY21-CALL-6381-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.3
FY21-CAPI-6232-01	Combined	Verified	Delaware Direct	19147	Disconnections (1)	0
FY21-CATH-6260-01	Combined	Verified	Cobbs Creek	19143	Green Roof (2), Porous Surface (2)	0.2
FY21-CHES-6248-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1)	0.2
FY21-CHES-6309-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	0.8
FY21-CVSP-6101-01	Combined	Verified	Delaware Direct	19134	Subsurface Detention Basin (1), WQ Treatment Device (1)	1
FY21-DDXX-6238-01	Combined	Verified	Cobbs Creek	19151	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.9
FY21-DELA-6464-01	Combined	Verified	Delaware Direct	19125	Bioretention (9), Disconnections (1), Porous Surface (1), WQ Treatment Device (1)	0.5
FY21-EERI-6375-01	Combined	Verified	Delaware Direct	19134	Subsurface Detention Basin (2), WQ Treatment Device (1)	16.5
FY21-ELMW-6094-01	Combined	Verified	Lower Schuylkill River	19142	Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	22.8
FY21-ESOM-6084-01	Combined	Verified	Delaware Direct	19134	Disconnections (1), Green Roof (1), Porous Surface (1), WQ Treatment Device (1)	2.6
FY21-GERM-6555-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (1), Green Roof (2), WQ Treatment Device (1)	0.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY21-GRAY-6449-01	Combined	Verified	Lower Schuylkill River	19146	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.2
FY21-HUNT-6391-01	Combined	Verified	Tacony-Frankford Creek	19140	Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1.4
FY21-LIBE-6314-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (1)	0.8
FY21-MARI-6207-01	Combined	Verified	Tacony-Frankford Creek	19122	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (1)	1.5
FY21-MARK-6154-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (2), Subsurface Detention Basin (2), WQ Treatment Device (1)	1.3
FY21-MURP-6508-01	Combined	Verified	Delaware Direct	19148	Subsurface Infiltration Basin (1), Surface Infiltration Basin (1), WQ Treatment Device (1)	5.4
FY21-NBRO-6324-01	Combined	Verified	Delaware Direct	19130	Subsurface Detention Basin (1)	0.9
FY21-NFRO-6489-01	Combined	Verified	Delaware Direct	19122	Bio-infiltration/Bio-retention (1), Disconnections (1), Green Roof (2), Porous Surface (3)	0.5
FY21-ORME-6107-01	Combined	Verified	Delaware Direct	19134	Subsurface Detention Basin (1)	0.6
FY21-PECO-6365-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (1), Surface Detention Basin (1), WQ Treatment Device (2)	9.4
FY21-PHAB-6389-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1), Subsurface Infiltration Basin (1)	1.2
FY21-PROJ-6308-01	Combined	Verified	Delaware Direct	19122	Disconnections (1), Subsurface Infiltration Basin (1)	0.2
FY21-PROP-6250-01	Combined	Verified	Lower Schuylkill River	19145	Surface Detention Basin (1)	1
FY21-RAMO-6289-01	Combined	Verified	Tacony-Frankford Creek	19120	Subsurface Detention Basin (1), WQ Treatment Device (1)	4.2
FY21-SAFS-6465-01	Combined	Verified	Tacony-Frankford Creek	19141	Bioretention (2)	2.1
FY21-SAMU-6211-01	Combined	Verified	Delaware Direct	19134	Disconnections (1)	0
FY21-SOUT-6184-01	Combined	Verified	Delaware Direct	19107	Subsurface Detention Basin (1)	0.8
FY21-SPRI-6426-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Row Connection (2), Subsurface Detention Basin (2), WQ Treatment Device (2)	1.7
FY21-TEMP-6187-01	Combined	Verified	Delaware Direct	19122	Bioretention (5)	1.8
FY21-THSP-6404-01	Combined	Verified	Delaware Direct	19123	Row Connection (2), Subsurface Detention Basin (1), WQ Treatment Device (1)	2.6
FY21-TMPE-6131-01	Combined	Verified	Lower Schuylkill River	19132	Subsurface Detention Basin (1)	1.9

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY21-TRIN-6159-01	Combined	Verified	Delaware Direct	19133	Green Roof (1), Porous Surface (1)	0.6
FY21-WEST-6479-01	Combined	Verified	Lower Schuylkill River	19139	Subsurface Detention Basin (1), WQ Treatment Device (1)	2
FY21-WGIR-6350-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1)	0.7
FY21-WHIT-6141-01	Combined	Verified	Cobbs Creek	19143	Green Roof (1), Porous Surface (1)	0.1
FY21-WHIT-6517-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (3), Disconnections (1)	2.1
FY21-WPRE-6261-01	Combined	Verified	Cobbs Creek	19104	Bioinfiltration (1), Bioretention (5), Porous Surface (1), Row Connection (2)	0.6
FY22-ALLE-6864-01	Combined	Verified	Delaware Direct	19134	Subsurface Detention Basin (2), WQ Treatment Device (2)	8.8
FY22-ARCH-6608-01	Combined	Verified	Lower Schuylkill River	19103	Bioretention (2), Green Roof (4), Surface Detention Basin (1)	0.8
FY22-ARCH-6633-01	Combined	Verified	Lower Schuylkill River	19104	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (3), WQ Treatment Device (1)	1.7
FY22-CALD-6810-01	Combined	Verified	Lower Schuylkill River	19103	Basin (1), Bioretention (1), Subsurface Detention Basin (1)	0.9
FY22-CASS-6728-01	Combined	Verified	Cobbs Creek	19130	Green Roof (2), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1)	3
FY22-FOTT-6877-01	Combined	Verified	Delaware Direct	19133	Disconnections (1), Subsurface Infiltration Basin (1)	0.9
FY22-FRAN-6709-01	Combined	Verified	Delaware Direct	19125	Green Roof (2), Porous Surface (1)	0.6
FY22-GERM-6725-01	Combined	Verified	Tacony-Frankford Creek	19144	Green Roof (1), Porous Surface (1)	0.4
FY22-HARL-6567-01	Combined	Verified	Lower Schuylkill River	19121	Disconnections (1), Porous Surface (1), Subsurface Detention Basin (3), Subsurface Infiltration Basin (4), WQ Treatment Device (3)	1.5
FY22-INDO-6682-01	Combined	Verified	Lower Schuylkill River	19104	Basin (1), WQ Treatment Device (1)	3.6
FY22-MILN-6629-01	Combined	Verified	Delaware Direct	19135	Bioretention (3)	9.3
FY22-NAME-6651-01	Combined	Verified	Delaware Direct	19122	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.9
FY22-NBRO-6789-01	Combined	Verified	Delaware Direct	19123	Green Roof (1)	0.3
FY22-NDEL-6762-01	Combined	Verified	Delaware Direct	19125	Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1.4
FY22-NICE-6841-01	Combined	Verified	Tacony-Frankford Creek	19140	Disconnections (1), Subsurface Infiltration Basin (1)	0.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY22-NTHS-6603-01	Combined	Verified	Delaware Direct	19123	Subsurface Detention Basin (1), WQ Treatment Device (1)	1.3
FY22-PENN-6998-01	Combined	Verified	Lower Schuylkill River	19146	Bioretention (1)	1.7
FY22-PHMC-6993-01	Combined	Verified	Cobbs Creek	19143	Bioinfiltration (1), Disconnections (1), Porous Surface (1)	0.4
FY22-SHAR-6952-01	Combined	Verified	Lower Schuylkill River	19121	Bioretention (11), Disconnections (1), Subsurface Detention Basin (4)	4.3
FY22-THAN-6950-01	Combined	Verified	Lower Schuylkill River	19104	Basin (1)	0.7
FY22-UNIV-6659-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (1)	0.5
FY22-VARE-6947-01	Combined	Verified	Lower Schuylkill River	19145	Porous Surface (2), Subsurface Infiltration Basin (1)	2.4
FY22-VLES-6577-01	Combined	Verified	Lower Schuylkill River	19104	Bioinfiltration (1), Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1), WQ Treatment Device (1)	1.2
FY22-WAYN-6934-01	Combined	Verified	Tacony-Frankford Creek	19144	Green Roof (1), Porous Surface (1)	0.4
FY22-WOOD-6981-01	Combined	Verified	Cobbs Creek	19142	Green Roof (1), Porous Surface (1)	0.2
FY23-BOYS-7024-01	Combined	Verified	Cobbs Creek	19139	Subsurface Infiltration Basin (1)	0.5
FY23-COHO-7182-01	Combined	Verified	Delaware Direct	19134	Disconnections (1), Porous Surface (2)	0.5
FY23-DREX-7134-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Porous Surface (1)	0.4
FY23-DWEL-7105-01	Combined	Verified	Delaware Direct	19122	Bioretention (1)	3.7
FY23-EHUN-7221-01	Combined	Verified	Tacony-Frankford Creek	19124	Basin (1)	1.6
FY23-FRAN-7052-01	Combined	Verified	Cobbs Creek	19143	Disconnections (1), Porous Surface (1), Subsurface Infiltration Basin (2)	1.5
FY23-NIXO-7185-01	Combined	Verified	Cobbs Creek	19143	Disconnections (1), Porous Surface (2)	0.1
FY23-NTHS-7262-01	Combined	Verified	Lower Schuylkill River	19132	Porous Surface (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	1.1
FY23-REPU-7404-01	Combined	Verified	Delaware Direct	19148	Bioretention (1), Subsurface Detention Basin (1)	3.2
FY23-SPRI-7124-01	Combined	Verified	Delaware Direct	19123	Green Roof (1), Porous Surface (1), Subsurface Detention Basin (1)	0.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY23-STJO-7268-01	Combined	Verified	Lower Schuylkill River	19131	Basin (1), Bioinfiltration (1), Bioretention (1), Disconnections (1), Subsurface Detention Basin (1), WQ Treatment Device (1)	5.2
FY23-STUA-7387-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Disconnections (1), Green Roof (1), Subsurface Detention Basin (2), WQ Treatment Device (1)	0.4
FY24-BALT-7571-01	Combined	Verified	Darby Creek	19143	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.3
FY24-MCDO-7721-01	Combined	Verified	Tacony-Frankford Creek	19126	Subsurface Detention Basin (1), WQ Treatment Device (1)	0.8
FY24-PICC-7729-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (2)	0.1
FY24-VIDA-7587-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Subsurface Infiltration Basin (1)	1.8
FY24-WHIT-7715-01	Combined	Verified	Tacony-Frankford Creek	19124		0
FY25-XFIN-7853-01	Combined	Verified	Delaware Direct	19148	Bioretention (2)	6.7
Total Greened Acres:						**1379**

Table 4: Completed Incentivized Green Stormwater Infrastructure Projects

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2012-5818-1784-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (1)	0.2
2012-GSFS-2028-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioretention (1), Depave (1)	1.1
2012-WOLF-1792-01	Combined	Verified	Delaware Direct	19137		11.7
2013-1148-2105-01	Combined	Verified	Delaware Direct	19147	Green Roof (1), Subsurface Infiltration Basin (2), Surface Infiltration Basin (1)	1
2013-CARD-2076-01	Combined	Verified	Delaware Direct	19124	Subsurface Detention Basin (1), Surface Detention Basin (1)	60.6
2013-CARD-2220-01	Combined	Verified	Tacony-Frankford Creek	19124	Surface Detention Basin (2)	18.6
2013-METH-2117-01	Combined	Verified	Lower Schuylkill River	19131	Bioinfiltration (10), Bio-infiltration/Bio-retention (1)	1.2
2013-SITE-2387-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (1)	7.2
2013-SITE-2401-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (1)	5.8
2014-GLOB-2467-01	Combined	Verified	Tacony-Frankford Creek	19124	Subsurface Detention Basin (1), Surface Detention Basin (1)	0.8
2014-SITE-2501-01	Combined	Verified	Lower Schuylkill River	19131	Bioinfiltration (1)	44.8
2014-SITE-2549-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Infiltration Basin (1)	6
2014-SITE-2550-01	Combined	Verified	Delaware Direct	19135	Subsurface Infiltration Basin (1)	2.6
2014-SITE-2592-01	Combined	Verified	Lower Schuylkill River	19153	Subsurface Infiltration Basin (1)	9
2014-SITE-2665-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	15.9
2014-SITE-2666-01	Combined	Verified	Lower Schuylkill River	19153	Subsurface Infiltration Basin (2)	4.9
2014-WARR-2757-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (4), Row Connection (3)	3
2014-WILL-2541-01	Combined	Verified	Delaware Direct	19140	Depave (1)	0.2
2015-3560-2776-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	1.3
2015-FRAN-2954-01	Combined	Verified	Delaware Direct	19130	Bioretention (3)	0.7
2015-LASA-2865-01	Combined	Verified	Tacony-Frankford Creek	19141	Surface Detention Basin (3)	9.3
2015-LEAE-2888-01	Combined	Verified	Lower Schuylkill River	19036	Bioinfiltration (4), Bio-infiltration/Bio-retention (1), Porous Surface (1), Row Connection (2), Subsurface Infiltration Basin (2)	2.5

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
2015-LIGH-2907-01	Combined	Verified	Delaware Direct	19140	Surface Detention Basin (1)	0.9
2015-LUTH-2836-01	Combined	Verified	Delaware Direct	19125	Depave (1)	0.2
2015-MART-2832-01	Combined	Verified	Tacony-Frankford Creek	19138	Bioinfiltration (4), Row Connection (1), Subsurface Infiltration Basin (1)	5.2
2015-MAYF-2796-01	Combined	Verified	Delaware Direct	19149	Bioretention (3), Row Connection (2)	4.7
2015-MINK-2844-01	Combined	Verified	Lower Schuylkill River	19145	Basin (1), Surface Infiltration Basin (1)	1
2015-NORT-2977-01	Combined	Verified	Tacony-Frankford Creek	19124	Subsurface Detention Basin (5), Subsurface Infiltration Basin (1), WQ Treatment Device (2)	22.2
2015-SITE-2809-01	Combined	Verified	Tacony-Frankford Creek	19120	Row Connection (3), Subsurface Infiltration Basin (2)	23
2015-SITE-2810-01	Combined	Verified	Lower Schuylkill River	19153	Subsurface Infiltration Basin (5)	17.6
2015-SITE-2812-01	Combined	Verified	Pennypack Creek	19136	Row Connection (1), Subsurface Infiltration Basin (2)	13.3
2015-STJA-2895-01	Combined	Verified	Tacony-Frankford Creek	19120	Subsurface Detention Basin (1), Surface Detention Basin (1), Surface Infiltration Basin (2)	0.6
2015-TAGG-2931-01	Combined	Verified	Delaware Direct	19148	Bioinfiltration (1), Depave (1), Subsurface Detention Basin (1)	1
FY16-ADAI-4164-01	Combined	Verified	Delaware Direct	19125	Bioinfiltration (1), Depave (1)	2.6
FY16-ADAM-4101-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (1), Surface Detention Basin (1)	2.4
FY16-CHES-4233-01	Combined	Verified	Lower Schuylkill River	19146	Depave (1), Porous Surface (1), Row Connection (2), Subsurface Infiltration Basin (1), Surface Infiltration Basin (1)	1.3
FY16-ESSI-4357-01	Combined	Verified	Lower Schuylkill River	19153	Row Connection (2), Subsurface Infiltration Basin (3)	10.2
FY16-GAUL-4273-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	1.5
FY16-ISTR-4292-01	Combined	Verified	Delaware Direct	19134	Blue Roof (3)	1.1
FY16-JMPA-4286-01	Combined	Verified	Lower Schuylkill River	19142	Bioinfiltration (1), Depave (1)	0.8
FY16-JOMA-4143-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (1)	1.6
FY16-LASA-4274-01	Combined	Verified	Tacony-Frankford Creek	19144	Subsurface Infiltration Basin (4), Surface Infiltration Basin (1)	14.6
FY16-LIND-4086-01	Combined	Verified	Tacony-Frankford Creek	19141	Bioinfiltration (1)	1.4
FY16-NAME-4323-01	Combined	Verified	Tacony-Frankford Creek	19140	Row Connection (1), Subsurface Detention Basin (2)	8.8

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY16-PHIL-4134-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (1)	0.1
FY16-RICH-4302-01	Combined	Verified	Delaware Direct	19137	Disconnections (1)	12.2
FY16-SITE-4016-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Detention Basin (1)	7.6
FY16-SITE-4020-01	Combined	Verified	Delaware Direct	19136	Subsurface Infiltration Basin (2)	3
FY16-SITE-4025-01	Combined	Verified	Pennypack Creek	19136	Row Connection (3), Subsurface Detention Basin (1)	13.4
FY16-SITE-4039-01	Combined	Verified	Delaware Direct	19148	Row Connection (2), Subsurface Detention Basin (3), Surface Detention Basin (1)	6.9
FY16-SITE-4104-01	Combined	Verified	Tacony-Frankford Creek	19120	Row Connection (2), Subsurface Infiltration Basin (4)	12.8
FY16-SITE-4189-01	Combined	Verified	Tacony-Frankford Creek	19120	Row Connection (1), Subsurface Detention Basin (4), Surface Detention Basin (3)	15.8
FY16-STHS-4226-01	Combined	Verified	Lower Schuylkill River	19145	Bioretention (2), Subsurface Detention Basin (8)	5.2
FY16-WAKE-4282-01	Combined	Verified	Delaware Direct	19137	Row Connection (2), Subsurface Detention Basin (2)	8.7
FY17-BAKE-4685-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (1)	3.4
FY17-BSTR-4742-01	Combined	Verified	Delaware Direct	19134	Subsurface Infiltration Basin (4)	10.2
FY17-CAST-4743-01	Combined	Verified	Delaware Direct	19134	Row Connection (2), Subsurface Detention Basin (2)	7.9
FY17-EADO-4760-01	Combined	Verified	Delaware Direct	19137	Subsurface Infiltration Basin (2)	5.9
FY17-ECHE-4667-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (1), Subsurface Infiltration Basin (1)	4.2
FY17-ECHE-4668-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (1), Row Connection (2), Subsurface Infiltration Basin (1)	4.4
FY17-EDMU-4680-01	Combined	Verified	Pennypack Creek	19136	Subsurface Infiltration Basin (1)	5
FY17-EERI-4396-01	Combined	Verified	Tacony-Frankford Creek	19124	Subsurface Infiltration Basin (1)	4.6
FY17-ELUZ-4412-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (2), Subsurface Infiltration Basin (3)	10.4
FY17-ESSI-4624-01	Combined	Verified	Lower Schuylkill River	19153	Row Connection (2), Subsurface Detention Basin (3)	13.1
FY17-ESSI-4628-01	Combined	Verified	Lower Schuylkill River	19153	Porous Surface (2), Row Connection (1), Subsurface Detention Basin (2), WQ Treatment Device (1)	9.1
FY17-FRAN-4728-01	Combined	Verified	Delaware Direct	19125	Green Roof (1)	0.1

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY17-GRAY-4520-01	Combined	Verified	Lower Schuylkill River	19143	Row Connection (1), Subsurface Detention Basin (3)	16.3
FY17-HIST-4671-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioretention (1), Depave (1), Subsurface Detention Basin (1)	0.7
FY17-NDAN-4582-01	Combined	Verified	Tacony-Frankford Creek	19140	Row Connection (21), Subsurface Detention Basin (1)	31.8
FY17-NTHS-4620-01	Combined	Verified	Delaware Direct	19140	Row Connection (2), Subsurface Detention Basin (3)	15.9
FY17-OVER-4682-01	Combined	Verified	Lower Schuylkill River	19151	Subsurface Infiltration Basin (1)	2.4
FY17-PASC-4472-01	Combined	Verified	Lower Schuylkill River	19143	Row Connection (1), Subsurface Detention Basin (2), Subsurface Infiltration Basin (2)	9.2
FY17-POSE-4687-01	Combined	Verified	Pennypack Creek	19136	Subsurface Detention Basin (1)	5.7
FY17-STEN-4469-01	Combined	Verified	Tacony-Frankford Creek	19144	Row Connection (2), Subsurface Detention Basin (3)	4.5
FY17-STHS-4442-01	Combined	Verified	Lower Schuylkill River	19145	Subsurface Detention Basin (7)	15.9
FY17-STMA-4406-01	Combined	Verified	Delaware Direct	19122	Bio-infiltration/Bio-retention (1)	2.2
FY17-TACO-4444-01	Combined	Verified	Delaware Direct	19137	Subsurface Detention Basin (1), Subsurface Infiltration Basin (2)	12.6
FY17-WHEA-4544-01	Combined	Verified	Tacony-Frankford Creek	19124	Disconnections (1), Row Connection (2), Subsurface Infiltration Basin (1)	14
FY18-ACAD-4999-01	Combined	Verified	Pennypack Creek	19114	Row Connection (2), Subsurface Infiltration Basin (1)	5.2
FY18-ADAM-5070-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (2), Subsurface Infiltration Basin (2)	4.8
FY18-BALA-5159-01	Combined	Verified	Lower Schuylkill River	19131	Surface Detention Basin (1)	24.4
FY18-COML-4942-01	Combined	Verified	Delaware Direct	19135	Subsurface Detention Basin (1)	1.4
FY18-DEPA-4944-01	Combined	Verified	Tacony-Frankford Creek	19422	Subsurface Detention Basin (1)	11.9
FY18-DREX-5120-01	Combined	Verified	Lower Schuylkill River	19104	Disconnections (1), Green Roof (1)	1
FY18-EERI-4992-01	Combined	Verified	Delaware Direct	19124	Row Connection (2), Subsurface Infiltration Basin (4)	11.6
FY18-GRAY-4905-01	Combined	Verified	Lower Schuylkill River	19143	Row Connection (1), Subsurface Detention Basin (1)	2.3
FY18-LASA-4980-01	Combined	Verified	Tacony-Frankford Creek	19144	Subsurface Infiltration Basin (1)	3.3
FY18-NORT-4846-01	Combined	Verified	Lower Schuylkill River	19140	Row Connection (2), Subsurface Infiltration Basin (2)	4.1
FY18-OREG-5175-01	Combined	Verified	Delaware Direct	19148	Row Connection (2), Subsurface Detention Basin (4)	7

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY18-ORTH-5057-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (2), Subsurface Detention Basin (3), Subsurface Infiltration Basin (1)	7.8
FY18-PAUL-4979-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (2), Subsurface Infiltration Basin (1)	2.1
FY18-PINN-4913-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (3)	2.9
FY18-PRES-4972-01	Combined	Verified	Delaware Direct	19124	Row Connection (7), Subsurface Detention Basin (2)	10.1
FY18-STOR-5156-01	Combined	Verified	Delaware Direct	19148	Row Connection (3), Subsurface Detention Basin (4)	67.4
FY18-TALM-4904-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Detention Basin (1)	1.2
FY18-TALM-4995-01	Combined	Verified	Lower Schuylkill River	19131	Subsurface Infiltration Basin (2)	1.7
FY18-WBUL-4819-01	Combined	Verified	Delaware Direct	19140	Row Connection (1), Subsurface Detention Basin (2)	7.1
FY18-WHIT-5066-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (1), Subsurface Detention Basin (1), Subsurface Infiltration Basin (1)	8
FY18-WHUN-4834-01	Combined	Verified	Lower Schuylkill River	19140	Row Connection (1), Subsurface Infiltration Basin (1)	2.6
FY19-ARDL-5323-01	Combined	Verified	Tacony-Frankford Creek	19138	Bioinfiltration (2)	3.4
FY19-CAST-5414-01	Combined	Verified	Delaware Direct	19134	Row Connection (6), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2)	9.8
FY19-DEPA-5339-01	Combined	Verified	Tacony-Frankford Creek	19031	Subsurface Detention Basin (1)	2.3
FY19-HOLM-5609-01	Combined	Verified	Pennypack Creek	19136	Depave (1), Row Connection (7), Subsurface Detention Basin (2)	2
FY19-LEON-5611-01	Combined	Verified	Delaware Direct	19122	Row Connection (2), Subsurface Infiltration Basin (2)	6.9
FY19-PATT-5479-01	Combined	Verified	Delaware Direct	19148	Bioretention (4), Disconnections (1), Subsurface Detention Basin (2)	61.2
FY19-PEER-5261-01	Combined	Verified	Lower Schuylkill River	19145	Row Connection (4), Subsurface Detention Basin (2)	3.2
FY19-PEER-5346-01	Combined	Verified	Lower Schuylkill River	19151	Bioinfiltration (1), Row Connection (5), Subsurface Infiltration Basin (1)	3.3
FY19-SEPV-5417-01	Combined	Verified	Delaware Direct	19137	Subsurface Detention Basin (1)	1.8
FY19-SOUT-5279-01	Combined	Verified	Delaware Direct	19148	Bioretention (1), Depave (1)	1.4
FY19-STRA-5600-01	Combined	Verified	Lower Schuylkill River	19132	Row Connection (10), Subsurface Detention Basin (3)	13.1
FY19-WGLE-5241-01	Combined	Verified	Delaware Direct	19132	Row Connection (2), Subsurface Detention Basin (2)	3.2

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY19-WGLE-5243-01	Combined	Verified	Lower Schuylkill River	19132	Subsurface Infiltration Basin (2)	7.8
FY19-WLEH-5378-01	Combined	Verified	Lower Schuylkill River	19132	Bioretention (1), Row Connection (7), Subsurface Detention Basin (3)	8.7
FY19-WLEH-5466-01	Combined	Verified	Lower Schuylkill River	19132	Row Connection (4), Subsurface Detention Basin (1), Subsurface Infiltration Basin (2)	6.2
FY20-AWBU-5768-01	Combined	Verified	Tacony-Frankford Creek	19138	Row Connection (6), Surface Detention Basin (1)	3.9
FY20-IKEA-5894-01	Combined	Verified	Delaware Direct	19148	Row Connection (5), Subsurface Detention Basin (5)	20.5
FY20-JAME-6033-01	Combined	Verified	Tacony-Frankford Creek	19120	Depave (1)	0.2
FY20-PARK-5828-01	Combined	Verified	Lower Schuylkill River	19130	Green Roof (1)	0.2
FY21-ADDB-6380-01	Combined	Verified	Cobbs Creek	19143	Bioretention (1), Surface Detention Basin (1)	0.9
FY21-DEPA-6266-01	Combined	Verified	Tacony-Frankford Creek	19031	Subsurface Detention Basin (1)	3.2
FY21-EHUN-6402-01	Combined	Verified	Tacony-Frankford Creek	19124	Cistern (1), Subsurface Infiltration Basin (1)	1.4
FY21-TEOC-6512-01	Combined	Verified	Lower Schuylkill River	19123	Bioretention (1)	4.2
FY22-ALAI-6931-01	Combined	Verified	Lower Schuylkill River	19104	Bioretention (1), Depave (1), Porous Surface (1), Subsurface Detention Basin (1), Surface Detention Basin (1)	2.2
FY22-BREG-6670-01	Combined	Verified	Lower Schuylkill River	19145	Bioretention (1)	2.2
FY22-CONC-6684-01	Combined	Verified	Tacony-Frankford Creek	19124	Bioretention (2)	1.5
FY22-ESSI-6719-01	Combined	Verified	Lower Schuylkill River	19153	Row Connection (7), Subsurface Detention Basin (1)	5.5
FY22-HOLY-6673-01	Combined	Verified	Tacony-Frankford Creek	19119	Bioinfiltration (1), Row Connection (1), Subsurface Infiltration Basin (2)	2.4
FY22-MARY-6928-01	Combined	Verified	Delaware Direct	19140	Basin (1), Bioretention (3)	1.4
FY22-MINI-6563-01	Combined	Verified	Lower Schuylkill River	19096	Row Connection (11), Subsurface Detention Basin (2)	11
FY22-ORTH-6621-01	Combined	Verified	Tacony-Frankford Creek	19137	Subsurface Detention Basin (2)	10.3
FY22-STLU-6685-01	Combined	Verified	Tacony-Frankford Creek	19144	Bioinfiltration (1)	0.4
FY22-TACO-6971-01	Combined	Verified	Tacony-Frankford Creek	19124	Row Connection (3), Subsurface Detention Basin (1)	16.3
FY22-WWYO-6884-01	Combined	Verified	Tacony-Frankford Creek	19140	Subsurface Detention Basin (2)	16.9

Tracking Number	Sewer Type	Category	Watershed	Zip	SMP Type(s) and Count	Greened Acres
FY23-GROV-7037-01	Combined	Verified	Tacony-Frankford Creek	19140	Bioinfiltration (4), Bio-infiltration/Bio-retention (1), Subsurface Infiltration Basin (1)	2.4
FY23-MARG-7283-01	Combined	Verified	Delaware Direct	19137	Depave (1), Row Connection (3), Subsurface Infiltration Basin (1)	4.4
FY23-NPCS-7240-01	Combined	Verified	Delaware Direct	19135	Subsurface Detention Basin (3)	18.2
FY23-SANK-7026-01	Combined	Verified	Delaware Direct	19125	Bioretention (2), Depave (1), Subsurface Detention Basin (1)	2.3
FY23-SFRO-7276-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1)	2.5
FY23-SFRO-7285-01	Combined	Verified	Delaware Direct	19148	Subsurface Detention Basin (1)	3
FY23-STAT-7035-01	Combined	Verified	Delaware Direct	19136	Row Connection (1), Subsurface Detention Basin (1)	4
FY23-THOM-7036-01	Combined	Verified	Tacony-Frankford Creek	19140	Bioinfiltration (5), Bioretention (1)	8.2
FY23-WHUN-7282-01	Combined	Verified	Tacony-Frankford Creek	19140	Row Connection (6), Subsurface Detention Basin (1)	9.2
FY24-EAST-7514-01	Combined	Verified	Lower Schuylkill River	19142	Subsurface Detention Basin (1)	2.9
FY24-EERI-7517-01	Combined	Verified	Darby Creek	19124	Row Connection (1), Subsurface Detention Basin (1)	3.2
FY24-TEAM-7528-01	Combined	Verified	Delaware Direct	19123	Bio-infiltration/Bio-retention (1), Row Connection (3), Subsurface Detention Basin (3)	2.2
Total Greened Acres:						**1129**

Appendix 4

Green Stormwater Infrastructure Monitoring Status Report

1.0 Introduction

During the reporting period of July 1, 2025 to June 30, 2026, the City's *Green City, Clean Waters* program addressed stormwater runoff reductions in urbanized areas using a combination of traditional infrastructure and green stormwater infrastructure (GSI). GSI systems vary in size, complexity, and interconnectedness to the existing drainage system, but the objective is to infiltrate, evapotranspire, reuse, and/or detain stormwater rather than to convey it directly to the sewer system. Monitoring and testing GSI systems is therefore essential to determine the effectiveness of various stormwater management practice (SMP) types in managing stormwater and reducing combined sewer overflows.

The focus of the *Green City, Clean Waters* monitoring program has been post-construction performance monitoring and testing of public GSI systems but has expanded to test public GSI systems during construction beginning in FY19. Specifically, a liner testing pilot began in 2019 and has been successful in providing feedback for Construction and GSI Design to improve performance of fully lined GSI. The performance testing of fully lined GSI in construction has increased due to the success of the pilot and to meet increased GSI construction. In addition, post-construction private GSI monitoring and testing has been conducted since FY18.

The primary goal of GSI monitoring and testing is to assess the ability of GSI systems to reduce stormwater runoff volume. Project characteristics such as contributing drainage area, storage volume, inlet capture efficiency, and slow-release discharge parameters can be used to supplement data and observations from testing and monitoring, allowing for a more complete view of a system's functionality. This provides a feedback loop of information to improve GSI design, construction, and maintenance practices and develop appropriate monitoring methods for the variety of GSI projects installed city-wide.

Proposed methods for performance monitoring and testing were outlined in both the draft Comprehensive Monitoring Plan submitted December 1, 2012, and in a response sent to PADEP and the EPA on July 31, 2013. A revised CMP was submitted on January 10th, 2014, and approved by PADEP on May 28, 2014. Since then, standard operating procedures (SOPs) continue to be refined for these methods. The latest monitoring and testing SOPs are available in the Appendices to the FY19 annual report.

2.0 Data Management

The data tracking mechanism for *Green City, Clean Waters* GSI monitoring data has evolved significantly since the inception of the program. Raw data are stored on an SMP-by-SMP basis in a filesystem directory tree. Derived data from quality assurance calculations are stored in spreadsheets and

relational databases, to be used for various data analyses. FY26 has brought minimal direct changes to the data management workflow but has seen the groundwork laid for large-scale reworks in FY27.

A broad-based integrity audit of the QAQC process and data was initiated in advance of the Year 15 Evaluation and Adaptation Plan (EAP). Programmatic analysis of the QAQC documents associated with water level sensors have begun. Review of sensor deployment metadata, barometric pressure and rainfall data, and the appropriate association of raw data files with QA spreadsheets is being performed across the entire monitoring portfolio. A phased implementation of this analysis, guided by a site prioritization schema, is currently underway. Additionally, elevation surveys of monitoring-relevant locations at GSI systems are underway to further verify the integrity of GSI performance metrics.

Scripting infrastructure is unchanged from FY25 apart from minor bug fixes. Data retrieval tools and analytical toolkits are being reworked for the Year 15 EAP, but no behind-the-scenes changes to existing data flows or structures have been made. Additional information about this software development can be found in Section 3.0.

2.1 Sensor Drift Testing

The Philadelphia Water Department (PWD) continued its efforts in FY26 to ensure that all pressure transducer sensors used for GSI monitoring are calibrated correctly. 435 sensor drift tests were performed on 221 unique pressure transducers. As a result of testing, 3 pressure transducers were returned to the manufacturer for repair and 7 were disposed. All pressure transducers deployed at long term monitoring sites, barometric compensation monitoring sites, and green inlet monitoring sites were replaced with recently tested units. A web application was launched to track drift test results and ensure that all pressure transducers are tested at 2-year intervals, and a new standard operating procedure was created to document the process.

2.2 Validation of Monitoring Elevations

Most observation wells monitored by PWD extend below the bottom of SMP storage. This section of the observation well is known as a sump, and its depth must be accounted for when processing monitoring data and evaluating SMP performance. Historically, sump depths were determined by cross-referencing observation well details in design drawings with water level plots produced using monitoring data. This method was unreliable due to inconsistencies between design drawing details and construction practices, as well as difficulties interpreting water level plots, leading to inaccurate analyses of monitoring data.

To improve analyses of monitoring data, FY25 saw the completion of an extensive review of over 300 current and past monitoring locations to more accurately ascertain sump depths and orifice elevations. Sump depths and orifice elevations were determined based on available design drawings and survey documents, field measurements, and water level data. Changes were made to the fieldwork

recordkeeping app to centrally document this information, and this process continues to be used when entering data for new monitoring locations.

To increase confidence in field measurements and verify the as-built elevations used to identify sump levels, an extensive surveying campaign was completed for 32 SMPs. The survey verified and measured elevations of components such as green inlets, grey inlets, and observation well rims, and included remeasurement of the monitoring location specifications such as sensor cable which are necessary for accurately calculating water levels.

3.0 Software Development

Updates continued for the ecosystem of analysis tools and data management applications (apps). Significant redevelopment has taken place during FY26 of tools used for calculating GSI performance metrics. Major redevelopment goals include making use of the entire water level sensor's descending limb when calculating performance metrics and attaching relevant metadata, like sump depths and rainfall flags, to time series output.

The largest change in the GSI monitoring-related app ecosystem in FY26 was the collaboration with Green Stormwater Operations (GSO) on interdepartmental issue tracking. GSO's web-based app and data capabilities have grown in FY26, and collaboration on shared software has begun. The app portfolio grew to include the GSI Sensor Hub in FY26, separating that capability away from the monolithic Fieldwork Tracking app. Many other custom apps and scripts have reached a stable status where no further features are planned. Bug fixes across the app portfolio have proceeded as they have been identified.

Extensions to the GSI analysis database structure have taken place during the last fiscal year. New schemas have been created to facilitate ongoing analysis projects related to QAQC and SMP lifecycle tracking. Overhauls of these workflows are expected to take place as the tools and methods that interface with these schemas develop in FY27.

4.0 Data Analysis

4.1 Continuous Monitoring Plan of Public Subsurface Infiltrating GSI

In FY26, an updated long-term public GSI monitoring strategy was planned and developed to address limitations in previous monitoring efforts. The revised approach is intended to improve understanding of (Objective 1) changing infiltration rates in subsurface SMPs due to sediment accumulation and (Objective 2) the prevalence of short-circuiting, which is water leaving GSI through any unintended

pathways. Two major initiatives were outlined: (1) a short-term remonitoring effort (A/B testing) to assess the frequency of infiltration decline by redeploying sensors at previously monitored SMPs, and (2) an expanded long-term monitoring program based on a stratified, data-driven sampling method. Representative SMPs were selected using k-means clustering informed by construction year, location, and loading ratio—factors believed to correlate with sedimentation and short-circuiting risks. In FY26, SMPs selected for potential long-term infiltration monitoring (Objective 1) underwent desktop review, field inspections, and simulated runoff testing (SRT) to exclude systems affected by short-circuiting, while also quantifying short-circuiting prevalence (Objective 2). These updates are expected to improve the accuracy of infiltration modeling, inform assumptions about GSI engineering service life, and guide future design and maintenance standards.

4.2 Short-Circuiting Prevalence of Public Subsurface Infiltrating GSI

In FY26, a process involving desktop analysis, simulated runoff testing, and data analysis was performed to quantify the prevalence of short-circuiting (SC) of public subsurface infiltrating GSI. As mentioned in section 4.1, SMPs were randomly selected using a k-means clustering method informed by construction year, location, and loading ratio. These representative SMPs were selected to balance out the SRT records prior to the new continued monitoring plan, that shows a bias towards systems that are likely to have short-circuiting. This effort resulted in 57 new SRTs performed with in depth details regarding short-circuiting assets, time stamps, and intensity. The final analysis in FY27 will incorporate data from these 57 tests performed in FY26 and prior tests that have sensor data and footage to properly quantify the intensity of short-circuiting. This information will answer the following questions: what is the existence and severity of SC across subsurface infiltrating systems, how does SC affect engineering service life, and what are the causes/correlations of SC and how to prevent it in the future.

4.3 Green Inlet Monitoring & Analysis

In FY26, the green inlet monitoring efforts have been directed towards verifying the integrity of the dataset to support future analyses. The broad-based data integrity audits in advance of the year 15 EAP began as small-scale audits of green inlet monitoring data. The verification efforts included recomputation of published statistics from the FY25 analysis project, auditing QA methods for procedural errors, and verifying GSI system metadata.

Verification efforts involved recoding the analytical methods from scratch, reflecting the changes in database structure and system metadata during the intervening time. This will ease the use of monitoring data collected after the conclusion of the previous phase of the analysis. Future analyses will assess other green inlet types and pretreatment methods and will expand to include more sites.

4.4 Site-Specific Performance Evaluations

Public GSI Performance Evaluations

In FY26, several targeted performance evaluations were conducted to assess site-specific issues and inform broader design and maintenance practices for public GSI systems. At the first public centralized green infrastructure (CGI) system, located in Ferko Playground, a performance evaluation was conducted to assess frequent overtopping of the control structure weir and recurring sinkholes in the overlying baseball field. It was determined that trash guard cleaning had little effect on overtopping frequency, but full removal in 2023 led to a marked decrease. Limited response in the downstream observation well following removal suggested rapid infiltration within the basin. Further coordination with Operations and Design Teams led to the decision to ultimately retire the system to minimize potential health and safety concerns as well as costly repairs and public disturbance that would result.

An additional evaluation of a system, located in Wharton Square Park, was conducted to assess poor drainage and overall conveyance of the fully lined subsurface crate storge system. Limited response in both observation wells in the subsurface trench suggested that the geomembrane liner was not functioning as intended and could increase the risks of forming sinkholes, leading to an overall health and safety concern. These findings were shared with GSI Design and Operations Teams, and it was determined that this system should be retired and rebuilt under a new work number with improved design and construction standards.

Ongoing evaluations of two additional CGI systems, both located in Wissinoming Park are in progress to assess overall system performance. One system exhibited slow draindown below acceptable standards, and an orifice was drilled to improve draindown. The other CGI system had a defective outflow structure resulting in flow bypassing the outlet weir. Repair options are being explored. CCTV inspection of the isolator rows was performed to assess debris build-up and inform future maintenance intervals. Monitoring is ongoing to assess draindown following the orifice and outflow structure repairs.

A performance evaluation is underway at a CGI system located at Trenton Ave and E Auburn St. to assess limited response above the orifice elevation and frequent overtopping of the control structure weir wall. Further investigation is ongoing to assess for capture, conveyance, or short-circuiting issues that may be present.

Private GSI Performance Evaluations

Performance evaluations are also conducted on privately owned GSI systems to determine the effectiveness of repairs and other remedial actions, establish maintenance intervals, and assess overall system performance. In FY26, three such performance evaluations were conducted. The first evaluation was conducted on a retrofit system following repairs to the outlet structure weir and an improperly abandoned sewer connection within the SMP footprint. Monitoring data from before and after the

repairs indicated a marginal improvement to system storage utilization and a reduction in draindown rate.

The other two performance evaluations were conducted on privately owned GSI systems constructed in accordance with PWD's stormwater regulations. One of these systems exhibited satisfactory performance, showing good infiltration and minimal short-circuiting. Monitoring equipment was removed following completion of the performance evaluation, with plans to remonitor the system in five years and compare performance to the first monitoring period. The other system was determined to have an oversized orifice relative to its drainage area, limiting its ability to adequately manage stormwater runoff. Options for reducing the size of the orifice are currently being explored.

5.0 Public GSI Monitoring and Testing

Continuous water level (CWL) monitoring of GSI systems is the primary method PWD uses to evaluate GSI performance. CWL monitoring is conducted at the stormwater management practice (SMP) level, where one or more SMPs make up a single GSI system. Multiple SMPs may be monitored to assess the overall performance of a single GSI system. In addition to CWL monitoring, PWD conducts testing of GSI, including capture efficiency testing (CET) of inlets, simulated runoff testing (SRT) of GSI systems, infiltration testing of porous pavement and permeable pavers, and groundwater monitoring (pre-construction and post-construction of GSI).

5.1 Continuous Water Level (CWL) Monitoring

During FY26, PWD completed sensor deployments (HOBO pressure transducers, Onset Computer Corp, Bourne, MA) for CWL monitoring of 81 public GSI systems, of which 3 systems were newly monitored this fiscal year (see **Table 5-1**). To date (through FY26), sensor deployments have been completed for CWL monitoring of 487 public GSI systems. All public SMPs with post-construction CWL monitoring are shown in **Figure 5-1**. In addition, **Figure 5-1** shows the barometric pressure sensor and rain gauge locations that are utilized in the CWL monitoring process.

In selecting water level monitoring locations, PWD has attempted to roughly allocate monitoring according to the types of SMPs constructed for the *Green City, Clean Waters* program. **Table 5-2** is a breakdown by SMP type showing the number of public SMPs with CWL monitoring compared to the total number of SMPs of each type.

Table 5-1: Summary of Post-Construction CWL Monitoring of Public SMPs

	FY26	To-Date (through FY26)
Sensor Deployments	267	4769
Systems	81	487
Systems Newly Monitored	3	

Table 5-2: Post-Construction CWL Monitoring of Public SMPs Listed by Type

SMP Type	Monitored SMPs (before and during FY26)	Total Constructed Public SMPs (through FY26)
Tree Trench	287	885
Stormwater Tree*	0	144
Planter	27	130
Bumpout	25	259
Rain Garden	71	203
Infiltration/Storage Trench	146	741
Permeable Pavement	2	9
Swale	6	49
Basin	1	10
Drainage Well	4	6
Green Roof	0	3
Wetland	4	8
Total	**573**	**2454**

*Stormwater trees do not have sufficient ponding depth to monitor water level

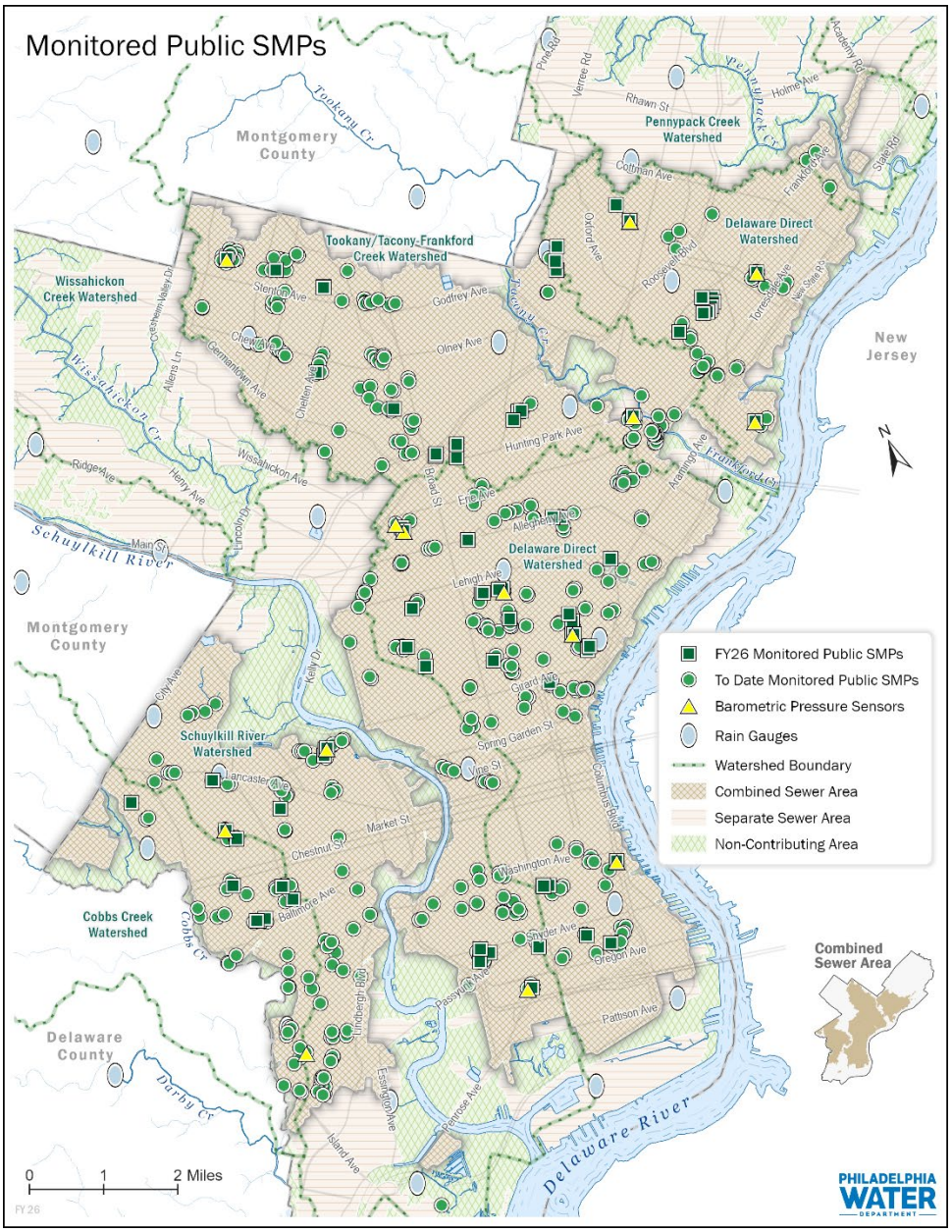


Figure 5-1: Location of Public SMPs with Post-Construction CWL Monitoring

5.2 Simulated Runoff Testing (SRT)

Systems that show abnormal water level response during CWL monitoring typically undergo simulated runoff testing (SRT) using water hydrant flow, dye testing, and/or CCTV to determine if there are performance issues. Additionally, SRTs may be performed to establish a baseline understanding of system performance, such as to support the continuous monitoring plan and short-circuiting prevalence of public subsurface GSI as described in sections 4.1 and 4.2. As described in **Table 5-3**, 52 pre-inspection SRTs, 2 CCTV dye tests, and 1 performance SRT were performed on public GSI systems between July 1, 2025 and June 30, 2026. To date (through FY26), a total of 414 post-construction SRTs have been performed on public GSI systems. The breakdown of SRTs per SMP type is shown in **Table 5-4**. FY26 SRT locations are shown **Figure 5-2**.

Table 5-3: Post-Construction SRTs performed on Public Systems

SRT Type	FY26	To-Date (through FY26)
Pre-Inspection Dye Test	52	253
CCTV Dye Test	2	72
Performance SRT	1	89
Total	**55**	**414**

Table 5-4: Public Systems with Post-Construction SRTs Performed

System Type	FY26	To-Date (through FY26)
Bumpout	1	30
Drainage Well	0	3
Permeable Pavement	0	2
Planter	4	20
Rain Garden	7	31
Stormwater Tree	2	12
Swale	1	6
Tree Trench	31	133
Trench	25	90
Total	**71**	**327**

Note: A single GSI system may consist of one or more SMPs; therefore, the number of SMPs tested may be larger than the number of GSI systems tested.

SRTs are performed during construction to assess system performance before PWD accepts ownership. A geomembrane liner performance requirement for fully lined GSI systems constitutes the majority of testing and ensures fully lined systems meet watertightness standards. Beginning in FY23, an existing contract with AKRF Inc., with their partner GreenUp, was expanded to include geomembrane liner performance testing to augment PWD's ability to test fully lined GSI systems during the construction process. 96 performance SRTs were conducted on fully lined public GSI systems between July 1, 2025

and June 30, 2026. To date (through FY26), a total of 447 construction-phase SRTs have been performed on public GSI systems of which 131 SRTs have been conducted with the support of AKRF Inc and GreenUp, with 58 of those having been performed in FY26.

Additionally, construction-phase SRTs may be performed by request if issues observed during construction require further investigation to resolve. Three such performance SRTs were conducted on public GSI systems between July 1, 2025 and June 30, 2026.

As described in **Table 5-5**, 99 total performance SRTs were performed from July 1, 2025 to June 30, 2026. The breakdown of SRTs per SMP type is shown in **Table 5-6**. FY26 SRT locations are shown **Figure 5-2**.

Table 5-5: Construction-Phase SRTs Performed on Public Systems

SRT Type	FY26	To-Date (through FY26)
Pre-Inspection Dye Test	0	4
CCTV Dye Test	0	2
Performance SRT	100	468
Total	**100**	**474**

Table 5-6: Public Systems with Construction-Phase SRTs Performed

System Type	FY26	To-Date (through FY26)
Basin	0	3
Bumpout	11	56
Rain Garden	0	17
Tree Trench	57	218
Trench	11	103
Planter	0	3
Swale	0	2
Total	**79**	**474**

Note: A single GSI system may consist of one or more SMPs; therefore, the number of SMPs tested may be larger than the number of GSI systems tested.

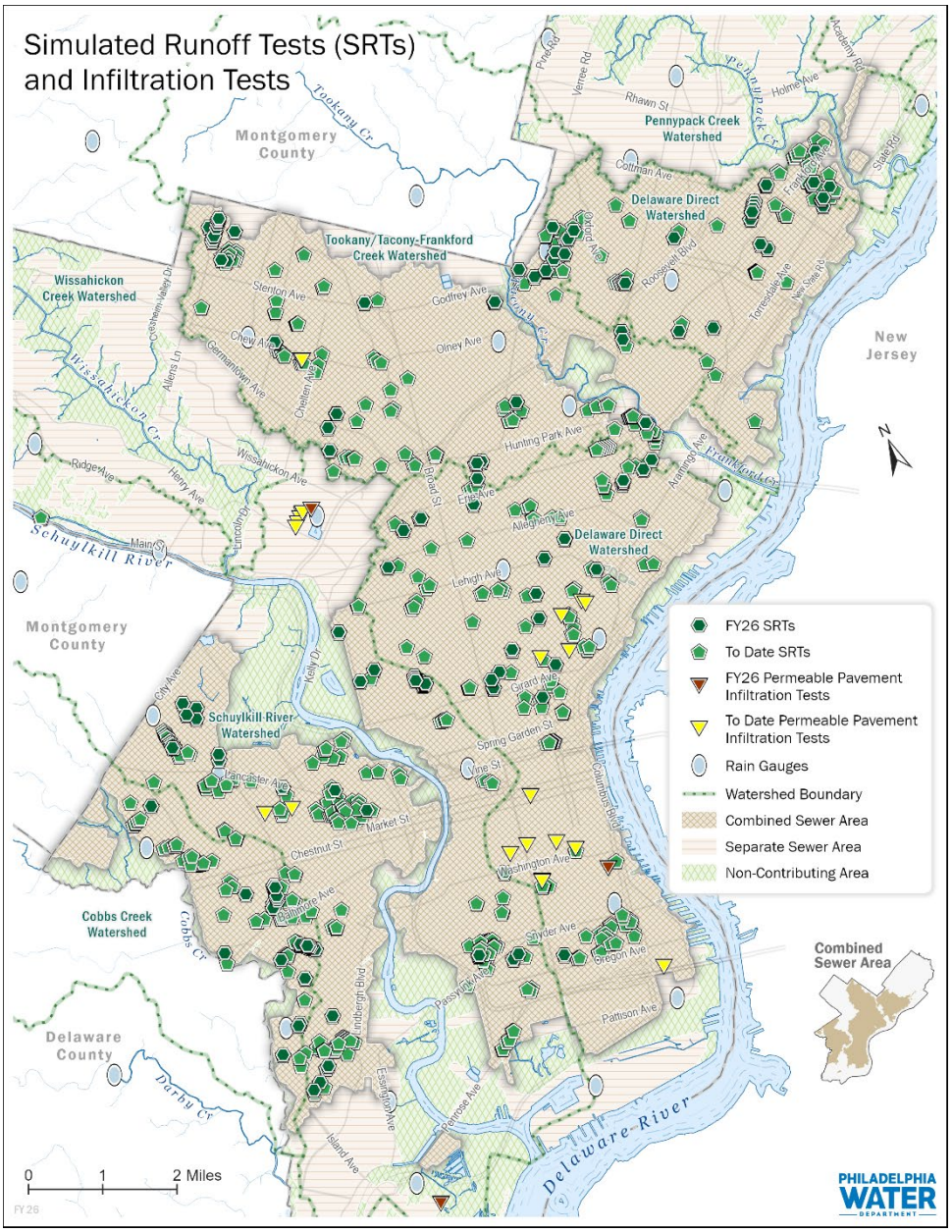


Figure 5-2: Simulated Runoff Tests and Porous Pavement Tests

5.3 Capture Efficiency Testing (CET)

Capture efficiency testing (CET) is performed on a GSI inlet or other inflow structure to assess how well the SMP is receiving flow. Typically, all inflow structures at a GSI system are tested to assess a GSI system's overall capture efficiency, which aids in understanding the system's overall performance. In FY26, 58 public GSI systems had capture efficiency testing (see **Table 5-7**). To date (through FY26), 591 public GSI systems have had capture efficiency testing.

Table 5-7: Public Systems with CETs Administered

	FY26	To-date (through FY26)
No. of Systems with CETs Administered	58	591

5.4 Porous Pavement and Permeable Paver Surface Infiltration Rate Testing

PWD uses ASTM Standards (ASTM Committee D18, ASTM C1701/C1701M-09 Standard Test method for Infiltration Rate of In Place Pervious Concrete, 2009) (ASTM Committee C15, 2013), with minor modifications for porous pavement and permeable paver infiltration testing. Development of these procedures was completed in FY13, and refinement of the methods is ongoing. Sections of schedule 60 PVC pipe are used as infiltration rings to perform multiple tests at a time. As described in **Table 5-8**, infiltration testing was performed on 3 public GSI systems in FY26 and 22 systems to date (through FY26). **Figure 5-2** shows the public GSI systems where infiltration testing has been performed.

Table 5-8: Public Systems with Infiltration Testing Administered

	FY26	To-Date (through FY26)
No. of Systems with Infiltration Testing Administered	3	22

5.5 Leakage Testing of GSI Structures

Public GSI structures, including green inlets, outlet structures, and weirs, are known to leak based on field observations during SRTs. Repair methods using injection foam and hydraulic cement have been piloted to address this issue. A leakage testing method was adopted in FY23 to measure leakage before and after repair work to determine the effectiveness of the repair. In FY26, 1 public GSI system had a leakage test performed. Repair work is ongoing and leakage testing will be utilized to assess the near- and long-term effectiveness of the repair method.

Table 5-9: Public Systems with Inlet Leakage Tests Administered

	FY26	To-Date (through FY26)
No. of Systems with Leakage Testing Administered	0	47

5.6 Inlet Conveyance Testing

Inlet conveyance testing (ICT) is performed on a green inlet or other GSI inflow structure to assess the maximum flow rate the structure can convey to the system. These tests are performed when monitoring data indicates a lack of SMP response to precipitation events, or after maintenance, repairs, or modifications are completed on inflow structures or connected distribution piping. These tests aid in determining if performance issues observed via monitoring data can be attributed to conveyance issues. In FY26, 23 inlet conveyance tests were performed on public GSI systems (see **Table 5-10**). To date (through FY26), 63 inlet conveyance tests have been performed on public GSI systems.

Table 5-10: Inlet Conveyance Tests Performed on Public Systems

	FY26	To-date (through FY26)
No. of ICTs Administered	23	63

5.7 Groundwater Level Monitoring for Public GSI

PWD installs sensors within groundwater monitoring wells near proposed SMP locations to characterize seasonal groundwater fluctuations and determine the feasibility of the site for the installation of GSI. As shown in **Table 5-11**, 3 sites were monitored in FY26 to assess the feasibility of the sites prior to GSI implementation. To date, 14 such sites have been monitored. PWD also installs sensors within groundwater monitoring wells near active SMPs to assess the effect of infiltrating SMPs on the water table. As shown in **Table 5-11**, groundwater monitoring was conducted at 7 systems in FY26, and a total of 17 GSI systems had post-construction groundwater monitoring to date.

Table 5-11: Groundwater Monitoring for Public GSI

Monitoring Phase	FY26	To-Date (through FY26)
Prior to Construction of GSI Systems	3	14
Post-Construction (Active GSI)	7	17

5.8 Retrofit Evaluations

The Retrofit Evaluation Team (RET) is a multi-unit team tasked to make decisions on GSI systems that are identified as exhibiting performance or compliance issues and establish and document protocols or tools to evaluate and repair green stormwater infrastructure (GSI). Decisions are based on a cost-benefit analysis and feasibility of implementation and are informed by the performance of other GSI pipelines, program affordability, and impact to surrounding infrastructure. Some examples of potential decisions include: additional testing or monitoring, redesign and reconstruct, recategorization, or retirement. Completed decisions, project compliance and financial metrics, and anticipated next steps are recorded through Decision Memos and reported to appropriate PWD teams.

6.0 Private GSI Monitoring and Testing

6.1 Continuous Water Level (CWL) Monitoring

During FY26, 44 sensor deployments were completed for CWL monitoring of private GSI systems with 6 newly monitored systems this fiscal year (see **Table 6-1**). A monitoring plan was developed to focus on testing and monitoring of a select number of private regulated GSI systems, and initial monitoring of these systems began in FY24. To date (through FY26), 565 sensor deployments have been completed for CWL monitoring of 35 private GSI systems. All private SMPs with post-construction CWL monitoring are shown in **Figure 6-1**. In addition, **Figure 6-1** shows the barometric pressure sensor and rain gauge locations that are utilized in the CWL monitoring process. **Table 6-2** is a breakdown by SMP type showing the number of private SMPs with CWL monitoring compared to the total number of SMPs of each type.

Table 6-1: Summary of Post-Construction CWL Monitoring of Private Systems

	FY26	To-Date (through FY26)
Sensor Deployments	44	565
Systems	14	35
Systems Newly Monitored	6	

Table 6-2: Post-Construction CWL Monitoring of Private Systems Listed by Type

System Type	Monitored SMPs To-Date (through FY26)
Basin	21
Bioinfiltration/Bioretention	14
Total	**35**

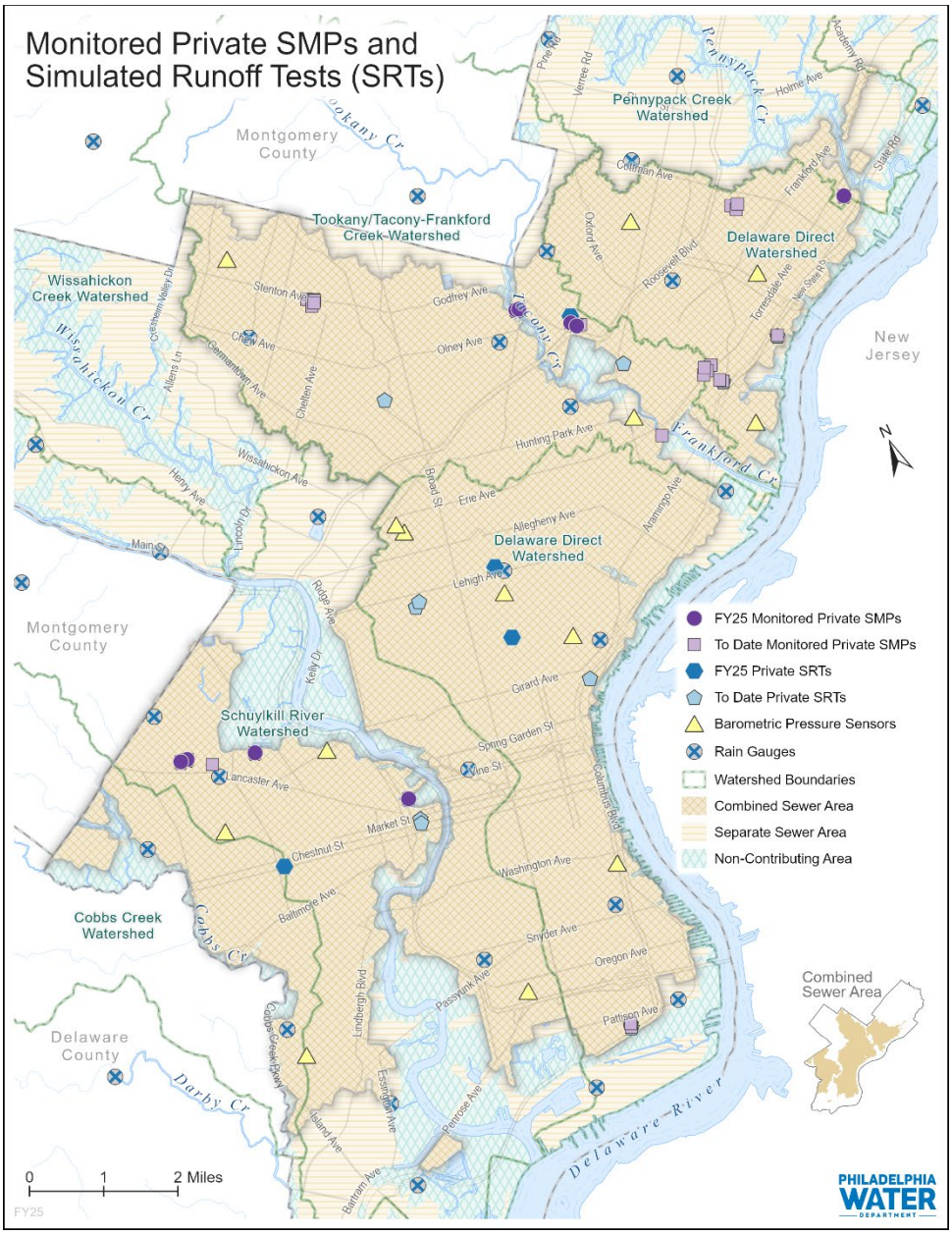


Figure 6-1: Location of Private SMPs with Post-Construction Monitoring and Testing

6.2 Simulated Runoff Testing (SRT)

Systems that show abnormal water level response typically undergo simulated runoff testing (SRT) using water hydrant flow, dye testing, and/or CCTV to determine if there are performance issues. Additionally, SRTs are performed at private regulated GSI systems for a baseline understanding of system performance prior to CWL monitoring, with this initiative beginning in FY24. As described in **Table 6-3**, 3 pre-inspection SRTs and 0 performance SRTs were performed on private GSI systems between July 1, 2025 and June 30, 2026. To date (through FY26), a total of 39 post-construction SRTs have been performed on private GSI systems. The breakdown of SRTs per SMP type is shown in **Table 6-4**. FY26 SRT locations are shown **Figure 6-1**.

Table 6-3: Post-Construction SRTs performed on Private Systems

SRT Type	FY26	To-Date (through FY26)
Pre-Inspection Dye Test	3	20
CCTV Dye Test	0	1
Performance SRT	0	18
Total	**3**	**39**

Table 6-4: Private SMPs with Post-Construction SRTs Performed

System Type	FY26	To-Date (through FY26)
Bioinfiltration/Bioretention	0	1
Basin	3	24
Total	**3**	**25**

6.3 Capture Efficiency Testing (CET)

Capture efficiency testing (CET) is performed on a GSI inlet or other inflow structure to assess how well flow is being directed into those structures. Typically, all inflow structures at a GSI system are tested to assess a GSI system's overall capture efficiency, which aids in understanding the system's overall performance. In FY26, capture efficiency testing was performed on 2 private GSI systems (see **Table 6-5**). To date (through FY26), capture efficiency testing has been performed on 21 private GSI systems.

Table 6-5: Private Systems with CETs Administered

	FY26	To-Date (through FY26)
No. of Systems with CETs Administered	2	21

6.4 Leakage Testing of GSI Structures

Older private GSI systems are known to have defective outlet structure weirs based on field observations. A retrofit of these weirs was implemented in FY23. A leakage testing method was adopted

to measure leakage to determine the effectiveness of the retrofit. In FY26, 6 private GSI systems had leakage tests performed.

6.5 Inlet Conveyance Testing

Inlet conveyance testing (ICT) is performed on a green inlet or other GSI inflow structure to assess the maximum flow rate the structure can convey to the system. These tests are performed when monitoring data indicates a lack of SMP response to precipitation events, or after maintenance, repairs, or modifications are completed on inflow structures or connected distribution piping. These tests aid in determining if performance issues observed via monitoring data can be attributed to conveyance issues. In FY26, inlet conveyance testing was performed on 0 private GSI systems (see **Table 6-6**). To date (through FY26), inlet conveyance testing has been performed on 6 private GSI systems.

Table 6-6: Private Systems with ICTs Administered

	FY26	To-Date (through FY26)
No. of Systems with ICTs Administered	0	6

6.6 Wet Weather Inspections

PWD performs wet weather inspections (WWIs) on private GSI systems when performing an SRT is not effective for evaluating system performance. This is often due to hydrant flow rate limitations compared to the drainage area and storage volume of a system, resulting in an insufficient volume of water delivered to the system in an acceptable timeframe. In FY26, a wet weather inspection was performed on 1 private GSI system (see **Table 6-7**) as part of monitoring activities. To date (through FY26), wet weather inspections have been performed on 4 private GSI systems to support monitoring activities.

Table 6-7: Private Systems with WWIs Administered

	FY26	To-Date (through FY26)
No. of Systems with WWIs Administered	1	4

7.0 Other Testing and Monitoring Efforts

7.1 Sewer System Monitoring

PWD continues to perform sewer system monitoring per the methods outlined in the CMP. More information is available in **Appendix B**.

7.2 Meteorological Monitoring

PWD continues to perform meteorological monitoring, including operation and maintenance of a rain gauge network, as described in the CMP. More information is available in **Appendix B.**

7.3 Glass Sand Pilot Study

PWD has scoped out a pilot program to use recycled glass sand in GSI stormwater soil. Olin Studio performed preliminary research on the use of recycled glass sand in a privately owned rain garden that suggested recycled glass sand has comparable characteristics to standard stormwater soil. Following this research, PWD developed a plan to expand on this research via monitoring of public GSI systems. In FY26, desired performance metrics, experimental sites, and control sites have been determined through coordination with Olin and a process involving desktop analysis, performance testing, and water level data collection. Following the completion of the justification memo, PWD will begin the development of specifications so the recycled glass sand can be implemented in construction documentation for the experimental sites. Following construction of the experimental sites, simulated runoff testing and long-term continuous water level monitoring will be conducted.

7.4 Surface Draindown Investigations

Surface SMPs that do not drain their ponding water within 24 hours are flagged for poor performance. When this issue is observed in construction and post-construction SMPs, a surface draindown investigation is performed. This investigation helps determine if the surface is not draining down due to subsurface draindown issues or if it can be attributed to other factors such as issues with the geotextile or poor soil infiltration. In FY26, 7 draindown investigations were performed, and options for remedial actions to improve surface draindown are being explored.

7.5 Collection System Dye Testing

PWD performs dye testing of gray inlets and private plumbing to identify sources of leakage into the sewer observed during testing and monitoring efforts, causes of sinkhole formations unrelated to GSI, and by request to aid in the GSI implementation process. In FY26, 3 collection system dye tests were performed (see **Table 7-1**). To date (through FY26), 32 collection system dye tests have been performed.

Table 7-1: Collection System Dye Tests Performed

	FY26	To-Date (through FY26)
No. of Collection System Dye Tests	3	32

8.0 CMP Implementation Successes and Challenges Encountered

In FY26, PWD developed pilot programs to perform studies and investigate issues with GSI as needed. A recycled glass sand pilot study has been researched and scoped, and performance testing and water level data were used to inform which SMPs should be chosen for control SMPs in the study. However, in planning out the metrics and SMPs that should be included in the pilot, it became clear there will not be exact comparisons between the experiment and control SMPs. Due to a lack of rain gardens planned for construction with similar enough design characteristics to use in the study, control SMPs that are already built will be used. These assumptions will be elaborated on in the pilot analysis.

Surface draindown investigations continue to positively impact the program. Following surface draindown investigations, solutions were recommended that successfully fixed the issues observed and restored performance of the SMPs. This project has led to an improved interdepartmental communication to identify and remediate surface draindown issues.

In preparation for the Year 15 EAP, a large-scale public post-construction testing initiative on public GSI was completed. Due to the timeline needed to gather data for the Year 15 EAP, 52 post-construction SRTs were completed in 10 months during FY26. This was the most tests PWD has completed in a 10-month span, which presented a variety of challenges. Competing office and field responsibilities needed to be balanced around testing needs, more extensive desktop analysis needed to be performed to prepare many tests in a week, and an increased summary development load needed to be addressed with less office time. Despite these challenges, the team completed this testing initiative in the original timeline with extensive short-circuiting details from each SMP.

The program has seen a continued demand for testing fully lined GSI systems during construction. Due to the time-sensitive nature of construction, a quick turnaround time is required for performing these SRTs. Methods have been refined and optimized accordingly to deliver testing results in an effective and timely fashion. Since FY23, SRTs have been performed on fully lined GSI systems with the support of AKRF Inc., an effort that has allowed PWD to dedicate more resources to other testing and monitoring activities, such as increasing the number of post-construction GSI systems that can be tested and monitored. Findings and observations from these testing efforts continue to lead to updates and improvements to GSI design standards.

Improvements to liner performance testing standards include the following. Based on historical liner testing data, contractors have improved the watertightness of fully lined systems drastically year over year. To reflect this improvement in watertightness, the original leakage limit of 1.0 in/hr was lowered to 0.50 in/hr. This increase in watertightness standards was an essential improvement to PWD's testing criteria as fully lined systems are designed and constructed in areas where it is critical that minimal to no infiltration can occur. Additionally, disincentive language was written into the geosynthetics spec section

02370 to enforce a $5,000 charge to contractors for failing a second liner test, as well as all liner tests that fail subsequently thereafter. This, by contrast, incentivizes contractors to address all sources of leakage after a first failed liner test prior to scheduling a follow up performance test.

PWD has continued to improve the integrity of CWL monitoring data by testing the pressure transducers used at field sites and repairing or disposing of faulty units. As of the end of FY26, all pressure transducers deployed at long term green inlet monitoring and barometric compensation sites have passed testing within the past two years. The new web application for tracking pressure transducer tests has facilitated this process and will enable PWD to sustain the testing process in future years. This effort, combined with the validation of monitoring elevations described in Section 2.2, has resulted in reliable measurements of critical monitoring elevations, including sump elevations, monitoring well depth and underdrain invert elevations, providing greater confidence in the calculation of SMP performance metrics.

FY26 saw a continuation of testing and monitoring private GSI systems to gain a better understanding of their performance, as they encompass a large percentage of GSI in Philadelphia and are significantly underrepresented in PWD's monitoring efforts. Extensive performance evaluations are conducted on these systems, and observations from testing and monitoring efforts continue to be incorporated into updates to the Philadelphia Stormwater Management Guidance Manual (SMGM), with the latest update effective July 1, 2026. Such updates include improving observation well requirements for better access and protection, improving outlet structure requirements to reduce water intrusion, and updating geomembrane liner requirements and geotextile specifications. Additionally, insights from testing and monitoring have resulted in changes to SMP guidance by including drainage wells as an approved SMP type, and no longer allowing certain types of porous surfaces, such as porous asphalt, porous concrete, and resin-bound aggregate.

Testing and monitoring of private GSI involves unique challenges, including increased coordination with multiple PWD units, and communication with third parties such as property owners and managers to provide notification of testing and monitoring activities and to ensure PWD has sufficient access to the property. Additionally, these systems may require wet weather inspections due to their drainage area and storage volume being too large for an SRT to be effective.

Software developed during FY26 will foster more interdepartmental collaboration as the GSI monitoring portfolio continues to expand and provide value as more research into GSI performance, maintenance, and construction is performed. Issue tracking with other PWD databases has become more tightly integrated, and internal asset tracking continues to refine as the sensor hub and the liner testing app mature.

Significant time was devoted to data integrity efforts in FY26. The centrality of the Year 15 EAP in the regulatory reporting regime demanded a thorough effort to verify what data PWD intended to use for its analyses. These efforts have exposed difficulties in the QA process, which served to highlight areas of

opportunity for improvement in workflows that have existed for more than a decade. Through these efforts, PWD will make a great leap forward in modernizing its monitoring methods, ensuring a robust Year 15 EAP and analyses yet to come.

An extensive review of design, survey, and fieldwork documentation of over 300 monitoring locations was completed to validate elevations of observation well sumps and underdrain orifices, allowing for more accurate interpretation of water level data. The procedure used for calculating these elevations is used for all new monitoring locations, and the fieldwork app has been updated to store this information and make it easily accessible. This has significantly reduced the time required to interpret data.

Data gathered from liner performance testing, as well as information collected from consultation with geosynthetic industry experts, has resulted in significant improvements to product and execution standards. Updates to the master GSI spec section 02370 Geosynthetics include the following. Additional flexible geomembrane material options have been added to include polyvinyl chloride (PVC) and polypropylene (PP), in addition to the originally specified HDPE and LLDPE options. These additional flexible geomembranes not only allow for more options to contractors but also compensate for deflection of the geomembrane caused by soil movement. Additionally, stainless-steel bands for geomembrane pipe boots have been updated from perforated worm gear style clamps to unperforated stainless-steel bands secured with a stainless-steel buckle. This style of stainless-steel clamp requires no maintenance and provides a better watertight seal at geomembrane pipe penetrations. Furthermore, PWD has made improvements to the typical partially lined and fully lined stormwater trench details through the following contributions. The protective geotextile layer installed between the geomembrane and backfill has been updated from a six-inch tuck at the bottom of the system, to extending the geotextile to the full design depth of a system. Additionally, for all fully lined systems, a six-inch sand layer below the system will be required. Both updates allow for additional protection of the geomembrane liner which is essential for watertightness and for avoiding water infiltration into or toward critical areas which it must be prevented. Finally, the batten bar detail of geomembrane attached to concrete structures was improved based on liner performance testing of the Flat Rock Dam rain gardens. Slippage and tearing of the geomembrane at the anchor bolts and batten strip were observed during these liner performance tests. To align with industry standards, a welded seam of the geomembrane liner above the batten bar, with a hem and encapsulated polypropylene rope has been added to the typical detail to counter potential slippage and tearing of the geomembrane liner. In addition, protective layers of geotextile have been added to the batter bar detail to protect the back side of the geomembrane to the concrete structure, as well as another layer to protect the batten bar itself.

Appendix B – Flow Monitoring

APPENDIX B – FLOW MONITORING

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Table 1 - Summary of All Monitors

	# of Permanent Monitors	# of Temporary Monitors
Combined/Separate Sewer Monitors	444	69
Outlying Community Monitors	45	19
Pumping Stations	91	-
Rain Gages	37	1
Total	617	89

Table 2 - Listing of Monitored Outlying Community Connections

Site ID	Connection Type	Township	Measurement Name	Measurement Type
MA_1	STD	Abington	TEMPORARY	FLOW
MA_2	MTR	Abington	METERING CHAMBER FLOW	FLOW
MA_3	STD	Abington	TEMPORARY	FLOW
MA_4	STD	Abington	TEMPORARY	FLOW
MAx1	STD	Abington	TEMPORARY	FLOW
MB_1	MTR	Bucks Co.	METERING CHAMBER FLOW	FLOW
MBE_01	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_02	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_03	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_04	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_05	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_06	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_07	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_08	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_09	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_10	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_11	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_12	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_13	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_14	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_15		Bensalem	UNMONITORED	
MBE_16	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MBE_17	MTR	Bensalem	METERING CHAMBER FLOW	FLOW
MC_1	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MC_2	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MC_3	MTR	Abington	METERING CHAMBER FLOW	FLOW
MCx_1	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_2	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_3	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_4	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_5	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_6	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MCx_7	MTR	Cheltenham	METERING CHAMBER FLOW	FLOW
MD_1	MTR	Delaware Co.	METERING CHAMBER FLOW	FLOW
ML_1	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML_2	STD	Lower Merion	TEMPORARY	FLOW
ML_3	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW

Site ID	Connection Type	Township	Measurement Name	Measurement Type
ML_4	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML_5	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML_6	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML_7	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML-8	MTR	Lower Merion	METERING CHAMBER FLOW	FLOW
ML-9	STD	Lower Merion	TEMPORARY	FLOW
MLM_1	MTR	Lower Moreland	METERING CHAMBER FLOW	FLOW
MLM_2	MTR	Lower Moreland	METERING CHAMBER FLOW	FLOW
MLM_3	STD	Lower Moreland	TEMPORARY	FLOW
MLM_4	STD	Lower Moreland	TEMPORARY	FLOW
MLM_5	STD	Lower Moreland	TEMPORARY	FLOW
MLM_6	STD	Lower Moreland	TEMPORARY	UNKNOWN
MLM_7	STD	Lower Moreland	TEMPORARY	UNKNOWN
MS_1	STD	Springfield	TEMPORARY	FLOW
MS_2	MTR	Springfield	METERING CHAMBER FLOW	FLOW
MS_3	MTR	Springfield	METERING CHAMBER FLOW	FLOW
MS_4	STD	Springfield	TEMPORARY	FLOW
MS_5	STD	Springfield	TEMPORARY	FLOW
MS_6	MTR	Springfield	METERING CHAMBER FLOW	FLOW
MS_7	STD	Springfield	TEMPORARY	UNKNOWN
MS_8	STD	Springfield	TEMPORARY	FLOW
MSH_1	MTR	Southampton	METERING CHAMBER FLOW	FLOW
MSH_2	STD	Southampton	TEMPORARY	FLOW
MSHX_1	STD	Southampton	TEMPORARY	FLOW
MSHX_2	STD	Southampton	TEMPORARY	FLOW
MUD_1N	MTR	Upper Darby	METERING CHAMBER FLOW	FLOW
MUD_1S	MTR	Upper Darby	METERING CHAMBER FLOW	FLOW
MUD_1O	MTR	Upper Darby	METERING CHAMBER FLOW	FLOW

*STD – temporary flow monitor

**MTR – Permanent monitor

Table 3 - Listing of Combined/Separate Sewer Monitors

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
C_01	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_01	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_02	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_02	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_04	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_04	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_04A	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_04A	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_05	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_05	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_06	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_06	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_07	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_07	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_09	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_09	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_10	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_10	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_11	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_11	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_12	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_12	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_14	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_14	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_15	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_15	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_17	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_17	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_18	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_18	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_19	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_19	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_20	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_20	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_21	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_21	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_22	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_22	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_23	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_23	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_24	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_24	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
C_26	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_26	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_28A	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_28A	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_29	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_29	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_30	Cobbs Creek Low Level	Cobbs Creek	SWO LEVEL	LEVEL
C_30	Cobbs Creek Low Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_31	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_31	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_32	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_32	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_33	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_33	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_34	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_34	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_35	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_35	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_36	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_36	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
C_37	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
C_37	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
CSPS	Central Schuylkill	Schuylkill River	INTERCEPTOR LEVEL N	LEVEL
CSPS	Central Schuylkill	Schuylkill River	INTERCEPTOR LEVEL S	LEVEL
D_02	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_02	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_02	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_02	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_02	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_03	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_03	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_03	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_03	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_03	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_04	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_04	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_05	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_05	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_05	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_05	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_05	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_06	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_06	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_07	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
D_07	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_07	Upper Delaware Low Level	Delaware River	SWO GATE POSITION 1	POSITION
D_07	Upper Delaware Low Level	Delaware River	SWO GATE POSITION 2	POSITION
D_07	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_07	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_08	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_08	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_09	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_09	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_09	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_09	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_11	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_11	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_11	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_11	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_11	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_12	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_12	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_13	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_13	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_15	Upper Delaware Low Level	Delaware River	DWO GATE POSITION	POSITION
D_15	Upper Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_15	Upper Delaware Low Level	Delaware River	SWO GATE POSITION	POSITION
D_15	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_15	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_17	Somerset	Delaware River	SWO LEVEL	LEVEL
D_17	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_18	Somerset	Delaware River	SWO LEVEL	LEVEL
D_18	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_19	Somerset	Delaware River	SWO LEVEL	LEVEL
D_19	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_20	Somerset	Delaware River	SWO LEVEL	LEVEL
D_20	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_21	Somerset	Delaware River	SWO LEVEL	LEVEL
D_21	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_22	Somerset	Delaware River	SWO LEVEL	LEVEL
D_22	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_23	Somerset	Delaware River	SWO LEVEL	LEVEL
D_23	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_24	Somerset	Delaware River	SWO LEVEL	LEVEL
D_24	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_25	Somerset	Delaware River	SWO LEVEL	LEVEL
D_25	Somerset	Delaware River	TRUNK LEVEL	LEVEL
D_37	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
D_37	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_38	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_38	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_39	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_39	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_40	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_40	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_41	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_41	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_42	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_42	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_43	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_43	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_44	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_44	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_45	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_45	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_46	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_46	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_47	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_47	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_48	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_48	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_49	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_49	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_50	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_50	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_51	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_51	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_51	Lower Delaware Low Level	Delaware River	DWO LEVEL	LEVEL
D_52	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_52	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_53	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_53	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_54	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_54	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_58	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_58	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_61	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_61	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_62	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_62	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_63	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_63	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
D_64	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_64	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_65	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_65	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_66	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_66	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_67	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_67	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_68	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_68	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_69	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_69	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_70	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_70	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_72	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_72	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
D_73	Lower Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
D_73	Lower Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
F_03	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_03	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_04	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_04	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_05	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_05	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_06	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_06	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_07	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_07	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_08	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_08	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_09	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_09	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_10	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_10	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_11	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_11	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_12	Lower Frankford Low Level	Frankford Creek	SWO LEVEL	LEVEL
F_12	Lower Frankford Low Level	Frankford Creek	TRUNK LEVEL	LEVEL
F_13	Lower Frankford Creek	Frankford Creek	SWO LEVEL	LEVEL
F_13	Lower Frankford Creek	Frankford Creek	TRUNK LEVEL	LEVEL
F_14	Lower Frankford Creek	Frankford Creek	SWO LEVEL	LEVEL
F_14	Lower Frankford Creek	Frankford Creek	TRUNK LEVEL	LEVEL
F_23	Lower Frankford Creek	Frankford Creek	SWO LEVEL	LEVEL
F_23	Lower Frankford Creek	Frankford Creek	TRUNK LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
F_24	Lower Frankford Creek	Frankford Creek	SWO LEVEL	LEVEL
F_24	Lower Frankford Creek	Frankford Creek	TRUNK LEVEL	LEVEL
F_25	Lower Frankford Creek	Frankford Creek	DWO GATE POSITION	POSITION
F_25	Lower Frankford Creek	Frankford Creek	DWO LEVEL	LEVEL
F_25	Lower Frankford Creek	Frankford Creek	SWO GATE POSITION	POSITION
F_25	Lower Frankford Creek	Frankford Creek	SWO LEVEL	LEVEL
F_25	Lower Frankford Creek	Frankford Creek	TRUNK LEVEL	LEVEL
H_29		Schuylkill River	DWO LEVEL	LEVEL
H_29		Schuylkill River	SWO LEVEL	LEVEL
H_29		Schuylkill River	TRUNK LEVEL	LEVEL
H_35		Schuylkill River	BLOWER 1 RUN	EVENT
H_35		Schuylkill River	BLOWER 2 RUN	EVENT
H_35		Schuylkill River	DAM AIR PRESSURE	PSI
H_35		Schuylkill River	DWO GATE POSITION	POSITION
H_35		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
H_35		Schuylkill River	SWO GATE OPEN	EVENT
H_35		Schuylkill River	TRUNK LEVEL	LEVEL
I_BYH09		Byberry Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLC07	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLC14	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLC17	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLC18	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLC34	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCHLH18	Cobbs Creek High Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLC19	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLC20	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLC22	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLC24	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLC26	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_CCLLH01	Cobbs Creek Low Level	Cobbs Creek	INTERCEPTOR LEVEL	LEVEL
I_COHOH16		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_CSESS17	Central Schuylkill East Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_CSESS26	Central Schuylkill East Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_CVBH08		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_FHLTT08	Frankford High Level	Frankford Creek	INTERCEPTOR LEVEL	LEVEL
I_FHLTT15	Frankford High Level	Frankford Creek	INTERCEPTOR LEVEL	LEVEL
I_LDLLD47	Lower Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_LDLLD53	Lower Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_LDLLD69	Lower Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_LDLLD70	Lower Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_LFCH19	Lower Frankford Creek	Frankford Creek	INTERCEPTOR LEVEL	LEVEL
I_LSESS36A	Lower Schuylkill East Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_LSWSH01	Lower Schuylkill West Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_LSWSS33	Lower Schuylkill West Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
I_LSWSS38	Lower Schuylkill West Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_LSWSS45	Lower Schuylkill West Side	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_MRH21	Main Relief Sewer	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_OH12		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_PASYH13		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_PDRLH01		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_PDRLH02		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_PENRH02		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_PH04	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PH05	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PH06	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PH10	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PP02	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PP05	Pennypack	Pennypack Creek	INTERCEPTOR LEVEL	LEVEL
I_PQH09	Poquessing	Poquessing Creek	INTERCEPTOR LEVEL	LEVEL
I_PRH10		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SD19	Somerset	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_SD21	Somerset	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_SD25	Somerset	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_SRH05		Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGCHLH01	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGEHLH01	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGH17	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGH20	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGS28	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGS34	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGS43	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGS47	Southwest Main Gravity	Schuylkill River	INTERCEPTOR LEVEL	LEVEL
I_SWMGWHLH01	Southwest Main Gravity	Schuylkill River	INTERCEPTOR FLOW	FLOW
I_UDLLD08	Upper Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_UDLLH04N	Upper Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_UDLLH07	Upper Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_UDLLH14	Upper Delaware Low Level	Delaware River	INTERCEPTOR LEVEL	LEVEL
I_WBH06		Wissahickon Creek	INTERCEPTOR LEVEL	LEVEL
I_WHLH08	Wissahickon High Level	Wissahickon Creek	INTERCEPTOR LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
P_01	Pennypack	Pennypack Creek	SWO LEVEL	LEVEL
P_01	Pennypack	Pennypack Creek	TRUNK LEVEL	LEVEL
P_02	Pennypack	Pennypack Creek	SWO LEVEL	LEVEL
P_02	Pennypack	Pennypack Creek	TRUNK LEVEL	LEVEL
P_03	Pennypack	Pennypack Creek	SWO LEVEL	LEVEL
P_03	Pennypack	Pennypack Creek	TRUNK LEVEL	LEVEL
P_04	Pennypack	Pennypack Creek	SWO LEVEL	LEVEL
P_04	Pennypack	Pennypack Creek	TRUNK LEVEL	LEVEL
P_05	Pennypack	Pennypack Creek	SWO LEVEL	LEVEL
P_05	Pennypack	Pennypack Creek	TRUNK LEVEL	LEVEL
R_06	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
R_06	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
R_07	Main Relief Sewer	Schuylkill River	SWO LEVEL	LEVEL
R_07	Main Relief Sewer	Schuylkill River	TRUNK LEVEL	LEVEL
R_12	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
R_12	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
R_13	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
R_13	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
R_14	Upper Delaware Low Level	Delaware River	SWO LEVEL	LEVEL
R_14	Upper Delaware Low Level	Delaware River	TRUNK LEVEL	LEVEL
R_15	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
R_15	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
R_18	Frankford High Level	Tacony Creek	INTERCEPTOR LEVEL	LEVEL
R_18	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
R_20	Central Schuylkill East Side	Schuylkill River	INTERCEPTOR LEVEL (PRESSURE)	LEVEL
R_20	Central Schuylkill East Side	Schuylkill River	INTERCEPTOR LEVEL (RADAR)	LEVEL
R_20	Central Schuylkill East Side	Schuylkill River	STORMWATER LEVEL	LEVEL
R_24	Cobbs Creek High Level	Cobbs Creek	SWO LEVEL	LEVEL
R_24	Cobbs Creek High Level	Cobbs Creek	TRUNK LEVEL	LEVEL
S_01	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_01	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_03	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_03	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_04	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_04	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_05	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_05	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_06	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_06	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_07	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_07	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_08	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
S_08	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_11	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_11	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_12	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_12	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_12A	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_12A	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_13	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_13	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_15	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_15	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_17	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_17	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_18	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_18	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_22	Central Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_22	Central Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_23	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_23	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_24	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_24	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_25	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_25	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_26	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_26	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_27	Central Schuylkill East Side	Schuylkill River	DWO LEVEL	LEVEL
S_27	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_27	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_28	Central Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_28	Central Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_30	Southwest Main Gravity	Schuylkill River	SWO LEVEL	LEVEL
S_30	Southwest Main Gravity	Schuylkill River	TRUNK LEVEL	LEVEL
S_31	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_31	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_32	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_32	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_32	Lower Schuylkill West Side	Schuylkill River	DWO LEVEL	LEVEL
S_33	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_33	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_34	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_34	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_35	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_35	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_36	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
S_36	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_36A	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_36A	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_37	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_37	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_38	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_38	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_39	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_39	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_40	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_40	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_42	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_42	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_42A	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_42A	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_43	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_43	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_44	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_44	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_45	Lower Schuylkill West Side	Schuylkill River	DWO LEVEL	LEVEL
S_45	Lower Schuylkill West Side	Schuylkill River	SWO LEVEL	LEVEL
S_45	Lower Schuylkill West Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_46	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_46	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_47	Lower Schuylkill East Side	Schuylkill River	SWO LEVEL	LEVEL
S_47	Lower Schuylkill East Side	Schuylkill River	TRUNK LEVEL	LEVEL
S_50	Southwest Main Gravity	Schuylkill River	SWO LEVEL	LEVEL
S_50	Southwest Main Gravity	Schuylkill River	TRUNK LEVEL	LEVEL
S_51	Southwest Main Gravity	Schuylkill River	SWO LEVEL	LEVEL
S_51	Southwest Main Gravity	Schuylkill River	TRUNK LEVEL	LEVEL
T_01	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_01	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_03	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_03	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_04	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_04	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_05	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_05	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_06	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_06	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_07	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_07	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_08	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_08	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL

Site Name	Interceptor	Waterbody	Measurement Name	Measurement Type
T_09	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_09	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_10	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_10	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_11	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_11	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_12	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_12	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_13	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_13	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_14	Frankford High Level	Tacony Creek	DWO GATE 1	POSITION
T_14	Frankford High Level	Tacony Creek	DWO GATE 2	POSITION
T_14	Frankford High Level	Tacony Creek	SWO CREST GATE	POSITION
T_14	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_14	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL
T_15	Frankford High Level	Tacony Creek	SWO LEVEL	LEVEL
T_15	Frankford High Level	Tacony Creek	TRUNK LEVEL	LEVEL

Table 4 - Listing of all Rain Gages (7/1/2025 - 6/30/2026)

Rain Gage	Location	Percent Working
RG_1	70th and Essington Ave	0.00%
RG_2	66th and Regent St	96.51%
RG_3	Fox Chase Rd. and Castor Ave	85.44%
RG_4	State Rd and Pennypack St	93.91%
RG_5	3rd and Mifflin St	96.67%
RG_6	Cardinal Ave and City Line Ave	96.73%
RG_7	G St. and E Annsbury St	92.88%
RG_8	N Water St. and E Clarkson Ave	48.27%
RG_9	54th and Lancaster Ave	96.26%
RG_10	Pine Rd and Susquehanna Rd	95.43%
RG_11	Rising Sun Ave and Lardner St	95.72%
RG_12	Pattison Ave and Columbus Blvd	95.66%
RG_13	Glendale Ave and Algon Ave	96.64%
RG_14	Delaware Ave and Lewis St	73.03%
RG_15	E Montgomery Ave and Thompson St	0.00%
RG_16	19th and Wood St	96.46%
RG_17	Saul St. and Benner St	85.02%
RG_18	Fox St. and Roosevelt Blvd	76.95%
RG_19	Chew Ave and Sharpnack St	96.82%
RG_20	Woodhaven Rd and Knights Rd	86.36%
RG_21	Shawmont Ave and Eva St	96.75%
RG_22	N 67th and Callowhill St	83.19%
RG_23	Penrose Ave and Mingo Ave	94.08%
RG_24	Lockart Rd and Lockart Ln	76.53%
RG_25	24th and Wolf St	96.75%
RG_26	621 Lehigh Ave	74.58%
RG_27	Grant Ave and Ashford Rd	94.38%
RG_28	1350 Southampton Rd	87.09%
RG_29	Springfield Way and PaperMill Rd	90.64%
RG_30	7609 Montgomery Ave	0.11%
RG_31	Valley Rd and Old Valley Rd	94.51%
RG_32	Rozel Ave and Crushmore Rd	84.52%
RG_33	Jackson St and E Broadway Ave	95.53%
RG_34	Lawrence Rd and Chester Ave	0.00%
RG_35	Hagysford Rd and Tower Lane	96.63%
RG_36	Schuylkill Canal and Lock St	96.63%
RG_37	S 13 St and Normandy Pl	96.20%

Table 5 - Listing of All Pumping Station Monitors

Monitor ID	Type of Pumping Station	Measurement Name	Measurement Type	Address
PS_26VA	Storm Water	PUMP 1 RUN	EVENT	26th and Vare Ave
PS_26VA	Storm Water	PUMP 2 RUN	EVENT	27th and Vare Ave
PS_26VA	Storm Water	WET WELL LEVEL	LEVEL	28th and Vare Ave
PS_42ST	Waste Water	PUMP 1 RUN	EVENT	761 S 43rd St
PS_42ST	Waste Water	PUMP 2 RUN	EVENT	762 S 43rd St
PS_42ST	Waste Water	PUMP 3 RUN	EVENT	763 S 43rd St
PS_42ST	Waste Water	WET WELL LEVEL	LEVEL	764 S 43rd St
PS_BANK	Waste Water	PUMP 1 RUN	EVENT	15 S Bank St (Bank & Elbow Ln)
PS_BANK	Waste Water	PUMP 2 RUN	EVENT	16 S Bank St (Bank & Elbow Ln)
PS_BANK	Waste Water	WET WELL LEVEL	LEVEL	17 S Bank St (Bank & Elbow Ln)
PS_BELD	Waste Water	PUMP 1 RUN	EVENT	751 S Manatawna St (Belfry & Steeple)
PS_BELD	Waste Water	PUMP 2 RUN	EVENT	752 S Manatawna St (Belfry & Steeple)
PS_BELD	Waste Water	WET WELL LEVEL	LEVEL	753 S Manatawna St (Belfry & Steeple)
PS_BELD	Waste Water	TOTAL FLOW	FLOW	753 S Manatawna St (Belfry & Steeple)
PS_BLVD	Storm Water	PUMP 1 RUN	EVENT	4251 N Broad St (Broad & Roosevelt Blvd)
PS_BLVD	Storm Water	PUMP 2 RUN	EVENT	4252 N Broad St (Broad & Roosevelt Blvd)
PS_BLVD	Storm Water	PUMP 3 RUN	EVENT	4253 N Broad St (Broad & Roosevelt Blvd)
PS_BLVD	Storm Water	PUMP 4 RUN	EVENT	4254 N Broad St (Broad & Roosevelt Blvd)
PS_BLVD	Storm Water	WET WELL LEVEL	LEVEL	4255 N Broad St (Broad & Roosevelt Blvd)
PS_CSPS	Waste Water	N GATE POSITION	POSITION	600 University Ave (34th St Bridge & University)

Monitor ID	Type of Pumping Station	Measurement Name	Measurement Type	Address
PS_CSPS	Waste Water	N SIPHON LEVEL	LEVEL	601 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	N SIPHON LEVEL	LEVEL	602 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	N WET WELL LEVEL	LEVEL	603 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 1 RUN	EVENT	604 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 2 RUN	EVENT	605 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 3 RUN	EVENT	606 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 4 RUN	EVENT	607 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 5 RUN	EVENT	608 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 6 RUN	EVENT	609 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 1 FLOW	FLOW	604 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 2 FLOW	FLOW	605 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 3 FLOW	FLOW	606 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 4 FLOW	FLOW	607 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 5 FLOW	FLOW	608 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	PUMP 6 FLOW	FLOW	609 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	S GATE POSITION	POSITION	610 University Ave (34th St Bridge & University)
PS_CSPS	Waste Water	S WET WELL LEVEL	LEVEL	611 University Ave (34th St Bridge & University)
PS_FORD	Waste Water	PUMP 1 RUN	EVENT	3800 Ford Rd (Across from West Park Hospital)
PS_FORD	Waste Water	PUMP 2 RUN	EVENT	3801 Ford Rd (Across from West Park Hospital)
PS_FORD	Waste Water	WET WELL LEVEL	LEVEL	3802 Ford Rd (Across from West Park Hospital)
PS_HOGI	Waste Water	PUMP 1 RUN	EVENT	3 Hog Island Rd (east of Airport control tower)
PS_HOGI	Waste Water	PUMP 2 RUN	EVENT	4 Hog Island Rd (east of Airport control tower)

Monitor ID	Type of Pumping Station	Measurement Name	Measurement Type	Address
PS_HOGI	Waste Water	WET WELL LEVEL	LEVEL	5 Hog Island Rd (east of Airport control tower)
PS_LIND	Waste Water	PUMP 1 RUN	EVENT	5200 Linden Ave (Linden & Milnor)
PS_LIND	Waste Water	PUMP 2 RUN	EVENT	5201 Linden Ave (Linden & Milnor)
PS_LIND	Waste Water	WET WELL LEVEL	LEVEL	5202 Linden Ave (Linden & Milnor)
PS_LIND	Waste Water	TOTAL FLOW	LEVEL	5202 Linden Ave (Linden & Milnor)
PS_LOCK	Waste Water	PUMP 1 RUN	EVENT	10778 Lockart Rd (Lockart St & Locart Ln)
PS_LOCK	Waste Water	PUMP 2 RUN	EVENT	10779 Lockart Rd (Lockart St & Locart Ln)
PS_LOCK	Waste Water	WET WELL LEVEL	LEVEL	10780 Lockart Rd (Lockart St & Locart Ln)
PS_LOCK	Waste Water	INLET MANHOLE LEVEL	LEVEL	10780 Lockart Rd (Lockart St & Locart Ln)
PS_MILN	Waste Water	PUMP 1 RUN	EVENT	9647 Milnor St (between Grant Ave & Eden St)
PS_MILN	Waste Water	PUMP 2 RUN	EVENT	9648 Milnor St (between Grant Ave & Eden St)
PS_MILN	Waste Water	PUMP 3 RUN	EVENT	9649 Milnor St (between Grant Ave & Eden St)
PS_MILN	Waste Water	WET WELL LEVEL	LEVEL	9650 Milnor St (between Grant Ave & Eden St)
PS_MING	Storm Water	BASIN LEVEL	LEVEL	7000 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 1 RUN	EVENT	7001 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 2 RUN	EVENT	7002 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 3 RUN	EVENT	7003 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 4 RUN	EVENT	7004 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 5 RUN	EVENT	7005 Penrose Ave (Schuylkill River under Platt Bridge)
PS_MING	Storm Water	PUMP 6 RUN	EVENT	7006 Penrose Ave (Schuylkill River under Platt Bridge)
PS_NEIL	Waste Water	PUMP 1 RUN	EVENT	4000 Neill Dr (Neill Dr & Falls Rd)
PS_NEIL	Waste Water	PUMP 2 RUN	EVENT	4001 Neill Dr (Neill Dr & Falls Rd)

Monitor ID	Type of Pumping Station	Measurement Name	Measurement Type	Address
PS_NEIL	Waste Water	PUMP 3 RUN	EVENT	4002 Neill Dr (Neill Dr & Falls Rd)
PS_NEIL	Waste Water	PUMP 1 FLOW	FLOW	4000 Neill Dr (Neill Dr & Falls Rd)
PS_NEIL	Waste Water	PUMP 2 FLOW	FLOW	4001 Neill Dr (Neill Dr & Falls Rd)
PS_NEIL	Waste Water	PUMP 3 FLOW	FLOW	4002 Neill Dr (Neill Dr & Falls Rd)
PS_NEIL	Waste Water	WET WELL LEVEL	LEVEL	4003 Neill Dr (Neill Dr & Falls Rd)
PS_P603	Waste Water	PUMP 1 RUN	EVENT	2000 Langley Ave (PNBC)
PS_P603	Waste Water	PUMP 2 RUN	EVENT	2001 Langley Ave (PNBC)
PS_P603	Waste Water	PUMP 3 RUN	EVENT	2001 Langley Ave (PNBC)
PS_P603	Waste Water	PUMP 4 RUN	EVENT	2001 Langley Ave (PNBC)
PS_P603	Waste Water	WET WELL LEVEL	LEVEL	2002 Langley Ave (PNBC)
PS_P648	Waste Water	PUMP 1 RUN	EVENT	PNBC
PS_P648	Waste Water	PUMP 2 RUN	EVENT	PNBC
PS_P648	Waste Water	WET WELL LEVEL	LEVEL	PNBC
PS_P796	Waste Water	PUMP 1 RUN	EVENT	4801 S 13th St (PNBC)
PS_P796	Waste Water	PUMP 2 RUN	EVENT	4802 S 13th St (PNBC)
PS_P796	Waste Water	PUMP 3 RUN	EVENT	4803 S 13th St (PNBC)
PS_P796	Waste Water	WET WELL LEVEL	LEVEL	4804 S 13th St (PNBC)
PS_POLI	Waste Water	PUMP 1 RUN	EVENT	
PS_POLI	Waste Water	PUMP 2 RUN	EVENT	
PS_POLI	Waste Water	WET WELL LEVEL	LEVEL	
PS_RENN	Waste Water	PUMP 1 RUN	EVENT	11064 Rennard St (Philmont Shopping Center)
PS_RENN	Waste Water	PUMP 2 RUN	EVENT	11065 Rennard St (Philmont Shopping Center)

Monitor ID	Type of Pumping Station	Measurement Name	Measurement Type	Address
PS_RENN	Waste Water	WET WELL LEVEL	LEVEL	11066 Rennard St (Philmont Shopping Center)
PS_RENN	Waste Water	TOTAL FLOW	FLOW	11066 Rennard St (Philmont Shopping Center)
PS_SPLA	Waste Water	PUMP 1 RUN	EVENT	9021 Buttonwood Pl (Spring Lane Meadows)
PS_SPLA	Waste Water	PUMP 2 RUN	EVENT	9022 Buttonwood Pl (Spring Lane Meadows)
PS_SPLA	Waste Water	WET WELL LEVEL	LEVEL	9023 Buttonwood Pl (Spring Lane Meadows)

Table 6 - Listing of all Temporary Flow Monitors Deployed by Projects

Site Name	Start	End	Project
S05-000012	03/30/11	Present	CSO
S45-001110	10/13/11	Present	CSO Long-term
D63-000035	10/14/11	Present	CSO Long-term
BC-0055	11/30/11	Present	I&I Long-term
IALL-B0355	12/12/11	Present	I&I Long-term
C17-003360	12/13/11	Present	CSO Long-term
T14-013875	01/30/12	Present	CSO Long-term; SFR Support
M005-09-0140	09/27/12	Present	Stormwater Long-term; SFR Support
PC-0040	01/21/14	Present	I&I Long-term; SSO Support
D45-000015	05/08/14	Present	CSO Long-term
UDLL-0045	5/29/2014	Present	CSO Long-term
UDLL-0085	06/25/14	Present	CSO Long-term
UDLL-0275	09/19/14	Present	CSO Long-term
SW WPCP P	10/10/14	Present	WPCP
SW WPCP Q	10/10/14	Present	WPCP
SW WPCP R	10/10/14	Present	WPCP
WLL-0675	03/13/15	Present	I&I Long-term
THL-0085	04/14/15	Present	CSO Long-term
UDLL-0120	07/29/15	Present	CSO Long-term
S051-08-S0015	04/28/16	Present	I&I Long-term; SSO Support
S051-08-S0180	04/29/16	Present	I&I Long-term; SSO Support
S059-04-S0027	05/04/16	Present	I&I Long-term; SSO Support
GSI DST-010-03	05/24/17	Present	GSI Long-term
GSI DD RG	06/23/17	Present	GSI Long-term
S50-011230	08/29/17	Present	CSO Long-term
DD DST-010-01	11/07/17	Present	GSI Long-term
THL-0045	11/23/17	Present	CSO Long-term
CF-DST-4	04/27/18	Present	GSI Long-term
T14-000252	12/06/18	Present	CSO
T14-000140	01/10/19	Present	CSO

Site Name	Start	End	Project
S05-000012	03/30/11	Present	CSO
T14-000115	01/10/19	Present	CSO Long-term
C17-000865	03/08/22	Present	CSO
CV-0145	05/20/22	Present	I&I Long-term; SSO Support
CV-0130	05/20/22	Present	I&I SSO Support
PC-1065 (MSHX-02)	06/30/22	Present	I&I SSO Support
S31-000010	08/29/22	Present	CSO
S44-000015	08/29/22	Present	CSO
S059-02-S0010	08/30/22	Present	I&I SSO Support
P083-03-S0050	08/30/22	Present	I&I SSO Support
WLL-0565	08/31/22	Present	I&I SSO Support
WLL-0650	08/31/22	Present	I&I SSO Support
S051-05-S0015	09/09/22	Present	I&I Long-term; SSO Support
P108-17-S0010	09/21/22	Present	I&I SSO Support
Q120-02-S0010	09/23/22	Present	I&I SSO Support
CSE-0030	09/29/22	Present	CSO
S20-000015	09/30/22	Present	CSO
S20-000070	09/30/22	Present	CSO
Q109-07-S0025	10/24/22	Present	I&I SSO Support
F03-000055	10/25/22	Present	CSO
LSW-0077	10/28/22	Present	CSO
T089-04-S0055	02/23/23	Present	I&I SSO Support
T089-04-S0095	02/23/23	Present	I&I SSO Support
T089-04-S0165	02/23/23	Present	I&I SSO Support
THL-0225	03/21/23	Present	CSO
BC-0453	08/08/23	Present	I&I SSO Support
BC-B1575	08/08/23	Present	I&I SSO Support
T089-04-0015	10/30/23	Present	Stormwater; SFR Support
Q109-07-0015	10/30/23	Present	Stormwater; SFR Support
P099-02-M0015	10/30/23	Present	Stormwater; SFR Support
Q121-02-0017	12/12/23	Present	Stormwater; SFR Support
P091-06-0020	12/12/23	Present	Stormwater; SFR Support
P091-10-0010	12/27/23	Present	Stormwater; SFR Support

Site Name	Start	End	Project
S05-000012	03/30/11	Present	CSO
S059-01-0025	01/05/24	Present	Stormwater
W086-06-0010	01/12/24	Present	Stormwater
W086-01-0015	07/29/24	Present	Stormwater
Q117-02-0010	07/29/24	Present	Stormwater
PR-0150	11/19/24	Present	I&I SSO Support
PR-B0405	11/19/24	Present	I&I SSO Support
PR-0310	11/19/24	Present	I&I SSO Support

Appendix C – FY26 CSO Program Maintenance Annual Report

FLOW CONTROL UNIT

FY2026 ANNUAL REPORT

Submitted By:
Michael D. Hengstler
Water Conveyance System Superintendent
PWD-Flow Control

FLOW CONTROL UNIT-FY26
OPERATION and MAINTENANCE

The Collector System Flow Control Unit has four main areas of responsibility: Combined Sewer Overflow (CSO) Regulator Maintenance, Pumping Station Operation & Maintenance, Collector System Instrumentation, and CCTV Technical Inspections. The main office of the Wastewater Pumping Group is located at 5202 Pennypack Street in the Torresdale Raw Water Pumping Station. This facility includes a maintenance machine shop, storage garage, and workshop for maintenance assignments. The other three groups have maintenance shops and assemble at the 3257 Fox Street Headquarters Facility. The unit has experienced staff shortages, which have impacted some of the work. Despite these challenges, critical infrastructure is being managed to ensure that services continue without major failures or downtime.

CSO REGULATOR MAINTENANCE GROUP

The Philadelphia Water Department's Flow Control CSO Maintenance Group is responsible for inspecting and servicing the combined sewer overflow regulating and diversion chambers. There are nineteen personnel responsible for maintaining, inspecting, and cleaning 175 combined sewer-regulating chambers, 89 tide gate chambers, 26 storm relief chambers, 12 sanitary flow diversions, as well as several siphons and other related wastewater control devices throughout the collection system. The Flow Control Unit maintains ten types of CSO regulators and storage systems.

- Brown & Brown (B&B) mechanical
- Computer-Controlled Sluice Gates
- Computer-Controlled B&B Shutter Gates
- Static Dams
- Slot type regulators
- Mechanical Sluice Gates
- Side Overflow Weirs
- Inflatable Rubber Dam
- Water Hydraulic Sluice Gates
- Computer-Controlled Crest Gates

Regulators and tide gates can have mechanical or operational issues, leading to discharges during dry weather and increased stream and river inflow. These events can significantly impact the performance of wastewater and freshwater treatment plants, as well as the quality of stream water. They can also affect the recreational use of local waterways. Therefore, the combined sewer regulator systems are closely monitored for potential blockages, and any problems are promptly corrected once identified. The main responsibilities of this group include inspecting CSO chambers and clearing any regulator blockages before they cause a dry weather discharge, which are key areas in assessing the group's overall performance.

Tracking and analyzing Dry Weather Discharges continuously helps us identify whether new or modified maintenance procedures could help prevent them from occurring. Even though our established procedures have significantly reduced the number and duration of these discharges, the combined system picks up various trash and debris, leading to unpredictable flow disruptions. Despite best management practices such as trapping and cleaning all inlets, preventative maintenance schedules for sewer flushing, cleaning regulators, and CCTV inspection of DWO pipes, it is nearly impossible to eliminate all blockages before they occur.

In order to effectively manage and reduce dry weather overflows, the PWD Flow Control Unit utilizes advanced technology-based controls, including the Collector System Remote Monitoring Network. This network currently encompasses over 320 sites and has over 720 individual level and flow measurements. Training CSO maintenance personnel in the use of the system's computer programs for analyzing trend data has resulted in a thorough understanding of individual CSO sites and their flow patterns. This enables them to quickly identify abnormal conditions and take action before these conditions lead to blockages or discharges during dry weather.

In the Fiscal Year 2026, the CSO Maintenance Group performed 4143 inspections of regulating chambers. These inspections included regular visual checks of equipment and flow

patterns to verify their proper functioning. Additionally, more extensive maintenance work, such as cleaning and lubricating mechanical equipment, was planned for periods of lower flow between rain events.

During FY26, the crews cleared 125 regulator blockages before they developed into a CSO dry weather discharge. There was 2 CSO dry weather discharge for this year, which was promptly stopped within 1 hour of discovery.

We've seen a significant increase in blockages caused by high volumes of disposable wipes. These blockages, which can occur in the CSO regulator diversion or the dry weather outlet pipe, are hard to predict. To prevent them, it's crucial to conduct frequent inspections and closely monitor trend data. After moderate to heavy rain events, the CSO regulators can get clogged with debris such as grit, sticks, and rags. To address this, our maintenance crews perform quick inspections of the CSO sites throughout the city following these events to remove storm debris. After a few days, the work schedule returns to more comprehensive maintenance tasks like cleaning, lubricating, adjusting equipment, and making minor repairs to the mechanical regulators.

The CSO Regulator Group, with the help of Sewer Maintenance and Mobile Dredging Vactoring Services, cleaned and removed approximately 12 tons of debris and grit from the D-25 regulating chamber, 55.33 tons of debris and grit from the D-37 regulating chamber and 78.9 tons of debris and grit from the D-45 regulating chamber.

The CSO Regulator Group responded to numerous requests to check and close tide gates on the Southeast Water Treatment Plant’s Sewer districts, Southwest Water Treatment sewer districts, and the Northeast Water Treatment Plant’s Sewer districts after rain events.

WASTEWATER PUMPING STATION MAINTENANCE GROUP

The Wastewater Pumping Station Maintenance Group, consisting of 35 maintenance personnel, is located at the 5202 Pennypack Street Maintenance Shop. They are responsible for the operation and maintenance of 17 wastewater pumping stations, 3 stormwater pumping stations, 2 sodium hypochlorite dosing stations, 11 computer-controlled Combined Sewer Overflow (CSO) storage regulators, and several in-line and offline wastewater storage facilities, among other duties.

Many of the pumping stations are equipped with only one operational pump and one reserve pump. This arrangement necessitates immediate responses to pump breakdowns and requires overhauls to be completed in a minimal amount of time. The main pump availability statistic serves as a good indicator of the Maintenance Group's performance in this area; during FY26, the main pumping units were in service 98.0% of the time. The group completed 21 main wastewater pump overhauls at the stations. These overhauls involved the repair and replacement of worn pump and motor components to restore the equipment's performance to like-new operating conditions.

During FY26, the Wastewater Pumping Station Maintenance Group had only one main pump out of service due to failures or breakdowns. To minimize downtime, when maintenance and overhauls are performed, the in-service pump is rotated out and replaced by the spare pump for that station. This ensures that each station always has its full complement of pumps available while also utilizing the spare pump.

In addition to maintaining pumping stations, the group oversees a variety of equipment throughout the Collector System. They manage the operation and maintenance of the two sodium hypochlorite dosing stations. One station is located next to the Queen Lane Raw Water pumping station, which injects sodium hypochlorite into the Upper Schuylkill East Interceptor, while the other is at the Totem Road pumping station, injecting sodium

hypochlorite into the Bucks County force main. The group is responsible for maintaining an adequate supply of sodium hypochlorite—approximately 442,248 gallons in FY26—for monitoring downstream hydrogen sulfide levels and adjusting dosage levels, in addition to the maintenance and repair of the equipment.
New pumps were installed at the Totem Road location due to a change in the injection system installed by the BCWSA.

The group also fabricates and repairs bar screens, debris grills, and other equipment for the Collector System, and they conduct major maintenance on the CSO mechanical regulators, which includes installing tide gates, overflow gates, and servicing Brown & Brown regulators.

Additionally, the group installs flow diversions in the sewer system. While performing repairs and maintenance at the Southeast Water Treatment Plant, the crew installed diversions to limit flow to the plant and redirect it to other treatment facilities.

There are currently two betterment projects ongoing at the pumping stations: the Mingo Creek Stormwater Pumping Station, the Ford Road Pump Station, and the Linden Avenue Pump Station betterment project was completed, and PWD took over operation in October of FY26.

COLLECTOR SYSTEM INSTRUMENTATION

MAINTENANCE GROUP

The fourteen Instrument and Electronic Technicians located at the Fox Street facility are primarily responsible for installing, calibrating, and maintaining the electronic and instrumentation equipment in the Collector System monitoring and control network. They also repair, calibrate, and certify the hazardous gas detection meters for the Department as well as install temporary flow and level monitors for various units in the Water Department.

One of the primary responsibilities of the CS Instrumentation Group is to maintain the network of level sensors, flow meters, and rain gauges and keep them up and running with a minimum of downtime while maintaining accurate and reliable data. The network currently consists of 258 level and flow monitoring locations in the NE, SE, and SW Drainage Districts, 35 gauges in the citywide rain gauge network, 56 Township flow-metering stations, and several additional monitors at various control sites. It is crucial that the remote site equipment communicates and downloads data to the server so that the information is available for trend chart viewing and analysis for the users. The CSO maintenance group relies heavily on these charts to monitor the performance of all the CSO regulators while paying special attention to the sites that have had a recent or a history of discharges. The monitoring data is used for a wide variety of other purposes, such as calibrating the Collector System's hydraulic model, generating township sewage flows for billing, and for various Planning and Engineering studies.

The CS Instrumentation Maintenance group performed 1830 maintenance inspections in FY26. The data collection system used by Flow Control is the TELOG units.

CCTV TECHNICAL INSPECTIONS GROUP

The CCTV Technical Inspections group consists of one Supervisor, two group leaders, and sixteen technicians who operate and maintain the seven closed-circuit TV camera trucks and Green Storm Infrastructure inspection cameras. The seven CCTV trucks and CCTV Contractor completed a total of 2493 inspections and logged 64.05 miles of sewer inspections in FY26. The CCTV GSI Unit and the GSO Contractor completed 2776 inspections, logging 28.48 miles. These inspections consisted of Post Construction Inspections and Maintenance Inspections. A breakdown of the types of inspections completed and mileage for the types of inspections is located on the Sewer Assessment Program CCTV Sewer Inspection Report. See the attached matrix of the breakdown.

The CCTV group has several key functions. These include conducting inspections of sewers that have been reported due to complaints, responding to special inspection requests from the Water/Sewer Design group, and implementing the post-construction inspection program, which involves recording video footage of the sewer after the completion of all construction work. The group also collaborates with the Defective Connection Program and the Collector System Engineering group to identify defective lateral connections. Currently, one of the ongoing projects is identifying potential cross-connections in the MCX-2 sewer shed.

In FY27, the CCTV group will be transitioning to the Collectors System Engineering (CSE) group. This decision was made following discussions that highlighted the alignment of both groups as supporting units within the department. It makes sense to place the CCTV group under the management of the CSE group to enhance collaboration and efficiency.

SERVICE LEVEL GOALS

The goal of the Flow Control Unit is to maintain and exceed the service level goals. One area that directly affects the service level of the Flow Control Unit is personnel vacancies.

MONTH	Main Pump Availability	CSO Dry Weather Discharges/100 Inspections	CCTV Inspections in Miles	%Metering Chambers Operational	%CSO Level Meters Operational
GOAL	**95% or Higher**	**0**	**2.8**	**95% or Higher**	**90% or Higher**
Jul-25	98.0%	0.00	5.72	93.0%	95.7%
Aug-25	98.0%	0.00	9.18	96.5%	95.0%
Sep-25	98.0%	0.28	7.14	95.4%	91.8%
Oct-25	98.0%	0.00	8.11	96.9%	94.6%
Nov-25	98.0%	0.00	6.06	95.2%	94.0%
Dec-25	98.0%	0.00	3.76	98.5%	94.0%
Jan-26	98.0%	0.00	2.30	96.8%	94.0%
Feb-26	98.0%	0.00	4.78	97.9%	94.2%
Mar-26	98.0%	0.27	6.23	96.8%	96.5%
Apr-26	98.0%	0.00	6.07	98.9%	98.1%
May-26	98.0%	0.00	5.30	98.7%	99.2%
Jun-26	98.0%	0.00	4.30	96.6%	98.7%
	AVE	**AVE**	**TOTAL**	**AVE**	**AVE**
FY26	**98.0%**	**0.05**	**68.95**	**96.77%**	**95.48%**

FLOW CONTROL PERSONNEL SUMMARY

The Flow Control Unit is working hard to fill all 99 approved positions to meet service-level goals. Currently, the unit has an 18.2% vacancy rate, with most of the vacancies in the Electronics and Mechanical fields.

99 Flow Control Positions	Active	Vacant	Total
Clerk III	2	0	2
Custodial Worker	1	0	1
Data Services Support Clerk	1	0	1
Electrician 1	1	0	1
Electronic Equipment Supervisor	2	0	2
Electronic Technician 1	7	4	11
Electronic Technician 2	15	2	17
Electronic Technician Grp. Leader	5	0	5
Electronic Technician Trainee	6	1	7
Ind. Process Mach. Mech. Grp. Leader	2	0	2
Industrial Electrician 1	4	0	4
Industrial Electrician 2	1	0	1
Industrial Electrician Group Leader	1	0	1
Industrial Process Mach. Mech.	6	3	9
Interceptor Service Worker I	7	0	7
Interceptor Service Worker II	4	2	6
Interceptor Services Supervisor	2	0	2
Mach. & Equipment Mech.1	2	3	5
Office Clerk 2	1	0	1
Public Works Trainee	1	0	1
Sewer Maintenance Inspector	1	0	1
Trades Helper (P)	2	0	2
Water Conveyance Sys. Asst. Supt. (P)	2	0	2
Water Conveyance Sys. Supt.	1	0	1
Water Operations Repair Helper	5	1	6
Heavy Equipment Op. 2	0	1	1
Totals	**82**	**17**	99

FLOW CONTROL FY26 ANNUAL REPORT

SPREADSHEETS

PART 1
DRY WEATHER STATUS
REPORT

PHILADELPHIA WATER DEPARTMENT
WASTEWATER & STORMWATER COLLECTION
FLOW CONTROL UNIT

Section 1

July 2025 - June 2026

COLLECTOR	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Totals
UPPER PENNYPACK - 5 UNITS													
INSPECTIONS	18	22	15	26	14	20	14	6	13	24	13	7	192
DISCHARGES													
BLOCKS CLEARED	1				2	1	1					1	6
UPPER DELAWARE LOW LEVEL - 12 UNITS													
INSPECTIONS	17	42	38	26	27	40	24	20	17	40	20	28	339
DISCHARGES													
BLOCKS CLEARED	1	3	2	2	4	1	2			1	3	2	21
LOWER FRANKFORD CREEK - 6 UNITS													
INSPECTIONS	11	15	12	14	7	15	1	5	9	14	13	8	124
DISCHARGES													
BLOCKS CLEARED	1	2	1	1		1				1	1		8
LOWER FRANKFORD LOW LEVEL - 10 UNITS													
INSPECTIONS	24	23	33	34	28	33	25	11	34	32	25	22	324
DISCHARGES													
BLOCKS CLEARED	3	1		2	1	1		1	1		2		12
FRANKFORD HIGH LEVEL - 14 UNITS													
INSPECTIONS	42	43	23	60	36	20	42	34	32	29	20	24	405
DISCHARGES									1				1
BLOCKS CLEARED	3	1		4	2				2			1	13
SOMERSET - 9 UNITS													
INSPECTIONS	14	26	16	17	6	14	14	6	15	24	12	12	176
DISCHARGES													
BLOCKS CLEARED					1		1				2	2	6
LOWER DELAWARE LOW LEVEL - 33 UNITS													
INSPECTIONS	46	45	72	96	61	69	62	33	62	61	49	35	691
DISCHARGES													
BLOCKS CLEARED		4			1	1			3	2	9	2	22
CENTRAL SCHUYLKILL EAST - 18 UNITS													
INSPECTIONS	40	36	37	38	20	42	26	19	38	30	16	20	362
DISCHARGES													
BLOCKS CLEARED						1			1			1	3
LOWER SCHUYLKILL EAST - 9 UNITS													
INSPECTIONS	12	17	17	20	12	13	19	14	19	17	10	17	187
DISCHARGES													
BLOCKS CLEARED	1	1	1			1		2		2	2	2	12
CENTRAL SCHUYLKILL WEST - 9 UNITS													
INSPECTIONS	18	17	15	11	11	22	13	12	14	15	4	16	168
DISCHARGES			1										1
BLOCKS CLEARED	1		1	1									3
SOUTHWEST MAIN GRAVITY - 10 UNITS													
INSPECTIONS	13	18	14	18	18	11	11	8	22	9	5	15	162
DISCHARGES													
BLOCKS CLEARED			1	1			1	1			1	2	7
LOWER SCHUYLKILL WEST - 4 UNITS													
INSPECTIONS	4	7	10	8	5	5	7	4	5	4	4	5	68
DISCHARGES													
BLOCKS CLEARED			1										1
COBBS CREEK HIGH LEVEL - 24 UNITS													
INSPECTIONS	48	37	41	30	41	44	23	14	41	24	24	30	397
DISCHARGES													
BLOCKS CLEARED	1	1	1				1		2	1			7
COBBS CREEK LOW LEVEL - 13 UNITS													
INSPECTIONS	9	18	17	22	14	21	12	11	24	12	12	12	184
DISCHARGES													
BLOCKS CLEARED				1					3				4
RELIEF SEWERS - 26 UNITS													
INSPECTIONS	20	45	25	32	34	46	33	20	26	39	18	26	364
DISCHARGES													
BLOCKS CLEARED													
TOTALS / MONTH for 201 REGULATOR UNITS													**Totals**
TOTAL INSPECTIONS	336	411	385	452	334	415	326	217	371	374	245	277	4143
TOTAL DISCHARGES			1						1				2
TOTAL BLOCKS CLEARED	12	13	8	12	11	7	6	4	12	7	20	13	125
AVER. # of INSP. / BLOCKS CLEARED	28	32	48	38	30	59	54	54	31	53	12	21	38
DISC / 100 INSPECTIONS	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.05

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

PART 1
DRY WEATHER STATUS
REPORT

PRECIPITATION FOR THE PERIOD: July 2025 - June 2026

Section 2

Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches	Date	Rain Inches
1-Jul		1-Aug		1-Sep		1-Oct		1-Nov		1-Dec		1-Jan		1-Feb		1-Mar		1-Apr	**0.22**	1-May		1-Jun	
2-Jul		2-Aug		2-Sep		2-Oct		2-Nov		2-Dec	**1.00**	2-Jan		2-Feb	**0.07**	2-Mar		2-Apr	**0.24**	2-May		2-Jun	
3-Jul		3-Aug		3-Sep		3-Oct		3-Nov		3-Dec		3-Jan		3-Feb	**0.04**	3-Mar	**0.27**	3-Apr	**0.01**	3-May		3-Jun	
4-Jul		4-Aug		4-Sep	**0.89**	4-Oct		4-Nov		4-Dec		4-Jan		4-Feb	**0.02**	4-Mar	**0.06**	4-Apr		4-May		4-Jun	
5-Jul		5-Aug		5-Sep		5-Oct		5-Nov	**0.03**	5-Dec		5-Jan		5-Feb	**0.01**	5-Mar	**0.53**	5-Apr	**0.26**	5-May		5-Jun	
6-Jul		6-Aug		6-Sep	**0.13**	6-Oct		6-Nov	**0.54**	6-Dec	**0.02**	6-Jan		6-Feb		6-Mar	**0.05**	6-Apr		6-May	**0.15**	6-Jun	**0.08**
7-Jul		7-Aug		7-Sep	**0.58**	7-Oct		7-Nov		7-Dec		7-Jan		7-Feb		7-Mar	**0.02**	7-Apr		7-May	**0.16**	7-Jun	
8-Jul		8-Aug		8-Sep		8-Oct	**0.13**	8-Nov	**0.12**	8-Dec		8-Jan		8-Feb		8-Mar		8-Apr		8-May		8-Jun	
9-Jul		9-Aug		9-Sep		9-Oct		9-Nov	**0.35**	9-Dec		9-Jan	**0.03**	9-Feb		9-Mar		9-Apr		9-May		9-Jun	
10-Jul		10-Aug		10-Sep		10-Oct		10-Nov	**0.06**	10-Dec	**0.08**	10-Jan	**1.00**	10-Feb	**0.01**	10-Mar		10-Apr		10-May	**0.27**	10-Jun	**0.24**
11-Jul		11-Aug		11-Sep		11-Oct	**0.19**	11-Nov		11-Dec		11-Jan	**0.01**	11-Feb	**0.20**	11-Mar	**0.14**	11-Apr		11-May		11-Jun	**0.13**
12-Jul		12-Aug	**0.56**	12-Sep		12-Oct	**0.01**	12-Nov		12-Dec		12-Jan		12-Feb		12-Mar	**0.26**	12-Apr		12-May		12-Jun	**0.02**
13-Jul		13-Aug	**1.46**	13-Sep		13-Oct	**0.11**	13-Nov		13-Dec	**0.03**	13-Jan		13-Feb		13-Mar		13-Apr		13-May	**0.11**	13-Jun	
14-Jul		14-Aug	**0.01**	14-Sep		14-Oct	**0.02**	14-Nov		14-Dec	**0.04**	14-Jan		14-Feb		14-Mar		14-Apr	**0.02**	14-May	**0.05**	14-Jun	**1.83**
15-Jul		15-Aug		15-Sep		15-Oct		15-Nov		15-Dec		15-Jan	**0.02**	15-Feb	**0.13**	15-Mar		15-Apr		15-May		15-Jun	**0.03**
16-Jul		16-Aug		16-Sep		16-Oct		16-Nov		16-Dec	**0.29**	16-Jan		16-Feb	**0.07**	16-Mar	**0.71**	16-Apr		16-May		16-Jun	
17-Jul		17-Aug	**1.45**	17-Sep	**0.33**	17-Oct		17-Nov		17-Dec	**0.22**	17-Jan	**0.17**	17-Feb		17-Mar	**0.53**	17-Apr		17-May		17-Jun	
18-Jul		18-Aug	**0.09**	18-Sep	**0.01**	18-Oct		18-Nov	**0.01**	18-Dec	**0.01**	18-Jan	**0.12**	18-Feb	**0.02**	18-Mar		18-Apr		18-May		18-Jun	
19-Jul		19-Aug		19-Sep		19-Oct		19-Nov	**0.28**	19-Dec	**1.51**	19-Jan	**0.05**	19-Feb	**0.03**	19-Mar		19-Apr	**0.08**	19-May		19-Jun	
20-Jul		20-Aug	**0.14**	20-Sep		20-Oct	**0.07**	20-Nov		20-Dec		20-Jan		20-Feb	**0.52**	20-Mar	**0.10**	20-Apr	**0.02**	20-May	**0.30**	20-Jun	
21-Jul		21-Aug		21-Sep		21-Oct	**0.12**	21-Nov		21-Dec		21-Jan		21-Feb		21-Mar		21-Apr		21-May	**0.30**	21-Jun	
22-Jul		22-Aug		22-Sep		22-Oct	**0.05**	22-Nov	**0.25**	22-Dec		22-Jan	**0.04**	22-Feb	**0.17**	22-Mar		22-Apr	**0.16**	22-May	**0.03**	22-Jun	**1.62**
23-Jul		23-Aug		23-Sep	**0.06**	23-Oct		23-Nov		23-Dec	**0.07**	23-Jan		23-Feb	**0.19**	23-Mar	**0.21**	23-Apr		23-May	**0.52**	23-Jun	**0.16**
24-Jul		24-Aug		24-Sep	**0.17**	24-Oct		24-Nov		24-Dec		24-Jan		24-Feb	**0.01**	24-Mar		24-Apr		24-May	**0.92**	24-Jun	
25-Jul		25-Aug		25-Sep	**0.40**	25-Oct		25-Nov	**0.71**	25-Dec		25-Jan		25-Feb	**0.05**	25-Mar		25-Apr	**0.73**	25-May	**0.04**	25-Jun	
26-Jul		26-Aug		26-Sep		26-Oct		26-Nov	**0.21**	26-Dec		26-Jan	**0.05**	26-Feb		26-Mar	**0.01**	26-Apr	**0.05**	26-May		26-Jun	
27-Jul		27-Aug		27-Sep	**0.09**	27-Oct		27-Nov		27-Dec	**0.14**	27-Jan		27-Feb		27-Mar	**0.16**	27-Apr		27-May	**0.21**	27-Jun	**0.25**
28-Jul		28-Aug		28-Sep	**0.17**	28-Oct		28-Nov		28-Dec	**0.08**	28-Jan	**0.01**	28-Feb	**0.01**	28-Mar		28-Apr		28-May		28-Jun	**1.06**
29-Jul		29-Aug		29-Sep	**1.15**	29-Oct	**0.18**	29-Nov		29-Dec	**0.26**	29-Jan				29-Mar		29-Apr	**0.53**	29-May		29-Jun	**0.55**
30-Jul		30-Aug		30-Sep	**0.54**	30-Oct	**1.07**	30-Nov	**0.07**	30-Dec	**0.11**	30-Jan				30-Mar		30-Apr	**0.01**	30-May		30-Jun	
31-Jul		31-Aug				31-Oct				31-Dec	**0.01**	31-Jan				31-Mar				31-May			

Jul-25	**Aug-25**	**Sep-25**	**Oct-25**	**Nov-25**	**Dec-25**	**Jan-26**	**Feb-26**	**Mar-26**	**Apr-26**	**May-26**	**Jun-26**
Total Rain	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**	**Total Rain**
0.00	**3.71**	**4.52**	**1.95**	**2.63**	**3.87**	**1.50**	**1.55**	**3.05**	**2.33**	**3.06**	**5.97**

Note: Rain Gauge RG-17 & RG-18 are being used for the Precipitation Report.

PART 1
DRY WEATHER STATUS REPORT

DRY WEATHER DISCHARGES FOR THE PERIOD: July 2025 - June 2026

Section 3

Discharge Observed		Discharge Stopped		Last Inspection						
Date	Time	Date	Time	Date	Time	Site ID	Collector	Type Unit	Location	Comment
07-May-25	12:00:00 PM	07-May-25	12:30:00 PM	05-May-25	9:40:00 AM	C-19	CCLL	SLOT	CEMETERY DWY. & COBBS CREEK PKWY. (SOUTH MT. MORIAH CEMETERY, ~250' E. OF BRIDGE)	Slow Steady Flow, Slot Blockage, No Floatables
23-Sep-25	8:45:00 AM	23-Sep-25	9:40:00 AM	25-Aug-25	9:45:00 AM	S-20	CSW	B&B	NNW of South St. (Behind Penn Stad.)	Regulator Inlet Blockage

RELIEF SEWER MONTHLY INSPECTION

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
THOMAS RUN RELIEF SEWER													
R01	1	2	1	1	2	3	2	0	2	1	1	2	18
R02	1	2	1	2	2	3	2	0	1	2	1	2	19
R03	1	2	1	2	2	3	1	1	1	2	1	2	19
R04	1	2	1	0	2	3	1	0	1	2	1	2	16
R05	1	2	1	1	2	3	1	0	1	2	1	2	17
R06	1	2	1	1	2	3	1	0	1	2	1	2	17
MAIN RELIEF SEWER													
R07	1	2	1	1	2	2	1	2	1	2	1	1	17
R08	1	2	1	1	2	1	1	2	1	2	1	1	16
R09	1	2	1	1	1	3	1	2	1	2	1	1	17
R10	1	2	1	1	1	3	1	2	1	2	1	1	17
R11	1	2	1	1	1	3	1	2	1	2	1	1	17
R11A	1	2	1	1	1	3	1	2	1	2	1	1	17
R12	1	2	1	1	1	3	1	2	1	2	1	1	17
WAKLING RELIEF SEWER													
R13	0	1	1	2	1	0	2	0	1	1	0	0	9
R13A	0	1	1	2	1	0	2	0	1	1	0	0	
R14	0	2	1	2	1	0	2	0	1	1	0	0	10
ROCK RUN STORM FLOOD RELIEF SEWER													
R15	0	3	1	2	1	0	2	0	1	1	0	1	12
OREGON AVE RELIEF SEWER													
R16	2	2	2	2	2	2	2	1	2	2	1	1	21
R17	2	2	2	2	2	2	2	1	2	2	1	1	21
FRANKFORD HIGH LEVEL RELIEF SEWER													
R18	0	2	1	2	1	0	2	0	1	1	0	0	10
32ND ST RELIEF SEWER													
R19	0	0	0	0	0	0	0	0	0	0	0	0	0
MAIN STREET RELIEF SEWER													
R20	1	2	1	1	2	2	1	2	1	2	1	1	17
SOMERSET SYSTEM DIVERSION CHAMBER													
R21													0
TEMPORARY REGULATOR CHAMBER													
R22													0
R23	0	0	0	0	0	0	0	0	0	0	0	0	0
ARCH ST RELIEF SEWER													
R24	1	2	1	1	1	2	1	0	1	2	1	2	15
16TH & SNYDER													
R25	1	2	1	2	1	2	2	1	1	1	1	1	16
GRANT & STATE RD. RELIEF													
R26	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	20	45	25	32	34	46	33	20	26	39	18	26	355
AVER	0.7	1.7	0.9	1.2	1.3	1.7	1.2	0.7	1.0	1.4	0.7	1.0	1.0

RELIEF SEWER MONTHLY DISCHARGE

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
THOMAS RUN RELIEF SEWER													
R01													0
R02													0
R03													0
R04													0
R05													0
R06													0
MAIN RELIEF SEWER													
R07													0
R08													0
R09													0
R10													0
R11													0
R11A													0
R12													0
WAKLING RELIEF SEWER													
R13													0
R13A													
R14													0
ROCK RUN STORM FLOOD RELIEF SEWER													
R15													0
OREGON AVE RELIEF SEWER													
R16													0
R17													0
FRANKFORD HIGH LEVEL RELIEF SEWER													
R18													0
32ND ST RELIEF SEWER													
R19													0
MAIN STREET RELIEF SEWER													
R20													0
SOMERSET SYSTEM DIVERSION CHAMBER													
R21													0
TEMPORARY REGULATOR CHAMBER													
R22													0
R23													0
ARCH ST RELIEF SEWER													
R24													0
16TH & SNYDER													
R25													0
GRANT & STATE RD. RELIEF													
R26													0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
UNITS	0	0	0	0	0	0	0	0	0	0	0	0	

RELIEF SEWER MONTHLY BLOCKS CLEARED

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
THOMAS RUN RELIEF SEWER													
R01													0
R02													0
R03													0
R04													0
R05													0
R06													0
MAIN RELIEF SEWER													
R07													0
R08													0
R09													0
R10													0
R11													0
R11A													0
R12													0
WAKLING RELIEF SEWER													
R13													0
R13A													
R14													0
ROCK RUN STORM FLOOD RELIEF SEWER													
R15													0
OREGON AVE RELIEF SEWER													
R16													0
R17													0
FRANKFORD HIGH LEVEL RELIEF SEWER													
R18													0
32ND ST RELIEF SEWER													
R19													0
MAIN STREET RELIEF SEWER													
R20													0
SOMERSET SYSTEM DIVERSION CHAMBER													
R21													0
TEMPORARY REGULATOR CHAMBER													
R22													0
R23													0
ARCH ST RELIEF SEWER													
R24													0
16TH & SNYDER													
R25													0
GRANT & STATE RD. RELIEF													
R26													0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0
AVER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CSO REGULATING CHAMBER MONTHLY INSPECTION — NEWPC & SEWPC PLANT REGULATORS — PAGE 3

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	AVER	DTR
UPPER PENNYPACK 5 NEWPC UNITS															
P01	3	5	2	4	2	4	3	1	2	4	3	1	34	2.8	10.7
P02	3	5	2	4	3	4	3	1	2	3	3	1	34	2.8	10.7
P03	4	5	5	8	6	4	3	2	3	6	3	2	51	4.3	7.2
P04	3	4	3	6	2	4	2	1	3	6	2	2	38	3.2	9.6
P05	5	3	3	4	1	4	3	1	3	5	2	1	35	2.9	10.4
UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS															
D02	2	5	3	3	3	4	1	2	1	4	2	3	33	2.8	11.1
D03	1	5	3	3	3	5	2	2	2	4	3	4	37	3.1	9.9
D04	2	5	3	3	3	5	2	2	4	4	3	2	38	3.2	9.6
D05	2	3	3	3	2	4	3	2	1	3	2	2	30	2.5	12.2
D06	1	4	3	2	2	3	3	2	1	3	2	2	28	2.3	13.0
D07	1	4	3	1	2	4	2	2	1	4	1	2	27	2.3	13.5
D08	1	2	4	1	2	3	2	2	1	3	1	2	24	2.0	15.2
D09	1	2	4	1	2	3	2	1	1	3	1	2	23	1.9	15.9
D11	1	3	3	2	2	2	2	2	1	3	1	2	24	2.0	15.2
D12	1	3	3	2	2	2	2	1	1	3	1	2	23	1.9	15.9
D13	1	3	2	2	2	2	2	1	1	3	1	2	22	1.8	16.6
D15	3	3	4	3	2	3	1	1	2	3	2	3	30	2.5	12.2
LOWER FRANKFORD CREEK 6 NEWPC UNITS															
F13	3	1	3	1	1	0	0	0	0	0	1	2	12	1.0	30.4
F14	2	3	1	3	2	3	1	1	3	3	3	2	27	2.3	13.5
F21	2	3	2	2	1	2	0	1	2	2	2	0	19	1.6	19.2
F23	2	3	3	3	1	5	0	1	2	3	3	2	28	2.3	13.0
F24	1	3	1	3	1	3	0	1	1	4	2	2	22	1.8	16.6
F25	1	2	2	2	1	2	0	1	1	2	2	0	16	1.3	22.8
LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS															
F03	2	3	4	3	2	3	3	0	3	3	3	2	31	2.6	11.8
F04	2	2	4	2	2	4	4	1	3	3	3	2	32	2.7	11.4
F05	2	2	4	2	2	4	4	1	3	3	3	2	32	2.7	11.4
F06	3	3	4	3	3	4	4	1	4	3	3	2	37	3.1	9.9
F07	2	2	3	3	2	4	3	1	3	3	3	3	32	2.7	11.4
F08	2	2	3	1	2	2	1	2	3	3	3	3	27	2.3	13.5
F09	3	3	3	3	4	2	2	2	4	3	2	2	33	2.8	11.1
F10	3	2	3	3	3	3	1	2	3	3	1	2	29	2.4	12.6
F11	3	2	2	10	5	4	2	1	4	4	2	2	41	3.4	8.9
F12	2	2	3	4	3	3	1	0	4	4	2	2	30	2.5	12.2
FRANKFORD HIGH LEVEL 14 NEWPC UNITS															
T01	1	2	1	3	2	1	3	3	3	2	2	2	25	2.1	14.6
T03	2	3	2	5	2	1	5	3	3	2	3	2	33	2.8	11.1
T04	3	2	2	3	2	1	3	3	3	2	1	2	27	2.3	13.5
T05	2	2	2	3	2	1	3	3	3	2	1	2	26	2.2	14.0
T06	2	2	2	3	2	1	3	3	3	2	1	2	26	2.2	14.0
T07	3	2	2	3	2	1	3	4	3	2	1	2	28	2.3	13.0
T08	3	2	2	3	2	1	3	3	2	2	1	2	26	2.2	14.0
T09	3	3	1	5	2	1	3	3	2	2	1	1	27	2.3	13.5
T10	5	5	2	7	3	2	3	1	2	2	2	2	36	3.0	10.1
T11	5	5	2	7	3	2	3	2	2	1	2	2	36	3.0	10.1
T12	4	4	1	6	2	2	3	3	2	3	2	2	34	2.8	10.7
T13	4	5	2	6	8	2	3	2	4	4	2	2	44	3.7	8.3
T14	2	3	1	3	2	2	1	0	0	1	0	0	15	1.3	24.3
T15	3	3	1	3	2	2	3	1	0	2	1	1	22	1.8	16.6

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	AVER	DTR
SOMERSET LOW LEVEL 9 NEWPC UNITS															
D17	1	3	1	2	1	1	1	1	2	3	1	2	19	1.6	19.2
D18	1	4	2	2	1	2	1	1	2	3	2	2	23	1.9	15.9
D19	1	3	1	2	1	2	1	1	2	3	2	0	19	1.6	19.2
D20	1	3	2	3	1	2	1	1	2	3	2	1	22	1.8	16.6
D21	1	3	2	3	1	2	2	1	2	3	1	5	26	2.2	14.0
D22	3	3	2	1	1	2	2	1	2	3	1	2	23	1.9	15.9
D23	0	3	2	1	0	1	2	0	1	2	1	0	13	1.1	28.1
D24	1	2	2	1	0	1	2	0	1	2	1	0	13	1.1	28.1
D25	5	2	2	2	0	1	2	0	1	2	1	0	18	1.5	20.3
LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS															
D37	1	1	3	4	1	3	2	1	1	3	1	1	22	1.8	16.6
D38	1	2	3	5	1	2	2	1	2	2	1	1	23	1.9	15.9
D39	1	1	3	5	1	2	2	1	2	4	1	1	24	2.0	15.2
D40	1	1	3	5	1	2	2	1	3	3	1	1	24	2.0	15.2
D41	1	1	3	5	1	2	2	1	2	2	1	1	22	1.8	16.6
D42	1	1	3	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D43	1	1	3	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D44	1	2	3	3	3	2	2	1	2	2	1	1	23	1.9	15.9
D45	1	2	1	3	2	3	2	1	2	1	2	1	21	1.8	17.4
D46	1	1	3	3	1	2	2	1	2	2	1	1	20	1.7	18.2
D47	1	1	3	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D48	1	1	3	2	2	2	2	1	2	2	1	1	20	1.7	18.2
D49	1	1	2	3	2	2	2	1	2	2	2	1	21	1.8	17.4
D50	1	1	2	3	2	2	2	1	2	1	2	1	20	1.7	18.2
D51	2	1	2	3	2	2	2	1	1	2	2	1	21	1.8	17.4
D51A	1	2	2	3	2	2	2	1	1	2	2	1	21	1.8	17.4
D52	2	1	2	2	2	2	2	1	1	2	2	1	20	1.7	18.2
D53	1	2	0	0	2	2	1	1	1	2	1	2	15	1.3	24.3
D54	1	2	2	2	2	2	2	1	2	1	3	1	21	1.8	17.4
D58	2	2	2	3	3	3	1	1	2	1	2	1	23	1.9	15.9
D61	1	2	2	1	2	2	1	1	2	1	2	1	18	1.5	20.3
D62	1	2	2	2	2	2	1	1	2	1	2	1	19	1.6	19.2
D63	1	2	2	2	2	2	2	1	2	1	2	1	20	1.7	18.2
D64	2	2	1	3	2	2	2	1	2	1	3	1	22	1.8	16.6
D65	2	1	2	2	1	2	2	1	2	1	2	1	19	1.6	19.2
D66	2	1	2	2	2	2	2	1	2	2	1	1	20	1.7	18.2
D67	2	1	2	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D68	2	1	2	2	2	2	2	1	2	2	1	1	20	1.7	18.2
D69	2	1	2	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D70	2	1	2	4	2	2	2	1	2	2	1	2	23	1.9	15.9
D71	2	1	2	3	2	2	2	1	2	2	2	1	22	1.8	16.6
D72	2	1	2	3	2	2	2	1	2	2	1	1	21	1.8	17.4
D73	2	2	1	3	2	2	2	1	2	2	1	1	21	1.8	17.4
TOTAL	172	216	209	273	179	211	182	115	182	224	152	136	2251		
I /D/C	2.8	3.6	3.4	4.5	2.9	3.5	3.0	1.9	3.0	3.7	2.5	2.2			
UP	18	22	15	26	14	20	14	6	13	24	13	7	192	3.2	9.7
UDLL	17	42	38	26	27	40	24	20	17	40	20	28	339	2.4	13.3
LFC	11	15	12	14	7	15	1	5	9	14	13	8	124	1.7	19.3
LFLL	24	23	33	34	28	33	25	11	34	32	25	22	324	2.7	11.4
FHL	42	43	23	60	36	20	42	34	32	29	20	24	405	2.4	13.4
SLL	14	26	16	17	6	14	14	6	15	24	12	12	176	1.6	19.7
LDLL	46	45	72	96	61	69	62	33	62	61	49	35	691	1.7	17.6

1 TOTAL DISCHARGES FOR NE & SE DISTRICTS — DTR = DAYS TO RETURN TO SITE

0.1 AVERAGE DISCHARGES PER MONTH — I/D/C = INSPECTIONS PER DAY PER CREW

14.9 AVER. DAYS BEFORE RETURNING TO SITE — I/D = INSPECTIONS PER DISCHARGE

3.1 AVER. INSPECTIONS PER DAY PER CREW

CSO REGULATING CHAMBER DISCHARGE — **NEWPC & SEWPC PLANT REGULATORS** — **PAGE 4**

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
UPPER PENNYPACK 5 NEWPC UNITS													
P01													0
P02													0
P03													0
P04													0
P05													0
UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS													
D02													0
D03													0
D04													0
D05													0
D06													0
D07													0
D08													0
D09													0
D11													0
D12													0
D13													0
D15													0
LOWER FRANKFORD CREEK 6 NEWPC UNITS													
F13													0
F14													0
F21													0
F23													0
F24													0
F25													0
LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS													
F03													0
F04													0
F05													0
F06													0
F07													0
F08													0
F09													0
F10													0
F11													0
F12													0
FRANKFORD HIGH LEVEL 14 NEWPC UNITS													
T01													0
T03													0
T04													0
T05													0
T06													0
T07													0
T08													0
T09													0
T10													0
T11													0
T12													0
T13									1				1
T14													0
T15													0

	NO OF DISCHARGES IN DISTRICT												TOTAL
UP	0	0	0	0	0	0	0	0	0	0	0	0	0
UDLL	0	0	0	0	0	0	0	0	0	0	0	0	0
LFC	0	0	0	0	0	0	0	0	0	0	0	0	0
LFLL	0	0	0	0	0	0	0	0	0	0	0	0	0
FHL	0	0	0	0	0	0	0	0	1	0	0	0	1
SLL	0	0	0	0	0	0	0	0	0	0	0	0	0
LDLL	0	0	0	0	0	0	0	0	0	0	0	0	0

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
SOMERSET LOW LEVEL 9 NEWPC UNITS													
D17													0
D18													0
D19													0
D20													0
D21													0
D22													0
D23													0
D24													0
D25													0
LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS													
D37													0
D38													0
D39													0
D40													0
D41													0
D42													0
D43													0
D44													0
D45													0
D46													0
D47													0
D48													0
D49													0
D50													0
D51													0
D51A													0
D52													0
D53													0
D54													0
D58													0
D61													0
D62													0
D63													0
D64													0
D65													0
D66													0
D67													0
D68													0
D69													0
D70													0
D71													0
D72													0
D73													0
D75													0
													TOTAL DISC
	0	0	0	0	0	0	0	0	1	0	0	0	1

	NO OF UNITS IN DISTRICT BLOCKED												TOTAL
UP	1	0	0	0	2	1	1	0	0	0	0	1	6
UDLL	1	3	2	2	4	1	2	0	0	1	3	2	21
LFC	1	2	1	1	0	1	0	0	0	1	1	0	8
LFLL	3	1	0	2	1	1	0	1	1	0	2	0	12
FHL	3	1	0	4	2	0	0	0	2	0	0	1	13
SLL	0	0	0	0	1	0	1	0	0	0	2	2	6
LDLL	0	4	0	0	1	1	0	0	3	2	9	2	22

CSO REGULATING CHAMBER MONTHLY BLOCKS CLEARED

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
UPPER PENNYPACK 5 NEWPC UNITS													
P01													0
P02													0
P03	1				1	1						1	4
P04					1								1
P05							1						1
UPPER DELAWARE LOW LEVEL 12 NEWPC UNITS													
D02					1								1
D03					1						1	1	3
D04				1							1		2
D05													0
D06		2		1	1		1						5
D07													0
D08		1	1		1	1	1						5
D09													0
D11													0
D12													0
D13													0
D15	1		1							1	1	1	5
LOWER FRANKFORD CREEK 6 NEWPC UNITS													
F13													0
F14	1												1
F21													0
F23		2	1			1				1	1		6
F24				1									1
F25													0
LOWER FRANKFORD LOW LEVEL 10 NEWPC UNITS													
F03				1									1
F04						1							1
F05	1												1
F06	1	1											2
F07											1		1
F08													0
F09								1	1		1		3
F10													0
F11				1	1								2
F12	1												1
FRANKFORD HIGH LEVEL 14 NEWPC UNITS													
T01													0
T03													0
T04				1									1
T05													0
T06													0
T07													0
T08													0
T09													0
T10				1					1				2
T11	1			1									2
T12					1								1
T13	2	1		1	1				1			1	7
T14													0
T15													0

7.3 AVERAGE BLOCKAGES PER MONTH

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
SOMERSET LOW LEVEL 9 NEWPC UNITS													
D17													0
D18											1		1
D19							1				1		2
D20					1								1
D21												2	2
D22													0
D23													0
D24													0
D25													0
LOWER DELAWARE LOW LEVEL 33 SEWPC UNITS													
D37											1		1
D38		1											1
D39									2		1		3
D40		1							1		1		3
D41													0
D42													0
D43													0
D44													0
D45													0
D46										1			1
D47													0
D48													0
D49													0
D50													0
D51		1								1	1	1	4
D51A													0
D52													0
D53													0
D54													0
D58					1								1
D61		1									1		2
D62											1		1
D63													0
D64						1					1		2
D65													0
D66													0
D67											1		1
D68													0
D69													0
D70												1	1
D71											1		1
D72													0
D73													0
D75													0
													TOTAL
	9	11	3	9	11	5	4	1	6	4	17	8	88

UP	1	0	0	0	2	1	1	0	0	0	0	1	6
UDLL	1	3	2	2	4	1	2	0	0	1	3	2	21
LFC	1	2	1	1	0	1	0	0	0	1	1	0	8
LFLL	3	1	0	2	1	1	0	1	1	0	2	0	12
FHL	3	1	0	4	2	0	0	0	2	0	0	1	13
SLL	0	0	0	0	1	0	1	0	0	0	2	2	6
LDLL	0	4	0	0	1	1	0	0	3	2	9	2	22

CSO REGULATING CHAMBER MONTHLY INSPECTION — **SWWPC PLANT REGULATORS** —

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	AVER	DTR
CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS															
S05	3	2	2	2	1	3	1	1	2	1	1	1	20	1.7	18.2
S06	3	2	2	2	1	3	1	1	2	1	1	1	20	1.7	18.2
S07	2	2	2	2	1	3	1	1	2	1	1	1	19	1.6	19.2
S08	2	2	1	2	1	3	1	1	2	1	1	1	18	1.5	20.3
S09	2	2	2	2	1	3	1	1	3	2	1	1	21	1.8	17.4
S10	2	2	2	2	1	2	2	1	2	2	1	1	20	1.7	18.2
S12	3	2	3	2	1	2	2	1	3	2	1	1	23	1.9	15.9
S12A	3	2	3	2	1	2	2	1	3	2	1	1	23	1.9	15.9
S13	3	2	3	2	1	2	2	1	2	1	1	1	21	1.8	17.4
S15	3	2	2	2	1	2	1	1	3	1	1	1	20	1.7	18.2
S16	2	2	2	2	2	2	1	1	2	4	1	1	22	1.8	16.6
S17	1	2	2	2	1	2	1	1	2	2	1	1	18	1.5	20.3
S18	1	2	2	2	1	2	1	1	1	2	1	1	17	1.4	21.5
S19	2	2	2	3	0	3	1	1	2	1	1	1	19	1.6	19.2
S21	2	2	3	2	2	3	2	1	2	2	1	1	23	1.9	15.9
S23	2	2	2	2	2	3	2	1	2	2	1	1	22	1.8	16.6
S25	2	2	1	3	1	1	2	2	1	2	0	2	19	1.6	19.2
S26	2	2	1	2	1	1	2	1	2	1	0	2	17	1.4	21.5
LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS															
S31	2	2	2	2	1	1	2	1	2	1	0	2	18	1.5	20.3
S35	2	2	2	2	1	1	2	1	2	1	0	2	18	1.5	20.3
S36	0	2	1	2	1	2	2	1	2	1	1	1	16	1.3	22.8
S36A	2	2	2	2	1	1	2	1	2	1	0	2	18	1.5	20.3
S37	0	2	1	2	1	2	2	1	2	1	1	2	17	1.4	21.5
S42	2	1	2	3	1	2	2	2	2	4	3	3	27	2.3	13.5
S42A	2	2	3	3	3	2	3	4	3	6	3	3	37	3.1	9.9
S44	0	2	1	2	1	1	2	2	2	1	1	1	16	1.3	22.8
S46	2	2	3	2	2	1	2	1	2	1	1	1	20	1.7	18.2
CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS															
S01	2	2	0	0	1	3	1	1	2	1	1	1	15	1.3	24.3
S02	2	2	1	2	1	3	1	1	2	2	0	2	19	1.6	19.2
S03	2	2	1	2	1	3	1	1	1	1	1	2	18	1.5	20.3
S04	2	1	2	0	2	3	1	1	1	2	0	2	17	1.4	21.5
S11	3	2	1	3	1	2	1	1	2	1	0	3	20	1.7	18.2
S14	1	2	1	2	1	2	2	1	2	2	1	1	18	1.5	20.3
S20	2	2	3	1	2	2	2	2	2	2	1	1	22	1.8	16.6
S22	2	2	3	1	2	2	2	2	1	2	0	2	21	1.8	17.4
S24	2	2	3	0	0	2	2	2	1	2	0	2	18	1.5	20.3
SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS															
S27	1	2	1	2	1	1	1	2	2	1	1	2	17	1.4	21.5
S28	2	2	2	1	2	1	1	1	2	1	1	2	18	1.5	20.3
S30	1	2	2	2	2	2	1	1	2	1	0	2	18	1.5	20.3
S34	1	2	2	2	2	1	1	1	2	1	0	1	16	1.3	22.8
S39	1	2	1	2	2	1	2	0	2	1	0	1	15	1.3	24.3
S40	0	1	1	1	1	1	1	0	2	0	0	0	8	0.7	45.6
S43	1	2	1	2	2	1	1	0	2	1	0	1	14	1.2	26.1
S47	2	1	2	2	2	1	1	0	2	1	0	2	16	1.3	22.8
S50	2	2	1	2	2	1	1	2	3	1	2	3	22	1.8	16.6
S51	2	2	1	2	2	1	1	1	3	1	1	1	18	1.5	20.3
LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS															
S32	1	2	2	2	1	1	2	1	1	1	1	1	16	1.3	22.8
S33	1	2	2	3	1	1	2	1	1	1	1	1	17	1.4	21.5
S38	1	1	3	1	2	1	1	1	1	1	1	1	15	1.3	24.3
S45	1	2	3	2	1	2	2	1	2	1	1	2	20	1.7	18.2

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	AVER	DTR
COBBS CREEK HIGH LEVEL 24 SWWPC UNITS															
C01	3	1	2	1	2	2	1	1	1	1	1	2	18	1.5	20.3
C02	3	1	2	1	2	2	1	1	1	1	1	2	18	1.5	20.3
C04	4	2	2	1	3	2	1	1	1	1	1	2	21	1.8	17.4
C04A	3	1	2	1	2	2	1	1	1	1	1	2	18	1.5	20.3
C05	3	1	2	1	2	2	1	1	1	1	1	1	17	1.4	21.5
C06	3	3	2	1	3	2	1	0	2	1	1	1	20	1.7	18.2
C07	4	2	2	1	3	2	1	0	2	1	1	1	20	1.7	18.2
C09	4	2	2	1	3	2	1	0	2	1	1	1	20	1.7	18.2
C10	3	1	2	1	2	2	1	0	2	1	1	1	17	1.4	21.5
C11	3	2	2	1	3	2	1	0	2	1	1	1	19	1.6	19.2
C12	1	2	2	1	2	2	0	1	2	1	1	1	16	1.3	22.8
C13	1	2	2	1	2	1	1	1	2	1	1	1	16	1.3	22.8
C14	1	2	2	1	1	2	1	1	2	1	1	1	16	1.3	22.8
C15	1	2	2	1	1	2	1	1	2	1	1	1	16	1.3	22.8
C16	1	2	2	1	1	2	1	1	2	1	1	1	16	1.3	22.8
C17	2	2	2	1	1	2	1	1	2	1	1	1	17	1.4	21.5
C18	1	2	2	1	1	2	1	1	2	1	1	1	16	1.3	22.8
C31	1	1	1	2	1	2	1	1	1	1	1	2	15	1.3	24.3
C32	1	1	1	2	1	2	1	1	1	1	1	2	15	1.3	24.3
C33	1	1	1	2	1	2	1	0	2	1	1	1	14	1.2	26.1
C34	1	1	1	2	1	1	1	0	2	1	1	1	13	1.1	28.1
C35	1	1	1	2	1	1	1	0	2	1	1	1	13	1.1	28.1
C36	1	1	1	2	1	1	1	0	2	1	1	1	13	1.1	28.1
C37	1	1	1	1	1	2	1	0	2	1	1	1	13	1.1	28.1
COBBS CREEK LOW LEVEL 12 SWWPC UNITS															
C19	1	2	1	1	2	1	1	1	2	1	1	1	15	1.3	24.3
C20	1	2	1	2	1	2	1	1	2	1	1	1	16	1.3	22.8
C21	1	2	1	2	1	2	1	1	2	1	1	1	16	1.3	22.8
C22	1	2	1	2	1	2	1	1	2	1	1	1	16	1.3	22.8
C23	1	2	1	2	1	2	1	1	2	1	1	1	16	1.3	22.8
C24	2	1	2	2	1	2	1	1	2	1	1	1	17	1.4	21.5
C25	1	2	1	2	2	0	1	1	2	1	1	1	15	1.3	24.3
C26	0	1	2	2	1	2	1	1	2	1	1	1	15	1.3	24.3
C27	0	1	2	2	1	2	1	1	2	1	1	1	15	1.3	24.3
C28A	0	1	2	2	1	2	1	1	2	1	1	1	15	1.3	24.3
C29	0	1	2	2	1	2	1	0	2	1	1	1	14	1.2	26.1
C30	1	1	1	1	1	2	1	1	2	1	1	1	14	1.2	26.1
TOTAL	144	150	151	147	121	158	111	82	163	111	75	115	1528		
I /D/C	1.6	1.6	1.7	1.6	1.3	1.7	1.2	0.9	1.8	1.2	0.8	1.3			
CSES	40	36	37	38	20	42	26	19	38	30	16	20	362	1.7	18.3
LSES	12	17	17	20	12	13	19	14	19	17	10	17	187	1.7	18.8
CSW	18	17	15	11	11	22	13	12	14	15	4	16	168	1.6	19.8
SWMG	13	18	14	18	18	11	11	8	22	9	5	15	162	1.4	24.0
LSW	4	7	10	8	5	5	7	4	5	4	4	5	68	1.4	21.7
CCHL	48	37	41	30	41	44	23	14	41	24	24	30	397	1.4	22.5
CCLL	9	18	17	22	14	21	12	11	24	12	12	12	184	1.3	23.9

1 TOTAL DISCHARGES IN SW DISTRICT — DTR = DAYS TO RETURN TO SITE

0.1 AVERAGE DISCHARGES PER MONTH — I/D/C = INSPECTIONS PER DAY PER CREW

21.3 AVER. DAYS BEFORE RETURNING TO SITE — I/D = INSPECTIONS PER DISCHARGE

1.4 AVER. INSPECTIONS PER DAY PER CREW

CSO REGULATING CHAMBER DISCHARGE — **SWWPC PLANT REGULATORS** — **PAGE 7**

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS													
S05													0
S06													0
S07													0
S08													0
S09													0
S10													0
S12													0
S12A													0
S13													0
S15													0
S16													0
S17													0
S18													0
S19													0
S21													0
S23													0
S25													0
S26													0
LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS													
S31													0
S35													0
S36													0
S36A													0
S37													0
S42													0
S42A													0
S44													0
S46													0
CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS													
S01													0
S02													0
S03													0
S04													0
S11													0
S14													0
S20			1										1
S22													0
S24													0
SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS													
S27													0
S28													0
S30													0
S34													0
S39													0
S40													0
S43													0
S47													0
S50													0
S51													0
LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS													
S32													0
S33													0
S38													0
S45													0

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
COBBS CREEK HIGH LEVEL 24 SWWPC UNITS													
C01													0
C02													0
C04													0
C04A													0
C05													0
C06													0
C07													0
C09													0
C10													0
C11													0
C12													0
C13													0
C14													0
C15													0
C16													0
C17													0
C18													0
C31													0
C32													0
C33													0
C34													0
C35													0
C36													0
C37													0
COBBS CREEK LOW LEVEL 12 SWWPC UNITS													
C19													0
C20													0
C21													0
C22													0
C23													0
C24													0
C25													0
C26													0
C27													0
C28A													0
C29													0
C30													0
	0	0	1	0	0	0	0	0	0	0	0	0	TOTAL DISC 1

	NO OF UNITS IN DISTRICT BLOCKED												TOTAL
CSE	0	0	0	0	0	1	0	0	1	0	0	1	3
LSE	1	1	1	0	0	1	0	2	0	2	2	2	12
CSW	1	0	1	1	0	0	0	0	0	0	0	0	3
SWG	0	0	1	1	0	0	1	1	0	0	1	2	7
LSW	0	0	1	0	0	0	0	0	0	0	0	0	1
CCHL	1	1	1	0	0	0	1	0	2	1	0	0	7
CCLL	0	0	0	1	0	0	0	0	3	0	0	0	4

	NO OF DISCHARGES IN DISTRICT												TOTAL
CSE	0	0	0	0	0	0	0	0	0	0	0	0	0
LSE	0	0	0	0	0	0	0	0	0	0	0	0	0
CSW	0	0	1	0	0	0	0	0	0	0	0	0	1
SWG	0	0	0	0	0	0	0	0	0	0	0	0	0
LSW	0	0	0	0	0	0	0	0	0	0	0	0	0
CCHL	0	0	0	0	0	0	0	0	0	0	0	0	0
CCLL	0	0	0	0	0	0	0	0	0	0	0	0	0

CSO REGULATING CHAMBER MONTHLY BLOCKS CLEARED

SWWPC PLANT REGULATORS

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
CENTRAL SCHUYLKILL EAST SIDE 18 SWWPC UNITS													
S05													0
S06													0
S07													0
S08												1	1
S09													0
S10													0
S12													0
S12A													0
S13													0
S15													0
S16													0
S17													0
S18													0
S19									1				1
S21						1							1
S23													0
S25													0
S26													0
LOWER SCHUYLKILL EAST SIDE 9 SWWPC UNITS													
S31													0
S35													0
S36		1											1
S36A													0
S37						1						1	2
S42	1									1			2
S42A								2		1	2	1	6
S44													0
S46			1										1
CENTRAL SCHUYLKILL WEST 9 SWWPC UNITS													
S01													0
S02				1									1
S03													0
S04													0
S11	1												1
S14													0
S20			1										1
S22													0
S24													0
SOUTHWEST MAIN GRAVITY 10 SWWPC UNITS													
S27								1					1
S28													0
S30													0
S34													0
S39													0
S40													0
S43													0
S47													0
S50			1	1			1				1	2	6
S51													0
LOWER SCHUYLKILL WEST SIDE 4 SWWPC UNITS													
S32													0
S33													0
S38			1										1
S45													0

3.1 AVERAGE BLOCKAGES PER MONTH

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
COBBS CREEK HIGH LEVEL 24 SWWPC UNITS													
C01			1				1		1				3
C02													0
C04													0
C04A													0
C05													0
C06													0
C07													0
C09													0
C10	1												1
C11													0
C12													0
C13													0
C14		1							1				2
C15													0
C16										1			1
C17													0
C18													0
C31													0
C32													0
C33													0
C34													0
C35													0
C36													0
C37													0
COBBS CREEK LOW LEVEL 12 SWWPC UNITS													
C19									1				1
C20													0
C21													0
C22													0
C23													0
C24				1									1
C25									1				1
C26									1				1
C27													0
C28A													0
C29													0
C30													0
													TOTAL
	3	2	5	3	0	2	2	3	6	3	3	5	37

CSE	0	0	0	0	0	1	0	0	1	0	0	1	3
LSE	1	1	1	0	0	1	0	2	0	2	2	2	12
CSW	1	0	1	1	0	0	0	0	0	0	0	0	3
SWG	0	0	1	1	0	0	1	1	0	0	1	2	7
LSW	0	0	1	0	0	0	0	0	0	0	0	0	1
CCHL	1	1	1	0	0	0	1	0	2	1	0	0	7
CCLL	0	0	0	1	0	0	0	0	3	0	0	0	4

MISCELLANEOUS SITE INSPECTIONS

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
P-090-02-PFD-01	SANDY RUN CREEK DIVERSION REGULATOR												
	7	4	7	8	8	8	6	13	14	9	9	7	100
T-088-01-CFD-01	PLYMOUTH ST. WEST OF PITTVILLE												
	6	4	6	6	2	6	5	8	11	5	7	6	72
T-088-01-CFD-02	PITTVILLE ST. SOUTH OF PLYMOUTH ST.												
	6	4	6	6	4	6	5	8	10	5	7	6	73
T-088-01-CFD-03	ELSTON ST. E. OF BOUVIER ST.												
	6	3	6	6	3	6	5	8	10	5	7	5	70
T-088-01-CFD-04	ASHLEY ST. W. OF BOUVIER ST.												
	5	4	5	6	4	6	5	7	10	5	7	5	69
T-088-01-CFD-05	CHELTENHAM AVE. E. OF 19TH ST.												
	5	4	6	6	5	5	5	8	10	5	7	6	72
T-088-01-CFD-06	VERBENA ST. S. OF CHELTENHAM AVE.												
	5	4	5	6	4	5	5	8	10	5	7	6	70
W-060-01-MFD-01	JANNETTE ST. WEST OF MONASTERY AVE.												
	1	2	1	1	2	2	1	2	1	2	1	1	17
W-060-01-MFD-02	GREEN LANE NORTH OF LAWNTON ST.												
	1	2	1	1	2	2	1	2	1	2	1	1	17
T-089-04-CFD-01	FRANKLIN & HASBROOK												
	9	4	6	8	6	6	5	10	11	6	8	7	86
T-088-01-CFD-07	CHELTENHAM E. OF 7 TH ST.												
	5	4	5	6	5	5	5	8	11	6	8	7	75
T-088-01-CFD-08	7 TH ST. S. OF CHELTENHAM												
	5	4	5	5	5	5	5	8	10	6	7	7	72
Totals	61	43	59	65	50	62	53	90	109	61	76	64	793

MISCELLANEOUS SITE DISCHARGES

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
P-090-02-PFD-01	SANDY RUN CREEK DIVERSION REGULATOR												
					1								1
T-088-01-CFD-01	PLYMOUTH ST. WEST OF PITTVILLE												
													0
T-088-01-CFD-02	PITTVILLE ST. SOUTH OF PLYMOUTH ST.												
													0
T-088-01-CFD-03	ELSTON ST. E. OF BOUVIER ST.												
													0
T-088-01-CFD-04	ASHLEY ST. W. OF BOUVIER ST.												
													0
T-088-01-CFD-05	CHELTENHAM AVE. E. OF 19TH ST.												
													0
T-088-01-CFD-06	VERBENA ST. S. OF CHELTENHAM AVE.												
													0
W-060-01-MFD-01	JANNETTE ST. WEST OF MONASTERY AVE.												
													0
W-060-01-MFD-02	GREEN LANE NORTH OF LAWNTON ST.												
													0
T-089-04-CFD-01	FRANKLIN & HASBROOK												
													0
T-088-01-CFD-07	CHELTENHAM E. OF 7 TH ST.												
													0
T-088-01-CFD-08	7 TH ST. S. OF CHELTENHAM												
													0
Totals	0	0	0	0	1	0	0	0	0	0	0	0	1

MISCELLANEOUS SITE BLOCKAGES CLEARED

SITE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
P-090-02-PFD-01	SANDY RUN CREEK DIVERSION REGULATOR												
			1		2		1						4
T-088-01-CFD-01	PLYMOUTH ST. WEST OF PITTVILLE												
	3	1			1	1		1			2		9
T-088-01-CFD-02	PITTVILLE ST. SOUTH OF PLYMOUTH ST.												
	1		2	1	1	2	1		2		1	1	12
T-088-01-CFD-03	ELSTON ST. E. OF BOUVIER ST.												
			2							1			3
T-088-01-CFD-04	ASHLEY ST. W. OF BOUVIER ST.												
										1			1
T-088-01-CFD-05	CHELTENHAM AVE. E. OF 19TH ST.												
									2	2			4
T-088-01-CFD-06	VERBENA ST. S. OF CHELTENHAM AVE.												
								1					1
W-060-01-MFD-01	JANNETTE ST. WEST OF MONASTERY AVE.												
													0
W-060-01-MFD-02	GREEN LANE NORTH OF LAWNTON ST.												
													0
T-089-04-CFD-01	FRANKLIN & HASBROOK												
					1			1	1				3
T-088-01-CFD-07	CHELTENHAM E. OF 7 TH ST.												
	1	1	1	2	1	4		4	2		1	3	20
T-088-01-CFD-08	7 TH ST. S. OF CHELTENHAM												
			1			1	2	2	2	1	2	3	14
Totals	5	2	7	3	6	8	4	9	9	5	6	7	71

Maintenance Fiscal Year 2026 End Report- July 2025 - June 2026

SOMERSET GRIT D-25 CHAMBER, D-45 CHAMBER, & D-37 CHAMBER

DATE	TONS	SITE
10/4/2025	12.01	D-25
7/10/2025	9.83	D-37
8/9/2025	10.45	D-37
10/9/2025	10.72	D-37
10/25/2025	9.83	D-37
4/8/2026	7.7	D-37
4/29/2026	6.8	D-37
7/12/2025	9.17	D-45
8/2/2025	8.03	D-45
9/27/2025	10.08	D-45
10/4/2025	9.97	D-45
10/18/2025	10.19	D-45
11/15/2025	10.67	D-45
12/8/2025	10.21	D-45
5/4/2026	10.6	D-45
	78.92	

CSPS SIPHON GRIT POCKET CLEANINGS

DATE	CU. YARDS
GRIT CLEANING NOT DONE DUE TO EQUIPMENT AVAILABILITY	

CSO B&B REGULATOR MAINTENANCE

DATE	SITE
7/22/2025	S-50
9/24/2025	S-50
10/6/2025	S-50
10/16/2025	S-50
9/6/2025	D-18
9/6/2025	D-20
12/18/2025	F-14
7/26/2025	S-5
7/26/2025	S-6
7/26/2025	S-7
7/26/2025	D-51
7/26/2025	D-52
7/26/2025	D58
12/9/2025	S-16
12/9/2025	S-18
12/10/2025	S-31
12/10/2025	S-33
12/10/2025	S-38
5/28/2026	D-18
5/28/2026	D-19
5/28/2026	F-14
2/3/2026	S-50
2/4/2026	S-50
2/17/2026	S-50
3/3/2026	D-07
6/12/2026	S-50

CSO TIDE GATE MAINTENANCE

DATE	SITE	DATE	SITE
7/14/2025	F-25	1/14/2026	D-09
7/21/2025	D-2	1/14/2026	D-11
7/21/2025	D-3	1/14/2026	FISH
7/21/2025	D-11	1/15/2026	D-02
7/21/2025	D-15	1/15/2026	D-03
7/23/2025	rockrun	1/15/2026	D-05
7/23/2025	T-14	1/15/2026	D-07
7/24/2025	FISH	1/21/2026	D-15
7/25/2025	D-9	1/21/2026	F-25
7/28/2025	D-07	1/22/2026	T-14
7/28/2025	D-05	1/22/2026	ockrui
8/6/2025	D-15	2/06/2026	T-14
8/25/2025	T-14	2/06/2026	ockrui
8/27/2025	rockrun	2/11/2026	D-02
8/27/2025	D-2	2/11/2026	D-03
8/27/2025	D-3	2/11/2026	D-05
8/27/2025	D-05	2/11/2026	D-07
9/3/2025	D-3	2/12/2026	D-09
9/3/2025	D-11	2/12/2026	D-11
9/25/2025	FISH	2/12/2026	D-15
10/8/2025	T-14	2/12/2026	F-25
10/8/2025	rockrun	3/12/2026	T-14
10/9/2025	D-2	3/19/2026	D-02
10/9/2025	D-3	3/19/2026	D-03
10/15/2025	D-05	3/23/2026	D-05
10/15/2025	D-9	3/23/2026	D-07
10/17/2025	D-11	3/25/2026	D-09
10/17/2025	D-15	3/25/2026	D-11
10/20/2025	D-07	3/26/2026	D-15
10/20/2025	F-25	3/26/2026	F-25
11/13/2025	D-2	3/30/2026	ockrui
11/13/2025	D-3	4/29/2026	D-02
11/13/2025	D-11	4/29/2026	D-03
11/13/2025	D-9	4/29/2026	D-05
11/17/2025	D-05	5/4/2026	D-07
11/17/2025	D-07	5/4/2026	D-09
11/21/2025	rockrun	5/4/2026	D-11
11/21/2025	T-14	5/08/2026	ockrui
11/21/2025	FISH	5/08/2026	T-14
12/10/2025	rockrun	5/08/2026	D-15
12/18/2025	D-2	5/08/2026	F-25
12/18/2025	D-3	5/11/2026	D-02
12/18/2025	D-11	5/11/2026	D-03
12/18/2025	D-15	5/11/2026	D-05
12/19/2025	T-14	6/08/2026	D-15
12/19/2025	D-9	6/10/2026	D-02
12/22/2025	D-05	6/10/2026	D-03

COMPUTER CONTROL CHAMBER PREVENTATIVE MAINTENANCE

DATE	SITE	DATE	SITE	DATE	SITE
7/14/2025	F-25	11/21/2025	VENICE	5/4/2026	D-11
7/21/2025	D-2	12/03/2025	VENICE	5/08/2026	ockrun
7/21/2025	D-3	12/10/2025	rockrun	5/08/2026	T-14
7/21/2025	D-11	12/18/2025	D-2	5/08/2026	D-15
7/21/2025	D-15	12/18/2025	D-3	5/08/2026	F-25
7/23/2025	rockrun	12/18/2025	D-11	5/11/2026	VENICE
7/23/2025	T-14	12/18/2025	D-15	5/11/2026	D-02
7/24/2025	FISH	12/19/2025	T-14	5/11/2026	D-03
7/24/2025	VENICE	12/19/2025	D-9	5/11/2026	D-05
7/25/2025	D-9	12/22/2025	D-05	6/08/2026	D-15
7/25/2025	STATE RD	12/22/2025	D-07	6/10/2026	D-02
7/28/2025	D-07	12/22/2025	FISH	6/10/2026	D-03
7/28/2025	D-05	12/31/2025	STATE RD	6/22/2026	D-05
8/6/2025	D-15	12/31/2025	F-25	6/22/2026	D-07
8/6/2025	STATE RD	1/14/2026	D-09	6/22/2026	D-09
8/25/2025	T-14	1/14/2026	D-11	6/25/2026	ockrun
8/25/2025	VENICE	1/14/2026	FISH	6/26/2026	F-25
8/27/2025	rockrun	1/14/2026	VENICE	6/26/2026	D-11
8/27/2025	D-2	1/15/2026	D-02	6/29/2026	FISH
8/27/2025	D-3	1/15/2026	D-03	6/29/2026	T-14
8/27/2025	D-05	1/15/2026	D-05	6/29/2026	VENIC
9/3/2025	D-3	1/15/2026	D-07		
9/3/2025	D-11	1/21/2026	D-15		
9/4/2025	D-9	1/21/2026	F-25		
9/4/2025	F-25	1/22/2026	T-14		
9/8/2025	D-07	1/22/2026	rockrun		
9/8/2025	D-2	1/22/2026	state rd		
9/8/2025	D-05	2/06/2026	T-14		
9/8/2025	D-15	2/06/2026	rockrun		
9/15/2025	rockrun	2/11/2026	D-02		
9/15/2025	T-14	2/11/2026	D-03		
9/22/2025	STATE RD	2/11/2026	D-05		
9/25/2025	VENICE	2/11/2026	D-07		
9/25/2025	FISH	2/12/2026	D-09		
10/8/2025	T-14	2/12/2026	D-11		
10/8/2025	rockrun	2/12/2026	D-15		
10/9/2025	VENICE	2/12/2026	F-25		
10/9/2025	D-2	2/26/2026	VENICE		
10/9/2025	D-3	3/09/2026	state rd		
10/15/2025	D-05	3/23/2026	D-07		
10/15/2025	D-9	3/25/2026	D-09		
10/17/2025	D-11	3/19/2026	D-02		
10/17/2025	D-15	3/19/2026	D-03		
10/20/2025	D-07	3/23/2026	D-05		
10/20/2025	F-25	3/23/2026	D-07		
10/22/2025	STATE RD	3/25/2026	D-09		
10/27/2025	FISH	3/25/2026	D-11		

CSO OUTFALL - DEBRIS GRILL MAINTENANCE

DATE	SITE	DATE	SITE	DATE	SITE
7/14/2025	F-25	12/22/2025	FISH	6/29/2026	FISH
7/21/2025	D-2	12/31/2025	F-25	6/29/2026	T-14
7/21/2025	D-3	1/8/2026	T-08		
7/21/2025	D-11	1/14/2026	D-09		
7/21/2025	D-15	1/14/2026	D-11		
7/23/2025	rockrun	1/14/2026	FISH		
7/23/2025	T-14	1/15/2026	D-02		
7/24/2025	FISH	1/15/2026	D-03		
7/25/2025	D-9	1/15/2026	D-05		
7/28/2025	D-07	1/15/2026	D-07		
7/28/2025	D-05	1/21/2026	D-15		
8/6/2025	D-15	1/21/2026	F-25		
8/25/2025	T-14	1/22/2026	T-14		
8/27/2025	rockrun	1/22/2026	rockrun		
8/27/2025	D-2	2/06/2026	T-14		
8/27/2025	D-3	2/06/2026	rockrun		
8/27/2025	D-05	2/11/2026	D-02		
9/3/2025	D-3	2/11/2026	D-03		
9/3/2025	D-11	2/11/2026	D-05		
9/4/2025	D-9	2/11/2026	D-07		
9/4/2025	F-25	2/12/2026	D-09		
9/8/2025	D-07	2/12/2026	D-11		
9/8/2025	D-2	2/12/2026	D-15		
9/8/2025	D-05	2/12/2026	F-25		
9/8/2025	D-15	3/12/2026	T-14		
9/15/2025	rockrun	3/19/2026	D-02		
9/15/2025	T-14	3/19/2026	D-03		
9/25/2025	FISH	3/23/2026	D-05		
10/8/2025	T-14	3/23/2026	D-07		
10/8/2025	rockrun	3/25/2026	D-09		
10/9/2025	D-2	3/25/2026	D-11		
10/9/2025	D-3	3/26/2026	D-15		
10/15/2025	D-05	3/26/2026	F-25		
10/15/2025	D-9	3/30/2026	rockrun		
10/17/2025	D-11	4/29/2026	D-02		
10/17/2025	D-15	4/29/2026	D-03		
10/20/2025	D-07	4/29/2026	D-05		
10/20/2025	F-25	5/4/2026	D-07		
11/13/2025	D-2	5/4/2026	D-09		
11/13/2025	D-3	5/4/2026	D-11		
11/13/2025	D-11	5/08/2026	rockrun		
11/13/2025	D-9	5/08/2026	T-14		
11/17/2025	D-2	5/11/2026	D-15		
11/17/2025	D-05	5/08/2026	F-25		
11/17/2025	D-07	5/11/2026	D-02		
11/21/2025	rockrun	5/11/2026	D-03		
11/21/2025	T-14	5/11/2026	D-05		
11/21/2025	FISH	5/11/2026	D-05		

CCTV MILEAGE

	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Total
Green	2.15	2.84	2.89	4.25	2.61	2.30	1.70	1.35	1.56	2.98	2.95	.90	**28.48**
Sewer	3.58	6.39	7.14	8.11	6.11	3.77	2.30	4.78	6.23	6.07	5.29	4.30	**64.07**
Totals	5.73	9.23	10.03	12.36	8.72	6.07	4.00	6.13	7.79	9.05	8.24	5.20	**92.55**

CCTV INSPECTIONS

	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Total
Green	234	314	294	396	227	189	144	113	159	315	308	83	2776
Sewer	142	366	268	303	240	168	99	157	232	230	218	164	2587
Totals	376	680	562	699	467	357	343	270	391	545	516	247	5363

Appendix D – NPDES Annual CSO Report Status FY26

APPENDIX D –
NPDES ANNUAL CSO STATUS REPORT FY 2026

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Table 1 - Listing of all CSO permitted outfalls

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
NPDES Permit #0026689 - Northeast						
2	39d 58m 50s	75d 4m 58s	Castor Ave. and Balfour St.	Delaware River	Somerset	D_17
3	39d 58m 45s	75d 5m 6s	Venango St. NW of Casper St.	Delaware River	Somerset	D_18
4	39d 58m 41s	75d 5m 15s	Tioga St. NW of Casper St.	Delaware River	Somerset	D_19
5	39d 58m 43s	75d 5m 28s	Ontario St. NW of Casper St.	Delaware River	Somerset	D_20
6	39d 58m 44s	75d 5m 41s	Westmoreland St. NW of Balfour St.	Delaware River	Somerset	D_21
7	39d 58m 42s	75d 5m 53s	Allegheny Ave. SE of Bath St.	Delaware River	Somerset	D_22
8	39d 58m 38s	75d 6m 12s	Indiana Ave. SE of Allen St.	Delaware River	Somerset	D_23
10	39d 58m 38s	75d 6m 28s	Cambria St. E of Melvale St.	Delaware River	Somerset	D_25
11	40d 1m 18s	75d 1m 44s	Cottman St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_02
12	40d 1m 14s	75d 2m 0s	Princeton Ave SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_03
13	40d 1m 8s	75d 2m 13s	Disston St. SE of Wissinoming St.	Delaware River	Upper Delaware Low Level	D_04
14	40d 0m 58s	75d 2m 34s	Magee St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_05
15	40d 0m 53s	75d 2m 46s	Levick St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_06
16	40d 0m 44s	75d 3m 5s	Lardner St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_07
17	40d 0m 38s	75d 3m 13s	Comly St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_08
18	40d 0m 34s	75d 3m 18s	Dark Run La and Milnor St.	Delaware River	Upper Delaware Low Level	D_09
19	40d 0m 21s	75d 3m 28s	Sanger St. SE of Milnor St.	Delaware River	Upper Delaware Low Level	D_11
20	40d 0m 2s	75d 3m 43s	Bridge St. Se of Garden St.	Delaware River	Upper Delaware Low Level	D_12

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
21	39d 59m 53s	75d 3m 47s	Kirkbride St. and Delaware Ave.	Delaware River	Upper Delaware Low Level	D_13
22	39d 59m 24s	75d 4m 4s	Orthodox St. and Delaware Ave.	Delaware River	Upper Delaware Low Level	D_15
23	40d 2m 36s	75d 1m 15s	Frankford Avenue & Ashburner Street	Pennypack Creek	Pennypack	P_01
24	40d 2m 36s	75d 1m 16s	Frankford Avenue & Holmesburg St.	Pennypack Creek	Pennypack	P_02
25	40d 2m 13s	75d 1m 19s	Torresdale Ave. NW of Pennypack Ck.	Pennypack Creek	Pennypack	P_03
26	40d 2m 23s	75d 1m 21s	Cottage Avenue & Holmesburg Avenue	Pennypack Creek	Pennypack	P_04
27	40d 2m 2s	75d 1m 21s	Holmesburg Ave SE of Hegerman St	Pennypack Creek	Pennypack	P_05
28	40d 4m 34s	75d 9m 44s	Williams Avenue SE of Sedgewick	Tacony Creek	Frankford High Level	T_01
29	40d 2m 28s	75d 6m 56s	Complost Ave West of Tacony Creek	Tacony Creek	Frankford High Level	T_03
30	40d 2m 11s	75d 6m 48s	Rising Sun Ave East of Tacony Creek	Tacony Creek	Frankford High Level	T_04
31	40d 2m 9s	75d 6m 48s	Rising Sun Ave West of Tacony Creek	Tacony Creek	Frankford High Level	T_05
32	40d 2m 3s	75d 6m 41s	Bingham Street East of Tacony Creek	Tacony Creek	Frankford High Level	T_06
33	40d 1m 51s	75d 6m 43s	Tabor Road West of Tacony Creek	Tacony Creek	Frankford High Level	T_07
34	40d 1m 42s	75d 6m 47s	Ashdale Street West of Tacony Creek	Tacony Creek	Frankford High Level	T_08
35	40d 1m 37s	75d 6m 48s	Roosevelt Blvd. West of Tacony Creek	Tacony Creek	Frankford High Level	T_09
36	40d 1m 37s	75d 6m 47s	Roosevelt Blvd. East of Tacony Creek	Tacony Creek	Frankford High Level	T_10

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
37	40d 1m 29s	75d 6m 43s	Ruscomb Street East of Tacony Creek	Tacony Creek	Frankford High Level	T_11
38	40d 1m 23s	75d 6m 41s	Whitaker Avenue East of Tacony Creek	Tacony Creek	Frankford High Level	T_12
39	40d 1m 22s	75d 6m 42s	Whitaker Avenue West of Tacony Ck	Tacony Creek	Frankford High Level	T_13
40	40d 0m 59s	75d 6m 28s	I Street & Ramona Ave.	Tacony Creek	Frankford High Level	T_14
41	40d 0m 57s	75d 6m 20s	J Street & Juniata Park	Tacony Creek	Frankford High Level	T_15
42	40d 0m 57s	75d 5m 51s	Castor Avenue at Unity Street Circle	Frankford Creek	Upper Frankford Low Level	F_03
43	40d 0m 52s	75d 5m 42s	Wingohocking St East of Adams Ave	Frankford Creek	Upper Frankford Low Level	F_04
44	40d 0m 41s	75d 5m 41s	Bristol Street West of Adams Avenue	Frankford Creek	Upper Frankford Low Level	F_05
45	40d 0m 25s	75d 5m 33s	Worrel Street East of Frankford Creek	Frankford Creek	Upper Frankford Low Level	F_06
46	40d 0m 26s	75d 5m 34s	Worrel Street West of Frankford Creek	Frankford Creek	Upper Frankford Low Level	F_07
47	40d 0m 21s	75d 5m 36s	Torresdale Ave & Hunting Park Ave	Frankford Creek	Upper Frankford Low Level	F_08
48	40d 0m 19s	75d 5m 34s	Frankford Ave North of Frankford Ck	Frankford Creek	Upper Frankford Low Level	F_09
49	40d 0m 19s	75d 5m 35s	Frankford Ave South of Frankford Ck	Frankford Creek	Upper Frankford Low Level	F_10
50	40d 0m 15s	75d 5m 26s	Orchard Street South of Vandyke Creek	Frankford Creek	Upper Frankford Low Level	F_11
51	39d 59m 56s	75d 5m 14s	Sepviva Street North of Butler Street	Frankford Creek	Upper Frankford Low Level	F_12
52	39d 59m 49s	75d 5m 3s	Duncan Street Under Delaware Exp.	Frankford Creek	Lower Frankford Low Level	F_13

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
54	40d 0m 16s	75d 4m 15s	Wakeling Street NW of Creek Basin	Frankford Creek	Lower Frankford Low Level	F_21
55	40d 0m 19s	75d 4m 5s	Bridge Street NW of Creek Basin	Frankford Creek	Lower Frankford Low Level	F_23
56	40d 0m 18s	75d 4m 5s	Bridge Street SE of Creek Basin	Frankford Creek	Lower Frankford Low Level	F_24
57	40d 0m 15s	75d 4m 15s	Ash Street West of Creek Basin	Frankford Creek	Lower Frankford Low Level	F_25
58	40d 0m 30s	75d 3m 20s	Levick St. & Everett Ave.	Delaware River	Wakling Relief Sewer	D_FRW
59	40d 2m 16s	75d 6m 53s	Nedro Ave & 7th St.	Tacony Creek	Rock Run Flood Relief Sewer	T_FRRR
60	40d 0m 36s	75d 5m 44s	Castor Ave. & East Hunting Park Ave.	Frankford Creek	Frankford High Level Relief Sewer	F_FRFG
NPDES Permit # 0026662 – Southeast						
2	39d 58m 9s	75d 7m 19s	Dyott Street & Delaware Ave.	Delaware River	Lower Delaware Low Level	D_38
3	39d 58m 7s	75d 7m 23s	Susquehanna Ave. East of Beach Street	Delaware River	Lower Delaware Low Level	D_39
4	39d 58m 5s	75d 7m 26s	Berks Street East of Beach Street	Delaware River	Lower Delaware Low Level	D_40
5	39d 58m 3s	75d 7m 37s	Palmer Street East of Beach Street	Delaware River	Lower Delaware Low Level	D_41
6	39d 57m 54s	75d 7m 42s	Columbia Avenue East of Beach Street	Delaware River	Lower Delaware Low Level	D_42
7	39d 57m 56s	75d 7m 48s	Marlborough Street & Delaware Ave	Delaware River	Lower Delaware Low Level	D_43
8	39d 57m 53s	75d 7m 54s	Shackamaxon St East of Delaware Ave	Delaware River	Lower Delaware Low Level	D_44
9	39d 57m 48s	75d 8m 0s	Laurel Street & Delaware Avenue	Delaware River	Lower Delaware Low Level	D_45

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
10	39d 57m 41s	75d 8m 11s	Penn Street & Delaware Avenue	Delaware River	Lower Delaware Low Level	D_46
11	39d 57m 37s	75d 8m 9s	Fairmont Ave West of Delaware Ave	Delaware River	Lower Delaware Low Level	D_47
12	39d 57m 28s	75d 8m 13s	Willow Street West of Delaware Ave	Delaware River	Lower Delaware Low Level	D_48
13	39d 57m 24s	75d 8m 20s	Callowhill Street & Delaware Avenue	Delaware River	Lower Delaware Low Level	D_49
14	39d 57m 21s	75d 8m 13s	Delaware Avenue North of Vine Street	Delaware River	Lower Delaware Low Level	D_50
15	39d 57m 11s	75d 8m 17s	Race Street West of Delaware Avenue	Delaware River	Lower Delaware Low Level	D_51
16	39d 57m 7s	75d 8m 25s	Delaware Avenue & Arch Street	Delaware River	Lower Delaware Low Level	D_52
17	39d 56m 57s	75d 8m 23s	Market Street & Front Street	Delaware River	Lower Delaware Low Level	D_53
20	39d 56m 50s	75d 8m 24s	Front Street South of Chestnut Street	Delaware River	Lower Delaware Low Level	D_54
21	39d 56m 26s	75d 8m 32s	South Street & Delaware Avenue	Delaware River	Lower Delaware Low Level	D_58
22	39d 56m 12s	75d 8m 33s	Catharine Street East of Swanson Street	Delaware River	Lower Delaware Low Level	D_61
23	39d 56m 10s	75d 8m 32s	Queen Street East of Swanson Street	Delaware River	Lower Delaware Low Level	D_62
24	39d 56m 5s	75d 8m 33s	Christian St West of Delaware Avenue	Delaware River	Lower Delaware Low Level	D_63
25	39d 55m 59s	75d 8m 35s	Washington Ave East of Delaware Ave	Delaware River	Lower Delaware Low Level	D_64
26	39d 55m 45s	75d 8m 29s	Reed Street East of Delaware Avenue	Delaware River	Lower Delaware Low Level	D_65

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
27	39d 55m 37s	75d 8m 28s	Tasker Street East of Delaware Avenue	Delaware River	Lower Delaware Low Level	D_66
28	39d 55m 26s	75d 8m 21s	Moore Street East of Delaware Avenue	Delaware River	Lower Delaware Low Level	D_67
33	39d 54m 6s	75d 8m 12s	Pattison Avenue & Swanson Street	Delaware River	Lower Delaware Low Level	D_73
36	39d 58m 21s	75d 6m 58s	Cumberland St East of Richmond St	Delaware River	Lower Delaware Low Level	D_37
37	39d 57m 12s	75d 8m 24s	Race Street West of Delaware Avenue, North of D-51	Delaware River	Lower Delaware Low Level	D_51A
29	39d 55m 13s	75d 8m 20s	Snyder Avenue & Delaware Avenue	Delaware River	Oregon	D_68
30	39d 54m 60s	75d 8m 13s	Delaware Ave North of Porter Street	Delaware River	Oregon	D_69
31	39d 54m 44s	75d 8m 15s	Oregon Avenue & Delaware Avenue	Delaware River	Oregon	D_70
32	39d 54m 33s	75d 7m 59s	Bigler Street & Delaware Avenue	Delaware River	Oregon	D_71
34	39d 54m 24s	75d 8m 8s	Packer Avenue East of Delaware Ave	Delaware River	Oregon	D_72
NPDES Permit # 0026671 - Southwest						
2	39d 56m 17s	75d 12m 17s	Reed Street & Schuylkill Avenue	Schuylkill River	Lower Schuylkill East Side	S_31
3	39d 55m 54s	75d 12m 28s	35th St. and Mifflin St.	Schuylkill River	Lower Schuylkill East Side	S_36A
4	39d 55m 41s	75d 12m 38s	Vare Avenue & 29th Street	Schuylkill River	Lower Schuylkill East Side	S_37
5	39d 55m 12s	75d 12m 5s	Passyunk Avenue & 29th Street	Schuylkill River	Lower Schuylkill East Side	S_42
6	39d 55m 12s	75d 12m 5s	Passyunk Avenue & 28th Street	Schuylkill River	Lower Schuylkill East Side	S_42A

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
7	39d 54m 57s	75d 12m 16s	26th Street 700′ North of Hartranft St	Schuylkill River	Lower Schuylkill East Side	S_44
8	39d 53m 53s	75d 12m 39s	Penrose Avenue & 26th Street	Schuylkill River	Lower Schuylkill East Side	S_46
9	39d 57m 38s	75d 10m 50s	24th Street 155′ South of Parktown Pl	Schuylkill River	Central Schuylkill East Side	S_05
10	39d 57m 39s	75d 10m 49s	24th Street 350′ South of Parktown Pl	Schuylkill River	Central Schuylkill East Side	S_06
11	39d 57m 39s	75d 10m 50s	24th Street East of Schuylkill River	Schuylkill River	Central Schuylkill East Side	S_07
12	39d 57m 29s	75d 10m 43s	Race Street & Bonsall Street	Schuylkill River	Central Schuylkill East Side	S_08
13	39d 57m 30s	75d 10m 45s	Arch Street West of 23rd Street	Schuylkill River	Central Schuylkill East Side	S_09
14	39d 57m 16s	75d 10m 49s	Market Street 25′ East of 24th Street	Schuylkill River	Central Schuylkill East Side	S_10
15	39d 57m 11s	75d 10m 51s	24th St. N of Chestnut St. Bridge	Schuylkill River	Central Schuylkill East Side	S_12A
16	39d 57m 7s	75d 10m 52s	Sansom Street West of 24th Street	Schuylkill River	Central Schuylkill East Side	S_13
17	39d 57m 5s	75d 10m 53s	Walnut Street West of 24th Street	Schuylkill River	Central Schuylkill East Side	S_15
18	39d 57m 1s	75d 10m 56s	Locust Street & 25th Street	Schuylkill River	Central Schuylkill East Side	S_16
19	39d 56m 57s	75d 11m 0s	Spruce Street & 25th Street	Schuylkill River	Central Schuylkill East Side	S_17
20	39d 56m 52s	75d 11m 5s	Pine Street West of Taney Street	Schuylkill River	Central Schuylkill East Side	S_18
21	39d 56m 49s	75d 11m 9s	Lombard Street West of 27th Street	Schuylkill River	Central Schuylkill East Side	S_19

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
22	39d 56m 47s	75d 11m 12s	South Street East of 27th Street	Schuylkill River	Central Schuylkill East Side	S_21
23	39d 56m 44s	75d 11m 18s	Schuylkill Avenue & Bainbridge Street	Schuylkill River	Central Schuylkill East Side	S_23
24	39d 56m 34s	75d 11m 28s	Schuylkill Avenue & Christian Street	Schuylkill River	Central Schuylkill East Side	S_25
25	39d 56m 29s	75d 11m 35s	Ellsworth St West of Schuylkill Avenue	Schuylkill River	Central Schuylkill East Side	S_26
26	39d 58m 1s	75d 11m 17s	Mantua Avenue & West River Drive	Schuylkill River	Central Schuylkill West Side	S_01
27	39d 57m 54s	75d 11m 7s	Haverford Avenue & West River Drive	Schuylkill River	Central Schuylkill West Side	S_02
28	39d 57m 51s	75d 11m 4s	Spring Garden St W of Schuylkill Expy	Schuylkill River	Central Schuylkill West Side	S_03
29	39d 57m 53s	75d 11m 4s	Powelton Ave W of Schuylkill Expy	Schuylkill River	Central Schuylkill West Side	S_04
30	39d 57m 16s	75d 10m 53s	Market St West of Schuylkill Expy	Schuylkill River	Central Schuylkill West Side	S_11
31	39d 57m 5s	75d 10m 58s	Schuylkill Expressway & Walnut Street	Schuylkill River	Central Schuylkill West Side	S_14
32	39d 56m 51s	75d 11m 14s	440′ Northwest of South Street	Schuylkill River	Central Schuylkill West Side	S_20
33	39d 56m 46s	75d 11m 22s	660′ South of South St E of Pennfield	Schuylkill River	Central Schuylkill West Side	S_22
34	39d 56m 43s	75d 11m 26s	1060′ South of South St E of Pennfield	Schuylkill River	Central Schuylkill West Side	S_24
35	39d 56m 32s	75d 12m 27s	46th Street & Paschall Avenue	Schuylkill River	Southwest Main Gravity	S_30
36	39d 56m 36s	75d 12m 18s	43rd St. and Locust St.	Schuylkill River	Southwest Main Gravity	S_50

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
37	39d 56m 13s	75d 12m 23s	49th Street South of Botanic Street	Schuylkill River	Lower Schuylkill West Side	S_32
38	39d 56m 8s	75d 12m 24s	51st Street South of Botanic Street	Schuylkill River	Lower Schuylkill West Side	S_33
39	39d 55m 43s	75d 12m 45s	56th Street East of P&R Railroad	Schuylkill River	Lower Schuylkill West Side	S_38
40	39d 54m 39s	75d 12m 55s	64th St. and Buist Ave.	Schuylkill River	Lower Schuylkill West Side	S_45
41	39d 56m 10s	75d 14m 6s	60th Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek High Level	C_18
51	39d 58m 51s	75d 16m 4s	City Line Avenue & 73rd Street	Cobbs Creek	Cobbs Creek High Level	C_01
52	39d 58m 51s	75d 16m 1s	City Line Ave 100′ South Side of Creek	Cobbs Creek	Cobbs Creek High Level	C_02
54	39d 58m 30s	75d 15m 26s	Lebanon Ave Southwest of 73rd Street	Cobbs Creek	Cobbs Creek High Level	C_05
55	39d 58m 31s	75d 15m 25s	Lebanon Avenue & 68th Street	Cobbs Creek	Cobbs Creek High Level	C_06
56	39d 58m 26s	75d 15m 26s	Lansdowne Avenue & 69th Street	Cobbs Creek	Cobbs Creek High Level	C_07
57	39d 57m 51s	75d 14m 56s	54th Street & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_09
58	39d 57m 50s	75d 14m 53s	Gross Street & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_10
59	39d 57m 43s	75d 14m 53s	Cobbs Creek Pky South of Market St	Cobbs Creek	Cobbs Creek High Level	C_11
60	39d 57m 27s	75d 14m 60s	Spruce Street & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_12
61	39d 56m 45s	75d 14m 58s	62nd Street & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_13
62	39d 56m 36s	75d 14m 50s	Baltimore Avenue & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_14

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
63	39d 56m 31s	75d 14m 26s	59th Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek High Level	C_15
64	39d 56m 26s	75d 14m 23s	Thomas Avenue & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_16
65	39d 56m 13s	75d 14m 6s	Beaumont Street & Cobbs Creek	Cobbs Creek	Cobbs Creek High Level	C_17
66	39d 58m 29s	75d 16m 48s	Cobbs Creek Pky S of City Line Ave	Cobbs Creek	Cobbs Creek High Level	C_31
67	39d 58m 12s	75d 15m 56s	Brockton Road & Farrington Road	Cobbs Creek	Cobbs Creek High Level	C_33
68	39d 58m 40s	75d 15m 44s	Woodcrest Avenue & Morris Park	Cobbs Creek	Cobbs Creek High Level	C_34
69	39d 58m 47s	75d 15m 54s	Morris Park West of 72nd Street & Sherwood Road	Cobbs Creek	Cobbs Creek High Level	C_35
70	39d 58m 49s	75d 15m 35s	Woodbine Ave South of Brentwood Rd	Cobbs Creek	Cobbs Creek High Level	C_36
71	39d 57m 55s	75d 15m 15s	Cobbs Creek Parkway South of 67th & Callowhill Streets	Cobbs Creek	Cobbs Creek High Level	C_37
72	39d 58m 22s	75d 16m 11s	Cobbs Creek Parkway & 77th Street	Cobbs Creek	Cobbs Creek High Level	C_32
82	39d 58m 38s	75d 15m 28s	Malvern Ave. and 68th St.	Cobbs Creek	Cobbs Creek High Level	C_04A
42	39d 55m 57s	75d 14m 19s	Mount Moriah Cemetary & 62nd Street	Cobbs Creek	Cobbs Creek Low Level	C_19
43	39d 55m 46s	75d 14m 39s	65th Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek Low Level	C_20
44	39d 55m 37s	75d 14m 40s	68th Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek Low Level	C_21
45	39d 55m 27s	75d 14m 46s	70th Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek Low Level	C_22
46	39d 55m 15s	75d 14m 52s	Upland Street & Cobbs Creek Parkway	Cobbs Creek	Cobbs Creek Low Level	C_23

Point Source #	Outfall Latitude	Outfall Longitude	Regulator Location	Discharges to:	Interceptor	Outfall Name
47	39d 55m 1s	75d 14m 49s	Woodland Avenue East of Island Ave.	Cobbs Creek	Cobbs Creek Low Level	C_25
49	39d 54m 44s	75d 14m 56s	Claymont Street & Grays Avenue	Cobbs Creek	Cobbs Creek Low Level	C_29
50	39d 54m 34s	75d 15m 1s	77th Street West of Elmwood Avenue	Cobbs Creek	Cobbs Creek Low Level	C_30
78	39d 54m 49s	75d 14m 50s	Island Ave. Southeast of Glenmore Ave	Cobbs Creek	Cobbs Creek Low Level	C_28A
75	39d 57m 59s	75d 11m 3s	16th St. & Clearfield St.	Schuylkill River	Main Relief Sewer	S_FRM
83	39d 56m 31s	75d 14m 25s	56th St. & Locust	Cobbs Creek	Thomas Run Relief Sewer	C_FRTR
84	39d 57m 49s	75d 14m 53s	Arch Street & Cobbs Creek	Cobbs Creek	Arch Street Relief Sewer	C_FRA

Table 2 - Overflow Summary for 7/1/2025 – 6/30/2026

District	Permitted Outfall	Frequency	Duration (hours)	Volume (ft^3)
Northeast	D_FRW	40	105.75	24,552,279
Northeast	D02	18	33	4,188,033
Northeast	D03	18	30	1,189,296
Northeast	D04	12	15.75	222,893
Northeast	D05	34	106.5	34,045,152
Northeast	D06	12	11	248,899
Northeast	D07	40	110.25	16,790,714
Northeast	D08	9	9.5	128,217
Northeast	D09	8	5.25	144,117
Northeast	D11	10	14.75	1,644,121
Northeast	D12	40	60.5	110,849
Northeast	D13	1	1	22,403
Northeast	D15	7	13.25	326,115
Northeast	D17	33	95	6,081,636
Northeast	D18	33	68.5	3,147,996
Northeast	D19	37	113.25	3,478,637
Northeast	D20	24	44.25	1,726,184
Northeast	D21	37	100.25	5,398,321
Northeast	D22	64	240.5	17,286,125
Northeast	D23	36	43.25	100,345
Northeast	D25	56	226.5	64,447,695
Northeast	F_FRFG	32	94.5	8,475,757
Northeast	F03	11	16.5	831,977
Northeast	F04	45	114.75	4,153,395
Northeast	F05	43	97	581,383
Northeast	F06	14	19	853,535
Northeast	F07	30	42	1,676,376
Northeast	F08	23	32.75	1,283,866
Northeast	F09	50	131.5	807,166
Northeast	F10	12	21	1,096,861
Northeast	F11	57	180.5	8,100,971
Northeast	F12	19	22	328,717
Northeast	F13	39	64.5	907,845
Northeast	F21	54	251.25	64,153,961
Northeast	F23	35	74.75	743,094

District	Permitted Outfall	Frequency	Duration (hours)	Volume (ft^3)
Northeast	F24	39	70	415,513
Northeast	F25	11	12.25	1,171,894
Northeast	P01	10	9.25	438,163
Northeast	P02	41	74	1,846,757
Northeast	P03	17	22.75	365,009
Northeast	P04	9	34.5	1,213,285
Northeast	P05	17	50	2,928,033
Northeast	T_FRRR	30	115.75	22,415,931
Northeast	T01	60	209	6,973,002
Northeast	T03	47	106	2,185,626
Northeast	T04	39	72.75	1,176,336
Northeast	T05	38	46	842,017
Northeast	T06	22	37.5	4,344,130
Northeast	T07	12	8	92,306
Northeast	T08	51	137.25	26,414,554
Northeast	T09	28	29.25	512,124
Northeast	T10	58	151.5	2,236,453
Northeast	T11	37	57.75	535,577
Northeast	T12	7	4.75	25,389
Northeast	T13	28	76	2,086,791
Northeast	T14	61	370.25	167,888,332
Northeast	T15	43	88.5	3,539,704
Southeast	D37	45	164	9,496,504
Southeast	D38	34	99.75	9,418,065
Southeast	D39	42	145.25	16,087,452
Southeast	D40	53	156.25	785,064
Southeast	D41	32	79	561,879
Southeast	D42	8	5.75	8,314
Southeast	D43	8	10.25	17,729
Southeast	D44	17	26.5	980,874
Southeast	D45	32	78.5	27,472,859
Southeast	D46	20	29	275,910
Southeast	D47	51	145.75	4,100,859
Southeast	D48	34	52.25	5,833,543
Southeast	D49	4	2	5,616
Southeast	D50	5	3	28,353
Southeast	D51	45	105.5	644,124

District	Permitted Outfall	Frequency	Duration (hours)	Volume (ft^3)
Southeast	D51A	42	77.5	508,938
Southeast	D52	24	22	167,820
Southeast	D53	8	10.5	897,145
Southeast	D54	13	17.5	4,679,007
Southeast	D58	14	16.75	469,675
Southeast	D61	38	42	376,928
Southeast	D62	20	18.75	144,769
Southeast	D63	26	27.75	4,905,093
Southeast	D64	34	37	255,891
Southeast	D65	30	50.75	5,616,847
Southeast	D66	46	102.75	6,780,614
Southeast	D67	28	82.75	3,160,361
Southeast	D68	37	90.25	12,529,568
Southeast	D69	15	30.75	3,666,199
Southeast	D70	12	21.5	5,002,494
Southeast	D71	9	15.25	1,509,820
Southeast	D72	9	17	1,915,908
Southeast	D73	39	129	12,553,878
Southwest	C_FRA	8	8.25	1,113,798
Southwest	C_FRTR	74	304.5	17,781,013
Southwest	C01	14	14.5	317,758
Southwest	C02	2	0.75	2,621
Southwest	C04A	16	17.75	693,008
Southwest	C05	3	3	81,413
Southwest	C06	42	64.5	2,534,333
Southwest	C07	21	21.25	572,528
Southwest	C09	28	41	1,363,685
Southwest	C10	25	39.5	346,351
Southwest	C11	36	80	10,371,315
Southwest	C12	32	62.5	1,111,720
Southwest	C13	24	31.75	696,593
Southwest	C14	21	32.5	1,265,727
Southwest	C15	5	4.25	51,132
Southwest	C16	2	1	2,174
Southwest	C17	42	90.75	16,048,104
Southwest	C18	26	26.25	1,566,909
Southwest	C19	10	9.75	438,683

District	Permitted Outfall	Frequency	Duration (hours)	Volume (ft^3)
Southwest	C20	11	9.75	232,886
Southwest	C21	5	5.25	198,347
Southwest	C22	37	110.5	1,464,833
Southwest	C23	13	89.75	491,507
Southwest	C25	21	153.25	2,874,377
Southwest	C28A	28	31.25	251,564
Southwest	C29	27	222	4,297,217
Southwest	C30	24	183.25	785,143
Southwest	C31	32	52	826,133
Southwest	C32	38	49.25	1,085,316
Southwest	C33	18	18	360,138
Southwest	C34	8	7.75	221,422
Southwest	C35	6	5.25	30,654
Southwest	C36	6	5	34,643
Southwest	C37	14	11	87,039
Southwest	S_FRM	7	9.25	3,648,086
Southwest	S01	36	84.25	8,473,242
Southwest	S02	43	81.25	857,178
Southwest	S03	3	1.75	19,332
Southwest	S04	56	136.5	1,594,457
Southwest	S05	67	232.25	27,046,150
Southwest	S06	47	103.25	9,124,935
Southwest	S07	29	34.25	1,961,340
Southwest	S08	37	43.5	207,515
Southwest	S09	39	63.75	6,473,215
Southwest	S10	59	200.5	2,697,052
Southwest	S11	59	143.25	1,315,597
Southwest	S12A	42	68.75	945,926
Southwest	S13	19	14.25	307,443
Southwest	S14	51	173.75	1,408,975
Southwest	S15	27	26.5	275,234
Southwest	S16	47	95.5	886,239
Southwest	S17	25	23.5	463,783
Southwest	S18	46	103.5	4,817,314
Southwest	S19	29	27	226,527
Southwest	S20	65	214.75	14,343,982
Southwest	S21	30	27.75	146,070

District	Permitted Outfall	Frequency	Duration (hours)	Volume (ft^3)
Southwest	S22	44	88.25	2,245,571
Southwest	S23	49	129.75	1,462,011
Southwest	S24	14	14.75	145,303
Southwest	S25	39	77.5	1,718,026
Southwest	S26	57	166.75	9,640,560
Southwest	S30	7	5	78,654
Southwest	S31	35	54.25	1,120,010
Southwest	S32	9	7.75	123,654
Southwest	S33	48	203	10,050,174
Southwest	S36A	62	184	4,275,428
Southwest	S37	60	138.25	1,727,948
Southwest	S38	16	17	2,584,357
Southwest	S42	43	100	9,010,198
Southwest	S42A	60	243.75	10,928,197
Southwest	S44	28	67	4,000,290
Southwest	S45	21	27.5	9,324,662
Southwest	S46	7	15.5	252,322
Southwest	S50	58	229.75	107,146,725

Table 3 - Overflow Summary for Typical Year Precipitation (based on Year-10 EAP submission)

District	Permitted Outfall	Frequency	SWO Duration (hrs)	Overflow Volume (MG)
Northeast	D_FRW	50	172.5	160
Northeast	D02	14	39	48.6
Northeast	D03	18	38.5	12.4
Northeast	D04	12	27.75	2.8
Northeast	D05	48	212	377.3
Northeast	D06	11	15.75	3
Northeast	D07	51	191.25	133.1
Northeast	D08	8	10.25	1
Northeast	D09	7	5	1.1
Northeast	D11	6	17.75	14.3
Northeast	D12	48	101.75	2.2
Northeast	D13	7	8	1.1
Northeast	D15	14	35	11.3
Northeast	D17	45	156.5	65.4
Northeast	D18	41	108.75	37.4
Northeast	D19	52	207.75	41
Northeast	D20	27	56.75	19.8
Northeast	D21	48	164.5	63.2
Northeast	D22	70	427.75	212.1
Northeast	D23	42	77	2.7
Northeast	D25	62	374.75	858.7
Northeast	F_FRFG	0	0	0
Northeast	F03	12	17.25	5
Northeast	F04	55	192.5	32
Northeast	F05	51	158	4.3
Northeast	F06	18	27.75	4.9
Northeast	F07	38	68.25	12.5
Northeast	F08	33	55.75	9.4
Northeast	F09	61	223.75	9.2
Northeast	F10	15	31.5	6.8
Northeast	F11	60	314.5	81.6
Northeast	F12	24	37	3.3
Northeast	F13	43	100.5	9.2
Northeast	F21	58	429.5	688.5
Northeast	F23	39	119.25	8.2
Northeast	F24	50	109.25	5.1
Northeast	F25	11	21.5	18.4
Northeast	P01	10	13	3.7
Northeast	P02	43	111.5	17.4
Northeast	P03	22	41.5	3.7

District	Permitted Outfall	Frequency	SWO Duration (hrs)	Overflow Volume (MG)
Northeast	P04	10	33.75	13.8
Northeast	P05	19	60.75	31.4
Northeast	T_FRRR	33	169.75	195.9
Northeast	T01	62	330	53.4
Northeast	T03	58	164.5	18.7
Northeast	T04	46	108	8.6
Northeast	T05	42	64.75	6.5
Northeast	T06	23	46	27.2
Northeast	T07	8	6.5	0.8
Northeast	T08	60	219.5	196.9
Northeast	T09	32	39.5	3.6
Northeast	T10	61	245.75	20.8
Northeast	T11	47	81.25	4.2
Northeast	T12	7	4	0.1
Northeast	T13	38	119.5	18.4
Northeast	T14	35	165.75	1091.3
Northeast	T15	48	134	32.2
Southeast	D37	52	291.5	161.2
Southeast	D38	43	177.5	160.2
Southeast	D39	48	238	235.8
Southeast	D40	57	264.75	15.4
Southeast	D41	38	135	14.5
Southeast	D42	15	16.25	1.3
Southeast	D43	19	28.75	1.5
Southeast	D44	20	52	32.7
Southeast	D45	38	134	412.1
Southeast	D46	24	53.75	6.9
Southeast	D47	55	223.75	50.5
Southeast	D48	28	65	72.9
Southeast	D49	7	5	0.4
Southeast	D50	7	6.75	0.8
Southeast	D51	44	148.5	7.2
Southeast	D51A	39	102.5	7.4
Southeast	D52	22	33.5	2.6
Southeast	D53	9	15.75	14.8
Southeast	D54	19	30	63.2
Southeast	D58	19	29.75	6.8
Southeast	D61	37	70.5	5.2
Southeast	D62	19	28.25	1.9
Southeast	D63	22	42.25	61.9
Southeast	D64	34	64.5	3.3
Southeast	D65	31	83.5	75

District	Permitted Outfall	Frequency	SWO Duration (hrs)	Overflow Volume (MG)
Southeast	D66	50	179.5	85.6
Southeast	D67	36	159	45.8
Southeast	D68	40	161.5	167.9
Southeast	D69	23	62	54.2
Southeast	D70	21	52	78.3
Southeast	D71	12	25.75	26.5
Southeast	D72	13	27	32.8
Southeast	D73	47	234.75	189.1
Southwest	C_FRA	11	8	5.9
Southwest	C_FRTR	75	481.75	162.3
Southwest	C01	15	14.75	1.9
Southwest	C02	2	0.75	0.01
Southwest	C04A	17	19.5	3.6
Southwest	C05	1	0.75	0.1
Southwest	C06	41	80.5	19.3
Southwest	C07	20	22	3.6
Southwest	C09	30	54.75	10
Southwest	C10	25	53.25	3.4
Southwest	C11	38	99.5	91
Southwest	C12	32	78	9.7
Southwest	C13	22	46.75	5.6
Southwest	C14	23	55.75	12
Southwest	C15	7	6.75	0.4
Southwest	C16	1	0.25	0.0001
Southwest	C17	44	130	148.8
Southwest	C18	28	37	10.4
Southwest	C19	10	9.5	2.2
Southwest	C20	10	9.75	1.2
Southwest	C21	4	5.25	0.6
Southwest	C22	29	49.75	8.1
Southwest	C23	5	14.5	0.9
Southwest	C25	14	35.25	9
Southwest	C28A	30	41	1.7
Southwest	C29	22	82	11.5
Southwest	C30	18	58.75	3
Southwest	C31	33	67	6.3
Southwest	C32	36	64.5	7.7
Southwest	C33	19	18.5	2.2
Southwest	C34	11	7.5	1.1
Southwest	C35	6	3.5	0.2
Southwest	C36	4	2.5	0.2
Southwest	C37	13	11	0.5

District	Permitted Outfall	Frequency	SWO Duration (hrs)	Overflow Volume (MG)
Southwest	S_FRM	8	14	59.0
Southwest	S01	36	104.5	74.4
Southwest	S02	41	102.5	6.5
Southwest	S03	2	1	0.1
Southwest	S04	56	180.75	12.4
Southwest	S05	72	385	267.8
Southwest	S06	53	145.75	78.2
Southwest	S07	22	40.75	15.9
Southwest	S08	29	48.5	1.4
Southwest	S09	35	75.75	55.6
Southwest	S10	64	303	25.6
Southwest	S11	58	198.5	10.6
Southwest	S12A	43	90.25	7.7
Southwest	S13	16	13.25	2.3
Southwest	S14	51	236.5	12.2
Southwest	S15	21	30	2.1
Southwest	S16	56	137.25	7.3
Southwest	S17	21	32.25	4.3
Southwest	S18	50	153.5	47.7
Southwest	S19	25	29.5	2.1
Southwest	S20	63	313	128.2
Southwest	S21	27	35	1.4
Southwest	S22	46	114	18.7
Southwest	S23	54	196.5	14.8
Southwest	S24	13	22	1.8
Southwest	S25	43	106.5	16.4
Southwest	S26	59	264.75	110.7
Southwest	S30	6	4.5	0.5
Southwest	S31	42	80.75	14.6
Southwest	S32	11	10.5	1
Southwest	S33	53	310.75	96.2
Southwest	S36A	64	288	52.6
Southwest	S37	58	218	21.8
Southwest	S38	21	25.75	19.7
Southwest	S42	50	176	120.6
Southwest	S42A	61	386.75	142.1
Southwest	S44	39	123.5	62.1
Southwest	S45	24	46.5	95
Southwest	S46	13	24.75	8.2
Southwest	S50	62	349.25	1033.6

Table 4 - July 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
7/1/2025	0.89	0.77	2.51	1.54	1.16	1.63	0.83	1.57	1.15	2.62	1.85	1.25	2.22	1.068	0.716	1.22	1.856	1.337
7/2/2025	0.116	0.2	0.08	0.04	0.05	0.08	0.06	0.07	0.13	0.07	0.08	0.03	0.07	0.055	0.019	0.1	0.071	0.084
7/3/2025	0.192	0.18	0	0	0.19	0.18	0	0	0.24	0	0	0.09	0	0.035	0.133	0.16	0.001	0.05
7/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2025	0.008	0.02	0.08	0.06	0	0.03	0.04	0.1	0	0.21	0.26	0	0.29	0.07	0.012	0.02	0.213	0.146
7/8/2025	1.095	0.9	0.83	0.53	1	0.36	0.53	0.69	0.65	1.86	0.64	0.65	0.54	0.562	0.441	0.94	0.626	0.479
7/9/2025	1.125	2	1.5	0.98	0.65	1.82	1.36	1.42	2.24	1.38	1.49	0.32	1.48	1.164	0.494	1.54	1.44	1.162
7/10/2025	0.002	0.01	0	0	0	0	0	0	0.01	0	0	0	0.01	0	0.001	0.01	0.004	0
7/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/13/2025	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0.005	0.001	0	0.004	0.006
7/14/2025	0.169	0.19	1.32	1.18	0.22	0.42	0.35	0.75	0.3	1.44	0.94	0.25	1.05	0.489	0.303	0.28	0.913	0.664
7/15/2025	0.001	0	0	0.01	0	0	0.01	0.01	0	0	0.01	0	0	0.007	0.001	0.01	0.005	0.001
7/16/2025	0.117	0.1	0.02	0.02	0.21	0.03	0.01	0.03	0.04	0.01	0.02	0.26	0.02	0.023	0.042	0.07	0.019	0.02
7/17/2025	0.087	0.08	0.1	0.09	0.08	0.04	0.06	0.03	0.06	0.01	0.03	0.08	0.06	0.055	0.054	0.07	0.051	0.033
7/18/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2025	0.04	0.14	0.22	0.11	0.01	0.16	0.07	0.17	0.13	0.22	0.19	0.06	0.17	0.098	0.09	0.1	0.164	0.148
7/20/2025	0.071	0.38	0	0	0.09	0.22	0	0	0.28	0	0	0.24	0	0.021	0.073	0.28	0.001	0.04
7/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2025	0.206	0.12	0.05	0.02	0.02	0.04	0.01	0.02	0.08	0.18	0.02	0.09	0.01	0.019	0.014	0.07	0.02	0.025
7/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2025	0.514	0.48	0.27	0.38	0.57	0.44	0.14	0.17	0.51	0.07	0.15	0.58	0.1	0.167	0.196	1.15	0.14	0.201
7/28/2025	0.002	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0.002	0	0	0.13
7/29/2025	0	0	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2025	1.137	1.49	0.29	0.4	1.68	0.59	0.51	0.43	0.81	0.2	0.37	0.88	0.3	0.5	0.32	1.38	0.373	0.6

Table 5 - July 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
7/1/2025	1.75	2.37	1.01	1.211	0.93	2.319	0.61	0.54	2.187	2.3	1.602	1.844	2.19	2.235	0.73	1.085	1.04	1.669	1.111
7/2/2025	0.1	0.05	0.08	0.122	0.1	0.066	0.05	0	0.056	0.05	0.093	0.076	0.1	0.067	0.4	0.195	0.11	0.12	0.045
7/3/2025	0	0	0	0.216	0.2	0	0.11	0.14	0	0	0.009	0.001	0	0.003	0.2	0.145	0	0	0.22
7/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2025	0.56	0.42	0.09	0.012	0	0.477	0	0	0.259	0.86	0.304	0.226	0.15	0.468	0.02	0.046	0.12	0.08	0.19
7/8/2025	0.8	0.9	0.58	0.592	1.16	1.521	0.92	0.3	0.898	1.85	0.765	0.788	1.45	1.458	0.86	0.626	0.28	0.28	1
7/9/2025	1.24	1.06	1.03	2.069	0.96	0.965	1.08	0.18	1.12	0.71	1.2	1.394	0.61	0.915	1.34	1.555	1.52	1.24	0.63
7/10/2025	0	0	0	0.007	0	0.004	0.01	0	0	0.01	0	0.001	0	0.004	0	0.002	0	0	0
7/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.006	0	0	0
7/13/2025	0	0	0	0	0	0	0	0	0	0	0.003	0.011	0	0	0	0.001	0	0.01	0
7/14/2025	1.17	1.46	0.68	0.333	0.16	1.224	0.18	0.28	1.31	1.26	0.944	0.944	0.89	1.169	0.2	0.409	0.82	0.71	0.25
7/15/2025	0	0	0	0	0	0	0.03	0	0	0	0	0.006	0	0	0.03	0.009	0	0	0
7/16/2025	0.01	0	0	0.041	0.12	0.009	0.06	0.03	0.01	0.01	0.011	0.019	0	0.009	0.14	0.069	0.01	0.01	0.21
7/17/2025	0.01	0.27	0.01	0.054	0.09	0.056	0.07	0.05	0.21	0.01	0.018	0.031	0	0.05	0.06	0.049	0.02	0.02	0.08
7/18/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/19/2025	0.31	0.086	0.14	0.134	0.02	0.129	0.04	0.09	0.09	0.07	0.212	0.188	0.16	0.125	0.1	0.118	0.1	0.11	0.04
7/20/2025	0	0	0	0.251	0	0.027	0.14	0.04	0	0	0.021	0.006	0.16	0.039	0	0.11	0.02	0	0.11
7/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/25/2025	0.05	0.11	0.03	0.075	0.24	0.097	0.06	0	0.09	0.06	0.04	0.041	0.19	0.08	0.3	0.128	0.04	0.01	0.1
7/26/2025	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/27/2025	0.11	0.29	0.12	0.483	0.52	0.209	0.56	0.01	0.09	0.31	0.18	0.143	0.05	0.33	0.37	0.376	0.21	0.19	0.48
7/28/2025	0	0	0	0	0	0.001	0	0	0	0	0	0.002	0	0.01	0	0.003	0	0	0.1
7/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/2025	0.54	0.47	0.75	0.78	1.06	0.85	1.34	0	0.46	1.01	0.69	0.42	1.1	2.09	0.7	0.839	1.18	0.76	0.99

Table 6 – August 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
8/1/2025	0.002	0.01	0	0	0	0.03	0	0	0.02	0.02	0.01	0	0.01	0	0	0	0.006	0.01
8/2/2025	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0
8/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2025	0.152	0.1	1.41	1.78	0.25	0.18	1.2	1.25	0.17	1.27	1.63	0.2	1.74	0.04	0.42	0.13	1.46	0.97
8/14/2025	0	0	0.01	0	0	0	0.01	0.01	0.01	0.07	0.07	0.01	0.02	0	0.002	0	0.01	0
8/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17/2025	1.496	1.88	1.9	1.34	0.46	0.88	1.13	0.98	0.8	2.48	1.08	0.96	1.53	0.11	0.54	0.26	1.45	0.789
8/18/2025	0.065	0.07	0.08	0.03	0.01	0.04	0.07	0.08	0.04	0.09	0.09	0.01	0.06	0	0.043	0.07	0.09	0.05
8/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2025	0.093	0.16	0.19	0.11	0.11	0.14	0.14	0.13	0.18	0.24	0.14	0.04	0.23	0.12	0.124	0.15	0.14	0.093
8/21/2025	0.06	0.03	0	0	0.06	0.01	0	0	0	0.01	0	0.03	0	0	0.01	0.01	0	0.001
8/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2025	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0.001	0	0	0
8/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 7 - August 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
8/1/2025	0.03	0	0.04	0.02	0	0.013	0	0	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.018	0.04	0.02	0.01
8/2/2025	0	0	0	0	0	0.001	0	0	0	0	0	0.001	0	0	0	0	0	0	0
8/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/13/2025	1.53	1.34	0.64	0.196	0.16	1.225	0.14	0.824	1.09	1.39	0.65	1.434	1.25	0.33	0.21	0.33	0.45	0.85	0.22
8/14/2025	0	0	0	0.007	0	0.001	0	0.007	0.01	0	0	0.037	0	0	0	0.001	0	0	0.01
8/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/16/2025	0	0	0	0	0	0	0	0	0	0.01	0.01	0	0	0.02	0	0	0	0	0
8/17/2025	0.6	2.41	0.5	0.852	1.44	2.229	1.31	0.811	1.69	2.85	0.36	1.225	2.11	1.45	0.83	0.924	0.94	0.79	1.88
8/18/2025	0.05	0.05	0.05	0.042	0.07	0.06	0.01	0.058	0.06	0.06	0.01	0.078	0.06	0	0.05	0.051	0.07	0.04	0.03
8/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20/2025	0.07	0.09	0.06	0.139	0.08	0.165	0.06	0.132	0.1	0.13	0.06	0.145	0.21	0.27	0.16	0.14	0.16	0.07	0.11
8/21/2025	0	0	0	0	0.07	0.001	0.05	0.004	0	0	0	0.001	0	0	0.01	0.006	0	0	0.04
8/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.001	0.01	0	0
8/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2025	0	0	0	0	0	0	0	0.003	0	0	0	0	0	0	0	0	0	0	0
8/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 8 – September 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
9/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2025	0.115	0.58	0.42	0.42	0	0.19	0.422	0.43	0.33	0.39	0.42	0.02	0.44	0.39	0.455	0.69	0.39	0.32
9/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2025	0.109	0.1	0.13	0.17	0.14	0.02	0.1	0.1	0.03	0.07	0.09	0.16	0.13	0.112	0.11	0.12	0.13	0.04
9/7/2025	0.516	0.52	0.6	0.64	0.45	0.5	0.537	0.54	0.5	0.51	0.51	0.46	0.59	0.51	0.556	0.66	0.58	0.41
9/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2025	0.018	0.01	0	0	0	0	0	0.01	0	0	0	0.01	0	0	0.001	0.01	0	0.003
9/17/2025	0.464	0.51	0.38	0.39	1.5	0.32	0.24	0.35	0.39	0.5	0.35	0.81	0.45	0.329	0.425	0.75	0.33	0.315
9/18/2025	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0
9/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2025	0.09	0.09	0.07	0.09	0.11	0.15	0.08	0.07	0.14	0.11	0.07	0.13	0.08	0.075	0.075	0.09	0.06	0.081
9/24/2025	0.241	0.22	0.17	0.19	0.25	0.16	0.18	0.16	0.14	0.13	0.14	0.29	0.16	0.191	0.188	0.3	0.16	0.151
9/25/2025	0.216	0.64	0.54	0.21	0.13	0.22	0.38	0.52	0.36	0.56	0.53	0.16	0.52	0.11	0.451	0.55	0.41	0.403
9/26/2025	0.002	0.01	0	0	0	0	0.01	0	0	0.01	0	0	0.01	0	0	0	0	0.002
9/27/2025	0.156	0.15	0.09	0.06	0.12	0.16	0.11	0.14	0.13	0.12	0.13	0.11	0.1	0.113	0.114	0.13	0.08	0.151
9/28/2025	0.161	0.12	0.19	0.19	0.2	0.1	0.2	0.15	0.08	0.13	0.15	0.16	0.19	0.19	0.152	0.16	0.18	0.098
9/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 9 - September 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
9/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/4/2025	0.39	0.44	0.32	0.35	0.02	0.373	0.09	0.421	0.35	0.34	0.35	0.414	0.42	0.35	0.35	0.327	0.32	0.3	0.02
9/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6/2025	0.02	0.13	0.07	0.02	0.11	0.096	0.09	0.081	0.13	0.12	0.09	0.087	0.03	0.05	0.04	0.039	0.06	0.01	0.19
9/7/2025	0.57	0.58	0.56	0.44	0.52	0.609	0.52	0.521	0.6	0.61	0.59	0.536	0.65	0.72	0.48	0.494	0.57	0.57	0.47
9/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16/2025	0.01	0	0	0	0.02	0	0.02	0	0	0	0	0.003	0	0	0.02	0.005	0	0	0.02
9/17/2025	0.25	0.57	0.3	0.42	0.4	0.33	0.99	0.33	0.54	0.37	0.73	0.364	0.25	0.15	0.45	0.401	0.23	0.25	0.8
9/18/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23/2025	0.07	0.06	0.15	0.11	0.09	0.06	0.08	0.07	0.05	0.07	0.18	0.075	0.08	0.15	0.12	0.116	0.09	0.07	0.1
9/24/2025	0.1	0.14	0.12	0.17	0.24	0.2	0.27	0.17	0.16	0.19	0.13	0.145	0.17	0.19	0.19	0.171	0.15	0.14	0.31
9/25/2025	0.5	0.55	0.14	0.31	0.13	0.53	0.16	0.51	0.39	0.59	0.15	0.491	0.16	0.17	0.44	0.355	0.45	0.35	0.15
9/26/2025	0.01	0	0.01	0	0	0	0	0	0.01	0.01	0	0.003	0	0	0	0.001	0	0	0
9/27/2025	0.17	0.07	0.17	0.15	0.16	0.1	0.11	0.11	0.09	0.09	0.18	0.132	0.17	0.18	0.15	0.155	0.21	0.17	0.15
9/28/2025	0.08	0.18	0.06	0.08	0.17	0.12	0.19	0.14	0.18	0.17	0.05	0.145	0.1	0.11	0.08	0.087	0.06	0.07	0.19
9/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 10 - October 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
10/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2025	0.216	0.1	0.14	0.17	0.14	0.12	0.11	0.12	0.09	0.15	0.14	0.27	0.16	0.121	0.117	0.13	0.13	0.13
10/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2025	0.038	0.03	0.08	0.08	0.05	0.3	0.26	0.09	0.07	0.1	0.14	0.02	0.15	0.06	0.141	0.39	0.19	0.17
10/12/2025	0.011	0.02	0.01	0.01	0.01	0.02	0	0	0.01	0.03	0.01	0	0.01	0	0	0	0.01	0
10/13/2025	0.143	0.14	0.21	0.14	0.08	0.2	0.19	0.167	0.11	0.19	0.15	0.09	0.27	0.03	0.082	0.07	0.11	0.08
10/14/2025	0.015	0.07	0.053	0.06	0.03	0.03	0.14	0.079	0.06	0.03	0.02	0	0.03	0.06	0.017	0.05	0.02	0.01
10/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2025	0.072	0.09	0.047	0.06	0.05	0.1	0.04	0.05	0.09	0.06	0.06	0.05	0.04	0.051	0.063	0.07	0.06	0.07
10/21/2025	0.096	0.08	0.082	0.09	0.08	0.08	0.09	0.09	0.07	0.08	0.09	0.09	0.08	0.1	0.1	0.12	0.1	0.08
10/22/2025	0.031	0.03	0.053	0.1	0.05	0.02	0.05	0.046	0.02	0.05	0.04	0.07	0.05	0.01	0.03	0.03	0.06	0.03
10/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2025	0.161	0.2	0.194	0.19	0.19	0.26	0.19	0.183	0.22	0.18	0.17	0.13	0.2	0.19	0.2	0.22	0.18	0.17
10/30/2025	1.003	1.25	1.447	1.04	0.95	1.72	1.35	1.418	1.48	1.65	1.55	0.83	1.42	1.31	1.165	1.01	1.07	0.97
10/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 11 - October 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
10/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/8/2025	0.12	0.13	0.11	0.1	0.25	0.15	0.1	0.11	0.17	0.2	0.11	0.136	0.15	0.13	0.1	0.109	0.13	0.14	0.35
10/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/11/2025	0.19	0.02	0.14	0.05	0.04	0.05	0.01	0.11	0.06	0.06	0.16	0.132	0.07	0.17	0.06	0.129	0.35	0.21	0.04
10/12/2025	0.01	0.01	0.02	0.02	0.01	0.01	0	0	0.02	0.04	0.04	0.008	0.01	0.03	0.03	0.019	0.02	0	0.03
10/13/2025	0.28	0.09	0.38	0.14	0.15	0.03	0.05	0.08	0.16	0.13	0.17	0.174	0.1	0.17	0.14	0.171	0.35	0.21	0.24
10/14/2025	0.04	0.07	0.06	0.04	0	0	0.03	0	0.04	0.05	0.02	0.028	0.02	0	0.1	0.053	0.04	0.03	0.02
10/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/18/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/2025	0.1	0.08	0.12	0.1	0.07	0.07	0.05	0.06	0.06	0.09	0.19	0.064	0.04	0.16	0.12	0.101	0.13	0.09	0.07
10/21/2025	0.08	0.08	0.09	0.07	0.1	0.06	0.09	0.092	0.08	0.08	0.11	0.087	0.07	0.07	0.07	0.079	0.1	0.08	0.11
10/22/2025	0.03	0.12	0.03	0.02	0.03	0.06	0.03	0.036	0.09	0.09	0.03	0.043	0.04	0.04	0.02	0.024	0.03	0.03	0.05
10/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/29/2025	0.21	0.19	0.23	0.25	0.15	0.15	0.17	0.194	0.2	0.22	0.25	0.183	0.18	0.18	0.24	0.237	0.25	0.25	0.2
10/30/2025	1.3	1.2	1.97	1.87	0.95	1.54	0.71	1.208	1.4	1.48	1.74	1.488	1.65	1.7	1.92	1.745	2.17	1.54	1.02
10/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 12 - November 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
11/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2025	0	0	0	0	0	0.04	0.01	0.04	0.02	0	0.02	0	0.01	0.02	0.004	0.01	0.03	0.01
11/6/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.001	0	0	0
11/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2025	0.094	0.11	0.117	0.06	0.06	0.12	0.09	0.12	0.12	0.13	0.13	0.08	0.12	0.07	0.089	0.1	0.1	0.12
11/9/2025	0.52	0.46	0.299	0.3	0.41	0.47	0.32	0.33	0.45	0.31	0.3	0.51	0.3	0.3	0.373	0.43	0.28	0.34
11/10/2025	0.054	0.08	0.058	0.1	0.02	0.05	0.03	0.04	0.05	0.09	0.06	0.04	0.05	0.049	0.049	0.05	0.05	0.07
11/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2025	0	0	0.012	0.01	0	0	0	0.02	0	0.02	0.01	0	0.01	0	0.001	0	0.01	0
11/19/2025	0.3	0.35	0.295	0.29	0.28	0.28	0.3	0.28	0.27	0.3	0.3	0.24	0.3	0.3	0.3	0.33	0.28	0.28
11/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2025	0.325	0.31	0.288	0.29	0.3	0.28	0.26	0.27	0.27	0.3	0.27	0.3	0.29	0.262	0.285	0.3	0.25	0.24
11/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2025	0.513	0.57	0.726	0.693	0.47	0.73	0.66	0.69	0.79	0.7	0.69	0.4	0.74	0.648	0.599	0.56	0.65	0.71
11/26/2025	0.248	0.21	0.199	0.156	0.26	0.21	0.13	0.16	0.15	0.3	0.19	0.36	0.18	0.12	0.164	0.19	0.14	0.21
11/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2025	0.061	0.07	0.074	0.067	0.06	0.04	0.06	0.07	0.06	0.06	0.07	0.05	0.08	0.062	0.068	0.07	0.07	0.05

Table 13 - November 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
11/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/2/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/5/2025	0.03	0	0.03	0.01	0	0	0	0	0	0.02	0.01	0.021	0.01	0.07	0	0.017	0.05	0.03	0
11/6/2025	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/8/2025	0.15	0.07	0.15	0.14	0.09	0.14	0.07	0.103	0.08	0.1	0.21	0.128	0.17	0.19	0.13	0.132	0.16	0.15	0.09
11/9/2025	0.4	0.25	0.37	0.48	0.54	0.3	0.46	0.352	0.25	0.29	0.46	0.319	0.35	0.39	0.47	0.454	0.41	0.43	0.49
11/10/2025	0.08	0.09	0.05	0.04	0.05	0.07	0.03	0.048	0.07	0.09	0.06	0.06	0.11	0.11	0.03	0.047	0.06	0.05	0.04
11/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/18/2025	0.01	0.005	0	0	0	0	0	0.003	0.01	0	0.03	0.012	0	0	0	0	0	0	0
11/19/2025	0.28	0.287	0.31	0.27	0.29	0.31	0.28	0.296	0.25	0.32	0.3	0.295	0.3	0.3	0.33	0.295	0.29	0.29	0.35
11/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/22/2025	0.25	0.259	0.26	0.27	0.33	0.24	0.3	0.264	0.25	0.26	0.27	0.268	0.25	0.25	0.28	0.274	0.25	0.28	0.37
11/23/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/2025	0.76	0.733	0.73	0.72	0.5	0.73	0.52	0.6	0.69	0.77	0.64	0.696	0.76	0.69	0.68	0.705	0.73	0.78	0.47
11/26/2025	0.19	0.197	0.35	0.17	0.26	0.25	0.16	0.16	0.14	0.24	0.22	0.191	0.26	0.22	0.21	0.204	0.25	0.25	0.33
11/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/29/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/30/2025	0.05	0.061	0.05	0.07	0.06	0.05	0.03	0.07	0.07	0.06	0.05	0.064	0.04	0.04	0.07	0.062	0.06	0.06	0.06

Table 14 – December 2025 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
12/1/2025	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0.01	0.001	0	0	0
12/2/2025	0.916	0.98	1.08	0.968	0.88	0.97	1.01	0.95	0.99	1.01	0.974	0.82	1.03	1.005	1.02	1.03	1	0.78
12/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2025	0.008	0	0.02	0.03	0	0.02	0.01	0.02	0	0.03	0.02	0.01	0.02	0	0.008	0	0.02	0.02
12/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2025	0.055	0.08	0.08	0.05	0.05	0.07	0.06	0.09	0.07	0.1	0.08	0.05	0.09	0.066	0.061	0.06	0.07	0.08
12/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2025	0.002	0.01	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0
12/19/2025	1.446	1.36	1.5	1.13	1.47	1.63	1.6	1.593	1.64	1.73	1.61	1.55	1.53	1.541	1.654	1.74	1.31	1.51
12/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2025	0.052	0.06	0.06	0.05	0.04	0.05	0.06	0.07	0.05	0.06	0.07	0.18	0.08	0.058	0.051	0.05	0.06	0.07
12/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2025	0.04	0.038	0.06	0.04	0.04	0.05	0.04	0	0.04	0.11	0.05	0.03	0.06	0.055	0.04	0.04	0.06	0.06
12/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 15 - December 2025 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
12/1/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.002	0.01	0	0
12/2/2025	0.87	0.951	0.85	0.94	0.9	0.93	0.91	1.04	0.93	0.97	0.84	0.963	0.89	0.88	0.88	0.927	0.9	0.93	0.98
12/3/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/4/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/5/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/2025	0.01	0	0.01	0.01	0.01	0	0	0.01	0.02	0.02	0.02	0.018	0.022	0.01	0	0.007	0.01	0	0.01
12/7/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/9/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/10/2025	0.08	0.085	0.1	0.08	0.05	0.12	0.04	0.06	0.07	0.1	0.09	0.085	0.101	0.16	0.08	0.082	0.12	0.11	0.06
12/11/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/12/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/13/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/14/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/15/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/16/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/17/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/18/2025	0.02	0	0	0	0	0	0	0	0	0	0.01	0.003	0	0.01	0	0	0	0	0
12/19/2025	1.53	1.462	1.72	1.71	1.45	1.45	1.47	1.66	1.37	1.57	1.75	1.602	1.78	1.66	1.52	1.624	1.74	1.72	1.66
12/20/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/21/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/22/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/23/2025	0.09	0	0.08	0.06	0.05	0.04	0.03	0.05	0.03	0.04	0.08	0.068	0.04	0.04	0.07	0.061	0.07	0.08	0.07
12/24/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/25/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/26/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/27/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/28/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/29/2025	0.06	0	0.05	0.04	0.04	0.08	0.03	0.04	0.04	0.06	0.05	0.048	0.07	0.08	0.04	0.044	0.07	0.05	0.05
12/30/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/31/2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 16 - January 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
1/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2026	0.037	0.03	0.04	0.03	0.02	0.04	0.02	0.02	0.03	0.05	0.04	0.04	0.04	0.03	0.028	0.03	0.03	0.03
1/10/2026	0.986	1.3	1.01	1.21	0.92	0.97	1.09	1.044	1.11	0.84	1	0.8	1.05	1.06	1.111	1.3	1	0.88
1/11/2026	0.009	0	0.01	0	0	0.01	0.01	0	0	0.01	0.01	0	0.01	0.01	0.007	0.01	0	0
1/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2026	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.03	0.02	0.02	0.017	0.02	0.02	0.02
1/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 17 - January 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
1/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/9/2026	0.03	0.039	0.03	0.04	0.04	0.04	0.02	0.028	0.04	0.04	0.04	0.034	0.03	0.04	0.03	0.034	0.03	0.03	0.04
1/10/2026	0.84	0.974	0.89	1.1	0.91	0.84	1.05	1.053	1.02	0.92	0.83	0.963	0.86	0.87	1.14	1.055	0.92	0.89	0.97
1/11/2026	0.01	0	0	0	0.01	0	0.01	0.006	0	0	0.01	0.008	0.01	0	0.01	0.004	0.01	0	0.01
1/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/15/2026	0.01	0.011	0.01	0.02	0.02	0.01	0.02	0.017	0.01	0.01	0.02	0.018	0.01	0.01	0.02	0.017	0.02	0.02	0.03
1/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/20/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 18 – February 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
2/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2026	0.022	0.03	0.01	0.01	0.02	0.05	0.02	0.015	0.02	0.01	0.01	0.02	0.02	0	0.019	0.02	0.02	0.03
2/20/2026	0.534	0.6	0.6	0.6	0.55	0.54	0.55	0.554	0.56	0.62	0.57	0.47	0.6	0.49	0.581	0.63	0.52	0.45
2/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 19 - February 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
2/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/11/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/19/2026	0.03	0	0.03	0.04	0.02	0.01	0.03	0.02	0	0	0.02	0.014	0	0	0.04	0.035	0.03	0.02	0.03
2/20/2026	0.51	0.51	0.52	0.55	0.52	0.55	0.54	0.6	0.57	0.55	0.49	0.564	0.57	0.52	0.57	0.554	0.54	0.53	0.58
2/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 20 – March 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
3/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2026	0.272	0.29	0.3	0.3	0.24	0.29	0.28	0.274	0.29	0.3	0.27	0.24	0.29	0.279	0.272	0.3	0.26	0.27
3/4/2026	0.07	0.08	0.04	0.05	0.07	0.06	0.04	0.041	0.07	0.04	0.04	0.07	0.05	0.05	0.06	0.08	0.05	0.06
3/5/2026	0.389	0.42	0.58	0.49	0.4	0.53	0.48	0.497	0.42	0.72	0.51	0.34	0.53	0.486	0.468	0.42	0.48	0.48
3/6/2026	0.051	0.05	0.15	0.14	0.07	0.07	0.11	0.114	0.08	0.14	0.12	0.06	0.14	0.106	0.096	0.08	0.1	0.07
3/7/2026	0.009	0.01	0.01	0.02	0	0.01	0	0.004	0	0.02	0.01	0.01	0.02	0.004	0.007	0	0.01	0.02
3/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2026	0.028	0.06	0.04	0.03	0.03	0.15	0.05	0.068	0.09	0.07	0.09	0.03	0.07	0.057	0.053	0.06	0.06	0.14
3/12/2026	0.226	0.23	0.28	0.26	0.22	0.21	0.2	0.234	0.22	0.29	0.28	0.22	0.26	0.233	0.263	0.27	0.26	0.13
3/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2026	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/16/2026	0.613	0.75	0.63	0.35	0.5	0.76	0.52	0.577	0.9	0.8	0.63	0.49	0.66	0.589	0.737	0.72	0.54	0.7
3/17/2026	0	0	0.01	0.01	0	0	0.01	0.011	0.01	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.01
3/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2026	0.107	0.11	0.14	0.11	0.09	0.08	0.1	0.105	0.1	0.15	0.11	0.11	0.14	0.103	0.1	0.095	0.1	0.09
3/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2026	0.157	0.16	0.22	0.22	0.11	0.29	0.18	0.192	0.21	0.25	0.21	0.08	0.2	0.209	0.327	1.391	0.18	0.21
3/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2026	0	0	0.01	0	0	0	0	0.004	0	0.02	0.01	0	0.01	0.002	0	0	0	0.01
3/27/2026	0.183	0.19	0.16	0.19	0.17	0.22	0.15	0.162	0.2	0.17	0.17	0.16	0.17	0.168	0.197	0.23	0.17	0.15
3/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 21 - March 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
3/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/3/2026	0.26	0.17	0.26	0.27	0.27	0.33	0.26	0.27	0.27	0.32	0.26	0.274	0.28	0.33	0.28	0.277	0.27	0.28	0.27
3/4/2026	0.03	0.01	0.02	0.09	0.07	0.01	0.06	0.06	0.03	0.01	0.02	0.038	0.01	0.02	0.08	0.07	0.05	0.05	0.07
3/5/2026	0.78	0.41	0.84	0.41	0.38	0.77	0.41	0.48	0.53	0.65	0.76	0.573	0.79	0.83	0.39	0.47	0.65	0.58	0.43
3/6/2026	0.1	0.12	0.08	0.06	0.05	0.17	0.07	0.1	0.16	0.18	0.13	0.122	0.16	0.13	0.05	0.065	0.08	0.08	0.06
3/7/2026	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.006	0	0	0.01
3/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/11/2026	0.1	0.01	0.04	0.08	0.02	0.06	0.04	0.05	0.03	0.03	0.02	0.077	0.03	0.01	0.05	0.08	0.07	0.15	0.02
3/12/2026	0.23	0.08	0.18	0.17	0.23	0.25	0.19	0.28	0.22	0.23	0.22	0.26	0.22	0.23	0.22	0.2	0.18	0.19	0.23
3/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/14/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
3/16/2026	0.92	0.18	1	0.62	0.59	0.66	0.51	0.79	0.42	0.55	0.97	0.686	0.86	1.02	0.65	0.738	1.02	0.83	0.65
3/17/2026	0.01	0.01	0.01	0	0	0.03	0	0.01	0.01	0	0	0.012	0.02	0.02	0	0.003	0.01	0	0
3/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/20/2026	0.09	0.05	0.09	0.12	0.106	0.11	0.1	0.1	0.1	0.082	0.14	0.117	0.11	0.15	0.11	0.105	0.08	0.1	0.11
3/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/22/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/23/2026	0.19	0.1	0.26	0.2	0.157	0.24	0.09	0.18	0.18	0.166	0.22	0.212	0.27	0.34	0.19	0.223	0.23	0.2	0.13
3/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2026	0.01	0	0.01	0	0	0.03	0	0	0.01	0.012	0.03	0.011	0.02	0.05	0	0.003	0.02	0.01	0
3/27/2026	0.18	0.07	0.17	0.22	0.176	0.14	0.16	0.2	0.13	0.109	0.17	0.168	0.15	0.14	0.19	0.202	0.2	0.19	0.17
3/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 22 - April 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
4/1/2026	0.409	0.41	0.13	0.24	0.37	0.22	0.23	0.195	0.25	0.07	0.15	0.34	0.16	0.228	0.281	0.37	0.22	0.18
4/2/2026	0.175	0.17	0.27	0.22	0.15	0.37	0.27	0.256	0.39	0.31	0.24	0.1	0.29	0.273	0.351	0.53	0.24	0.2
4/3/2026	0.007	0.01	0.02	0.01	0.01	0.01	0.01	0.009	0.01	0.02	0.01	0	0.02	0.008	0.007	0	0.01	0.01
4/4/2026	0	0	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0	0
4/5/2026	0.254	0.24	0.25	0.24	0.29	0.35	0.21	0.232	0.27	0.31	0.25	0.36	0.25	0.248	0.285	0.34	0.25	0.26
4/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2026	0.154	0.08	0	0	0.05	0.05	0.01	0.009	0.03	0.01	0.01	0.11	0	0	0.031	0.05	0.01	0.02
4/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2026	0.029	0.06	0.09	0.09	0.02	0.09	0.04	0.058	0.06	0.12	0.08	0.02	0.08	0.052	0.058	0.07	0.07	0.08
4/20/2026	0.003	0.01	0.01	0.01	0	0.01	0	0	0	0	0	0.02	0	0	0.001	0.01	0	0.02
4/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2026	0.101	0.11	0.17	0.16	0.09	0.15	0.15	0.156	0.15	0.12	0.14	0.08	0.17	0.233	0.577	0.17	0.14	0.16
4/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2026	0.451	0.55	0.77	0.81	0.45	0.71	0.78	0.784	0.66	0.77	0.79	0.38	0.84	0.663	0.695	0.57	0.72	0.73
4/26/2026	0.051	0.06	0.05	0.07	0.07	0.04	0.06	0.058	0.05	0.05	0.06	0.03	0.05	0.06	0.073	0.07	0.06	0.03
4/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2026	0.465	0.47	0.38	0.44	0.5	0.43	0.51	0.454	0.43	0.35	0.38	0.48	0.4	0.488	0.514	0.57	0.5	0.47
4/30/2026	0.027	0.09	0.05	0.14	0.05	0.06	0.01	0.025	0.097	0.05	0.04	0.1	0.04	0.017	0.062	0.09	0.03	0.01

Table 23 – April 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
4/1/2026	0.12	0.04	0.07	0.27	0.402	0.04	0.46	0.27	0.1	0.054	0.05	0.14	0.03	0.03	0.33	0.26	0.16	0.17	0.42
4/2/2026	0.32	0.19	0.29	0.41	0.177	0.27	0.14	0.35	0.25	0.223	0.24	0.261	0.27	0.17	0.29	0.32	0.2	0.19	0.16
4/3/2026	0.01	0.01	0.01	0	0.006	0.02	0	0.01	0.01	0.013	0.01	0.01	0.01	0.02	0.01	0.006	0.01	0	0.01
4/4/2026	0	0	0	0	0	0.07	0	0	0	0.023	0	0.008	0.07	0.02	0	0	0	0	0
4/5/2026	0.34	0.11	0.3	0.32	0.288	0.36	0.22	0.28	0.2	0.211	0.34	0.269	0.31	0.34	0.23	0.295	0.32	0.36	0.37
4/6/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14/2026	0.01	0	0.03	0.04	0.18	0.01	0.05	0.03	0	0.003	0.01	0.009	0	0	0.08	0.054	0.06	0.04	0.18
4/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/19/2026	0.09	0.01	0.09	0.06	0.02	0.04	0.02	0.061	0.05	0.032	0.09	0.084	0.12	0.07	0.07	0.07	0.11	0.1	0.04
4/20/2026	0	0	0.01	0	0	0	0.02	0	0.01	0.001	0.01	0	0	0	0.01	0.005	0.01	0	0.01
4/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22/2026	0.15	0.05	0.13	0.17	0.04	0.1	1.07	0.73	0.11	0.08	0.13	0.146	0.1	0.108	0.11	0.154	0.14	0.15	0.06
4/23/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/25/2026	0.84	0.48	0.83	0.63	0.43	0.77	0.4	0.73	0.68	0.619	0.8	0.788	0.77	0.751	0.54	0.636	0.71	0.77	0.46
4/26/2026	0.05	0.01	0.04	0.06	0.05	0.02	0.06	0.08	0.06	0.022	0.02	0.053	0.02	0.027	0.05	0.049	0.04	0.03	0.06
4/27/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/29/2026	0.37	0.21	0.39	0.41	0.46	0.35	0.48	0.51	0.37	0.285	0.38	0.392	0.37	0.356	0.35	0.402	0.33	0.44	0.5
4/30/2026	0.04	0.03	0.02	0.07	0.01	0.06	0.06	0.07	0.04	0.041	0.03	0.039	0.05	0.055	0.08	0.063	0.01	0.03	0.04

Table 24 – May 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
5/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2026	0	0	0	0	0	0	0	0.001	0	0	0	0	0	0.07	0.006	0	0	0
5/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2026	0.036	0.06	0.21	0.12	0.03	0.1	0.08	0.112	0.08	0.16	0.15	0.03	0.17	0.1	0.062	0.06	0.15	0.12
5/7/2026	0.155	0.19	0.13	0.29	0.17	0.15	0.16	0.143	0.2	0.13	0.12	0.06	0.14	0.163	0.195	0.18	0.16	0.1
5/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2026	0.007	0	0	0	0	0	0	0	0	0.02	0	0.02	0	0	0	0	0	0
5/10/2026	0.116	0.26	0.15	0.24	0.11	0.21	0.25	0.238	0.11	0.4	0.23	0.1	0.22	0.219	0.109	0.18	0.27	0.15
5/11/2026	0.01	0.01	0.01	0.02	0.02	0	0	0	0	0	0	0	0	0.001	0.003	0.02	0	0
5/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2026	0.148	0.12	0.03	0.03	0.1	0.11	0.07	0.073	0.09	0.05	0.08	0.1	0.04	0.066	0.083	0.1	0.04	0.1
5/14/2026	0.051	0.05	0.06	0.07	0.05	0.04	0.06	0.055	0.05	0.07	0.05	0.06	0.06	0.059	0.057	0.05	0.06	0.04
5/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2026	0.034	0.02	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0
5/20/2026	0.35	0.52	0.29	0.22	0.31	0.36	0.3	0.298	0.34	0.99	0.26	0.39	0.26	0.39	0.44	0.59	0.28	0.3
5/21/2026	0.34	0.37	0.33	0.35	0.4	0.38	0.32	0.305	0.41	0.26	0.29	0.27	0.3	0.34	0.421	0.39	0.3	0.28
5/22/2026	0.014	0.03	0.01	0.01	0.02	0.02	0.03	0.028	0.01	0.01	0.03	0.02	0.03	0.02	0.019	0.02	0.03	0.03
5/23/2026	0.612	0.69	0.56	0.55	0.63	0.7	0.56	0.551	0.62	0.66	0.54	0.41	0.59	0.51	0.564	0.66	0.47	0.51
5/24/2026	0.735	0.92	1.07	0.99	0.78	1.12	1.08	1.035	0.96	1.07	0.99	0.61	1.08	0.91	0.98	1.05	0.91	0.93
5/25/2026	0.042	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.05	0.04	0.039	0.04	0.04	0.03
5/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2026	0.22	0.2	0.1	0.15	0.2	0.15	0.23	0.192	0.14	0.09	0.16	0.24	0.22	0.15	0.183	0.15	0.14	0.21
5/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 25 - May 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
5/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/6/2026	0.15	0.11	0.16	0.09	0.03	0.09	0.02	0.06	0.18	0.05	0.19	0.149	0.16	0.104	0.03	0.088	0.17	0.18	0.03
5/7/2026	0.13	0.13	0.16	0.2	0.15	0.14	0.17	0.21	0.18	0.12	0.18	0.129	0.13	0.135	0.07	0.153	0.16	0.11	0.08
5/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/9/2026	0	0.02	0	0	0.01	0.08	0	0	0	0.05	0.05	0.005	0.04	0.054	0	0	0	0	0.01
5/10/2026	0.29	0.1	0.51	0.12	0.08	0.23	0.21	0.08	0.18	0.19	0.19	0.252	0.3	0.229	0.19	0.187	0.31	0.19	0.08
5/11/2026	0	0	0	0	0.01	0.01	0.02	0	0	0	0	0.001	0.01	0.006	0.02	0.004	0	0	0.01
5/12/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/13/2026	0.08	0.02	0.1	0.11	0.16	0.01	0.1	0.08	0.03	0.02	0.08	0.069	0.05	0.024	0.116	0.103	0.09	0.09	0.11
5/14/2026	0.05	0.05	0.03	0.06	0.05	0.05	0.05	0.06	0.07	0.05	0.04	0.054	0.05	0.052	0.053	0.048	0.04	0.04	0.06
5/15/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/19/2026	0	0	0	0	0.04	0	0.01	0	0	0	0	0	0	0.01	0	0.001	0	0	0.02
5/20/2026	0.65	0.19	0.77	0.31	0.3	0.94	0.56	0.44	0.23	0.56	0.4	0.44	1.5	0.16	0.26	0.387	0.61	0.73	0.41
5/21/2026	0.25	0.3	0.22	0.48	0.34	0.26	0.33	0.46	0.3	0.3	0.2	0.278	0.21	0.12	0.12	0.33	0.29	0.32	0.32
5/22/2026	0.05	0	0.04	0.01	0.01	0	0.02	0.02	0	0	0.01	0.028	0	0	0	0.016	0.04	0.03	0.02
5/23/2026	0.62	0.51	0.62	0.68	0.6	0.52	0.51	0.56	0.48	0.48	0.68	0.57	0.62	0.53	0.34	0.588	0.67	0.64	0.7
5/24/2026	1.11	1.14	1.19	0.98	0.69	1.14	0.73	0.98	1.07	1.11	1.44	1.039	1.32	1.4	0.908	1.011	1.22	1.18	0.83
5/25/2026	0.04	0.02	0.04	0.04	0.04	0.05	0.04	0.04	0.03	0.05	0.04	0.036	0.05	0.06	0.044	0.038	0.04	0.03	0.04
5/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/27/2026	0.16	0.1	0.13	0.12	0.23	0.166	0.18	0.19	0.08	0.158	0.14	0.155	0.13	0.152	0.178	0.143	0.12	0.18	0.22
5/28/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/29/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/31/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 26 - June 2026 PWD Rain Gage Records

Date/RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18
6/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2026	0.024	0.04	0.06	0.05	0.02	0.08	0.08	0.078	0.04	0.12	0.07	0.01	0.07	0.05	0.062	0.13	0.08	0.07
6/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2026	0.3	0.3	0.1	0.1	0.36	0.34	0.32	0.258	0.56	0.13	0.18	0.23	0.14	0.47	0.333	0.45	0.22	0.24
6/11/2026	0.07	0.07	0.03	0.02	0.23	0.01	0.09	0.078	0.04	0.15	0.04	0.32	0.02	0.28	0.346	0.37	0.04	0.13
6/12/2026	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0	0.001	0	0	0.02
6/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2026	1.25	2.07	1.44	0.84	0.87	2.1	1.34	1.429	2.15	1.84	1.53	1.07	1.63	0.96	1.354	1.55	1.25	1.82
6/15/2026	0	0	0.09	0.08	0.03	0.01	0.04	0.053	0.01	0.03	0.07	0.01	0.08	0.03	0.021	0	0.09	0.04
6/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/22/2026	1.185	0.87	1.23	0.96	1.11	0.69	1.32	1.34	0.89	1.51	1.378	1.01	1.2	1.08	1.221	0.78	1.62	0.95
6/23/2026	0.198	0.2	0.18	0.21	0.15	0.19	0.17	0.168	0.19	0.21	0.177	0.17	0.19	0.14	0.177	0.18	0.16	0.15
6/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2026	0.299	0.47	0.11	0.24	0.29	0.14	0.22	0.164	0.16	0.08	0.09	0.23	0.11	0.18	0.235	0.4	0.25	0.13
6/28/2026	0.065	0.09	0.28	0.27	0.86	0.87	0.64	0.739	0.8	0.86	0.82	0.83	0.97	0.67	0.588	0.75	1.06	1.016
6/29/2026	0	0	0	0	0	0	0.01	0.009	0.01	0.01	0.01	0	0	0	0	0	0.01	0
6/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 27 - June 2026 PWD Rain Gage Records

Date/RG	RG19	RG20	RG21	RG22	RG23	RG24	RG25	RG26	RG27	RG28	RG29	RG30	RG31	RG32	RG33	RG34	RG35	RG36	RG37
6/1/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/2/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/3/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/4/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/5/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/2026	0.19	0.07	0.27	0.03	0.02	0.14	0.03	0.05	0.06	0.11	0.25	0.099	0.24	0.2	0.043	0.079	0.2	0.14	0.02
6/7/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/8/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/9/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/10/2026	0.33	0.04	0.49	0.53	0.3	0.29	0.32	0.3	0.1	0.28	0.23	0.204	0.31	0.19	0.07	0.364	0.46	0.31	0.23
6/11/2026	0.44	0	0.5	0.02	0.07	0.02	0.01	0.4	0.01	0	0.32	0.103	0.13	0	0	0.063	0.14	0.07	0.13
6/12/2026	0	0.12	0	0	0	0.03	0	0	0	0.2	0	0.002	0	0	0	0	0	0	0
6/13/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/14/2026	1.77	1.38	2.15	2.17	1.09	1.88	1.17	1.37	1.23	1.26	1.51	1.583	1.74	1.27	0.91	1.787	1.91	2.13	0.89
6/15/2026	0.01	0.09	0	0.01	0	0.05	0.01	0.02	0.12	0.05	0.02	0.055	0.01	0.09	0.01	0.011	0.01	0.02	0
6/16/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/17/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/18/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/19/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/20/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/21/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/22/2026	2.4	0.9	1.92	0.79	1.29	1.04	1.04	1.32	0.98	0.69	1.14	1.52	1.4	0.51	0.67	1.014	2.36	1.51	0.54
6/23/2026	0.18	0.09	0.2	0.18	0.2	0.19	0.17	0.18	0.15	0.17	0.19	0.187	0.19	0.12	0.21	0.191	0.24	0.17	0.21
6/24/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/25/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/26/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/27/2026	0.07	0.12	0.05	0.14	0.27	0.07	0.29	0.22	0.15	0.03	0.05	0.102	0.05	0.03	0.29	0.191	0.14	0.08	0.26
6/28/2026	1.39	0.09	1.09	0.69	0.01	0.12	0.46	0.52	0.49	0.23	1.47	0.879	0.94	0.11	0.333	0.789	1.15	1.22	0.25
6/29/2026	0	0	0.01	0	0	0	0	0	0.01	0	0.01	0.006	0	0.01	0.001	0.002	0.01	0	0.01
6/30/2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 28 - Rain Gage records by year and month for FY26

Date/ RG	RG1	RG2	RG3	RG4	RG5	RG6	RG7	RG8	RG9	RG10	RG11	RG12	RG13	RG14	RG15	RG16	RG17	RG18	
Jul25	5.772	7.06	7.27	5.43	5.93	6.04	3.98	5.51	6.63	8.27	6.05	4.78	6.32	4.338	2.912	7.4	5.901	5.126	
Aug25	1.868	2.25	3.59	3.26	0.89	1.28	2.56	2.45	1.22	4.19	3.02	1.25	3.59	0.27	1.14	0.62	3.156	1.913	
Sep25	2.088	2.95	2.6	2.36	2.9	1.82	2.259	2.47	2.1	2.53	2.39	2.31	2.67	2.02	2.527	3.46	2.33	1.974	
Oct25	1.786	2.01	2.316	1.94	1.63	2.85	2.42	2.243	2.22	2.52	2.37	1.55	2.41	1.932	1.915	2.09	1.93	1.71	
Nov25	2.115	2.16	2.068	1.966	1.86	2.22	1.86	2.02	2.18	2.21	2.04	1.98	2.08	1.841	1.933	2.04	1.86	2.03	
Dec25	2.519	2.528	2.8	2.268	2.48	2.8	2.78	2.723	2.79	3.05	2.804	2.64	2.81	2.735	2.835	2.92	2.52	2.52	
Jan26	1.052	1.35	1.08	1.26	0.96	1.04	1.13	1.084	1.15	0.92	1.07	0.87	1.12	1.12	1.163	1.36	1.05	0.93	
Feb26	0.556	0.63	0.61	0.61	0.57	0.59	0.57	0.569	0.58	0.63	0.58	0.49	0.62	0.49	0.6	0.65	0.54	0.48	
Mar26	2.105	2.35	2.57	2.18	1.9	2.67	2.12	2.283	2.59	2.99	2.46	1.82	2.56	2.306	2.59	3.656	2.23	2.34	
Apr26	2.126	2.26	2.19	2.43	2.05	2.49	2.28	2.236	2.397	2.23	2.15	2.02	2.3	2.27	2.935	2.84	2.25	2.17	
May26	2.87	3.49	2.99	3.08	2.86	3.37	3.17	3.061	3.05	3.95	2.93	2.35	3.16	3.038	3.161	3.49	2.85	2.8	
Jun26	3.391	4.11	3.52	2.77	3.92	4.43	4.25	4.326	4.85	4.94	4.365	3.88	4.41	3.86	4.338	4.61	4.78	4.566	
Total	**28.248**	**33.148**	**33.604**	**29.554**	**27.95**	**31.6**	**29.379**	**30.975**	**31.757**	**38.43**	**32.229**	**25.94**	**34.05**	**26.22**	**28.049**	**35.136**	**31.397**	**28.559**	
Date/ RG	**RG19**	**RG20**	**RG21**	**RG22**	**RG23**	**RG24**	**RG25**	**RG26**	**RG27**	**RG28**	**RG29**	**RG30**	**RG31**	**RG32**	**RG33**	**RG34**	**RG35**	**RG36**	**RG37**
Jul25	6.65	7.486	4.53	6.38	5.56	7.954	5.26	1.66	6.78	8.51	6.092	6.141	7.05	9.052	5.47	5.771	5.47	5.209	5.556
Aug25	2.28	3.89	1.29	1.256	1.82	3.695	1.57	1.839	2.96	4.46	1.11	2.931	3.65	2.08	1.27	1.471	1.67	1.77	2.3
Sep25	2.17	2.72	1.9	2.05	1.86	2.418	2.52	2.353	2.5	2.56	2.45	2.395	2.03	2.07	2.32	2.151	2.14	1.93	2.4
Oct25	2.36	1.99	3.15	2.66	1.75	2.12	1.24	1.89	2.28	2.44	2.82	2.343	2.33	2.65	2.8	2.667	3.57	2.58	2.13
Nov25	2.2	1.962	2.3	2.17	2.12	2.09	1.85	1.896	1.81	2.15	2.25	2.054	2.25	2.26	2.2	2.19	2.26	2.32	2.2
Dec25	2.66	2.498	2.81	2.84	2.5	2.62	2.48	2.86	2.46	2.76	2.84	2.787	2.903	2.85	2.59	2.747	2.92	2.89	2.83
Jan26	0.89	1.024	0.93	1.16	0.98	0.89	1.1	1.104	1.07	0.97	0.9	1.023	0.91	0.92	1.2	1.11	0.98	0.94	1.05
Feb26	0.54	0.51	0.55	0.59	0.54	0.56	0.57	0.62	0.57	0.55	0.51	0.578	0.57	0.52	0.61	0.589	0.57	0.55	0.61
Mar26	2.9	1.22	2.97	2.25	2.059	2.81	1.89	2.53	2.1	2.349	2.96	2.56	2.93	3.28	2.22	2.442	2.86	2.66	2.16
Apr26	2.34	1.14	2.21	2.44	2.063	2.11	2.98	3.121	1.88	1.607	2.11	2.199	2.12	1.947	2.15	2.314	2.1	2.28	2.31
May26	3.58	2.69	3.97	3.2	2.74	3.686	2.95	3.18	2.83	3.138	3.64	3.205	4.57	3.036	2.329	3.097	3.76	3.72	2.94
Jun26	6.78	2.9	6.68	4.56	3.25	3.83	3.5	4.38	3.3	3.02	5.19	4.74	5.01	2.53	2.537	4.491	6.62	5.65	2.54
Total	**35.35**	**30.03**	**33.29**	**31.556**	**27.242**	**34.783**	**27.91**	**27.433**	**30.54**	**34.514**	**32.872**	**32.956**	**36.323**	**33.195**	**27.696**	**31.04**	**34.92**	**32.499**	**29.026**

Table 29 - SSO Statistics for Period July 1 2025 – June 30 2026

Main & Shurs					
Event No.	**Start of Overflow Date Time**	**End of Overflow Date Time**	**Event Duration (hours:mins)**	**Flow Volume (ft^3)**	**Flow Volume (Millions of gallons)**
0			0	0	0

PC-30					
Event No.	**Start of Overflow Date**	**End of Overflow Date**	**Event Duration (hours:mins)**	**Flow Volume (ft^3)**	**Flow Volume (Millions of gallons)**
0			**0**	**0**	**0**

Appendix E – PCB PMP 19th Annual Report

PHILADELPHIA
WATER
--DEPARTMENT--

Industrial Waste – Backflow Compliance Unit
1101 Market Street, 6th Fl.
Philadelphia, Pennsylvania 19107-2994

Benjamin C. Jewell
Commissioner

February 27, 2026

Thomas Amidon
Delaware River Basin Commission
25 State Police Drive
West Trenton, NJ 08628

Re: PWD PCB PMP Annual Report

Dear Mr. Amidon:

Enclosed you will find PWD's Nineteenth Annual PCB Pollutant Minimization Report for calendar year 2025. Please feel free to contact me at 215-685-6085 if there are any questions relating to this report.

Sincerely,

Jennifer L. Moore
Chief Engineer
Industrial Waste & Backflow Compliance
Philadelphia Water Department

cc: Pravin Patel, P.E., Pennsylvania Department of Environmental Protection

PHILADELPHIA WATER DEPARTMENT

PCB

Pollutant Minimization Plan

Nineteenth Annual Report
Calendar Year 2025

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1 PMP Achievement Executive Summary

The Philadelphia Water Department (PWD) submitted its PCB Pollutant Minimization Plan (PCB PMP) on September 30, 2005, and was issued a Completeness Determination letter on January 12, 2006. PWD initiated the actions called for in its PCB PMP on March 4, 2006.

PWD's PCB PMP set out the following approaches to achieving PCB minimization:

- Sample three Water Pollution Control Plants' effluent every two years and analyze using Method 1668A.
- Visit and inspect three hundred ninety-nine (399) sites listed by either EPA or other agencies as housing PCB-containing devices and report the number of devices that have been removed from each site, both prior to PWD's inspection and subsequent to it.
- Visit and inspect thirty-one (31) sites listed by the Philadelphia Department of Public Health as having previously undergone some type of PCB remediation activity and report the number of sites removed from the list as posing no threat of PCB discharge to PWD's sewer system.
- Report any reductions in PCB concentrations in the wastestreams from our three Water Treatment Plants by measuring PCBs in the ferric chloride used in the treatment process as well as reductions of PCBs in the source water (Delaware River or Schuylkill River).
- Continue the sewershed PCB trackdown sampling program for each of our three Water Pollution Control Plants.

Revisions to the original PMP have been made over the years. Refer to the First through the Eighteenth Annual Reports for specific information on PMP efforts during Years 1 - 18. No changes to the PMP were made in Year 19 (2025). Year 19 efforts are detailed in the attached report.

During the nineteenth year of PWD's PCB PMP, the following tasks were performed:

- Wet-weather PCB sampling and analysis of the three Water Pollution Control Plants' (WPCPs') effluent was performed as required by PWD's NPDES permits. See Section 7, "Tabular Summary", for data.

- PWD inspected hundred thirty-seven (137) of the three hundred thirty-seven (337) sites remaining on the list by EPA or other agencies as housing PCB-containing devices. This exceeds the goal of 70 site inspections per year. Additionally, PWD's inspections yielded 25 new locations with devices. These inspections also identified locations where a total of 19 devices had been removed from 7 locations. Historical information for these sites with removed devices will be retained, but these locations will be eliminated from the schedule for future inspections.

- PWD wet weather and dry weather WPCP effluent data have been entered into the DRBC PCB database.

- Significant reductions in WPCP effluent PCB loadings were seen over the course of the PMP (see "Tabular Summary"). The NEWPCP sample from September 2025 shows the highest overall reduction of 91.7% since the 2005 baseline PCB loading levels. The reduction percentage from the March sample is comparable to those calculated in 2011 and 2019, but notably higher than the 13.0% reduction calculated in March 2024 (Year 18). The SEWPCP also exceeds a 90% reduction in 2025 for both samples. In contrast, the SWWPCP's 56.6% - 60.5% reduction percentages have remained consistent with those seen in years 2011, 2015 and 2021.

Additionally, the following initiatives were undertaken:

- PWD's PCB database was developed in 2017 and is now being populated. The database was utilized to track and report the 2025 inspections. Currently, the database allows PWD to track "active" sites (where Liquid Cooled Electrical Equipment (LCEE) devices are still located on site) versus "inactive" sites (where LCEE devices were previously located but have been removed). Each location has been given a unique ID and has been geocoded in PWD's GIS database.

- In 2025, PWD continued to monitor outlying township connection points for PCBs using EPA Method 680. Nine (9) township connections in Lower Merion Township were sampled, and the results were all below the detection limits.

- In 2025, PWD continued to require monitoring for PCBs in the groundwater applications and the monthly reporting requirements for all active groundwater permittees. PWD received eleven (11) groundwater applications, and all PCBs results were below the detection limits. One permittee located in the outlying township reported a detection of Arochlor-1260 in January 2025, but an additional sample later that month yielded a non-detection result.

2 *Facility and Contact Information*

Facility Name and Address:	Philadelphia Water Department 1101 Market Street Philadelphia, PA 19107
Water Pollution Control Plants:	Northeast WPCP 3899 Richmond St. Philadelphia, PA 19137 Southeast WPCP 25 Pattison Ave. Philadelphia, PA 19148 Southwest WPCP 8200 Enterprise Ave. Philadelphia, PA 19153
Contact Person:	Jennifer L. Moore Manager Industrial Waste & Backflow Compliance 1101 Market St., 6th Floor Philadelphia, PA 19107 Phone: 215-685-6085 Fax: 215-685-6232 Email: jennifer.l.moore@phila.gov
Date of Submittal of PMP:	September 30, 2005
Date of Completeness Determination:	January 12, 2006
Date of Initiation of PMP:	March 4, 2006
Reporting Period:	Year 19 (Calendar Year 2025)

3 Revisions to PMP

During Year 19, no revisions were made to the PMP.

4 Material and Process Modifications

During Year 19 of the PMP, there were no material or process modifications made relevant to PCB minimization.

5 Measures to Address Known, Probable and Potential Sources

Known and Probable Sources

Two known sources of PCBs were identified in PWD's PCB PMP. These were the source water for PWD's Water Treatment Plants (Delaware and Schuylkill Rivers), and the ferric chloride supplied to PWD by DuPont and used in the water treatment process. A change of ferric chloride supplier in Year 5 resulted in a 95% reduction in PCB content of the product used by PWD in its water treatment process.

A probable source of PCBs identified in PWD's PCB PMP is sludge stored in lagoons at both NEWPCP and SWWPCP. Trackdown efforts conducted in the sewersheds of both NEWPCP and SWWPCP included sampling of the lagoons. The data is available in Attachment B of the Year 5 report.

Potential Sources

Historical Potential Sources:

Numerous potential sources of PCBs were identified in PWD's PCB PMP. These were identified from databases supplied by EPA, the Philadelphia Fire Department, the Philadelphia Department of Public Health, and others. The thirty-one (31) potential sources supplied by the Philadelphia Department of Public Health were identified as sites at which some form of prior PCB remediation had taken place. All thirty-one (31) of these sites were inspected during Year 1 of the PMP.

The remaining potential sources of PCBs, taken from information supplied by EPA and others, were identified as sites on which PCB devices were believed to be present. These sites were separated into three groups by sewershed (NEWPCP, SEWPCP or SWWPCP). Approximately one hundred sixty-seven (167), seventy-three (73) and one hundred fifty-seven (157) sites were listed for NEWPCP, SEWPCP and SWWPCP, respectively. During 2025 (Year 19 of the PMP), PWD's Industrial Waste group inspected forty-eight (48) of the NEWPCP-related sites, twenty-three (23) of the SEWPCP-related sites and sixty-six (66) of the SWWPCP-related sites.

Details of these inspections are summarized in the Tables, "Inspections of Potential Source Sites" in Attachment B of this report.

In 2025, PWD inspections identified 25 new locations with devices, and confirmed 19 devices have been removed from 7 locations. Historical information for these sites will be retained, but the sites will be removed from the schedule for future inspection.

New Construction and Groundwater Remediation Sites:

In an effort to minimize the volume of PCBs entering the City's sewer system, PWD requires PCB monitoring in all Groundwater Discharge Permits. These permits are used to regulate specific pollutants of concern from groundwater discharges to the City's sewer system. Generally, these permits are for remediation sites with groundwater contaminated with petroleum products, such as former gasoline stations. However, all temporary discharges from construction activities are permitted under the Groundwater Discharge Permit Program. The Groundwater Discharge Permits require all contractors and/or subcontractors to monitor their initial discharges during the application process and monthly for PCBs via sampling and to report their activities and results. All Groundwater Discharge Permits include PWD's regulatory PCB limit of "non-detectable by EPA Method 608" limitation. All PCB detections require additional monitoring by the contractor or subcontractor to show compliance with the permit limitation.

- PWD continued to require monitoring for PCBs in the groundwater applications and the monthly reporting requirements for all active groundwater permittees. During the year 2025, PWD received eleven (11) groundwater applications, and all PCBs results were below the detection limits. In January 2025, a permittee located in an outlying township reported a detection of Arochlor-1260 at a concentration of 0.16 µg/L from a sample collected on January 8, 2025. The permittee conducted a resampling on January 29, 2025, and found that all polychlorinated biphenyls (PCBs) were not detected.

Township Connections

PWD has agreements with the surrounding townships to convey and treat township wastewater, which is ultimately discharged at NEWPCP, SEWPCP and SWWPCP. Part of the agreement includes sampling the respective township's wastewater at the connection to the City's sewer system (i.e., near Philadelphia border).

In 2025, PWD sampled nine (9) township connections in Lower Merion Township. The township samples were analyzed using EPA Method 680 to determine if there are PCB loadings entering the City through the surrounding township connections. Results of these sampling events, presented in Attachment C, were all below the detection limits. PWD is preparing to monitor additional township connections in 2026.

Manholes

Utilities may obtain a manhole pumpout permit for permission to discharge wastewater from the underground infrastructure to the City's sanitary and combined sewers. The Manhole Permits require all utilities or subcontractors to monitor their discharges for PCBs via sampling and to report their activities and results. All Manhole Permits include PWD's regulatory PCB limit of "non-detectable by EPA Method 608" limitation. All PCB detections require additional monitoring by the contractor or subcontractor to show compliance with the permit limitation.

- In 2025, eight (8) manhole pumpout permits were active. All discharging permittees reported non-detectable PCBs results.

6 Incremental and Cumulative Changes from the Baseline Loading

Loading Baseline

PWD's PCB PMP provides the following baseline loadings (see Section 7, "Tabular Summary):

WPCP	Baseline Loading (mg/day)
NEWPCP	11,510
SEWPCP	7,559
SWWPCP	10,970

These loadings differ from those found in the TMDL. This is because the data are from different sampling events, the PMP baseline loadings are weighted by wet versus dry weather results, the analyses are for different numbers of congeners and there is a difference in analytical methods.

Baseline Loading Reduction – Direct Measurement

During Year 19, wet-weather effluent sampling for PCBs was performed at each of PWD's three Water Pollution Control Plants (WPCPs), as required by PWD's NPDES permits. See Section 7 ("Tabular Summary") for data. The numerical data sets are presented in Section 7, Tables 7.1 through 7.4. This data is presented in graphical form in Appendix A, Figures A1 through A3.

Loadings for the NEWPCP from September 2025 sampling show the highest overall reduction of 91.7% since the 2005 baseline PCB loading levels. The March sample resulted in a reduction of 66.5%, which is comparable to those calculated in 2011 and 2019, and significantly higher than the 13.0% reduction calculated in March of Year 18 (2024).

Loadings for the SEWPCP show a significant reduction of over 90% from the two sampling dates in 2025. This constitutes the highest overall reduction observed over the years when compared to the 2005 PCB loading levels.

Loadings for the SWWPCP in 2025 for both samples are comparable to those calculated in 2011, 2015 and 2021. The reduction in PCB loading levels from the baseline has been consistent with those years also.

PWD explored the PCB homolog contribution for wet and dry weather samples and the wet weather homolog contribution from 2020-2025 for all three plants are presented in Figure A4 through A6. The average percentage contribution by homolog for both dry and wet weather samples collected between 2014 and 2025 was compared to that in 2025 for each plant. These homolog percentages are presented in Attachment A, Figures A7 through A9.

Northeast, Southeast, and Southwest tend to have a high contribution from di-, tri-, tetra-, penta-, hexa-, and hepta-homologs compared to the last five years (2020 – 2024). NEWPCP shows decreased contribution from penta-, hexa-, and hepta- homologs decreased in wet-weather samples from September 2025.

Southeast shows a decreased contributions from tetra-, penta-, hexa, hepta-, nona-, & deca-homologs in wet-weather samples compared to the last five years contribution. While the di-homolog shows a significant increase in 2025 compared to the last five years contribution.

SWWPCP contribution of each homolog in 2025 are generally to their contribution from the last five years.

Baseline Loading Reduction – Other Measures of Progress

See Attachment B ("Potential Sources and Inspection Findings"). A report with results from 2023 inspections is shown in this section. This report was developed from the PCB database. PWD will continue to update and refine this report with the annual drainage maps associated with the inspections conducted in future reports.

Two (2) township connections, one (1) in Bucks County, and one (1) in Lower Southampton Township were sampled in 2024 using EPA Method 608 and the results were all below the method detection limits. Bucks County drains to the NEWPCP and Lower Southampton Township drains to the NEWPCP. The results have been provided in Table C1. In 2025, additional outlying township connections sampling is planned.

7 Tabular Summary

The subsequent pages provide a summary of the PCB loading calculations for NEWPCP, SEWPCP and SWWPCP, along with the total and penta-PCB concentration results for each of the treatment plant effluents in 2025. Also, included are the annual range and median concentrations for dry weather monitoring at the respective plants.

Table 7.1
Summary of PCB Loadings
Northeast Water Pollution Control Plant
NPDES # PA0026689

Year 2005 Baseline Loading (mg/day): 11,510

Date	Calculated Loading (mg/day)	Estimated Reduction From Baseline (mg/day)	Cumulative Reduction From Baseline (%)
12/3/07	8,594	2,916	25.3
3/27/09	5,846	5,664	49.2
10/16/09	6,571	4,939	42.9
4/21/10	5,490	6,020	52.3
12/13/10	4,615	6,895	59.9
9/6/11	6,224	5,286	45.9
11/17/11	3,745	7,765	67.5
6/13/12	11,189	321	2.8
10/16/12	2,542	8,968	77.9
4/20/13	2,849	8,661	75.2
10/8/13	2,349	9,161	79.6
4/16/14	2,315	9,195	79.9
9/25/14	1,552	9,958	86.5
5/28/15	3,157	8,353	72.6
10/10/15	2,291	9,219	80.1
5/14/16	1,755	9,755	84.8
10/23/16	1,479	10,031	87.1
5/6/17	1,749	9,761	84.8
10/9/17	972	10,538	91.6
3/2/18	17,293	-5,783	-50.2
10/12/18	4,219	7,291	63.3
5/6/19	2,856	8,654	75.2
10/17/19	3,067	8,443	73.4
4/13/2020	3,114	8,396	72.9
10/30/2020	5,570	5,940	51.6
3/19/2021	9,636	1,874	16.3
10/26/2021	52,351	-40,841	-354.8
9/6/2022	1,574	9,936	86.3
10/14/2022	2,223	9,287	80.7
2/28/2023	2,583	8,927	77.6
9/29/2023	2,579	8,931	77.6
24/3/2024	10,013	1,497	13.0
3/8/2024	1,612	9,898	86.0
3/6/2025	3,853	7,657	66.5
9/25/2025	958	10,552	91.7

Measure	Date Initiated	Date Completed
NEWPCP Phase 1 Trackdown	November 3, 2010	November 4, 2010
NEWPCP Phase 2 Trackdown	January 26, 2012	January 27, 2012

Table 7.2
Summary of PCB Loadings
Southeast Water Pollution Control Plant
NPDES # PA0026662

Year 2005 Baseline Loading (mg/day): 7,559

Date	Calculated Loading (mg/day)	Estimated Reduction From Baseline (mg/day)	Cumulative Reduction From Baseline (%)
12/3/07	4,595	2,964	39.2
3/27/09	3,435	4,124	54.6
10/16/09	4,287	3,272	43.3
4/21/10	2,155	5,404	71.5
12/2/10	2,736	4,823	63.8
9/6/11	4,135	3,424	45.3
11/17/11	1,368	6,191	81.9
6/13/12	5,659	1,900	25.1
10/16/12	1,296	6,263	82.9
4/20/13	2,803	4,756	62.9
11/27/13	2,599	4,960	65.6
4/16/14	6,370	1,189	15.7
9/25/14	1,827	5,732	75.8
5/28/15	2,744	4,815	63.7
10/10/15	2,795	4,764	63.0
5/14/16	1,525	6,034	79.8
10/28/16	1,058	6,501	86.0
5/6/17	2,762	4,797	63.5
10/9/17	1,212	6,347	84.0
4/16/18	21,681	-14,122	-186.8
10/12/18	9,543	-1,984	-26.2
4/6/19	828	6,731	89.0
10/28/19	2,386	5,173	68.4
5/1/2020	2,728	4,831	63.9
11/12/2020	6,059	1,500	19.8
3/19/2021*	7,219	340	4.5
7/2/2021	3,611	3,948	52.2
10/26/2021	1,811	5,748	76.0
9/6/2022	2,111	5,448	72.1
10/14/2022	1,481	6,078	80.4
2/28/2023	1,826	5,733	75.8
9/29/2023	2,455	5,104	67.5
3/24/2024	2,463	5,096	67.4
8/3/2024	1,195	6,364	84.2
3/6/2025	510	7,049	93.3
9/25/2025	605	6,954	92.0

Measure	Date Initiated	Date Completed
SEWPCP Phase 2 Trackdown	October 17, 2006	October 20, 2006

Table 7.3
Summary of PCB Loadings
Southwest Water Pollution Control Plant
NPDES # PA0026671

Year 2005 Baseline Loading (mg/day): 10,970

Date	Calculated Loading (mg/day)	Estimated Reduction From Baseline (mg/day)	Cumulative Reduction From Baseline (%)
12/3/07	6,369	4,601	41.9
3/27/09	7,334	3,636	33.1
10/16/09	5,690	5,280	48.1
4/21/10	2,948	8,022	73.1
12/2/10	5,027	5,943	54.2
9/6/11	10,270	700	6.4
11/17/11	4,280	6,690	61.0
6/13/12	5,766	5,204	47.4
10/16/12	2,663	8,307	75.7
4/20/13	3,673	7,297	66.5
10/8/13	3,040	7,930	72.3
4/16/14	2,939	8,031	73.2
9/25/14	2,882	8,088	73.7
8/12/15	4,265	6,705	61.1
10/10/15	3,610	7,360	67.1
5/14/16	3,662	7,308	66.6
10/23/16	1,416	9,554	87.1
5/6/17	3,273	7,697	70.2
10/9/17	3,294	7,676	70.0
3/2/18	6,015	4,955	45.2
4/16/18	7,183	3,787	34.5
10/12/18	4,870	6,100	55.6
4/6/19	2,596	8,374	76.3
10/17/19	26,869	-15,899	-144.9
5/1/2020	2,975	7,995	72.9
10/30/2020	3,474	7,496	68.3
3/19/2021	4,950	6,020	54.9
10/26/2021	3,674	7,296	66.5
9/6/2022	80,678	-69,708	-635.4
11/12/2022	5,769	5,201	47.4
12/7/2022	636,593	-625,623	-5703.0
2/28/2023	3,691	7,279	66.4
4/23/2023	27,679	-16,709	-152.3
9/29/2023	8,721	2,249	20.5
3/24/2024	22,886	-11,916	-108.6
8/3/2024	2,347	8,623	78.6
3/6/2025	4,756	6,214	56.6
9/25/2025	4,334	6,636	60.5

Measure	Date Initiated	Date Completed
SWWPCP Phase 1 Trackdown	October 12, 2011	October 13, 2011
SWWPCP Phase 2 Trackdown	February 23, 2012	February 24, 2012

Table 7.4
Summary of Water Pollution Control Plant Effluent PCB Concentration (pg/L)

NEWPCP			SEWPCP			SWWPCP		
Date	Total PCBs (pg/L)	Penta-PCBs (pg/L)	Date	Total PCBs (pg/L)	Penta-PCBs (pg/L)	Date	Total PCBs (pg/L)	Penta-PCBs (pg/L)
12/3/07	13,709	2340	12/3/07	13,580	2233	12/3/07	7,362	1,314
3/27/09	4,047	850	3/27/09	1,593	373	3/27/09	8,866	1,474
10/16/09	5,924	1,238	10/16/09	3,797	711	10/16/09	4,612	886
4/21/10	6,746	1,629	4/21/10	5,322	1,114	4/21/10	3,623	729
12/13/10	5,671	1,379	12/2/10	6,755	1,348	12/2/10	6,177	1,110
9/6/11	7,646	1,624	9/6/11	10,206	1,723	9/6/11	12,385	1,911
11/17/11	4,600	1,159	11/17/11	3,376	635	11/17/11	5,162	997
6/13/12	13,745	2,057	6/13/12	13,988	2,954	6/13/12	6,954	1,331
10/16/12	3,123	791	10/16/12	3,198	595	10/16/12	3,211	558
4/20/13	3,500	806	4/20/13	6,918	1,566	4/20/13	4,429	932
10/8/13	2,886	669	11/27/13	6,414	1,204	10/8/13	3,666	757
4/16/14	2,844	622	4/16/14	15,722	3,182	4/26/14	3,544	737
9/26/14	1,907	458	9/25/14	4,510	912	9/25/14	3,476	745
8/12/15	3,878	963	8/12/15	6,774	1,411	5/28/15	5,143	1,338
10/10/15	2,814	584	10/10/15	6,898	1,516	10/10/15	4,354	790
5/14/16	2,156	488	5/14/16	3,765	847	5/14/16	4,416	979
10/23/16	1,817	377	10/28/16	2,612	452	10/23/16	1,708	307
5/6/17	2,149	455	5/6/17	6,817	1,044	5/6/17	3,948	634
10/9/17	1,194	263	10/9/17	2,993	257	10/9/17	3,972	681
3/2/18	21,243	4,786	--	--	--	3/2/18	5,873	1,044
--	--	--	4/16/18	53,514	10,678	4/16/18	8,662	1,810
10/12/18	5,183	1,059	10/12/18	23,555	3,176	10/12/18	7,254	1,155
--	--	--	4/6/19	2,044	283	4/6/19	3,131	603
5/6/19	3508	857	--	--	--	--	--	--
10/17/19	3768	1113	--	--	--	10/17/19	32,404	7,997
--	--	--	10/28/19	5,889	1,146	--	--	--
4/13/20	3826	909	--	--	--	--	--	--
--	--	--	5/1/20	6,733	1,216	5/1/20	3,587	653
10/30/20	6,843	1,911	--	--	--	10/30/20	4189	714
--	--	--	11/12/20	14955	2927	--	--	--
3/19/21	11,837	2,936	3/19/2021*	17,818	3,842	3/19/21	5,970	1,134
--	--	--	7/2/21	8,913	1,586	--	--	--
10/26/21	64,308	6,048	10/26/21	4,470	816	10/26/21	4,431	664
9/6/22	1,934	481	9/6/22	5,211	1,045	9/6/22	97,294	24,869
10/14/22	2,731	537	10/14/22	3,656	1,131	--	--	--
--	--	--	--	--	--	11/12/22	6,958	1,363
--	--	--	--	--	--	12/7/22	767,708	148,867
2/28/23	3,173	710	2/28/23	4,507	739	2/28/23	4,451	750
--	--	--	--	--	--	4/23/23	33,380	8,047
9/29/23	3,168	483	9/29/23	6,059	2,199	9/29/23	10,517	2,796
3/24/24	12,300	2,510	3/24/24	6,080	1,450	3/24/24	27,600	5,730
8/3/24	1,980	524	8/3/24	2,950	778	8/3/24	2,830	680
3/6/25	4,733	1,071	3/6/25	1,258	123	3/6/25	5,736	1,212
9/25/25	1,177	236	9/25/25	1,494	168	9/25/25	5,227	1,069

Table 7.5
Range and Median PCB Concentration (pg/L)

Year	NE WPCP	SE WPCP	SW WPCP
2009	2,994-7,280 (4561)	1,364-9,375 (3667)	2,994-10,696 (7587)
2010	1,769-109,201 (6528)	1,399-6,755 (3474)	1,399-6,177 (4197)
2011	1,790-7,646 (3319)	1,493-10,206 (2672)	3,363-12,385 (4621)
2012	1,708-13,745 (2479)	1,493-13,988 (3369)	2,850-6,954 (3801)
2013	1,440-3,500 (2165)	2,229-6,918 (4741)	3,582-4,429 (3674)
2014	1,387-15,722 (1657)	1,392-4,510 (1752)	2,801-3,544 (3223)
2015	2,814-3,878 (2968)	2,103-6,898 (4472)	3,328-5,143 (4080)
2016	1,108-2,498 (1817)	1,390-3,765 (2103)	1,708-4,422 (3538)
2017	1,173-2,149 (1421)	1,065-6,817 (2414)	2,784-3,972 (3854)
2018	1,073-21,243 (5268)	3,836-53,514 (12934)	4,943-8,662 (5705)
2019	1,460-3,768 (2667)	2,044-6429 (4341)	3,131-32,404 (3191)
2020	1,469-3,760 (2615)	1,825-2,320 (2073)	2,100-2,438 (2269)
2021	807-48,630 (24718)	2,607-1,612 (2110)	2,992-5,727 (4359)
2022	1579-2078 (1828)	1719-6379 (4049)	3429-3837 (3633)
2023	2961-3318 (3140)	1571-4198 (2885)	2567-3275 (2921)
2024	1980-12300 (3890)	1020-6080 (2950)	2500-27600 (2790)
2025	1177-4733 (1268)	1241-2403 (1376)	3150-5736 (4211)
Note: Annual median is presented in parentheses.			

Attachment A

Data Graphs

Figure A1
NEWPCP Total PCB Homolog Concentration (ng/L)
Dry Weather and Wet Weather Samples, 2014-2025

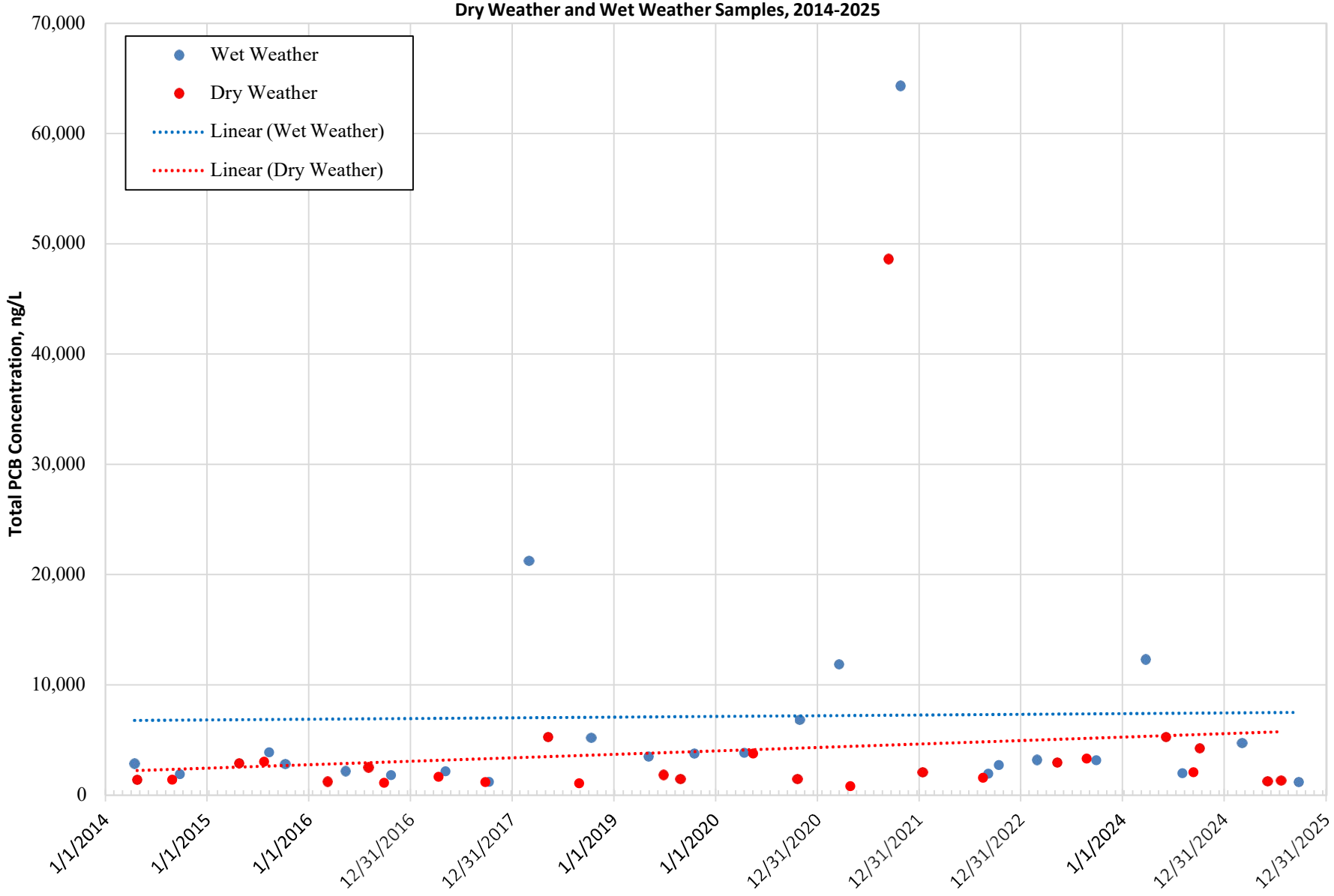


Figure A2
SEWPCP Total PCB Homolog Concentration (pg/L)
Dry Weather and Wet Weather Samples, 2014-2025

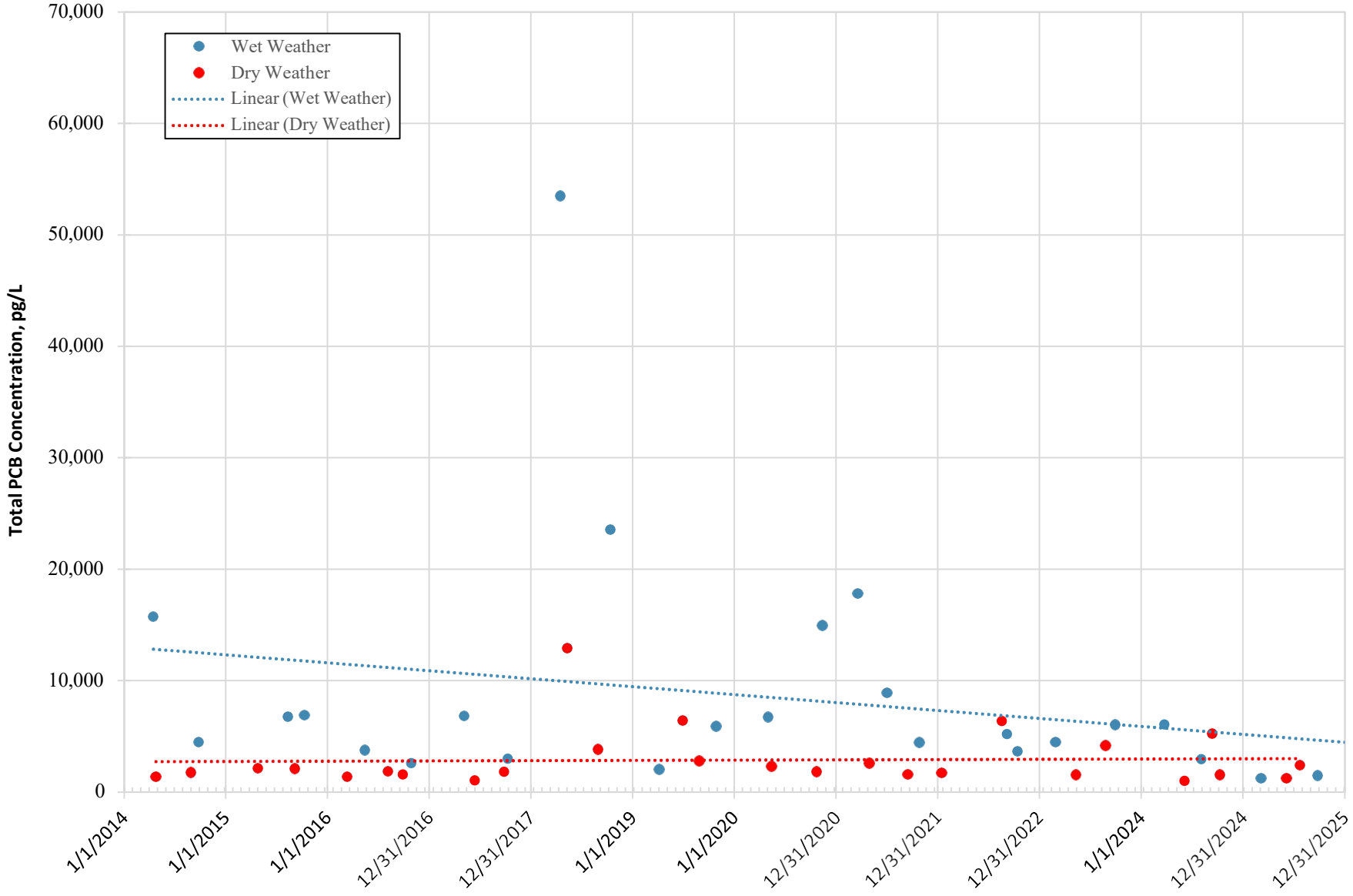


Figure A3
SWWPCP Total PCB Homolog Concentration (pg/L)
Dry Weather and Wet Weather Samples, 2014-2025

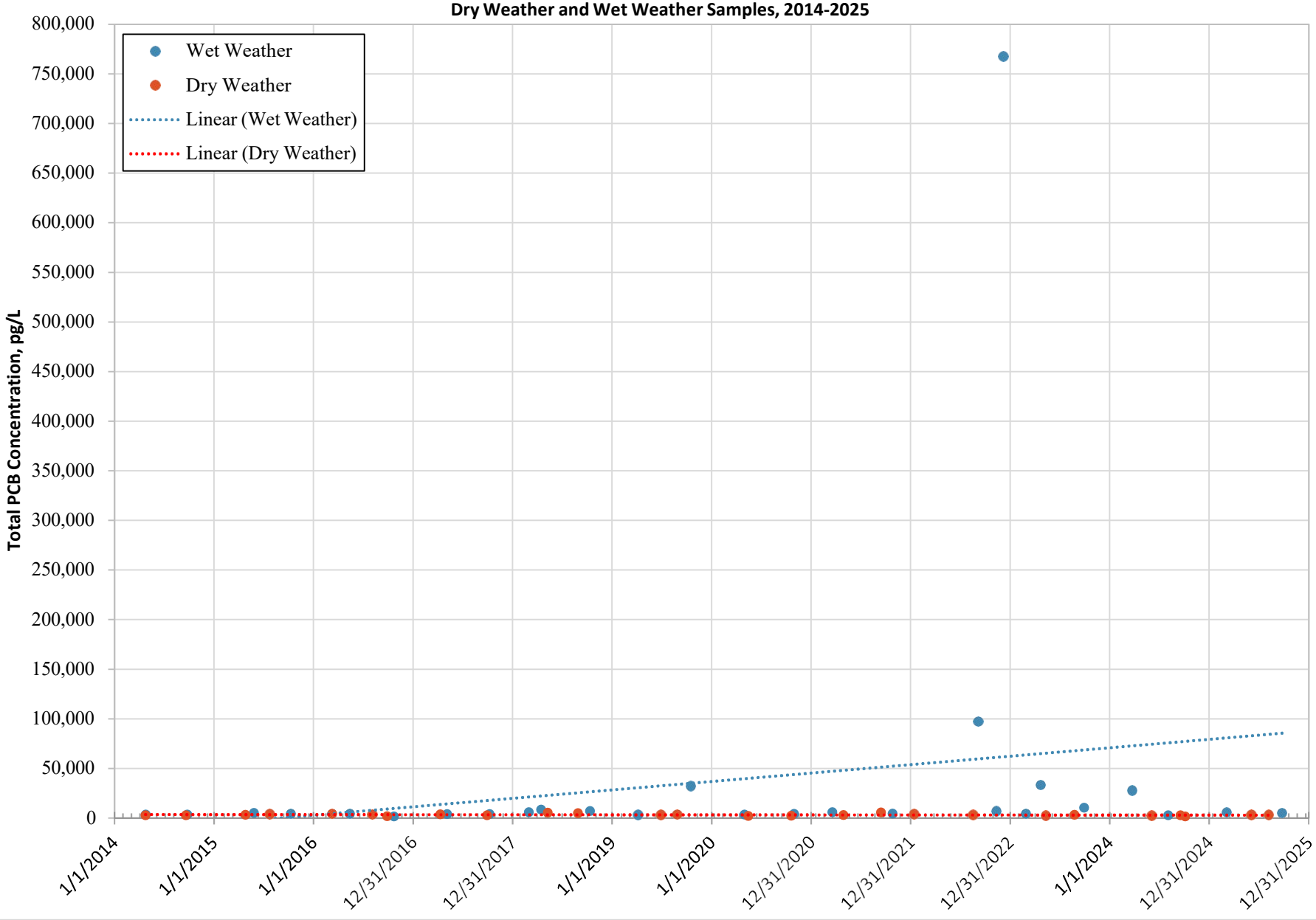


Figure A4
NEWPCP Total Wet Weather % Homolog Contribution, 2020-2025

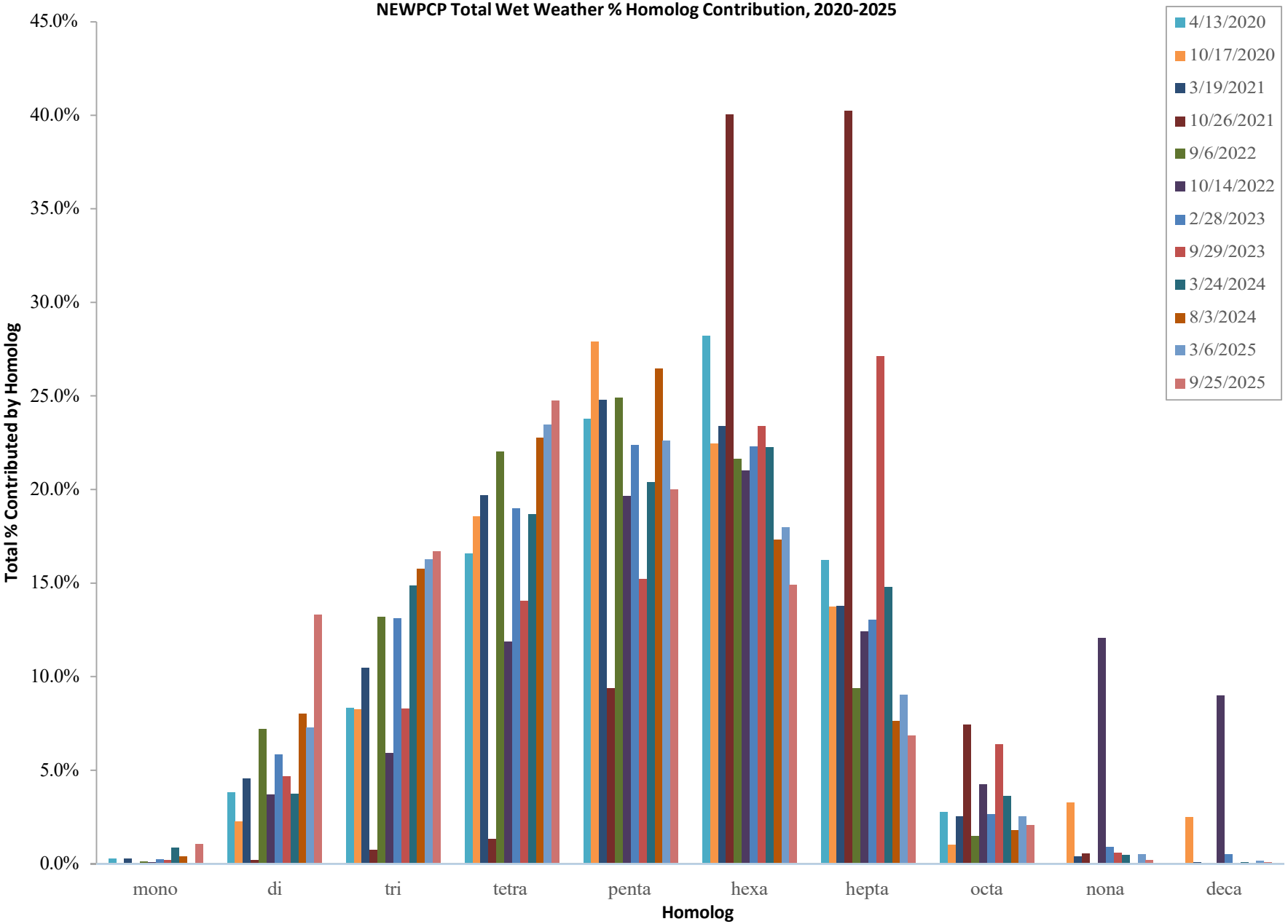


Figure A5
SEWPCP Total Wet Weather % Homolog Contribution, 2020-2025

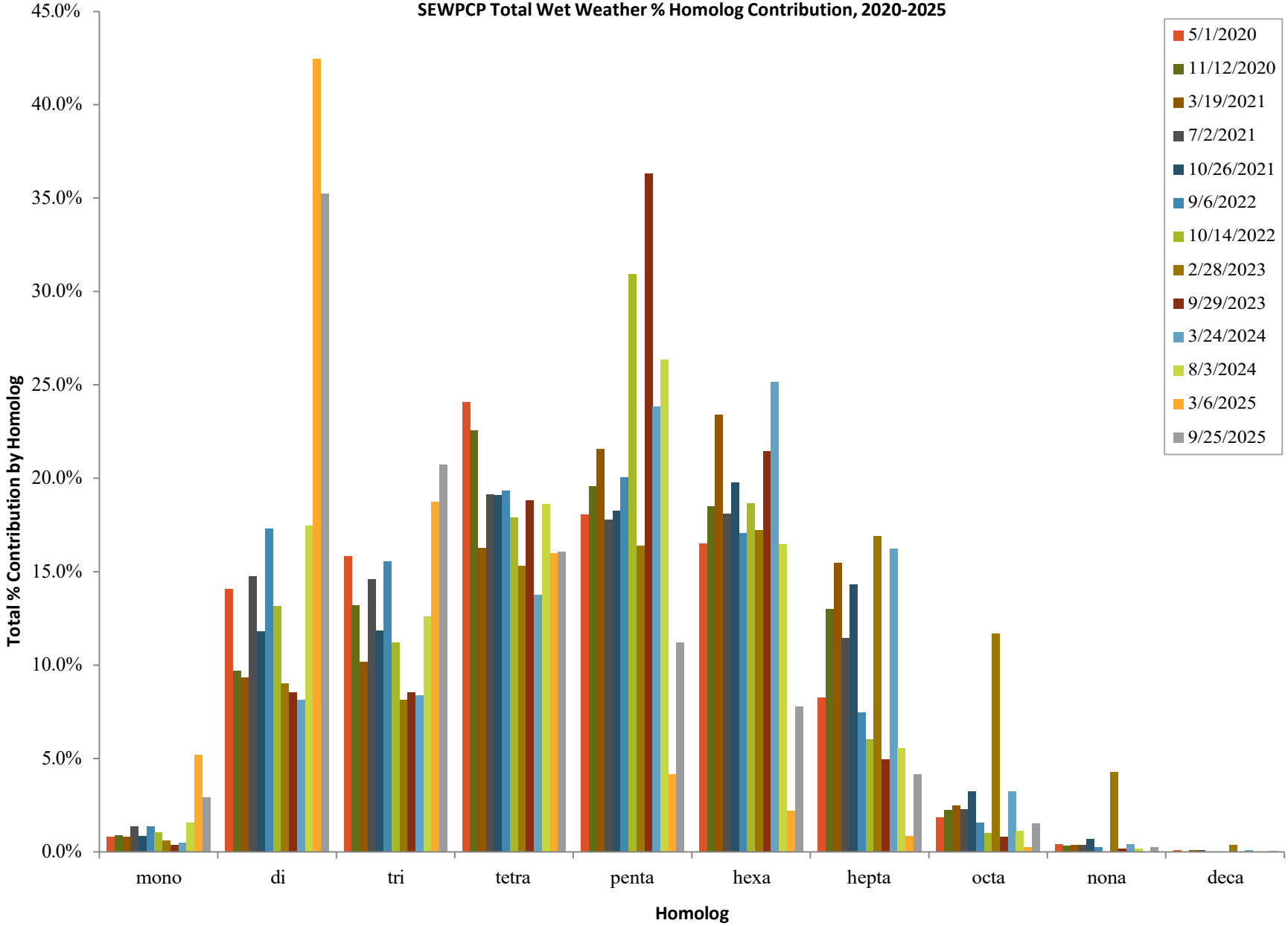


Figure A6
SWWPCP Total Wet Weather % Homolog Contribution, 2020-2025

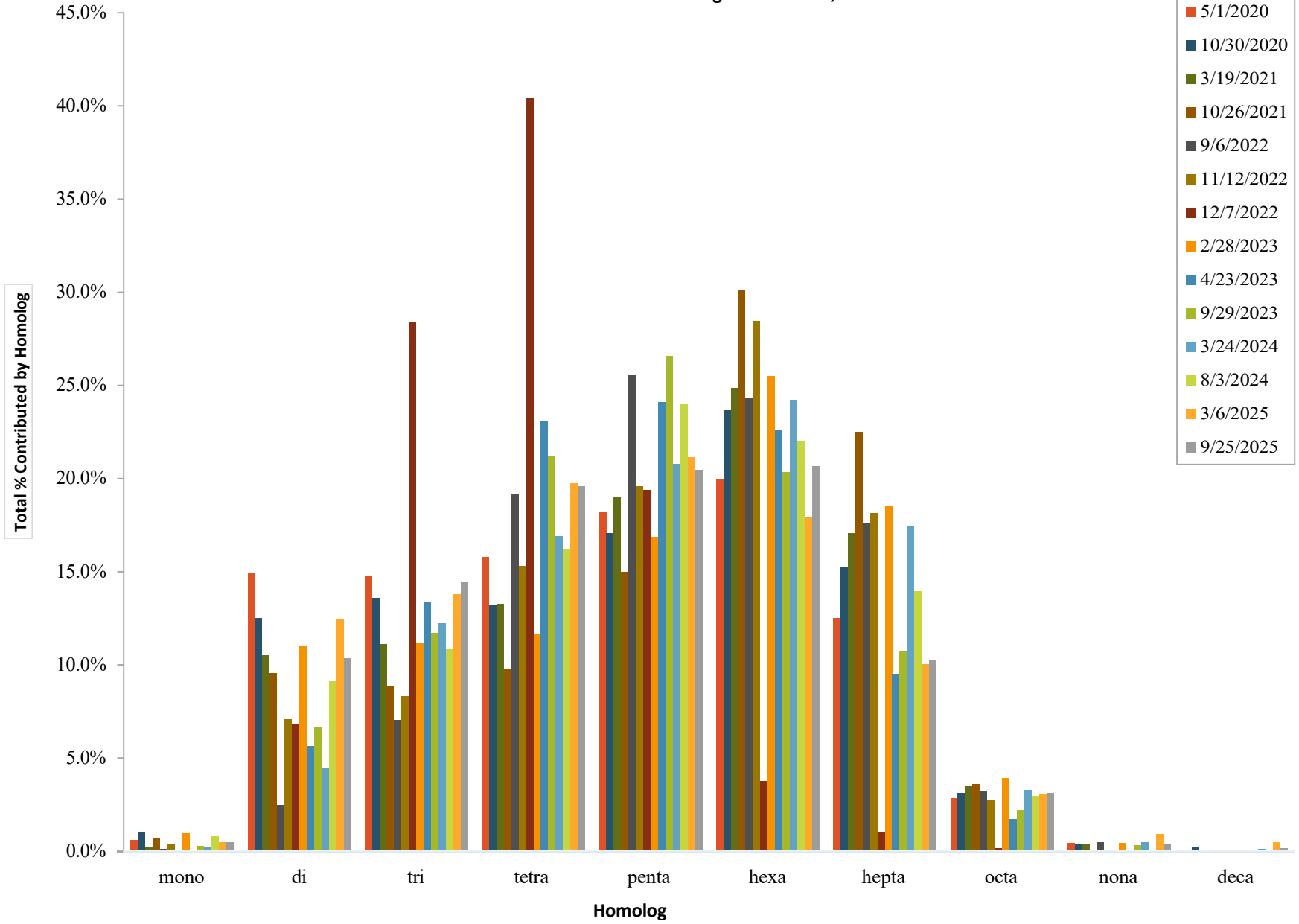


Figure A7
NEWPCP Median PCB Homolog % Contribution
Dry and Wet Weather Samples, 2014-2025 to The Year 2025

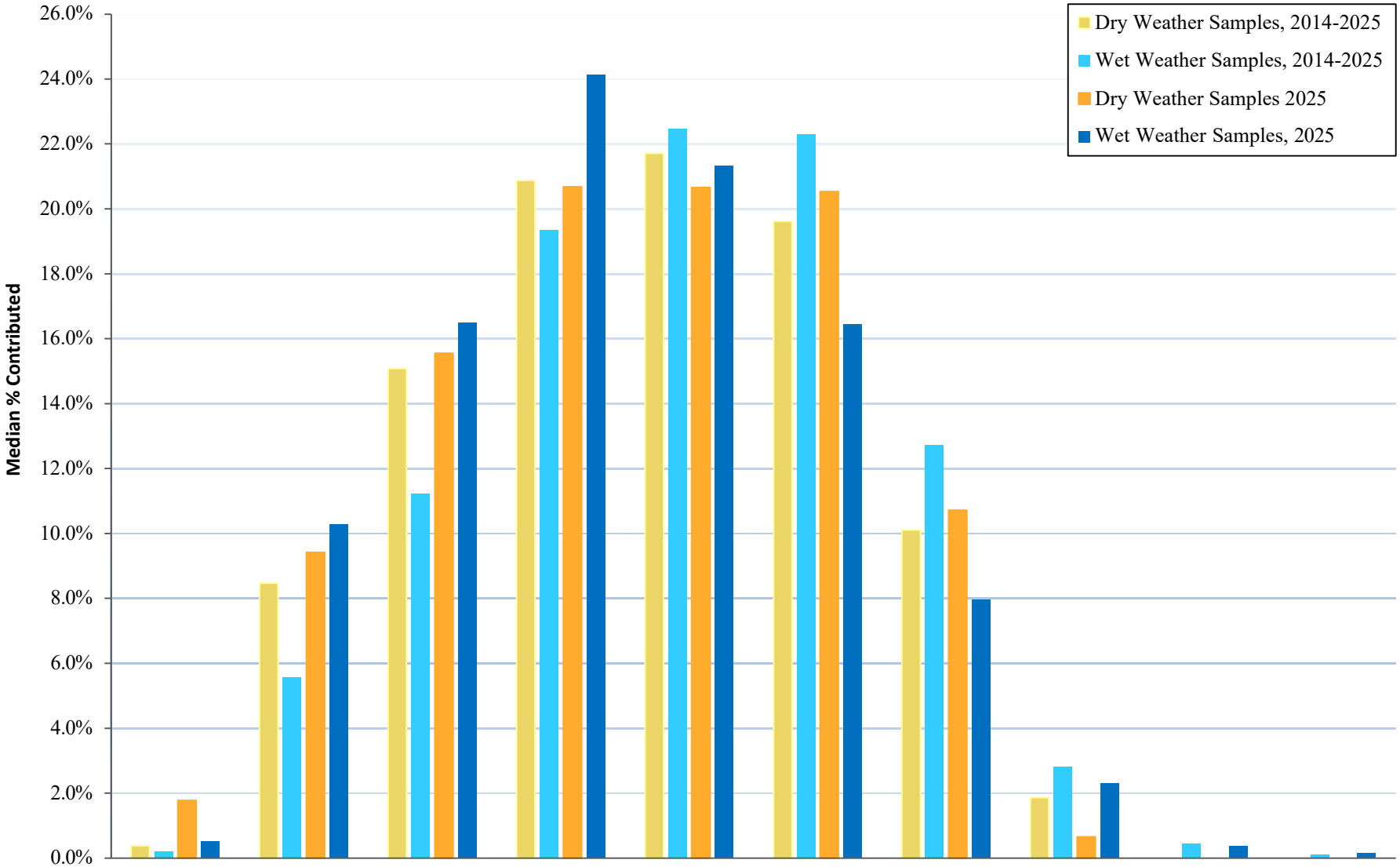


Figure A8
SEWPCP Median PCB Homolog % Contribution
Dry and Wet Weather Samples, 2014-2025 to The Year 2025

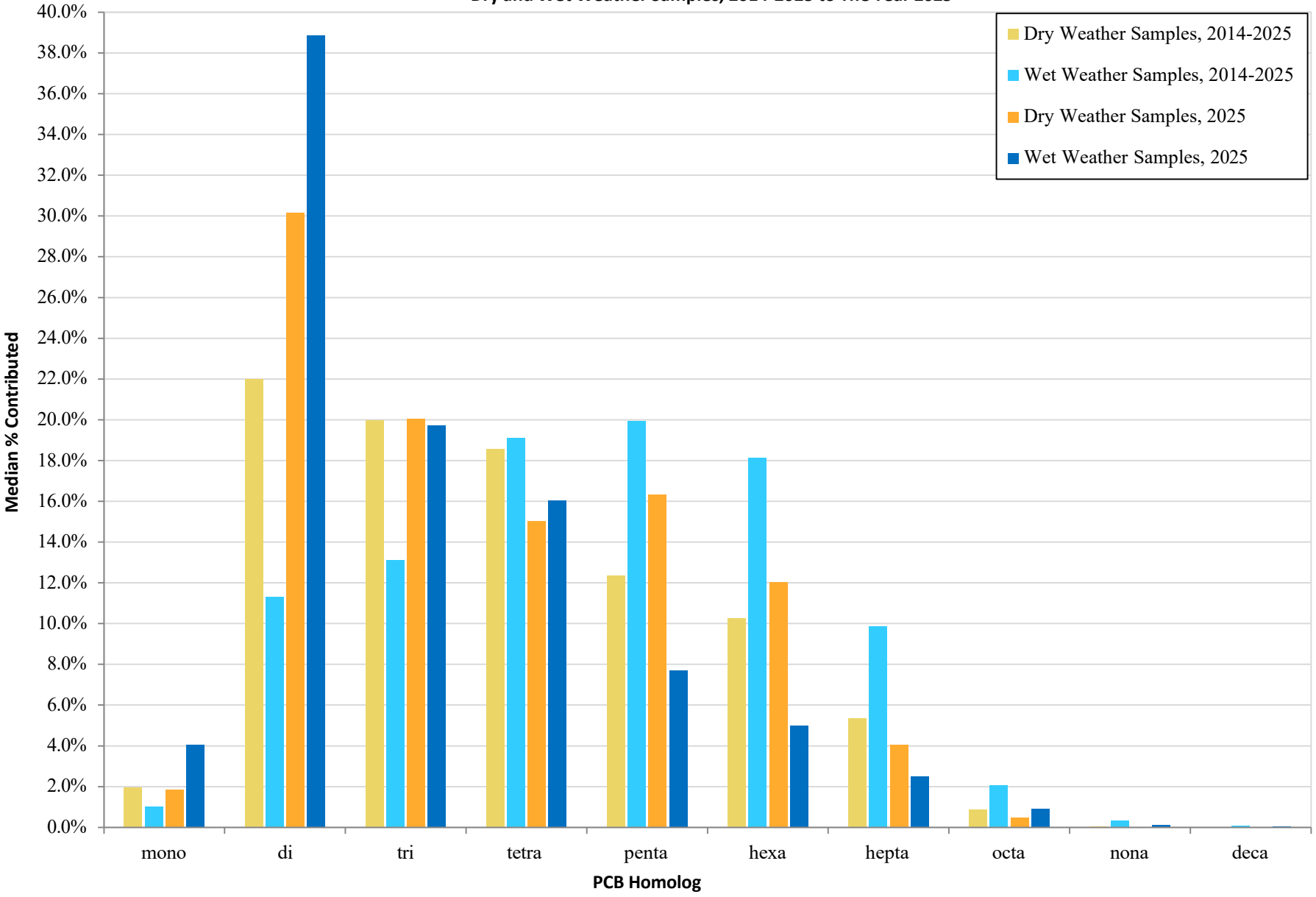
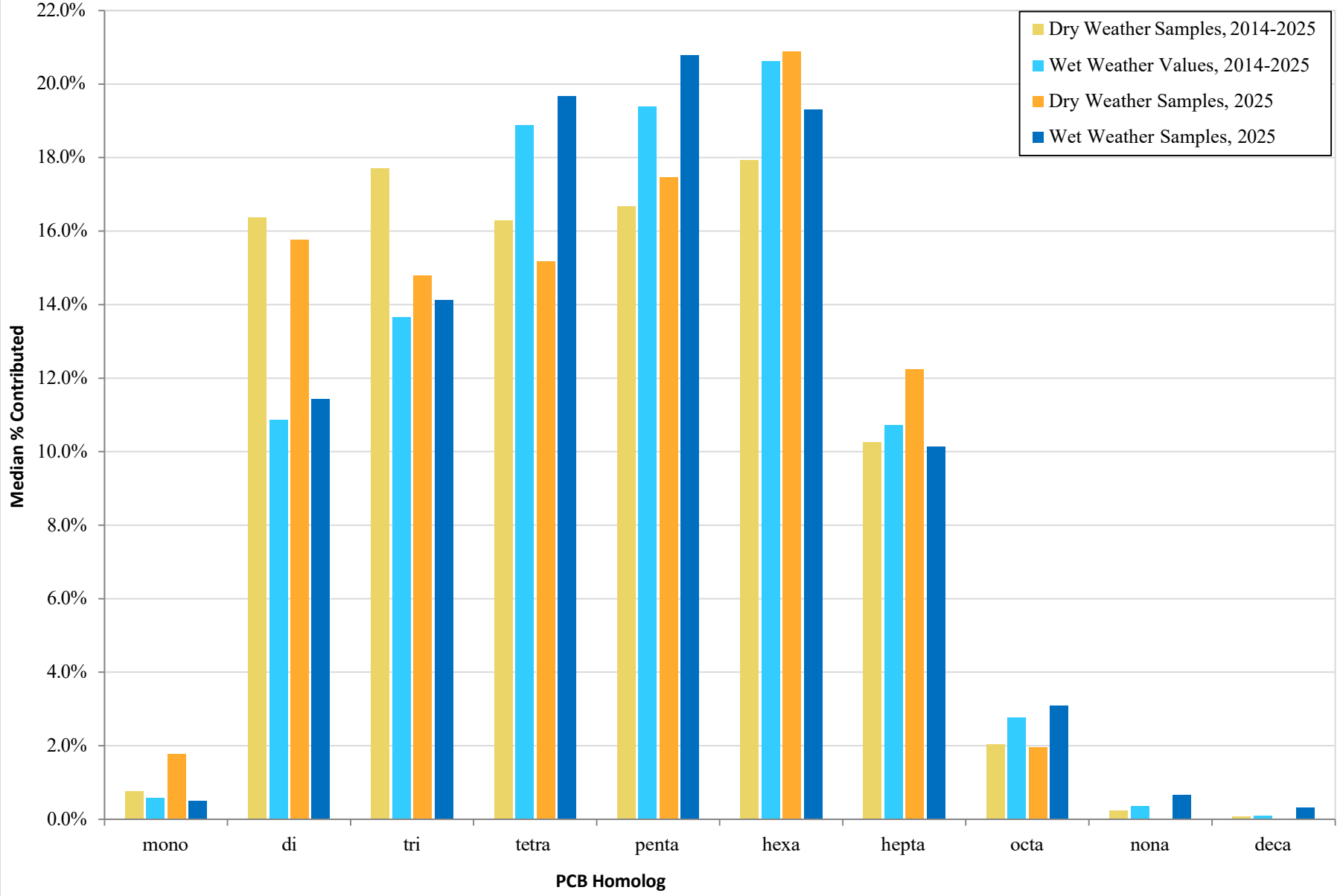


Figure A9
SWWPCP Median PCB Homolog % Contribution
Dry and Wet Weather Samples, 2014-2025 to The Year 2025



Attachment B

Potential Sources and Inspection Findings

Table B1 - Known, Probable and Potential Sources and Measures to Address Sources

Source	Source Type			Measure to Address Source
	Known	*Probable*	*Potential*	
Water Supply (Delaware and Schuylkill Rivers)	X			PCB PMP and action by others
Ferric Chloride used in Water Treatment	X			Switched ferric chloride suppliers
Sludge Lagoons (NEWPCP and SWWPCP)		X		Trackdown for each WPCP calls for sampling and analysis
PCB Device sites in sewershed of each WPCP (see Attachment B, "Inspections of Potential Source Sites")			X	Site inspections, evaluation and followup
Significant Industrial Users			X	Modify permits as warranted
Electric Company (PECO) customers			X	Undetermined. PECO will not share customer information.
Township Connections			X	Sample points of connections for PCBs
Groundwater Discharges			X	Require PCB monitoring
Utility Manhole Pumpouts			X	Require PCB monitoring

Philadelphia Water Department

Inspections by Treatment Plant

01/1/2025 - 12/31/2025

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: NEWPCP											
PCB-NE226	Domestic Uniform Rental	4100 Frankford Ave 19124	Outside	Dennis Glancey	Transformer	1	>50	N/A	No	06/27/25	In Use
PCB-NE260	Crown Bakeries, LLC	5698 Rising Sun Ave 19120	Electrical rm	Alex Hatza	Transformer	1	N/A	637	Staining	12/09/25	In Use
PCB-NE290	Newman & Company, Inc	6101 Tacony St 19135	Between bld L & I	Matt Ballasy	Transformer	2	<50	638	No	11/19/25	In Use
PCB-NE291	Newman & Company, Inc	6101 Tacony St 19135	Outside URSI	Matt Ballasy	Transformer	1	<50	325	No	11/19/25	In Use
PCB-NE292	Newman & Company, Inc	6101 Tacony St 19135	Skid yard NE corner	Matt Ballasy	Transformer	1	N/A	774	No	11/19/25	In Use
PCB-NE300	Original Philly Holdings - Hunting Park	520 E Hunting Park Ave 19124	Outside by grease trap	Tyler Muckle	Transformer	2	N/A	N/A	No	01/23/25	In Use
PCB-NE303	Philadelphia Gas Works-Richmond	3100 E Venango St 19134	Outside	Chin So	Transformer	2	<2.0	200	No	10/31/25	In Use
PCB-NE304	Philadelphia Gas Works-Richmond	3100 E Venango St 19134	Inside	Chin So	Transformer	2	<2	765	No	10/31/25	In Use
PCB-NE305	Philadelphia Gas Works-Richmond	3100 E Venango St 19134	Inside	Chin So	Transformer	2	<2.0	252	No	10/31/25	Out of Use
PCB-NE320	Garfield Refining LLC	810 E Cayuga St 19124	Parking lot	Teddy Rodriguez	Transformer	1	N/A	N/A	No	05/15/25	In Use
PCB-NE325	Amazon.com Services LLC - SPA1	7101 Milnor St 19135	Parking lot on Princeton	Jared Ingersoll	Transformer	1	<50	N/A	No	10/21/25	In Use
PCB-NE326	Frankford Plating Inc.	2505 Orthodox St 19137	Plating room	John Barger	Capacitor	1	N/A	N/A	No	10/01/25	Out of Use

Receiving Plant: NEWPCP
Drainage Area: Combined **Total Number of Inspections completed: 12**

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: NEWPCP											
PCB-NE036	Baxter Water Treatment Plant	9001 State Road 19136	Outside Post bldg	Tim Lapacinski	Transformer	2	N/A	419	No	04/14/25	In Use
PCB-NE208	Maryland and Virginia Milk Producers Cooperative Association, Inc.	10975 Dutton Rd 19154	Outside cage	Travis Kurtz	Transformer	2	N/A	N/A	No	05/01/25	In Use
PCB-NE224	Pepsi Beverages Co	11701 Roosevelt Blvd 19154	Boiler rm	Joe Iannarino	Transformer	2	<50	465	No	11/14/25	In Use
PCB-NE225	Pepsi Beverages Co	11701 Roosevelt Blvd 19154	Outside	Joe Iannarino	Transformer	2	<50	465	No	11/14/25	In Use
PCB-NE234	NE Philadelphia Airport	9800 Ashton Rd 19114	Aviation ins of maintenance	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE235	NE Philadelphia Airport	9800 Ashton Rd 19114	Via air	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE236	NE Philadelphia Airport	9800 Ashton Rd 19114	By shop 209	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE237	NE Philadelphia Airport	9800 Ashton Rd 19114	Weather station	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE238	NE Philadelphia Airport	9800 Ashton Rd 19114	Keystone bld	Nick Antonelli	Transformer	1	N/A	N/A	No	07/21/25	In Use
PCB-NE239	NE Philadelphia Airport	9800 Ashton Rd 19114	Field lighting vault	Nick Antonelli	Transformer	1	<1	N/A	No	07/21/25	In Use
PCB-NE240	NE Philadelphia Airport	9800 Ashton Rd 19114	Hortman	Nick Antonelli	Transformer	3	2	N/A	No	07/21/25	In Use
PCB-NE241	NE Philadelphia Airport	9800 Ashton Rd 19114	Airport tower	Nick Antonelli	Transformer	1	N/A	N/A	No	07/21/25	In Use
PCB-NE242	NE Philadelphia Airport	9800 Ashton Rd 19114	Atlantic aviation	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE243	NE Philadelphia Airport	9800 Ashton Rd 19114	Admin bld	Nick Antonelli	Transformer	1	<50	N/A	No	07/21/25	In Use
PCB-NE244	NE Philadelphia Airport	9800 Ashton Rd 19114	Red Lion Rd	Nick Antonelli	Transformer	1	N/A	N/A	No	07/21/25	In Use
PCB-NE267	Medical Products Laboratories	9990 Global Rd 19115	Electrical rm	Shashi Raju	Transformer	1	N/A	100	No	06/17/25	In Use
PCB-NE271	I. Rice	11500D Roosevelt Blvd 19116	E side of building	Ashly Marchese	Transformer	1	N/A	545	No	08/12/25	In Use
PCB-NE274	Stockwell Elastomerics, Inc	4749 Tolbut St 19136	Bld 749	Bob Walsh	Transformer	1	N/A	N/A	No	04/09/25	In Use
PCB-NE275	Premier Medical	10090 Sandmeyer Ln 19116	Bld rear	Domenick Gregory	Transformer	1	N/A	N/A	No	04/28/25	In Use
PCB-NE280	AgustaWestland Philadelphia Corporation	3050-3076 Red Lion Rd 19114	IFO bld 3050	Hassan Riad	Transformer	1	N/A	315	No	03/28/25	In Use
PCB-NE281	AgustaWestland Philadelphia Corporation	3076 Red Lion Rd 19114	IFO bld 3076	Hassan Riad	Transformer	2	N/A	375	No	03/28/25	In Use
PCB-NE285	NE Philadelphia Airport	9800 Ashton Rd 19114	Runway 15 W end	Nick Antonelli	Transformer	0	N/A	N/A	No	07/21/25	Removed From Site
PCB-NE287	NE Philadelphia Airport	9800 Ashton Rd 19114	Old vehicle shop	Nick Antonelli	Transformer	1	N/A	N/A	No	07/21/25	In Use
PCB-NE288	Tastepoint	10801 Decatur Rd 19154	Boiler room	Stacey DeMarco	Transformer	1	N/A	N/A	No	10/06/25	In Use

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: NEWPCP											
PCB-NE294	AgustaWestland Philadelphia Corporation	3050-3076 Red Lion Rd 19114	Outside Training Bld	Hassan Riad	Transformer	1	N/A	386	No	03/28/25	In Use
PCB-NE306	AgustaWestland Philadelphia Corporation	3070 Red Lion Road 19114	3070 New Hangar	Hassan Riad	Transformer	1	N/A	N/A	No	03/28/25	In Use
PCB-NE312	Jerith Manufacturing	14400 McNulty Rd 19154	Near west pond	Steven Rector	Transformer	1	N/A	N/A	No	11/25/25	In Use
PCB-NE313	Jerith Manufacturing	14400 McNulty Rd 19154	IFO admin bld	Steven Rector	Transformer	1	N/A	N/A	No	11/25/25	In Use
PCB-NE321	Lidl	9175 Roosevelt Blvd 19114	Outside	N/A	Transformer	1	<50	N/A	No	06/26/25	In Use
Receiving Plant: NEWPCP											
Drainage Area: MS4			**Total Number of Inspections completed: 29**								
PCB-NE282	Gill Aluminum Corp.	1384 Byberry Rd 19020	Telephone pole in parking lot	Kelli Gill	Transformer	1	<50	N/A	No	08/22/25	In Use
PCB-NE289	Qualawash	1000 Imperial Rd 19020	Outside bld rear	Edward Lex	Transformer	1	N/A	N/A	No	08/13/25	In Use
PCB-NE295	Sigma Pharm Laboratories, LLC	3375 Progress Dr 19020	Loading docks	Nimin Kurien	Transformer	1	N/A	N/A	No	09/26/25	In Use
PCB-NE296	Sigma Pharm Laboratories, LLC	3375 Progress Dr 19020	Along Progress Dr	Nimin Kurien	Transformer	1	N/A	N/A	No	09/26/25	In Use
PCB-NE297	Sigma Pharm Laboratories, LLC	3399 Progress Dr 19020	Along Progress Dr	Nimin Kurien	Transformer	1	N/A	N/A	No	09/26/25	In Use
PCB-NE314	Teletronics Technology Corporation	15 Terry Dr 18940	Building side.	Hector Maldonado	Transformer	1	<50	N/A	No	10/23/25	In Use
PCB-NE318	KVK Tech	110 Terry Dr 18940	Outside rear.	Vinay Yadav	Transformer	1	<500	400	No	05/22/25	In Use
Receiving Plant: NEWPCP											
Drainage Area: Township			**Total Number of Inspections completed: 7**								
Receiving Plant: NEWPCP			**Total Number of Inspections completed: 48**								

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SEWPCP											
PCB-SE008	Broad & Locust Associates	230 S Broad St 19102	Basement	Larry Schleigh	Transformer	4	N/A	200	No	06/12/25	In Use
PCB-SE038	The St James	7th & Walnut 19106	Outside yard	Shawn Ruber	Transformer	0	N/A	N/A	No	09/15/25	Removed From Site
PCB-SE051	Thomas Jefferson Hospital	1008-34 Locust St 19107	Penthouse mezz	David Disque	Transformer	0	N/A	N/A	No	09/08/25	Removed From Site
PCB-SE067	Phila Girard Sq	21 S 12th St 19107	Substation	Sam Lattimore	Transformer	0	N/A	0	No	06/20/25	Removed From Site
PCB-SE201	Columbia Silk Dyeing Co., Inc	1726 N Howard St 19122	Vault	Craig Garton	Transformer	0	<50	N/A	No	06/26/25	Removed From Site
PCB-SE202	PECO Energy, Oregon Ave Shop	2610 S Christopher Columbus Blvd 19148	Parking lot	George Horvath	Transformer	50	N/A	N/A	No	06/23/25	In Use
PCB-SE203	Simons Brothers Co.	2438 Sergeant St 19125	By front door	Susan Kaiser	Transformer	1	>500	N/A	No	11/06/25	In Use
PCB-SE205	Alta Performance Materials	2801 Christopher Columbus Blvd 19148	By Nitrogen	Scott Wright	Transformer	1	<50	N/A	No	11/20/25	In Use
PCB-SE206	Alta Performance Materials	2801 Christopher Columbus Blvd 19148	Front gate	Scott Wright	Transformer	1	N/A	N/A	No	11/20/25	In Use
PCB-SE207	Alta Performance Materials	2801 Christopher Columbus Blvd 19148	Roof of bld 10	Scott Wright	Transformer	1	<50	N/A	No	11/20/25	In Use
PCB-SE243	National Chemical Laboratories, Inc	401 N 10th St 19123	Transformer rm	Harry Pollack	Transformer	4	<50	410	No	10/09/25	In Use

Receiving Plant: SEWPCP
Drainage Area: Combined **Total Number of Inspections completed: 11**

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SEWPCP											
PCB-SE230	PSNY (NFPC)	4747 S Broad St 19112	E Building 546	Allyson Kundrick	Transformer	3	N/A	N/A	No	12/15/25	In Use
PCB-SE231	PSNY (NFPC)	4747 S Broad St 19112	N Building 1029	Allyson Kundrick	Transformer	4	N/A	1055	No	12/15/25	In Use
PCB-SE245	PECO	7735 Germantown Ave 19118	Chestnut Hill substation	Bryan Dwyer	Transformer	3	<50	N/A	Staining	06/25/25	In Use
PCB-SE246	PSNY (NFPC)	4747 S Broad St 19112	S Building 20	Allyson Kundrick	Transformer	8	N/A	N/A	No	12/15/25	In Use
PCB-SE247	PSNY (NFPC)	4747 S Broad St 19112	SW Building 20	Allyson Kundrick	Transformer	4	N/A	N/A	No	12/15/25	In Use
PCB-SE250	Tasty Baking Co.	4300 S 26th St 19112	Building rear	Joseph Soto	Transformer	2	N/A	600	No	12/17/25	In Use
PCB-SE318	Advance Therapies LLC	4751 League Island Blvd 19112	Loading dock	Aysia Gandy	Transformer	2	N/A	N/A	No	11/04/25	In Use
PCB-SE319	Advance Therapies LLC	400 Rouse Blvd 19112	Rear of facility	Aysia Gandy	Transformer	2	N/A	N/A	No	09/24/25	In Use
PCB-SE320	Advance Therapies LLC	4701 League Island Blvd 19112	Rear of bld	Aysia Gandy	Transformer	2	N/A	N/A	No	11/03/25	In Use
PCB-SE321	Advance Therapies LLC	4000 S 26th St 19112	Rear of bld	Aysia gandy	Transformer	2	N/A	N/A	No	09/29/25	In Use
PCB-SE323	Iovance Biotherapeutics, Inc.	300 Rouse Blvd 19112	Parking Lot	Anthonius Kley	Transformer	3	<50	450	No	11/03/25	In Use
PCB-SE324	PECO	1100 Ivy Hill Rd 19150	Cedarbrook substation	Bryan Dwyer	Transformer	6	<50	N/A	Staining	06/25/25	In Use

Receiving Plant: SEWPCP
Drainage Area: MS4 **Total Number of Inspections completed: 12**

Receiving Plant: SEWPCP **Total Number of Inspections completed: 23**

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SWWPCP											
PCB-SW026	1500 Walnut	1500 Walnut St 19102	11th Floor vault	Steve	Transformer	1	N/A	172	No	06/23/25	In Use
PCB-SW034	Lanesborough	1601 Locust St 19102	Basement	Larry Hayes	Transformer	3	N/A	N/A	No	06/02/25	In Use
PCB-SW076	1500 Walnut	1500 Walnut St 19102	Engine rm basement	Steve	Transformer	1	N/A	290	No	06/23/25	In Use
PCB-SW077	Crowne Plaza	1800 Market St 19103	HPT-IHG Property trust	Sam Xerri	Capacitor	2	N/A	N/A	No	06/02/25	In Use
PCB-SW125	3020 Market Operating LP	3020 Market St 19104	Penthouse	Eric Krajewski	Transformer	4	<50	525	No	06/24/25	In Use
PCB-SW130	Rittenhouse Plaza	19th & Walnut St 19103	Substation/Basement	Marvin Pinkney	Transformer	0	N/A	0	No	06/20/25	Removed From Site
PCB-SW134	Kennedy House Condos	1901 JFK Blvd 19103	Garage	Lewis Rigler	Transformer	4	<50	208	No	06/17/25	In Use
PCB-SW136	Land Title Building	100 S Broad St 19110	LTB limited partnership	Dwayne Chapman	Transformer	4	<50	N/A	No	06/02/25	In Use
PCB-SW217	Philadelphia Zoo	3400 W Girard Ave 19104	KidZooU	Matt Corcoran	Transformer	2	<50	100	No	04/15/25	In Use
PCB-SW218	Philadelphia Zoo	3400 W Girard Ave 19104	Picnic grove	Matt Corcoran	Transformer	1	N/A	100	No	04/15/25	In Use
PCB-SW219	Philadelphia Zoo	3400 W Girard Ave 19104	KidZooU	Mat Corcoran	Transformer	1	<50	100	No	04/15/25	In Use
PCB-SW257	Philadelphia Zoo	3400 W Girard Ave 19104	Parking Garage	Matt Corcoran	Transformer	4	<50	150	No	04/15/25	In Use
PCB-SW259	Philadelphia Zoo	3400 W Girard Ave 19104	Big Cat Falls	Matt Corcoran	Transformer	2	N/A	100	No	04/15/25	In Use
PCB-SW261	Philadelphia Zoo	3400 W Girard Ave 19104	Treehouse #1- #2	Matt Corcoran	Transformer	3	N/A	100	No	04/15/25	In Use
PCB-SW276	Sun Chemical	3301 Hunting Park Ave 19107	Outdoor just behind BLDG #3	Frank Zappavigna	Transformer	1	N/A	N/A	No	02/27/25	In Use

Receiving Plant: SWWPCP

Drainage Area: Combined **Total Number of Inspections completed: 15**

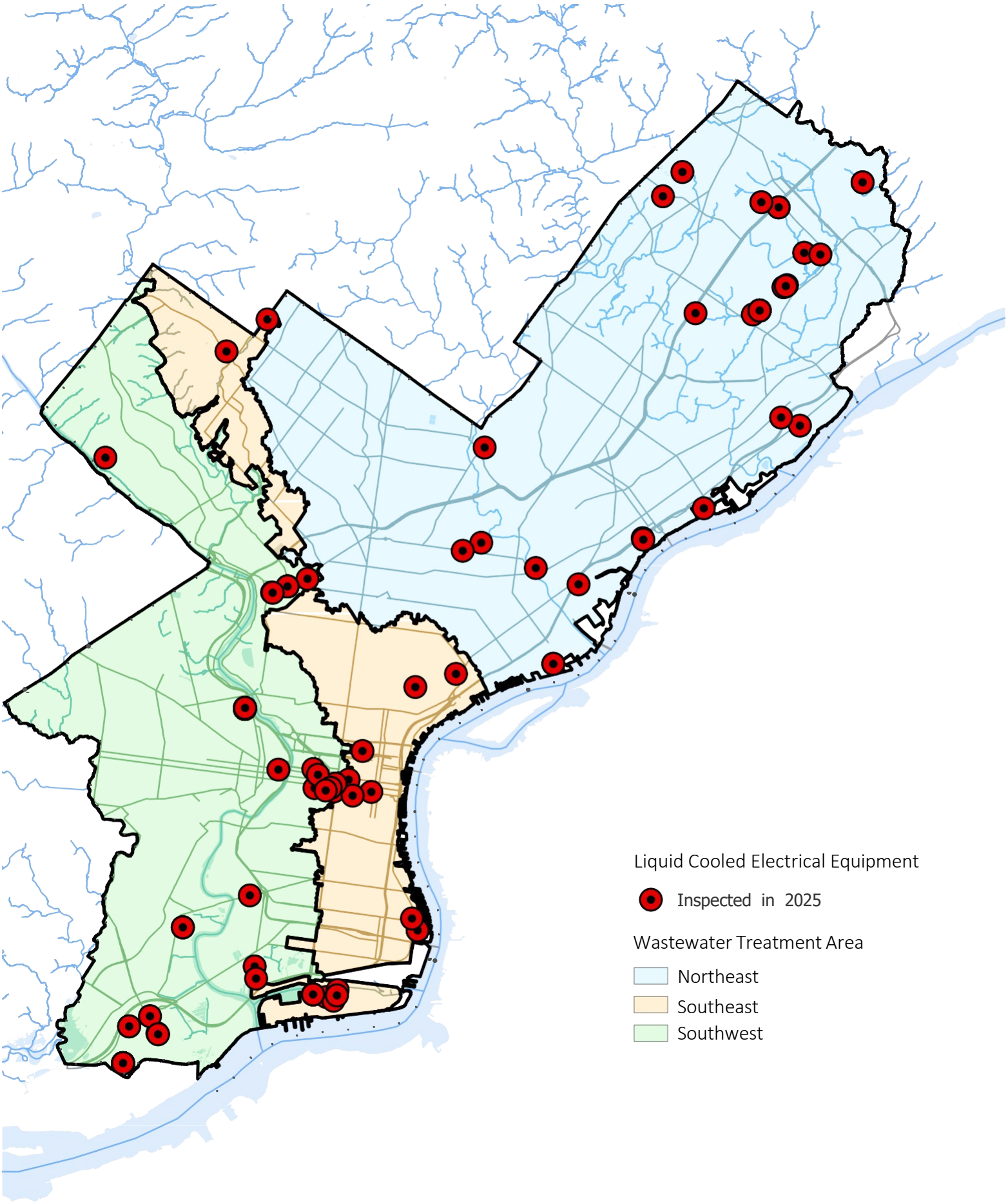
LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SWWPCP											
PCB-SW142	Philadelphia Parking Authority	8000 Essington Ave 19153	Parking garage C grd level ramp	Wayne Darney	Transformer	0	N/A	N/A	No	09/15/25	Removed From Site
PCB-SW143	Philadelphia Parking Authority	8000 Essington Ave 19153	Parking garage D ground level ramp	Wayne Darney	Transformer	2	N/A	381	No	09/15/25	In Use
PCB-SW146	Philadelphia Airport Hilton	4509 Island Ave 19153	Outside	Joe Thomas	Transformer	2	<50	256	No	09/03/25	In Use
PCB-SW158	Sun Chemical	3301 Hunting Park Ave 19132	Bld 1 Boiler vault	Frank Zappavigna	Capacitor & Transformer	7	N/A	N/A	No	02/27/25	In Use
PCB-SW203	LSG Sky Chefs	8401 Escort Ave 19153	Adminstration bld	Peter Klabunde	Transformer	1	N/A	N/A	No	06/17/25	In Use
PCB-SW231	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Anodizing room	David Shanks	Capacitor	2	<50	1.23	No	04/30/25	In Use
PCB-SW232	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Waste treatment area	David Shanks	Capacitor	2	<50	1.3	No	04/30/25	In Use
PCB-SW233	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Receiving/mail room	David Shanks	Capacitor	1	<50	1.03	No	04/30/25	In Use
PCB-SW234	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Light machine area	David Shanks	Capacitor	1	<50	1.39	No	04/30/25	In Use
PCB-SW235	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Basement electrical	David Shanks	Capacitor & Transformer	4	<50	70	No	04/30/25	In Use
PCB-SW236	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Outside fenced area	David Shanks	Transformer	3	<50	291	No	04/30/25	In Use
PCB-SW237	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	First floor transformer cage	David Shanks	Capacitor & Transformer	2	<50	64	No	04/30/25	In Use
PCB-SW238	Penn Fishing Tackle Mfg Co	3028 W Hunting Park Ave 19132	Basement electrical	David Shanks	Transformer	1	<50	64	No	04/30/25	In Use
PCB-SW244	PECO	2600 W Westmoreland St 19129	Westmoreland sub	Bryan Dwyer	Transformer	7	N/A	N/A	No	06/04/25	In Use
PCB-SW265	LSG Sky Chefs	8401 Escort Ave 19153	Escort Ave	Peter Klabunde	Transformer	1	N/A	N/A	No	06/17/25	In Use
PCB-SW267	Energy Transfer Marketing & Terminals L.P.	3400 S 67th St 19153	South by pumps	John Grisi	Transformer	2	N/A	470	No	04/24/25	In Use
PCB-SW268	Energy Transfer Marketing & Terminals L.P.	3400 S 67th St 19153	Near additive tanks	John Grisi	Transformer	1	<50	N/A	No	04/24/25	In Use
PCB-SW269	Energy Transfer Marketing & Terminals L.P.	3400 S 67th St 19153	North switch gate	John Grisi	Transformer	1	N/A	465	No	04/24/25	In Use

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SWWPCP											
PCB-SW270	Energy Transfer Marketing & Terminals L.P.	3400 S 67th St 19153	Old north	John Grisi	Transformer	2	N/A	0	No	04/24/25	Out of Use
PCB-SW271	Philadelphia Gas Work-Passyunk	3100 Passyunk Ave 19145	Outside by sample point	Chin So	Transformer	16	<50	380	No	11/19/25	In Use
PCB-SW292	Philadelphia International Airport	8000 Essington Ave 19153	Cage Left of A19	Wayne Darney	Transformer	2	N/A	636	No	09/08/25	In Use
PCB-SW293	Philadelphia International Airport	8000 Essington Ave 19153	Across from E16	Wayne Darney	Transformer	1	N/A	188	Staining	09/08/25	In Use
PCB-SW294	Philadelphia International Airport	8000 Essington Ave 19153	Back of Fuel Trucks Parking Lot	Wayne Darney	Transformer	1	N/A	576	No	09/08/25	In Use
PCB-SW295	Philadelphia International Airport	8000 Essington Ave 19153	Cage left of B8	Wayne Darney	Transformer	1	N/A	402	No	09/08/25	In Use
PCB-SW296	Philadelphia International Airport	8000 Essington Ave 19153	Concrete pad w stairs across from F35	Wayne Darney	Transformer	2	N/A	263	No	09/08/25	In Use
PCB-SW297	Philadelphia International Airport	8000 Essington Ave 19153	Left of Arora Container Building	Wayne Darney	Transformer	1	N/A	278	No	09/08/25	In Use
PCB-SW298	Philadelphia International Airport	8000 Essington Ave 19153	Inside Airfield outside of 4780 Island Ave	Wayne Darney	Transformer	1	N/A	229	No	09/08/25	In Use
PCB-SW299	Philadelphia International Airport	8000 Essington Ave 19153	Red & White Checkered Building Next to Gate 10B (Inside & Outside)	Wayne Darney	Regulator	10	N/A	328	No	09/08/25	In Use
PCB-SW300	Philadelphia International Airport	8000 Essington Ave 19153	Black cage left of Terminal American A East	Wayne Darney	Transformer	1	<1	210	No	09/15/25	In Use
PCB-SW301	Philadelphia International Airport	8000 Essington Ave 19153	Between Terminal A Zones 5-8 Sign and Authorized Parking Only	Wayne Darney	Transformer	1	N/A	245	No	09/15/25	In Use
PCB-SW302	Philadelphia International Airport	8000 Essington Ave 19153	Cage at Gold Lot Permit Parking Only	Wayne Darney	Transformer	2	N/A	1225	No	09/15/25	In Use
PCB-SW303	Philadelphia International Airport	8000 Essington Ave 19153	Orange Lot Permit Parking	Wayne Darney	Transformer	1	N/A	5422	No	09/15/25	In Use
PCB-SW304	Philadelphia International Airport	8000 Essington Ave 19153	Black Cage at Garage Toll Plaza	Wayne Darney	Transformer	1	N/A	2600	No	09/15/25	In Use
PCB-SW305	Philadelphia International Airport	8000 Essington Ave 19153	Substation BBC & EBBC	Wayne Darney	Transformer	4	<1	320	No	09/15/25	In Use

LocID	NAME:	ADDRESS:	LOCATION	CONTACT	EQUIPMENT	NUMBER	CONC (PPM)	GALLONS	LEAKS?	INSP DATE	STATUS
Receiving Plant: SWWPCP											
PCB-SW306	Philadelphia International Airport	8000 Essington Ave 19153	Cage at Economy Parking	Wayne Darney	Transformer	1	N/A	272	No	09/15/25	In Use
Receiving Plant: SWWPCP **Drainage Area: MS4** **Total Number of Inspections completed: 35**											
PCB-SW157	PECO	7200 Umbria St 19128	Roxborough station	Bryan Dwyer	Transformer	3	<50	N/A	Staining	06/25/25	In Use
PCB-SW220	Philadelphia Zoo	3400 W Girard Ave 19104	Reptile House	Matt Corcoran	Transformer	1	N./A	100	No	04/15/25	In Use
PCB-SW221	Philadelphia Zoo	3400 W Girard Ave 19104	Switch Gear 132	Matt Corcoran	Transformer	2	>50	100	Yes	04/15/25	In Use
PCB-SW222	Philadelphia Zoo	3400 W Girard Ave 19104	Solitude	Matt Corcoran	Transformer	1	N/A	100	No	04/15/25	In Use
PCB-SW258	Philadelphia Zoo	3400 W Grard Ave 19104	Balloon Plaza	Matt Corcoran	Transformer	2	N/A	100	No	04/15/25	In Use
PCB-SW260	Philadelphia Zoo	3400 W Girard Ave 19104	Pump Room-Bird Valley	matt Corcoran	Transformer	1	N/A	100	No	04/15/25	In Use
PCB-SW262	Philadelphia Zoo	3400 W Girard Ave 19104	Otters	Matt Corcoran	Transformer	1	N/A	100	No	04/15/25	In Use
PCB-SW263	Philadelphia Zoo	3400 W Girard Ave 19104	ISH #1- #2; North Gate Restroom Transformer	Matt Corcoran	Transformer	9	<50	100	No	04/15/25	In Use
PCB-SW264	Philadelphia Zoo	3400 W Girard Ave 19104	PECO Primate Area	Matt Corcoran	Other	14	N/A	60	No	04/15/25	In Use
Receiving Plant: SWWPCP **Drainage Area: Non-Contributing** **Total Number of Inspections completed: 9**											
PCB-SW206	Kenvue Brands LLC	7050 Camp Hill Rd 19034	Fire pump	Scott Kessler	Transformer	1	<50	1373	No	11/13/25	In Use
PCB-SW207	Kenvue Brands LLC	7050 Camp Hill Rd 19034	By child care center	Scott Kessler	Transformer	1	>50	221	No	10/02/25	In Use
PCB-SW208	Kenvue Brands LLC	7050 Camp Hill Rd 19034	WWTP	Scott Kessler	Transformer	1	>50	135	No	10/02/25	In Use
PCB-SW209	Kenvue Brands LLC	7050 Camp Hill Rd 19034	Adminstration B	Scott Kessler	Transformer	1	16	125	No	11/13/25	In Use
PCB-SW210	Kenvue Brands LLC	7050 Camp Hill Rd 19034	WTP	Scott Kessler	Transformer	1	<50	1373	No	11/13/25	In Use
PCB-SW211	Kenvue Brands LLC	7050 Camp Hill Rd 19034	Main B	Scott Kessler	Transformer	1	17	165	No	11/13/25	In Use
PCB-SW272	Inland Deicing Services	900 Tinicum Island Rd 19029	Outside	Paul Shubert	Transformer	5	N/A	N/A	No	10/01/25	In Use
Receiving Plant: SWWPCP **Drainage Area: Township** **Total Number of Inspections completed: 7**											

Receiving Plant: SWWPCP **Total Number of Inspections completed: 66**

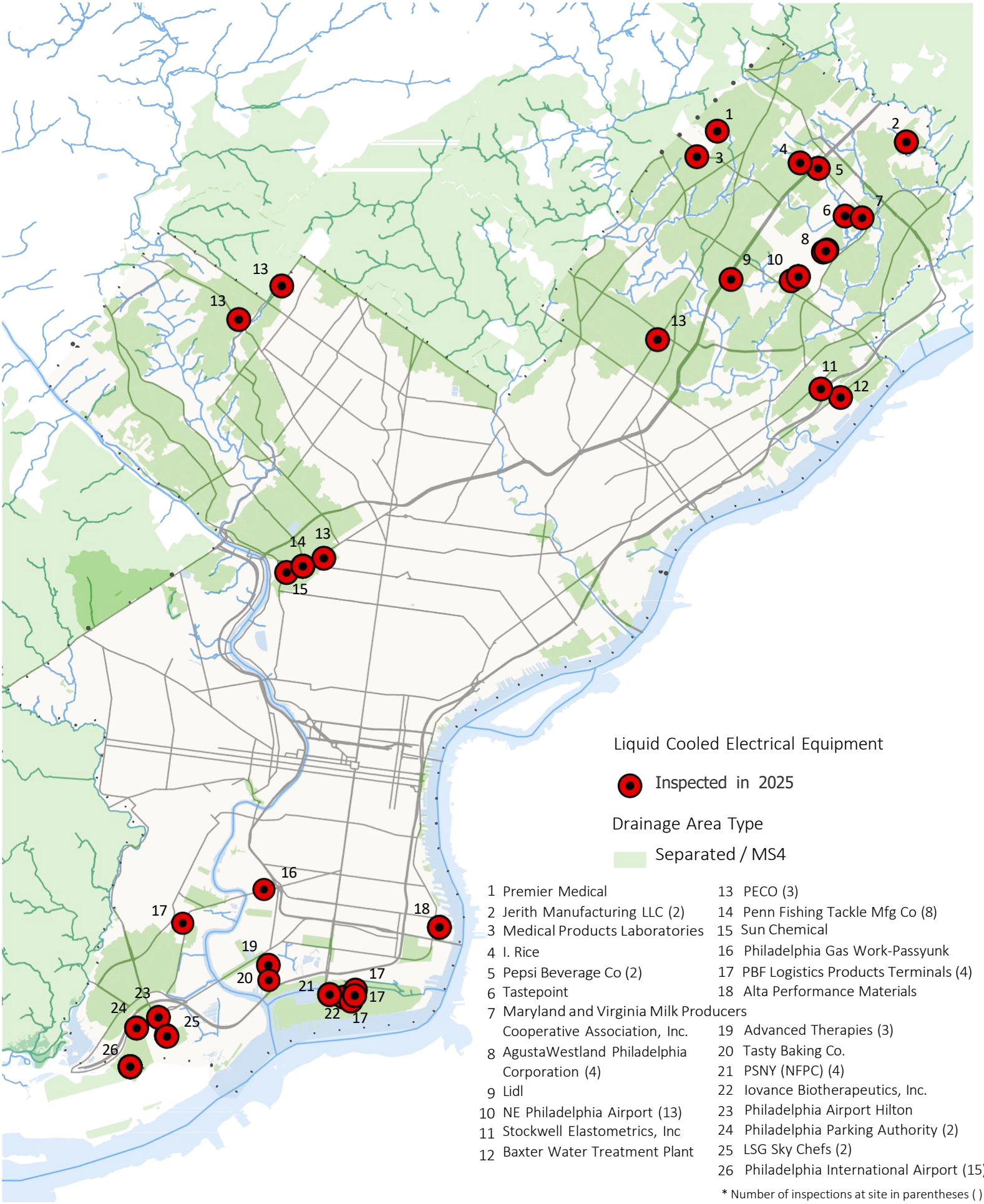
Total Inspections: 137



Liquid Cooled Electrical Equipment Sites Inspected in 2025

By Wastewater Treatment Area, Philadelphia, PA

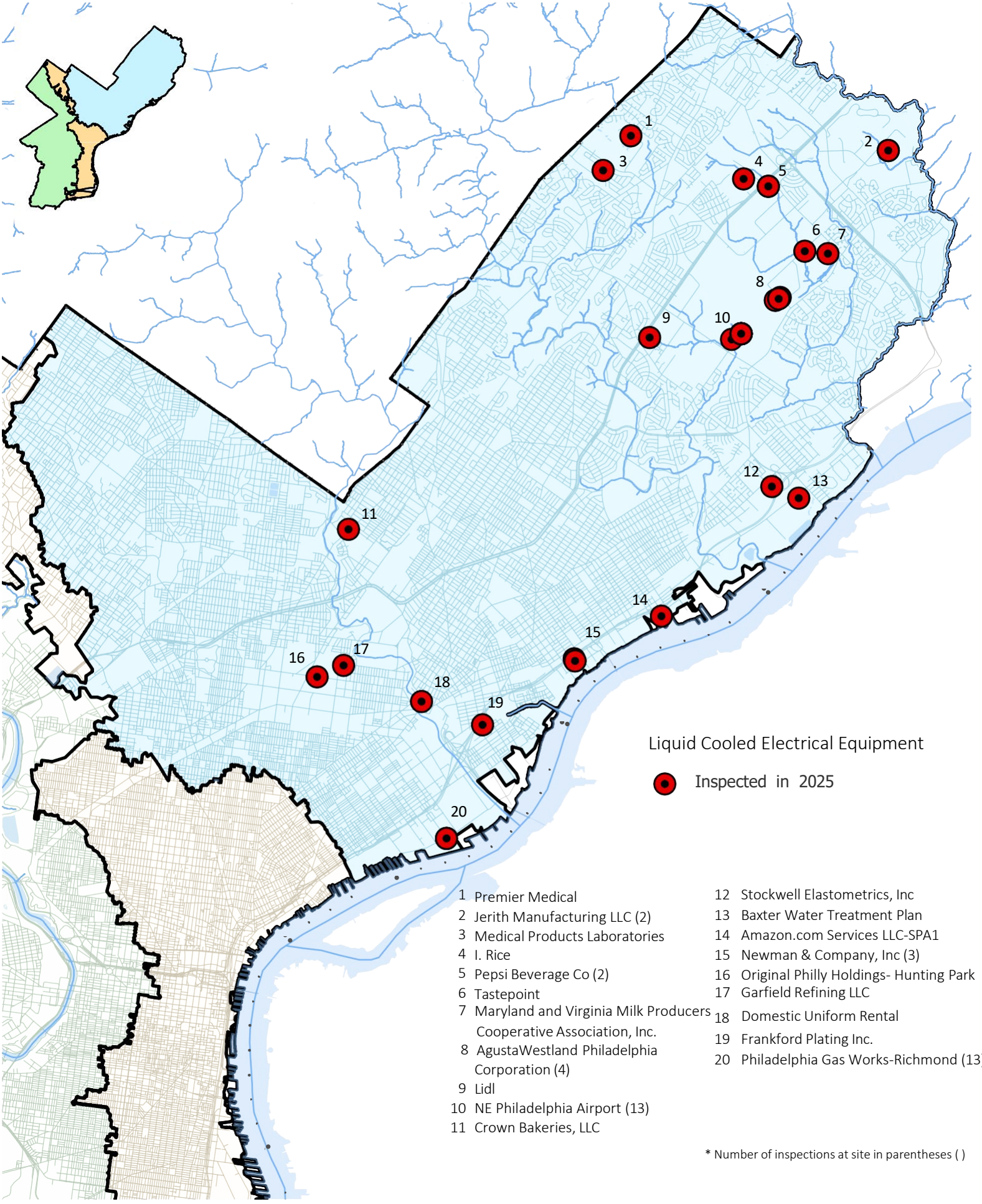
Source: Philadelphia Water Department, 2026
Created By: PWD GIS Unit, Feb 26th, 2026



Liquid Cooled Electrical Equipment Sites Inspected in 2025

In MS4 Areas, Philadelphia, PA

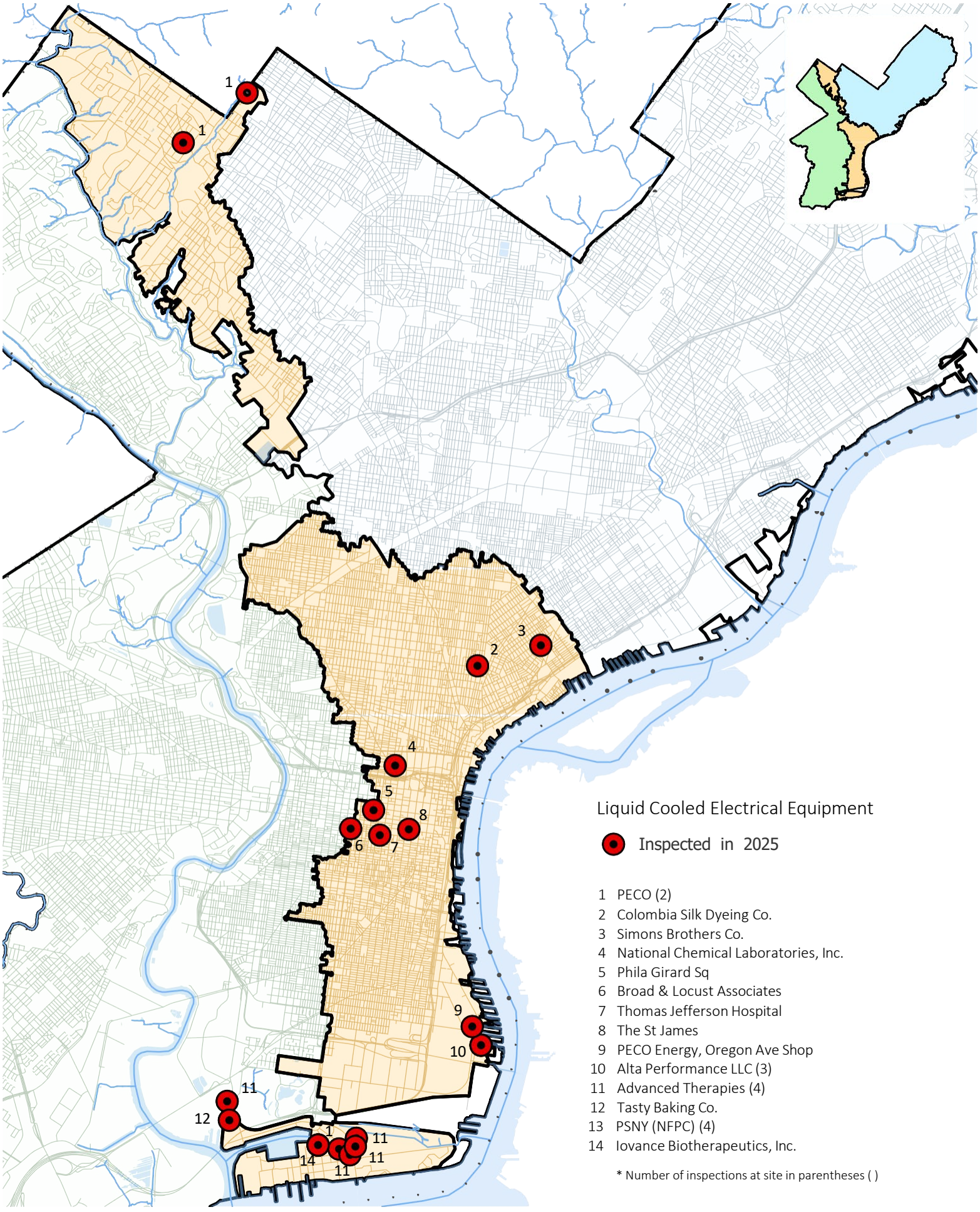
Source: Philadelphia Water Department, 2026
Created By: PWD GIS Unit, Feb 26th, 2026



Liquid Cooled Electrical Equipment Sites Inspected in 2025

Northeast Treatment Area, Philadelphia, PA

Source: Philadelphia Water Department, 2026
Created By: PWD GIS Unit, Feb 26th, 2026



Liquid Cooled Electrical Equipment

Inspected in 2025

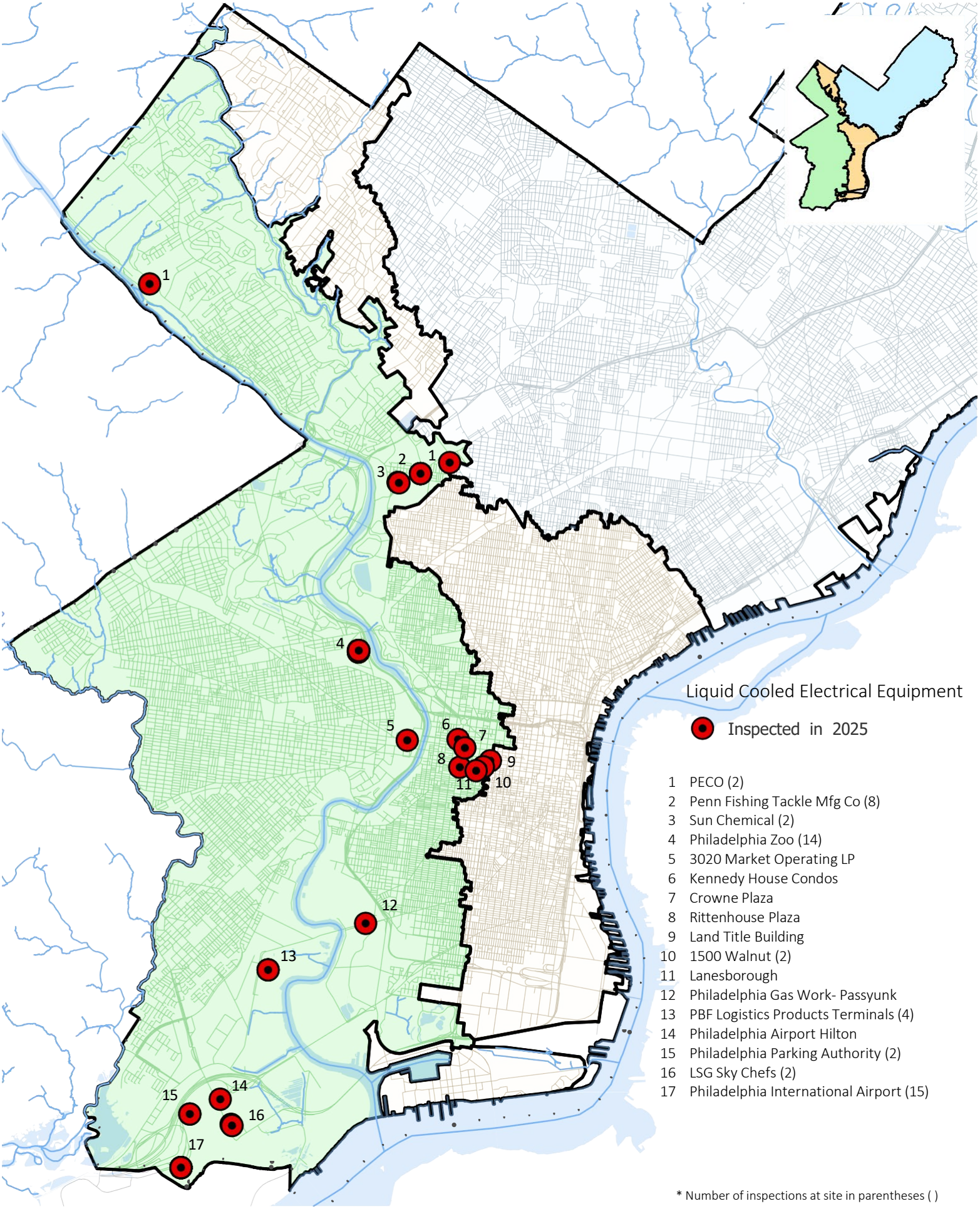
1 PECO (2)
2 Colombia Silk Dyeing Co.
3 Simons Brothers Co.
4 National Chemical Laboratories, Inc.
5 Phila Girard Sq
6 Broad & Locust Associates
7 Thomas Jefferson Hospital
8 The St James
9 PECO Energy, Oregon Ave Shop
10 Alta Performance LLC (3)
11 Advanced Therapies (4)
12 Tasty Baking Co.
13 PSNY (NFPC) (4)
14 Iovance Biotherapeutics, Inc.

* Number of inspections at site in parentheses ( )

Liquid Cooled Electrical Equipment Sites Inspected in 2025

Southeast Treatment Area, Philadelphia, PA

Source: Philadelphia Water Department, 2026
Created By: PWD GIS Unit, Feb 26th, 2026



Liquid Cooled Electrical Equipment Sites Inspected in 2025

Southwest Treatment Area, Philadelphia, PA

Source: Philadelphia Water Department, 2026
Created By: PWD GIS Unit, Feb 26th, 2026

Attachment C

Township Connection PCB Summary

Table C1: 2025 Township PCB Summary
PCB Homolog Concentration (µg/L)

Township Location ID	Sample Date	Parameter	Method	"< >"	Data Value	Units	Collection Method	Permittee
51ST & CITY LINE	10/18/2025	Decachlorobiphenyls	EPA 680	<	0.21	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Decachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Decachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Decachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Decachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Decachlorobiphenyls	EPA 680	<	0.53	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Decachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Decachlorobiphenyls	EPA 680	<	0.21	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Decachlorobiphenyls	EPA 680	<	0.22	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Decachlorobiphenyls	EPA 680	<	0.2	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Decachlorobiphenyls	EPA 680	<	0.2	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Decachlorobiphenyls	EPA 680	<	0.19	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Dichlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Dichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Dichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Dichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Dichlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Dichlorobiphenyls	EPA 680	<	0.11	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Dichlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Dichlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Dichlorobiphenyls	EPA 680	<	0.022	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Dichlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Dichlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Dichlorobiphenyls	EPA 680	<	0.019	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Heptachlorobiphenyls	EPA 680	<	0.042	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Heptachlorobiphenyls	EPA 680	<	0.041	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Heptachlorobiphenyls	EPA 680	<	0.041	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Heptachlorobiphenyls	EPA 680	<	0.04	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Heptachlorobiphenyls	EPA 680	<	0.042	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Heptachlorobiphenyls	EPA 680	<	0.32	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Heptachlorobiphenyls	EPA 680	<	0.042	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Heptachlorobiphenyls	EPA 680	<	0.041	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Heptachlorobiphenyls	EPA 680	<	0.043	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Heptachlorobiphenyls	EPA 680	<	0.04	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Heptachlorobiphenyls	EPA 680	<	0.04	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Heptachlorobiphenyls	EPA 680	<	0.039	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Hexachlorobiphenyls	EPA 680	<	0.032	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Hexachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Hexachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Hexachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Hexachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Hexachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion

Table C1: 2025 Township PCB Summary
PCB Homolog Concentration (µg/L)

Township Location ID	Sample Date	Parameter	Method	"< >"	Data Value	Units	Collection Method	Permittee
73RD & CITY LINE	10/8/2025	Hexachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Hexachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Hexachlorobiphenyls	EPA 680	<	0.033	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Hexachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Hexachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Hexachlorobiphenyls	EPA 680	<	0.029	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Monochlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Monochlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Monochlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Monochlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Monochlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Monochlorobiphenyls	EPA 680	<	0.11	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Monochlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Monochlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Monochlorobiphenyls	EPA 680	<	0.022	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Monochlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Monochlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Monochlorobiphenyls	EPA 680	<	0.019	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Nonachlorobiphenyls	EPA 680	<	0.21	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Nonachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Nonachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Nonachlorobiphenyls	EPA 680	<	0.2	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Nonachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Nonachlorobiphenyls	EPA 680	<	0.53	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Nonachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Nonachlorobiphenyls	EPA 680	<	0.21	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Nonachlorobiphenyls	EPA 680	<	0.22	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Nonachlorobiphenyls	EPA 680	<	0.2	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Nonachlorobiphenyls	EPA 680	<	0.2	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Nonachlorobiphenyls	EPA 680	<	0.19	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Octachlorobiphenyls	EPA 680	<	0.053	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Octachlorobiphenyls	EPA 680	<	0.051	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Octachlorobiphenyls	EPA 680	<	0.051	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Octachlorobiphenyls	EPA 680	<	0.05	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Octachlorobiphenyls	EPA 680	<	0.053	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Octachlorobiphenyls	EPA 680	<	0.32	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Octachlorobiphenyls	EPA 680	<	0.053	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Octachlorobiphenyls	EPA 680	<	0.052	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Octachlorobiphenyls	EPA 680	<	0.054	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Octachlorobiphenyls	EPA 680	<	0.05	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Octachlorobiphenyls	EPA 680	<	0.05	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Octachlorobiphenyls	EPA 680	<	0.049	ug/L	Composite -24hr	Lower Merion

Table C1: 2025 Township PCB Summary
PCB Homolog Concentration (µg/L)

Township Location ID	Sample Date	Parameter	Method	"< >"	Data Value	Units	Collection Method	Permittee
51ST & CITY LINE	10/18/2025	Pentachlorobiphenyls	EPA 680	<	0.032	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Pentachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Pentachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Pentachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Pentachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Pentachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Pentachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Pentachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Pentachlorobiphenyls	EPA 680	<	0.033	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Pentachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Pentachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Pentachlorobiphenyls	EPA 680	<	0.029	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Tetrachlorobiphenyls	EPA 680	<	0.032	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Tetrachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Tetrachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Tetrachlorobiphenyls	EPA 680	<	0.03	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Tetrachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Tetrachlorobiphenyls	EPA 680	<	0.21	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Tetrachlorobiphenyls	EPA 680	<	0.032	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Tetrachlorobiphenyls	EPA 680	<	0.031	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Tetrachlorobiphenyls	EPA 680	<	0.033	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Tetrachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Tetrachlorobiphenyls	EPA 680	<	0.03	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Tetrachlorobiphenyls	EPA 680	<	0.029	ug/L	Composite -24hr	Lower Merion
51ST & CITY LINE	10/18/2025	Trichlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
51ST & CITY LINE	10/22/2025	Trichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/18/2025	Trichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
59TH & CITY LINE	10/22/2025	Trichlorobiphenyls	EPA 680	<	0.02	ug/L	Grab	Lower Merion
63RD & CITY LINE	10/6/2025	Trichlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
66TH & CITY LINE	10/7/2025	Trichlorobiphenyls	EPA 680	<	0.11	ug/L	Composite -24hr	Lower Merion
73RD & CITY LINE	10/8/2025	Trichlorobiphenyls	EPA 680	<	0.021	ug/L	Composite -24hr	Lower Merion
CARDINAL	10/18/2025	Trichlorobiphenyls	EPA 680	<	0.021	ug/L	Grab	Lower Merion
CARDINAL	10/23/2025	Trichlorobiphenyls	EPA 680	<	0.022	ug/L	Composite -24hr	Lower Merion
CONSHOHOCKEN	9/23/2025	Trichlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
PRESIDENTIAL & CITY LINE	9/24/2025	Trichlorobiphenyls	EPA 680	<	0.02	ug/L	Composite -24hr	Lower Merion
RIGHTERS FERRY	9/25/2025	Trichlorobiphenyls	EPA 680	<	0.019	ug/L	Composite -24hr	Lower Merion

Appendix F – PWD Quarterly Dry Weather Water Quality Monitoring Program

Background

In 2009, the Philadelphia Water Department (PWD) initiated a dry weather water quality sampling program designed to work in tandem with the continuous data collection efforts of the PWD/USGS Cooperative Continuous Water Quality Monitoring Program. Grab samples are collected from 10 sites covering all six of Philadelphia County's watersheds on a quarterly basis by the staff of PWD's Bureau of Laboratory Services (BLS). Data collected through this program are most pertinent to Target A (Dry Weather Water Quality & Aesthetics) of PWD's Integrated Watershed Management Plan (IWMP) Strategy, as outlined in the following section.

The IWMP Target Strategy

IWMPs are designed to meet the goals and objectives of numerous water resources-related regulations and programs. Each IWMP results in a series of implementation recommendations that utilize adaptive management approaches to achieve measurable, watershed-wide benefits. By working with stakeholder groups to prioritize goals and evaluate options, PWD has learned that stakeholder priorities can at times differ from those identified by the data-driven problem identification process. This can present challenges in development and approval of a management alternative for watershed implementation. PWD has developed an approach that addresses what often emerges as a set of high-priority stakeholder concerns while simultaneously addressing the scientifically defined priorities.

By defining three distinct targets to meet the overall plan objectives, priorities identified by stakeholders can be addressed simultaneously with those identified through scientific data. Two of the targets were defined so they could be fully met through implementation of a limited set of options, while the third target would be best addressed through an adaptive management approach. In addition to the three targets, a fourth category has been developed to capture the more programmatic implementation options related to planning, outreach, reporting and continuation of the Watershed Partnership.

Targets are defined here as groups of objectives that each focus on a different problem related to the urban stream system. They can be thought of as different parts of the ultimate goal of fishable and swimmable waters through improved water quality, more natural flow patterns and restored aquatic and riparian habitat. Targets are specifically designed to help focus plan implementation. By defining these targets and designing alternatives and an implementation plan to address the targets simultaneously, the plan will have a greater likelihood of success. It also achieves some of the objectives within a relatively short time frame, providing incentives to the communities and agencies involved in the restoration, as

3 Targets of the IWMP

- Aesthetically appealing, accessible streams during dry weather
- Improved stream habitat for fish and macroinvertebrates
- Wet weather water quality that meets fishable and swimmable criteria

well as immediate benefits to the people living in the watershed. PWD's IWMP planning targets are defined below:

Program Support

A number of implementation options deemed appropriate for a given watershed are "programmatic" in nature. While these options may support achievement of Targets A, B, and/or C, implementation of these options alone would not result in achievement of a particular target. These "Program Support" associated options include items such as monitoring, reporting, feasibility studies, outreach/education, and continuation of the Watershed Partnership.

Target A: Dry Weather Water Quality and Aesthetics

Streams should be aesthetically appealing (look and smell good), accessible to the public, and an amenity to the community. Target A was defined with a focus on eliminating sources of sewage discharge and other pollution during dry weather, along with trash removal and litter prevention. Access and interaction with the stream during dry weather has the highest priority, because dry weather flows occur about 60-65% of the time during the course of a year. These are also times when the public is most likely to be near or in contact with the stream. In dry weather, stream water quality should be similar to background concentrations in groundwater, particularly with respect to bacteria.

Target B: Healthy Living Resources

Improvements to the number, health, and diversity of benthic macroinvertebrate and fish species need to focus on habitat improvement and the creation of refuges for organisms to avoid high velocities during storms. Fluvial geomorphological studies, wetland and streambank restoration/creation projects, and stream modeling should be combined with continued biological monitoring to ensure that correct procedures are implemented to increase habitat heterogeneity within the aquatic ecosystem.



Figure 1. Eroded stream bank at Poquessing Creek

Improving the ability of an urban stream to support viable habitat and fish populations focuses primarily on the elimination or remediation of the more obvious impacts of urbanization on the stream. These include loss of riparian habitat, eroding and undercut banks, scoured streambed or excessive sediment deposits, channelized and armored stream sections, trash buildup, and invasive species. Thus, the primary tool to accomplish Target B is stream restoration.

Target C: Wet Weather Water Quality and Quantity

The third target is to restore water quality to meet fishable and swimmable criteria during wet weather. Improving water quality and flow conditions during and after storms is the most difficult target to meet in the urban environment. During wet weather, extreme increases in streamflow are common, accompanied by short-term changes in water quality. Where water quality and quantity problems exist, options may be identified that address both. Any stormwater management practice that increases infiltration or detains flow will help decrease the frequency of damaging floods; however, the size of such structures may need to be increased in areas where flooding is a major concern. (Reductions in the frequency of erosive flows and velocities will also help protect the investment in stream restoration made as part of Target B.)

Target C must be approached somewhat differently from Targets A and B. Full achievement of this target means meeting all water quality standards during wet weather, as well as elimination of flood-related issues. Meeting these goals will be difficult. It will be expensive and requires a long-term effort. A rational approach to achieve this target includes stepped implementation with interim goals for reducing wet weather pollutant loads and stormwater flows, along with monitoring for the efficacy of control measures.

Monitoring Locations

Water quality samples are taken at 10 USGS gage sites in the USGS/PWD Cooperative Monitoring Program (Figure 2). Site identification codes used by PWD's Bureau of Laboratory Services (BLS) and rivermile-based site ID codes are presented alongside USGS gage station numbers in Table 1. USGS stream gaging stations are ideal monitoring points as they allow discrete sample data to be coupled with continuous discharge data being collected year-round at these sites for loading estimate purposes. Furthermore, grab sample results and field meter readings taken at the time of grab sampling may be invaluable when evaluating continuous water quality data from these USGS gages.

Table 1. Monitoring Locations in the PWD/USGS Cooperative Program

Description	USGS Gage #
Cobbs Creek at US Rte. 1 (City Line Ave.)	01475530
Cobbs Creek at Mt. Moriah Cemetery	01475548
Schuylkill River at Fairmount Dam	01474500
Wissahickon Creek at Ft Washington (Rte. 73)	01473900
Wissahickon Creek at Ridge Ave.	01474000
Tacony Creek at Castor Ave.	01467087
Tacony Creek at Adams Ave.	01467086
Pennypack Creek at Pine Rd.	01467042
Pennypack Creek at Rhawn St.	01467048
Poquessing Creek at Grant Ave.	01465798

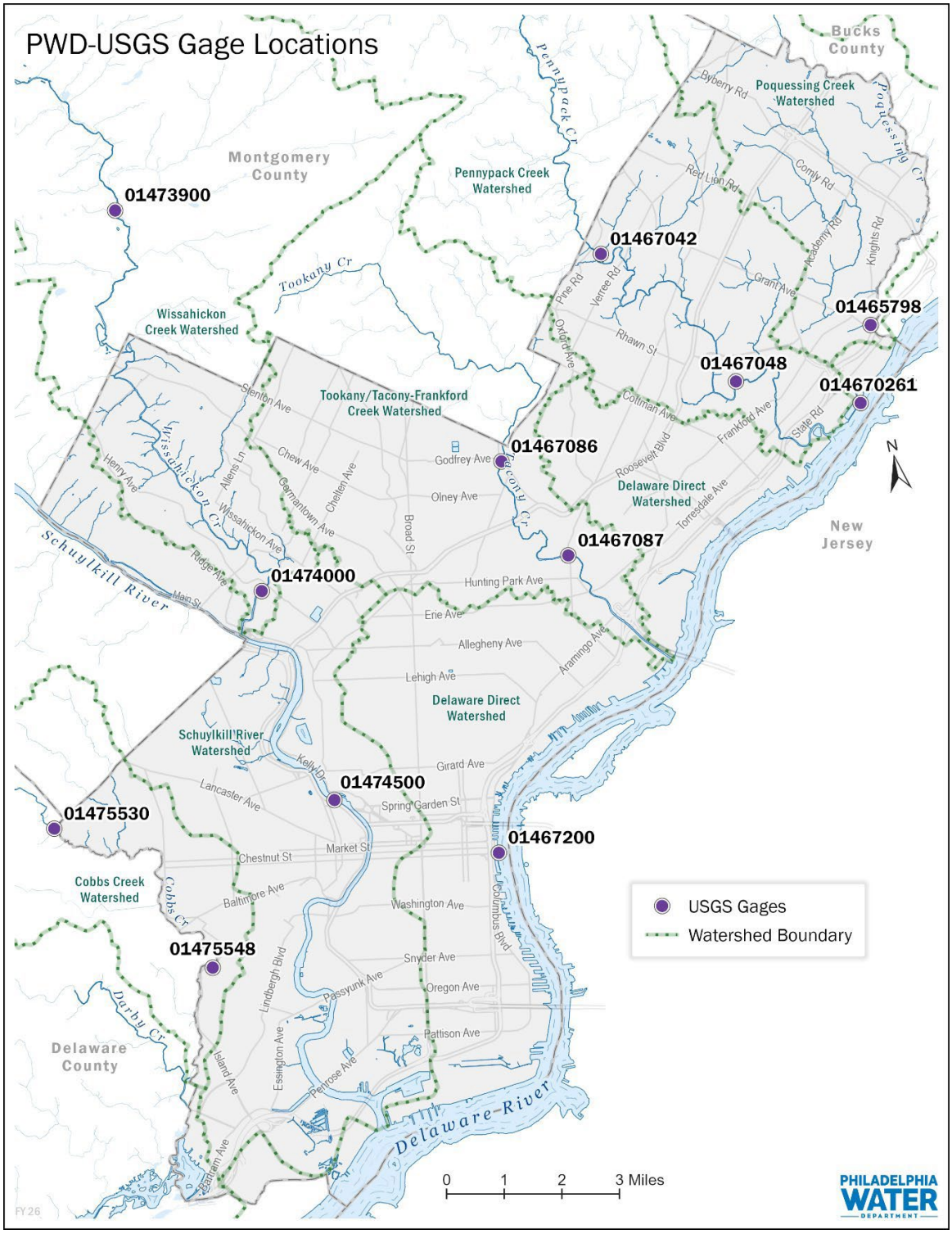


Figure 2. Philadelphia Water Quality Gage Stations

Quarterly Dry Weather Monitoring July 2009 – June 2026

Sample Collection Dates

This report summarizes cumulative results from 67 sets of quarterly grab samples that were collected from June 2009 through June 2026. Samples were categorized by season (winter, spring, summer, fall) as well as according to PA DEP seasonal recreational use water quality criteria for interpretation of microbial sample results (Non-Swimming season or Swimming season) (Table 2).

Table 2. Annual counts of quarterly dry weather sampling events

Sample Year	# of Annual Sampling events	Recreational Use Season		Season			
		Non-Swimming	Swimming	**Winter**	**Spring**	**Summer**	**Fall**
2009	3	2	1	1	0	1	1
2010	4	2	2	1	1	1	1
2011	4	2	2	1	1	1	1
2012	3	1	2	0	1	1	1
2013	4	2	2	1	1	1	1
2014	5	3	2	2	1	1	1
2015	3	2	1	0	1	1	1
2016	4	2	2	1	1	1	1
2017	5	2	3	1	1	1	2
2018	4	2	2	1	1	1	1
2019	4	3	1	1	1	1	1
2020	4	3	1	2	0	1	1
2021	4	3	1	1	1	1	1
2022	2	1	1	0	1	1	0
2023	4	2	2	1	1	1	1
2024	4	3	1	1	1	1	1
2025	4	3	1	2	1	1	0
2026	2	1	1	0	2	0	0
Total	67	39	28	17	17	17	16

Nutrient Analysis

The macronutrients phosphorus and nitrogen are essential to the growth and overall survival of all plants. However, when occurring in surplus they can be extremely detrimental to aquatic ecosystems, and in turn to the human population that utilizes these water bodies for drinking water and recreational activities such as fishing, boating, and swimming. Elevated nutrient concentrations in rivers and streams can most often be attributed to anthropogenic pollution sources. In these situations, the most common sources of both nutrients are runoff from fertilized lawns/farmland and wastewater discharge.

The most immediate result of excessive nutrient concentrations in any natural water body is excessive plant growth, seen in a variety of growth forms from suspended algae to aquatic macrophytes. As the first step in the process of eutrophication, this unnatural acceleration of aquatic plant growth can start a chain reaction leading to highly adverse effects to that ecosystem. For example, in small shallow streams, unnaturally high densities of algal periphyton can cause pronounced fluctuations in dissolved oxygen and pH and also adversely affect aquatic habitat by forming thick mats of filamentous algae or algal scums on stream substrates. Moreover, alteration of the algal community structure can lead to the proliferation of nuisance taxa, taste and odor problems in the drinking water supply, increased water treatment costs and, in rare cases, production of toxins (*e.g.*, from cyanobacteria blooms). As a result of these direct and indirect responses, streams and rivers can suffer severe impacts to both aquatic biodiversity and human recreational use.

It should be noted that several phosphorus-containing compounds, known as polyphosphates, can be found in the region's waterways, but they are naturally occurring and are present due to the geologic composition of the area. Furthermore, these polyphosphates pose little ecological threat as they are not present in a biologically available form. Only over long periods of time can these compounds be broken down into orthophosphates, which plants and algae can absorb and utilize for growth. Therefore, aside from the relatively minor contributions of the region's geology, the most significant source of orthophosphates in rivers and streams is human-generated pollution. It is for this reason that orthophosphates, along with nitrates, are included as components of this water quality monitoring program. These forms of N and P are readily available to stream producers.

Ammonia, present in surface waters as un-ionized ammonia gas (NH_3) or as ammonium ion (NH_4^+), is produced by deamination of organic nitrogen-containing compounds such as proteins, and also by hydrolysis of urea. In the presence of oxygen, ammonia is converted to nitrate (NO_3^-) by a pair of bacteria-mediated reactions, together known as the process of nitrification. Nitrification occurs quickly in oxygenated waters with sufficient densities of nitrifying bacteria, effectively reducing ammonia concentration, although at the expense of increased NO_3^- concentration. Ammonia is a primary form of nitrogen produced from excretory waste products and other organic material in sewage. Thus, presence of ammonia can be an indicator of sewage pollution. As ammonia is converted to nitrate in oxygenated streams, ammonia is a non-conservative pollution indicator that tends to decrease in concentration with increasing distance from the source of pollution. PA DEP water quality criteria for NH_3 reflect the relationship between stream pH, temperature, and ammonia dissociation. Ammonia toxicity is inversely related to hydrogen ion [H^+] concentration (*e.g.*, an increase in pH from 7 to 8 increases NH_3 toxicity by

approximately an order of magnitude). At pH 9.5 and above, even background concentrations of NH_3 may be considered potentially toxic.

Ammonia may be introduced to streams through fertilizers, breakdown of natural organic material, stables and livestock operations, stormwater runoff, and in some cases from more serious anthropogenic sources of untreated sewage such as defective laterals, crossed/illicit connections, and sanitary sewer overflows (SSOs). PWD has established intensive field infrastructure trackdown, infrared photography, sewer camera monitoring, and dye testing programs to identify and correct these problems where and when they occur.

Nutrient Results

Nutrient data collected thus far at each of the sites are generally consistent with the data collected for Comprehensive Characterization Reports (CCRs) prepared for each of the respective watersheds. Five of 10 sites are not affected by treated wastewater discharges and usually had orthophosphate concentration less than the reporting limit. The reporting limit for the majority of samples was 0.028 mg/L, but limits of 0.1 mg/L, 0.05 mg/L, and 0.09 mg/L were also in effect at various times during the quarterly grab sampling program (Table 3). Conversely, Pennypack and Wissahickon creeks had multiple instances of elevated orthophosphate concentration, which is likely attributable to point source discharge of treated wastewater. Dilution effects were seen between upstream and downstream gages, particularly in the cases of Pennypack and Wissahickon creeks.

Though the Schuylkill River sampling station is downstream from several discharges of treated wastewater, nutrient concentrations are generally smaller than those observed from the Pennypack and Wissahickon creeks, perhaps reflecting the Schuylkill station's much larger overall watershed size and dilution capacity.

Table 3. Orthophosphate Summary Statistics (Concentrations in mg/L)

Gage	Mean	Median	Std. dev.	Min.	Max.	n	n, non-detects	Greater than Ref. Value	Ref. Value Comparison Limited	Evaluation
01465798	0.049	0.050	0.030	0.009	0.164	66	43	13	40	Needs more evaluation
01467042	0.311	0.254	0.188	0.099	0.953	65	0	64	0	> Ref. Value
01467048	0.220	0.177	0.142	0.053	0.852	66	0	66	0	> Ref. Value
01467086	0.051	0.050	0.049	0	0.363	66	39	11	36	Needs more evaluation
01467087	0.056	0.050	0.035	0.006	0.201	66	33	22	33	Needs more evaluation
01473900	0.319	0.277	0.153	0.050	0.739	66	1	65	1	> Ref. Value
01474000	0.177	0.166	0.068	0.050	0.457	66	3	63	3	> Ref. Value
01474500	0.159	0.130	0.094	0.050	0.477	66	5	61	5	> Ref. Value
01475530	0.049	0.050	0.031	0.007	0.165	66	41	13	39	Needs more evaluation
01475548	0.052	0.050	0.034	0	0.188	65	40	13	38	Needs more evaluation

Summary statistics for the orthophosphate samples, including results from the application of the PA DEP Chemistry Statistical Assessments protocol (PA DEP, 2007), are shown in Table 3. Samples were evaluated relative to the US EPA (2000) Subecoregion 64 guideline for orthophosphate of 0.02625 mg/L, *i.e.*, the median of the 25th percentile seasonal concentrations. Since the detection limit in past analyses has often been greater than the guideline, many non-detected samples could not be compared to US EPA's reference values ('Ref. Value Comparison Limited). The nonparametric statistical evaluation results show that the locations at Pennypack and Wissahickon creeks, and the Schuylkill River, failed to attain water quality consistent with this guideline. The other locations are classified as needing further evaluation due to the predominance of samples below the detection limit that could not be compared to the reference value. Figure 3 shows the variability of orthophosphate results at each site.

Similar examples of wastewater discharge impacts and upstream/downstream dilution have also begun to emerge with regard to the nitrate data that have been collected. The data seem to indicate a trend toward decreased nitrate concentrations during warmer months, which would correspond to the increased uptake of nutrients by plant life during those growing seasons. The only exceptions are the Pennypack and Wissahickon Creek gage sites, which as previously stated are directly impacted by treated wastewater discharge.

Summary statistics for the nitrate samples, including results from application of the PA DEP Chemistry Statistical Assessment protocol (PA DEP, 2007), are shown in Table 4 and Figure 4. Exceedances were evaluated relative to a) the PA DEP water quality value for nitrite and nitrate of 10 mg/L, and b) the US EPA (2000) subecoregion 64 guideline for nitrite and nitrate of 0.995 mg/L, *i.e.*, the median of the 25th percentile seasonal concentrations. The nonparametric statistical evaluation results show that with respect to the PA DEP value, all locations were in attainment except the upstream Wissahickon gage. Two exceedances have been observed at that site, and more data is needed to make an evaluation. All sites failed to attain water quality consistent with the US EPA subecoregion-based guideline.

Quarterly dry-weather analysis of ammonia began in the fall of 2011. PWD laboratory reporting limits for ammonia fluctuated based on the performance of lab analytical equipment with spiked and blank samples. Ammonia concentration detection limits were 0.5 mg/L for the fall 2011 sample set, and the subsequent sample set results usually had detection limits of 0.1 mg/L or 0.167 mg/L. The downstream Tacony site (01467087) most often exceeded the detection limit, where a maximum concentration of 0.4 mg/L was observed in both fall 2014 and summer 2015. Results are shown in Table 5 and Figure 5.

There were no observed violations of ammonia water quality criteria at any site during this period of dry-weather monitoring. With a majority of the sample results characterized as non-detects due to laboratory reporting limits, ammonia criteria were calculated with corresponding temperature and pH values to determine if possible exceedances existed (i.e., the criteria fell below the detection limit). None of the non-detect samples had the potential to violate water quality criteria.

Table 4. Nitrate Summary Statistics and Evaluations. Concentrations are in mg/L.

Gage	Mean	Median	Std. dev.	Min.	Max.	n	n, non-detects	Greater than PADEP value	Greater than Subecoregion value	PADEP Evaluation	EPA Subecoregion Evaluation
01465798	1.66	1.67	0.54	0.68	3.75	65	0	0	59	< Ref. Value	> Ref. Value
01467042	4.50	4.19	0.93	2.91	7.94	62	0	0	61	< Ref. Value	> Ref. Value
01467048	3.63	3.54	0.93	1.21	6.33	64	0	0	63	< Ref. Value	> Ref. Value
01467086	2.41	2.23	1.05	1.43	9.74	65	0	0	63	< Ref. Value	> Ref. Value
01467087	1.78	1.77	0.66	0.50	3.37	65	0	0	55	< Ref. Value	> Ref. Value
01473900	6.28	6.03	2.17	2.69	12.04	63	0	6	62	> Ref. Value	> Ref. Value
01474000	4.12	4.00	1.07	1.29	7.60	64	0	0	64	< Ref. Value	> Ref. Value
01474500	3.01	2.92	0.48	2.14	4.30	65	0	0	65	< Ref. Value	> Ref. Value
01475530	2.90	2.91	0.45	1.87	4.45	65	0	0	65	< Ref. Value	> Ref. Value
01475548	2.43	2.44	0.55	1.40	3.50	64	0	0	64	< Ref. Value	> Ref. Value

Table 5. Ammonia Summary Statistics and Evaluations. Concentrations are in mg/L

Gage	Mean	Median	Std. dev.	Min.	Max.	n	n, non-detects	Above Ref. Value
01465798	0.145	0.103	0.097	0.025	0.500	56	45	0
01467042	0.158	0.100	0.119	0.022	0.557	56	45	0
01467048	0.157	0.100	0.126	0.022	0.728	56	46	0
01467086	0.146	0.100	0.100	0.020	0.500	56	48	0
01467087	0.179	0.167	0.108	0.028	0.521	56	30	0
01473900	0.149	0.100	0.103	0.023	0.500	56	47	0
01474000	0.142	0.100	0.097	0.024	0.500	56	50	0
01474500	0.157	0.115	0.103	0.026	0.500	56	42	0
01475530	0.142	0.100	0.098	0.023	0.500	56	50	0
01475548	0.144	0.100	0.101	0.022	0.500	55	45	0

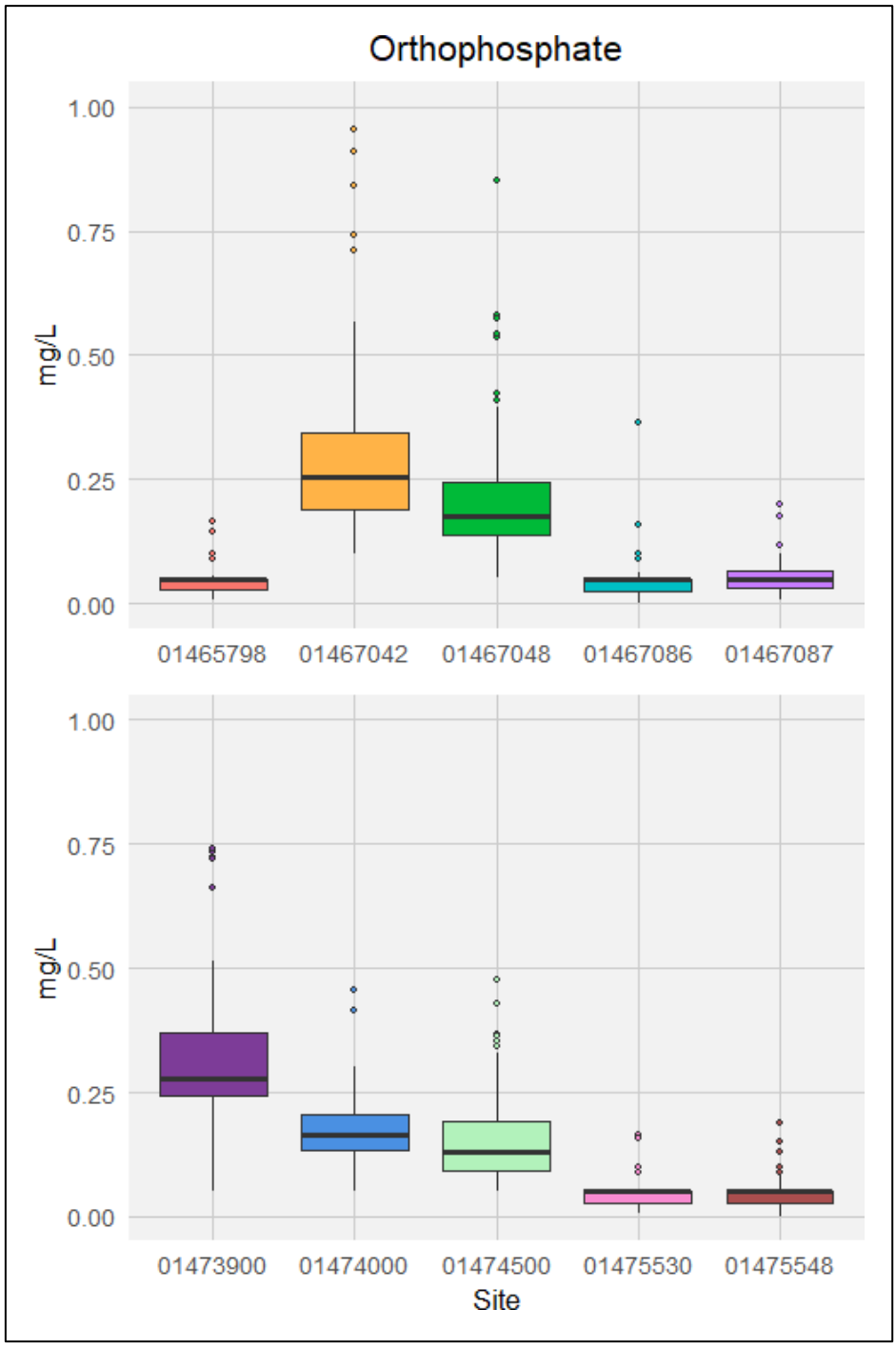


Figure 1. Orthophosphate concentration at USGS gage stations, July 2009-June 2026

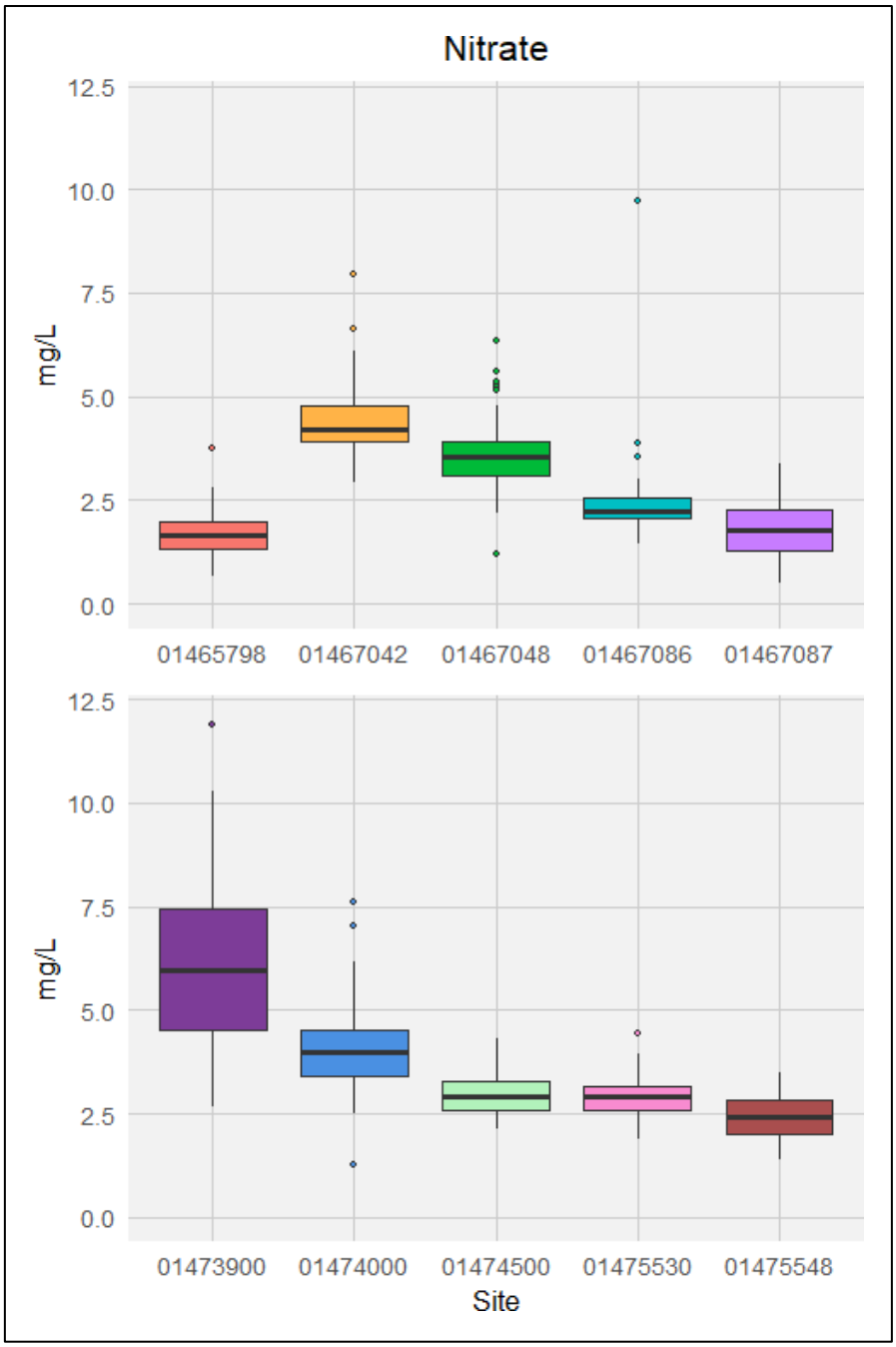


Figure 4. Nitrate concentration at USGS gage stations, July 2009-June 2026

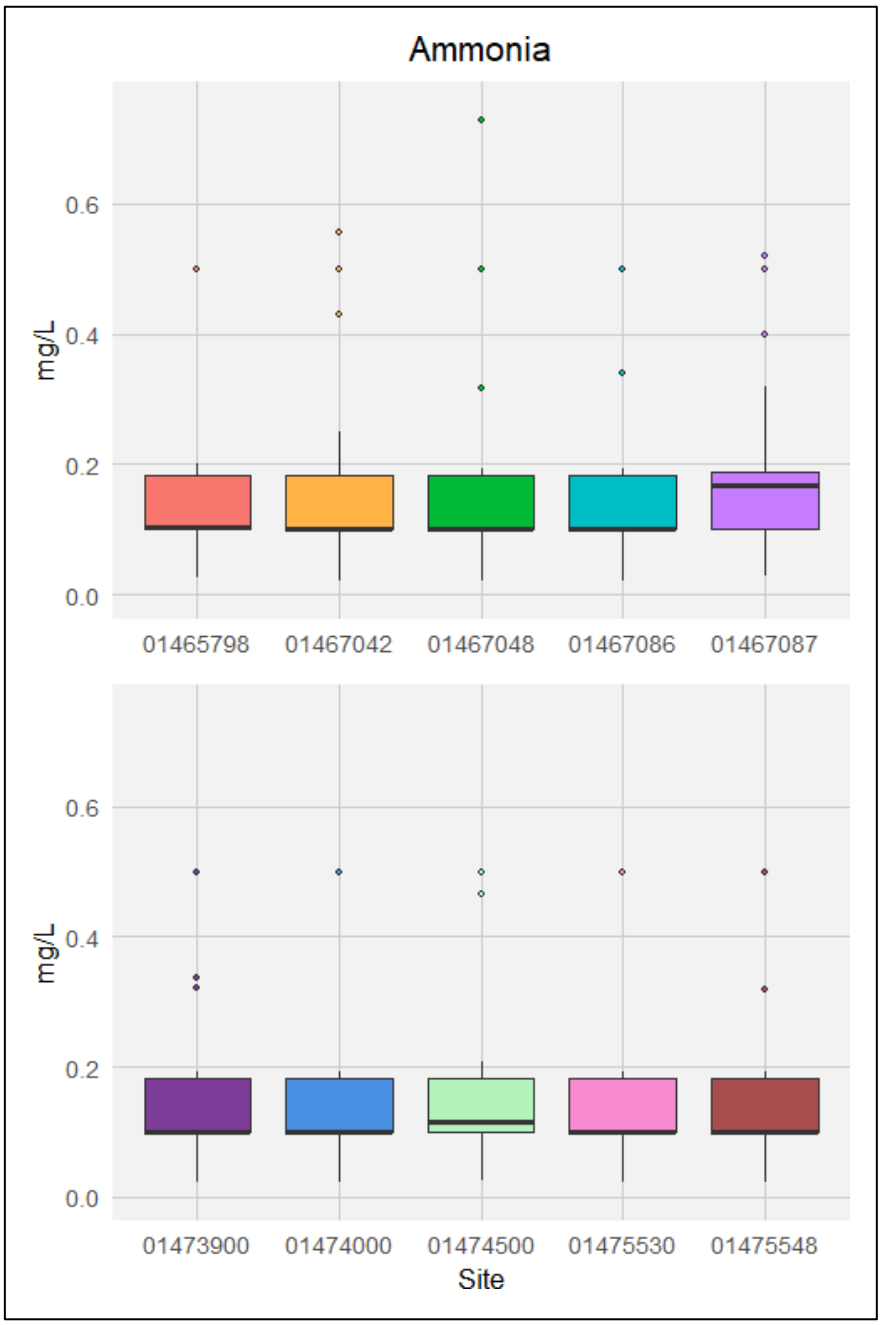


Figure 5. Ammonia concentration at USGS gage stations, September 2011-June 2026

Microbial Analysis

Fecal indicator bacteria, found naturally in the gut of warm-blooded animals, can be used in the detection of human or animal waste contamination in a body of water. While these bacteria themselves are generally harmless to humans, they are considered to be very reliable indicators of the presence of other, more serious fecal-borne pathogens such as viruses, protozoa and other bacteria. The extent to which a water body is contaminated with fecal indicator bacteria can indicate the likelihood that the water has been contaminated by human or animal wastes. In urban environments, the most likely dry weather pollution sources are domestic animals, wildlife and untreated sewage from improperly connected or leaking sanitary sewers.

PWD performs fecal indicator bacteria tests for fecal coliform and *E. coli*. The fecal coliform test covers a relatively wide subgroup of fecal-specific bacteria; however, it does include some species that are not necessarily fecal in origin. *E. coli*, on the other hand, is a single coliform species that is noteworthy due to the fact that it occurs only in the fecal matter of humans and other warm-blooded animals.

Microbial Analysis Results

PA DEP has established seasonal bacteria water quality criteria that are more stringent in warmer months, or the "swimming season." PWD does not typically collect a sufficient number of *E. coli* samples at USGS gage sites within a 30-day period to assess whether recreational water quality values are attained. PWD's dry weather sampling program is designed to collect representative seasonal samples to monitor dry weather bacteria trends as water pollution control programs are implemented over time. Summary Tables 6-9 present the cumulative geometric mean of quarterly grab samples for the swimming and non-swimming seasons compared to reference values when applicable. Results of microbial analyses from the swimming season samples generally indicate *E. coli* cumulative geometric means greater than 126 CFU/100mL (Table 6). The only exceptions were the downstream Wissahickon Creek and Schuylkill River gage sites, which each had *E. coli* cumulative geometric means less than 126 CFU/100mL. Figures 6-8 show the variability of *E. coli* results at each site.

During the non-swimming season, less stringent water quality criteria based on fecal coliforms apply. The maximum fecal coliform level during the non-swimming season is a geometric mean of 2,000 CFU per 100 mL. Cumulative fecal coliform geometric means for all sampled USGS gage sites were less than the 2000 CFU/100mL reference value during the non-swimming season (Table 9). Figures 9-11 show the variability of fecal coliform results at each site.

Table 6. Cumulative *E. coli* Geometric Mean Results and PA DEP Swimming Season Water Quality Recreational Use Reference Value

Gage	n	n, non-detects	Geometric mean (CFU/100 mL)	Below Ref. Value
01465798	27	0	435	No
01467042	27	0	316	No
01467048	27	0	687	No
01467086	27	0	663	No
01467087	27	0	487	No
01473900	27	0	270	No
01474000	27	0	100	Yes
01474500	27	2	40	Yes
01475530	27	0	269	No
01475548	26	0	637	No

Table 7. Cumulative *E. coli* Geometric Mean Results During Non-Swimming Season

Gage	n	n, non-detects	Geometric mean (CFU/100 mL)
01465798	39	1	251
01467042	39	1	70
01467048	39	0	313
01467086	39	0	257
01467087	38	0	367
01473900	39	0	88
01474000	39	1	53
01474500	39	2	38
01475530	39	1	77
01475548	39	1	256

Table 8. Cumulative Fecal Coliform Geometric Mean Results During Swimming Season

Gage	n	n, non-detects	Geometric mean (CFU/100 mL)
01465798	27	0	443
01467042	27	0	299
01467048	27	0	720
01467086	27	0	830
01467087	27	0	547
01473900	27	0	233
01474000	27	0	110
01474500	27	2	40
01475530	27	0	301
01475548	26	0	763

Table 9. Cumulative Fecal Coliform Geometric Mean Results and PA DEP Non-Swimming Season Water Quality Recreational Use Criteria Reference Value

Gage	n	n, non-detects	Geometric mean (CFU/100 mL)	Below Ref. Value
01465798	39	1	190	Yes
01467042	39	1	60	Yes
01467048	39	0	243	Yes
01467086	39	0	201	Yes
01467087	38	0	327	Yes
01473900	39	0	74	Yes
01474000	39	1	47	Yes
01474500	39	2	31	Yes
01475530	39	1	68	Yes
01475548	39	0	198	Yes

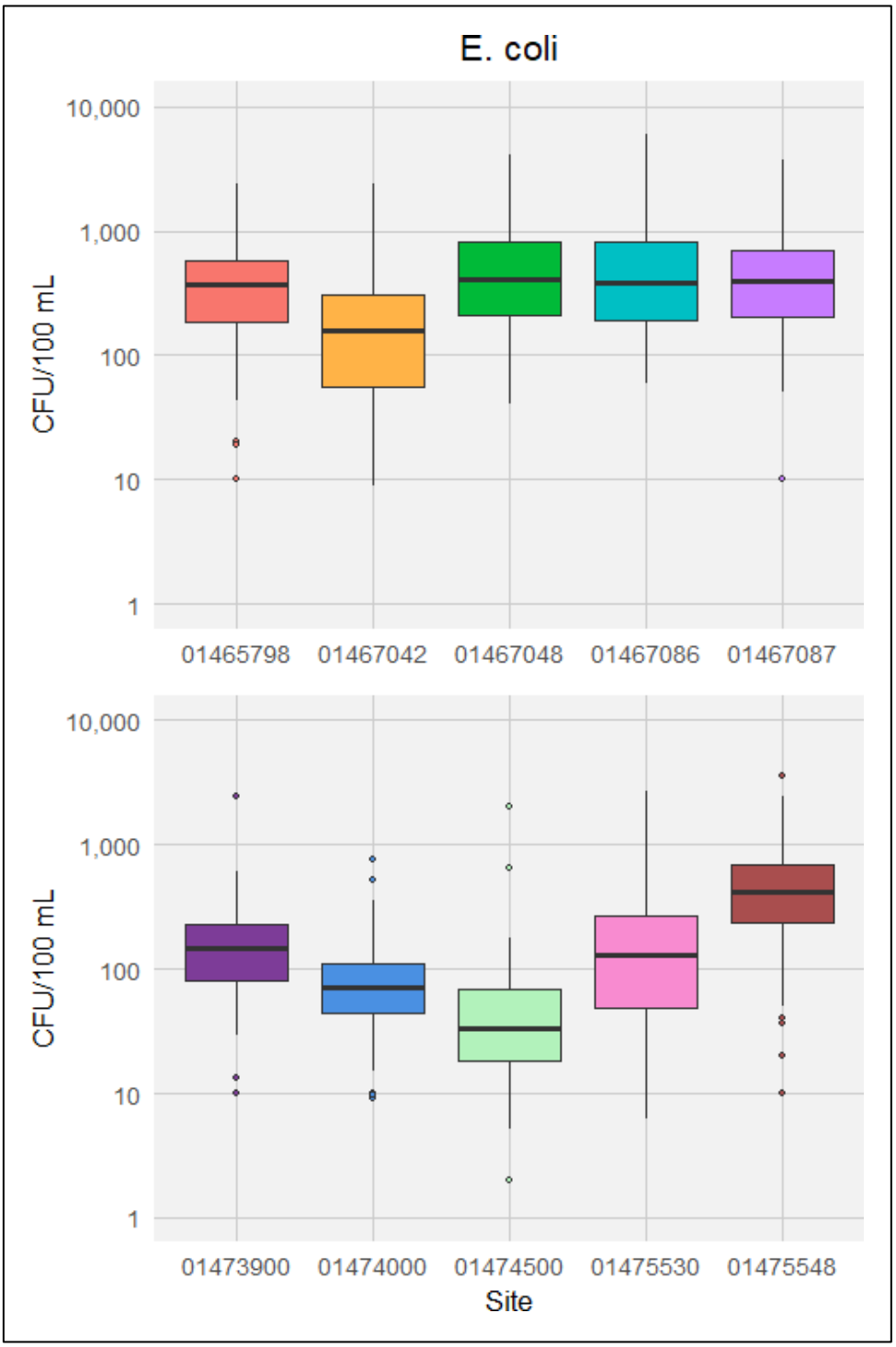


Figure 6. *E. coli* results at USGS gage stations, July 2009-June 2026

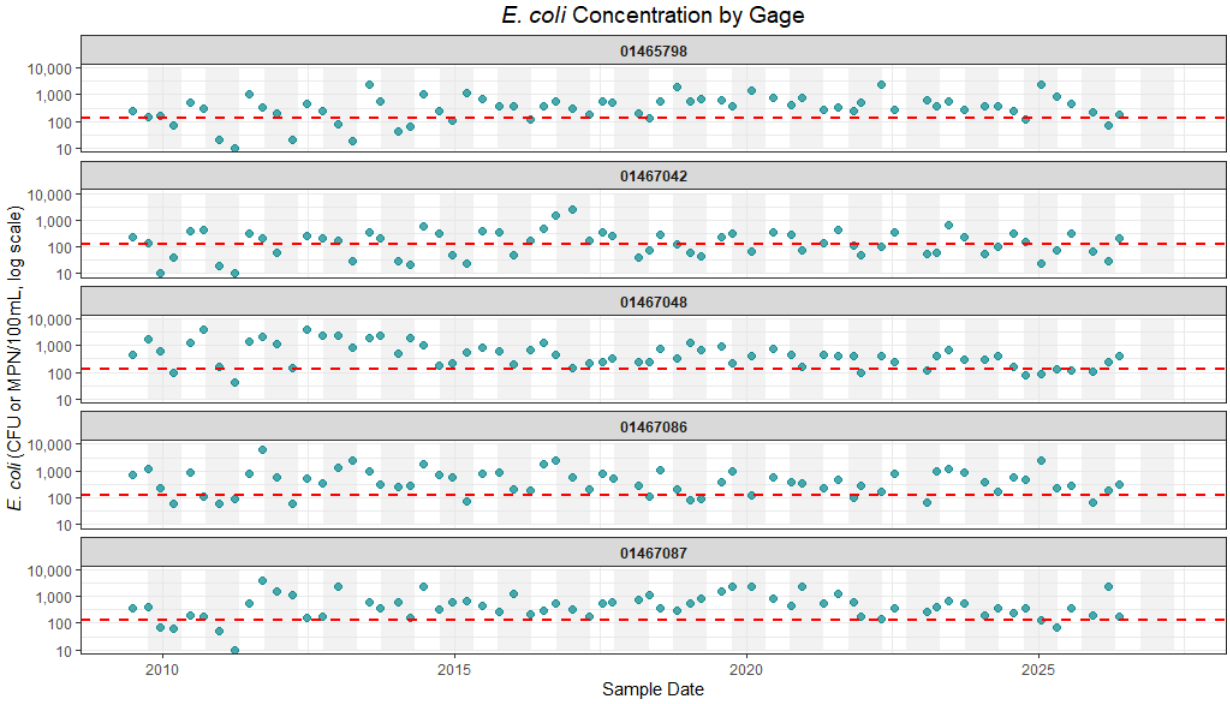


Figure 7: *E. coli* concentrations over time at 5 USGS gages. Red dashed line represents the swimming season value of a cumulative geometric mean of 126 CFU/100mL.

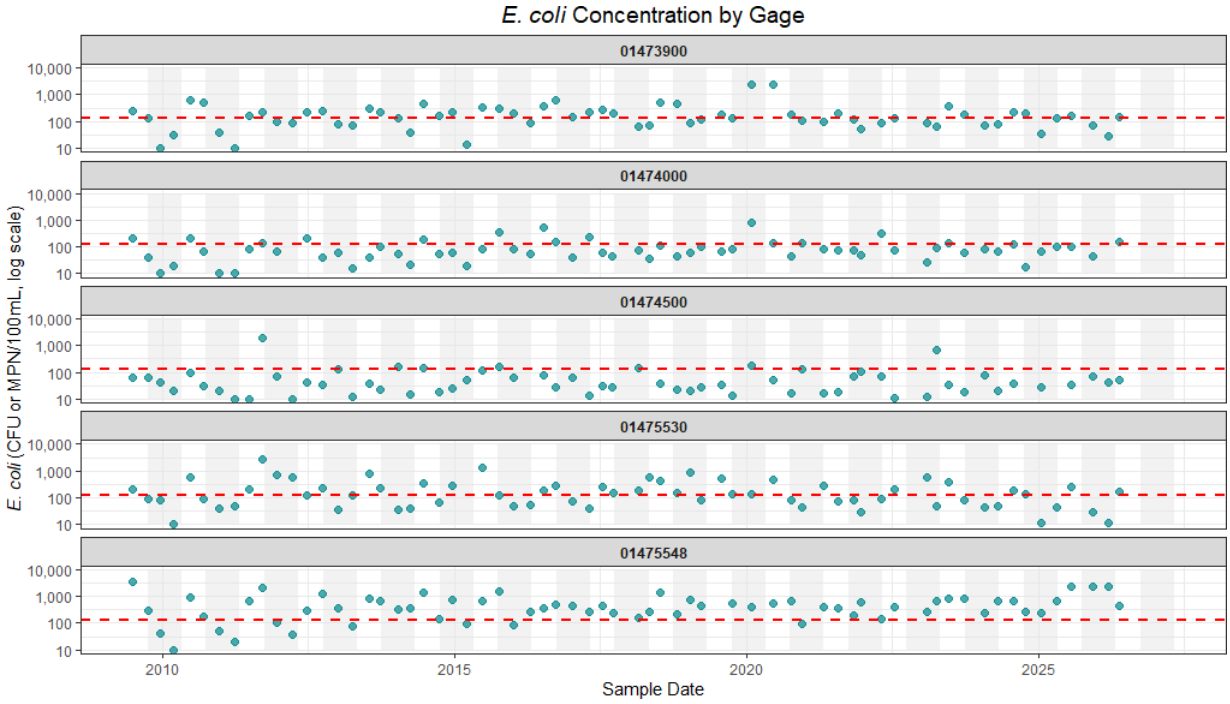


Figure 8: *E. coli* concentrations over time at 5 USGS gages. Red dashed line represents the swimming season value of a cumulative geometric mean of 126 CFU/100mL.

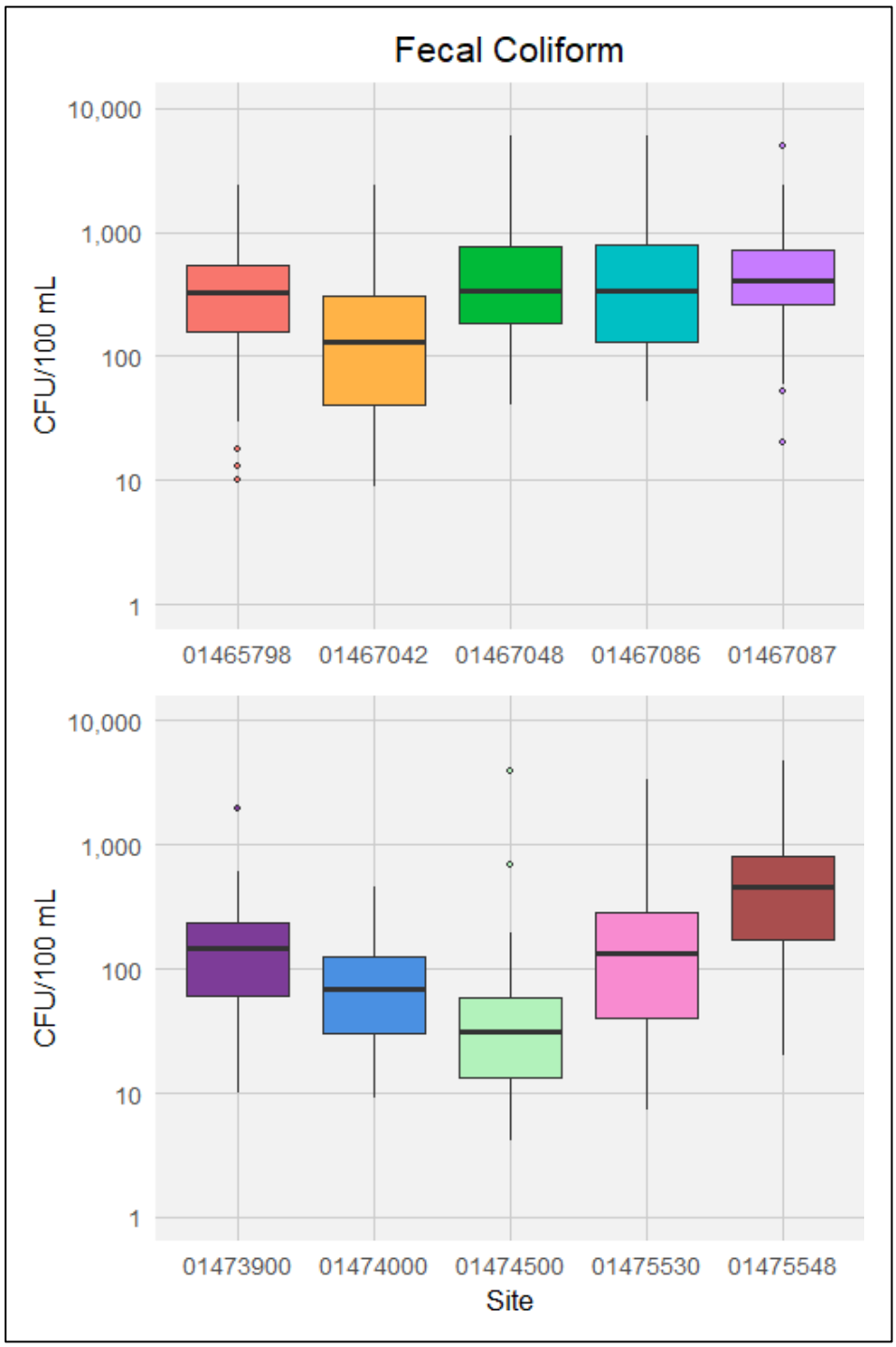


Figure 9. Fecal Coliform results at USGS gage stations, July 2009-June 2026

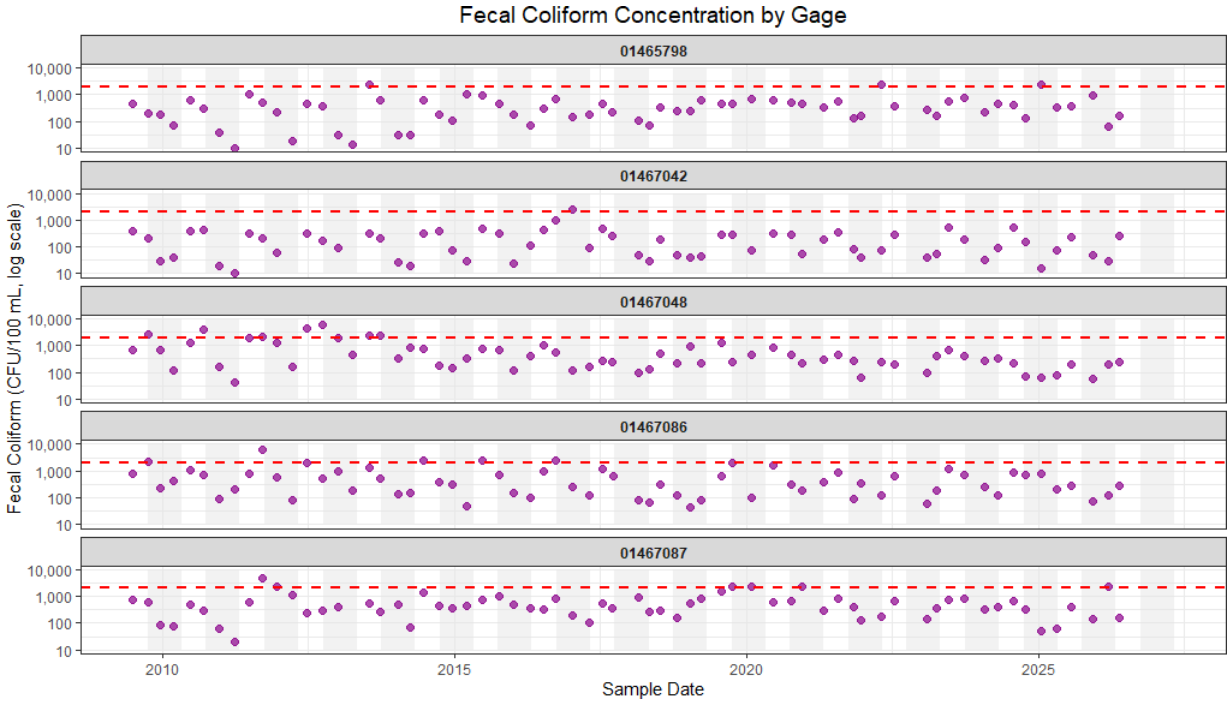


Figure 10: Fecal Coliform concentrations over time at 5 USGS gages. Red dashed line represents the non-swimming season value of a cumulative geometric mean of 2,000 CFU/100mL.

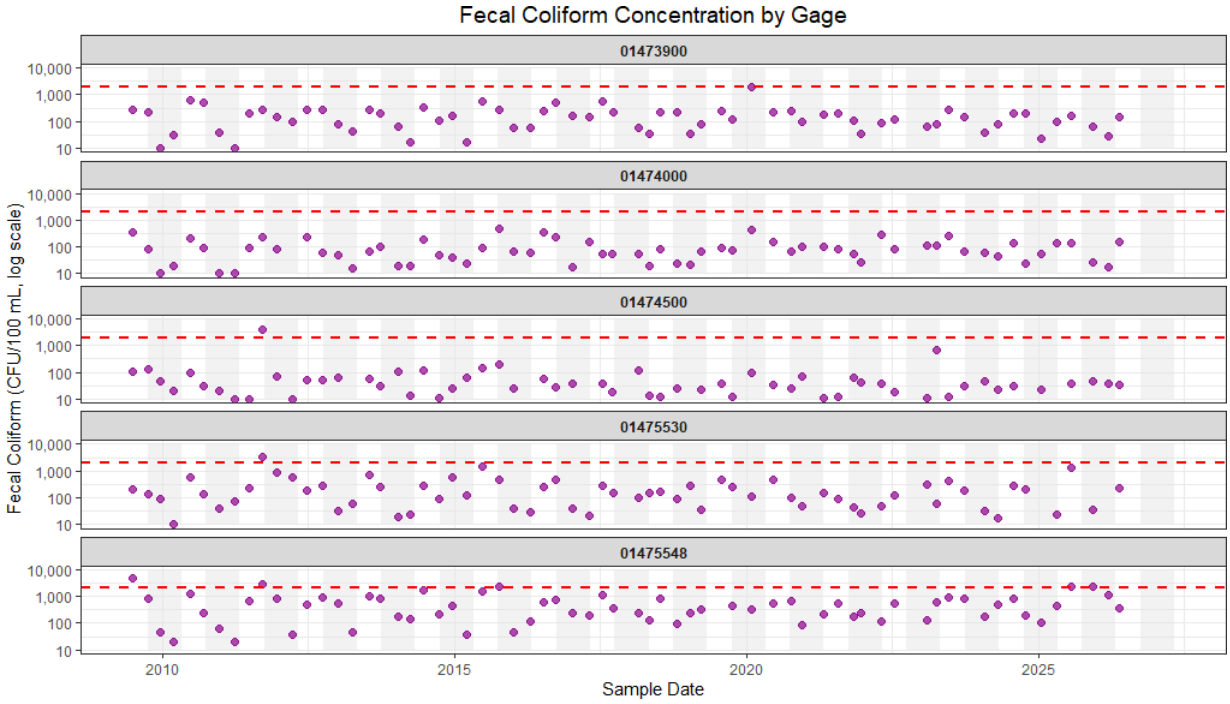


Figure 11: Fecal Coliform concentrations over time at 5 USGS gages. Red dashed line represents the non-swimming season value of a cumulative geometric mean of 2,000 CFU/100mL.

References

Pennsylvania Department of Environmental Protection (PA DEP). (2007). Chemistry Statistical Assessments. Harrisburg, PA. 17 p.

United States Environmental Protection Agency (US EPA). (2000). Ambient Water Quality Criteria Recommendations: Rivers and Streams in Nutrient Ecoregion IX. EPA 822/B/00/019. Office of Water, U.S. Environmental Protection Agency, Washington D.C.

United States Environmental Protection Agency (US EPA). (1986). Quality Criteria for Water. EPA 440/5/86/001. Washington, D.C. 447 p.

Appendix G – PWD-USGS Cooperative Water Quality Monitoring Program Annual Summary

Background

PWD and the United States Geological Survey (USGS) have constructed and/or refurbished gaging stations in 12 locations throughout Philadelphia's watersheds. USGS staff is responsible for construction and maintenance of the gage structure, stream stage monitoring instruments, data communications, maintaining and verifying stage-discharge rating curves and pumping apparatus. PWD staff is responsible for installation and maintenance of continuous water quality instrumentation. Data collected through the PWD/USGS cooperative water quality monitoring program are disseminated through the USGS National Water Information System (NWIS) Web Interface, as well as a website specifically dedicated to Philadelphia's watersheds (https://www.usgs.gov/centers/pennsylvania-water-science-center/science/philadelphia-water-resources-monitoring-program). The locations of the PWD/USGS cooperative gage stations are shown in the map below (Figure 1).

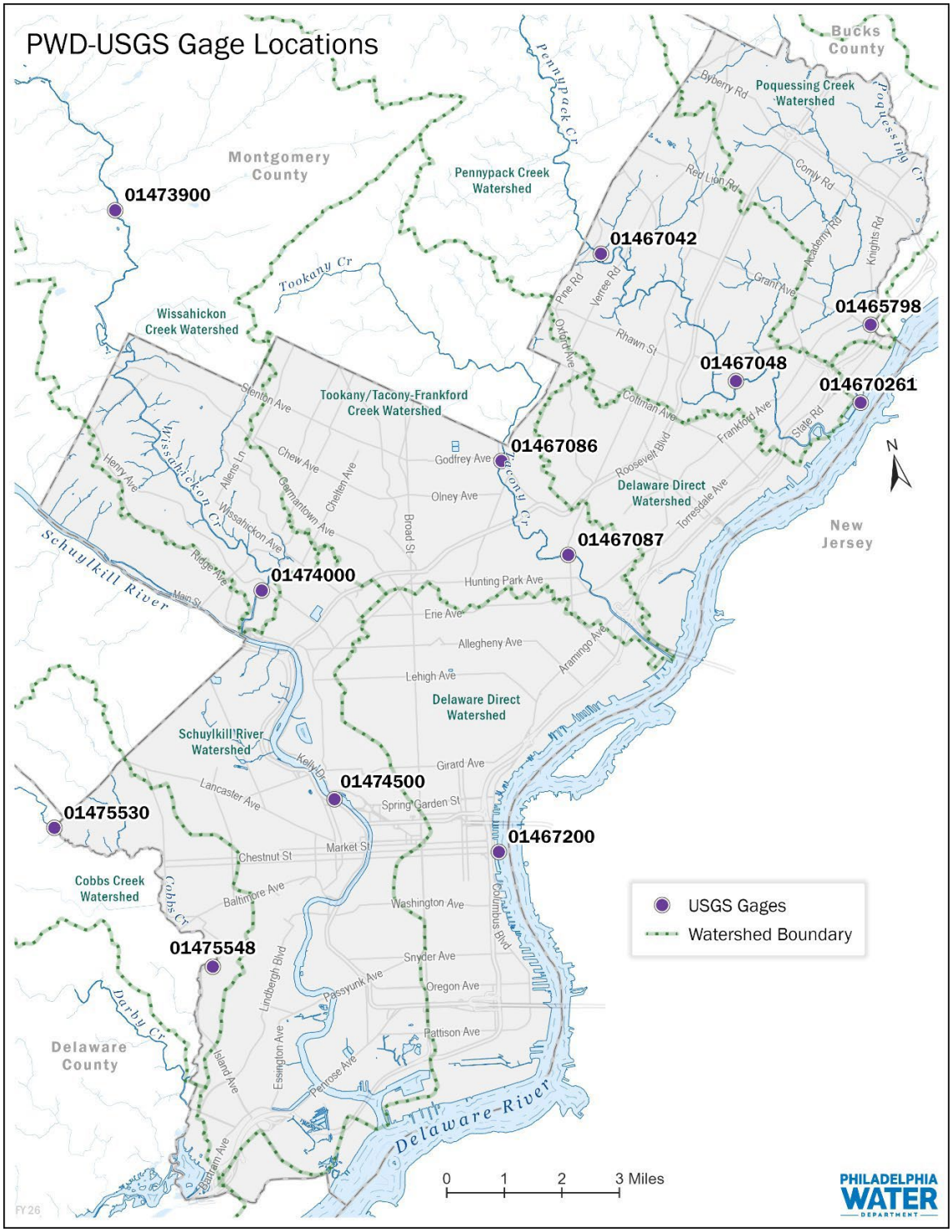


Figure 1: Philadelphia Water Quality Gage Stations.

Monitoring Locations

The PWD/USGS Cooperative Monitoring Program builds upon the widespread network of USGS gages that were formerly operated throughout Philadelphia. These gages are logically situated and/or have a continuous period of record, making them ideal for water quality monitoring purposes. Within a given watershed, downstream-most historic stations were chosen to represent water quality, as these streams flow through Philadelphia into the receiving waters (*i.e.*, the Schuylkill and Delaware rivers).

Regarding upstream stations, three gages (Pennypack Creek at Pine Rd, Tacony Creek at Adams Ave, and Cobbs Creek at US Rte. 1) are strategically located to monitor water quality of the streams as they enter Philadelphia (Figure 1). The upstream Wissahickon Creek monitoring station is located at Rte. 73 in Fort Washington, which is approximately 3.7 river miles upstream of the City. This location was chosen due to its extensive period of record (Table 1). Upstream water quality is not measured in the Poquessing-Byberry Creek Watershed. The Schuylkill River gage is in an ideal location to provide data related to the Schuylkill River Fairmount Dam Fish Ladder Renovation Project and was equipped with water quality monitoring instrumentation upon project completion in early 2009. In December 2020, the Delaware River gage at the Ben Franklin Bridge was relocated to a nearby downstream site at Penn's Landing.

This annual report summarizes water quality data from July 1, 2025 – June 30, 2026, excluding the period of December 2025 through February 2026 for most gages, during which time monitoring probes were not deployed in order to protect the equipment from cold temperatures. Water quality data at the Delaware River gages 01467200 and 014670261 were collected year-round. Due to routine maintenance such as cleaning and calibration, gages are periodically taken offline, usually for no more than the span of two hours, and do not collect data. Significant gaps in data collection due to gage malfunction, repair, vandalism, etc. are noted in the Monthly Results section. Mount Moriah (gage 01475548) was removed in June 2025 to accommodate an interceptor and bank stabilization ecological restoration project (Project No. 50228) and was reinstalled on March 25, 2026. Analyses for this gage include only data collected following its reinstallation.

In order to summarize hydrologic conditions during the monitoring period, daily mean discharge was plotted along with the median of all daily flows for USGS gage 01474000 (Wissahickon Creek at Mouth.). The period of record for this gage is 60 years; approved daily mean discharge data for this gage was only available through February 17, 2026 at the time of this writing. The influence of storms can be observed as peaks in streamflow in Figure 2.

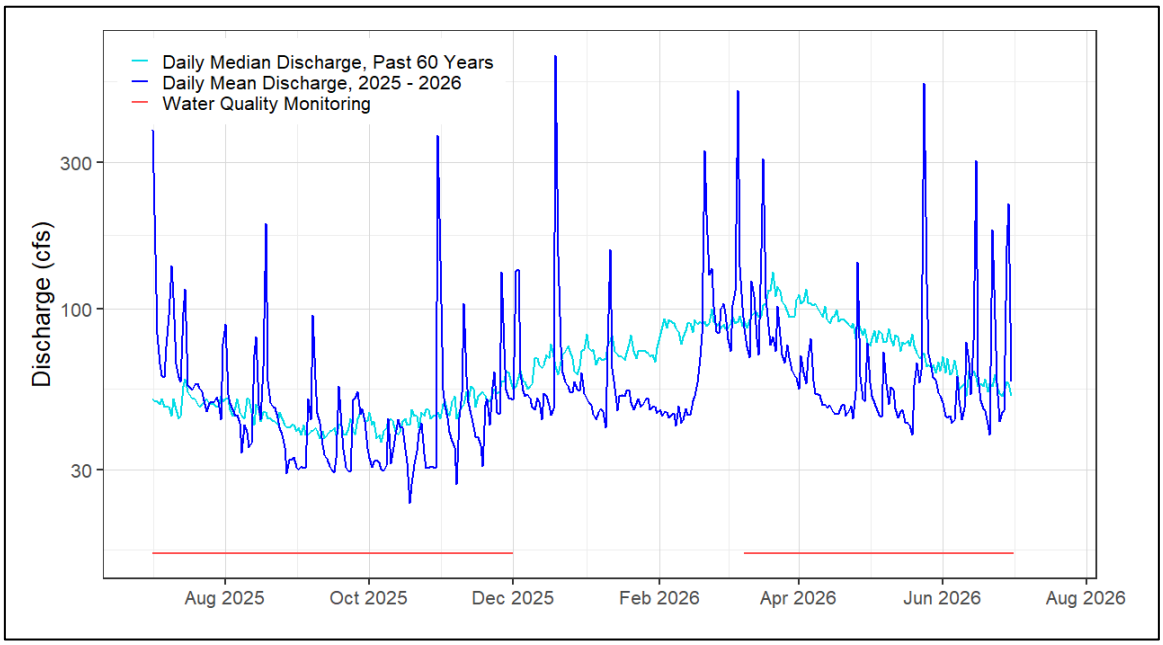


Figure 2. Daily mean flow July 1, 2025 – June 30, 2026 and daily median flow for 60 years of record at USGS gage 01474000 (Wissahickon Creek at Mouth).

Table 1. PWD/USGS Cooperative Water Quality Monitoring Program Gages

Gage Number	Gage name	Flow Data Record
01465798	Poquessing Creek at Grant Avenue, Philadelphia, PA	July 1965 to Present
01467042	Pennypack Creek at Pine Road, Philadelphia, PA	August 1964 to September 1974; September 2007 to Present
01467048	Pennypack Creek at Lower Rhawn St Br., Philadelphia, PA	June 1965 to Present
01467086	Tacony Creek at County Line, Philadelphia, PA	October 1965 to September 1986; September 2005 to Present
01467087	Frankford Creek at Castor Ave, Philadelphia, PA	July 1982 to Present
014670261	Delaware River near Pennypack Woods, PA	February 2011 to Present
01467200*	Delaware River at Ben Franklin Bridge/Penn's Landing, Philadelphia, PA	August 1949 to Present
01473900**	Wissahickon Creek at Ft. Washington, PA	September 1961 to September 1968; June 2000 to Present
01474000	Wissahickon Creek at Mouth, Philadelphia, PA	June 1897 to September 1903; January 1905 to July 1906; October 1965 to Present
01474500	Schuylkill River at Philadelphia, PA	October 1931 to Present
01475530	Cobbs Creek at U.S. Highway No. 1, Philadelphia, PA	October 1964 to September 1981; September 2004 to Present
01475548	Cobbs Creek at Mt. Moriah Cemetery, Philadelphia, PA	October 2005 to Present

*Funding for the operation of this gage is provided by USGS and the Delaware River Basin Commission (DRBC)
**Funding for the operation of this gage is provided by DRBC

USGS Gage Data Processing & Analysis Procedures

With 12 USGS gages collecting data for multiple water quality parameters at half-hour or 15-minute intervals, a large amount of data are produced. PWD Office of Watersheds (OOW) staff have developed procedures for the processing and analysis of these data using Microsoft Excel software, as well as MATLAB and R, statistical programming languages used for data analysis, cleaning, and visualization. Most aspects of the data processing and analysis have been automated with custom MATLAB and R code.

OOW independently maintains databases of water quality and streamflow via automated regular retrievals of these data from USGS NWIS. On a monthly basis, the databases are queried and results for each gage are imported into MS Excel workbooks. If available, any field data collected during that period (*e.g.*, hand meter readings from field maintenance checks, water quality grab samples, etc.) are also imported. Once all required data have been entered, separate plots are produced for each parameter (dissolved oxygen, turbidity, pH, specific conductance, and temperature) to enable a subjective review of data quality.

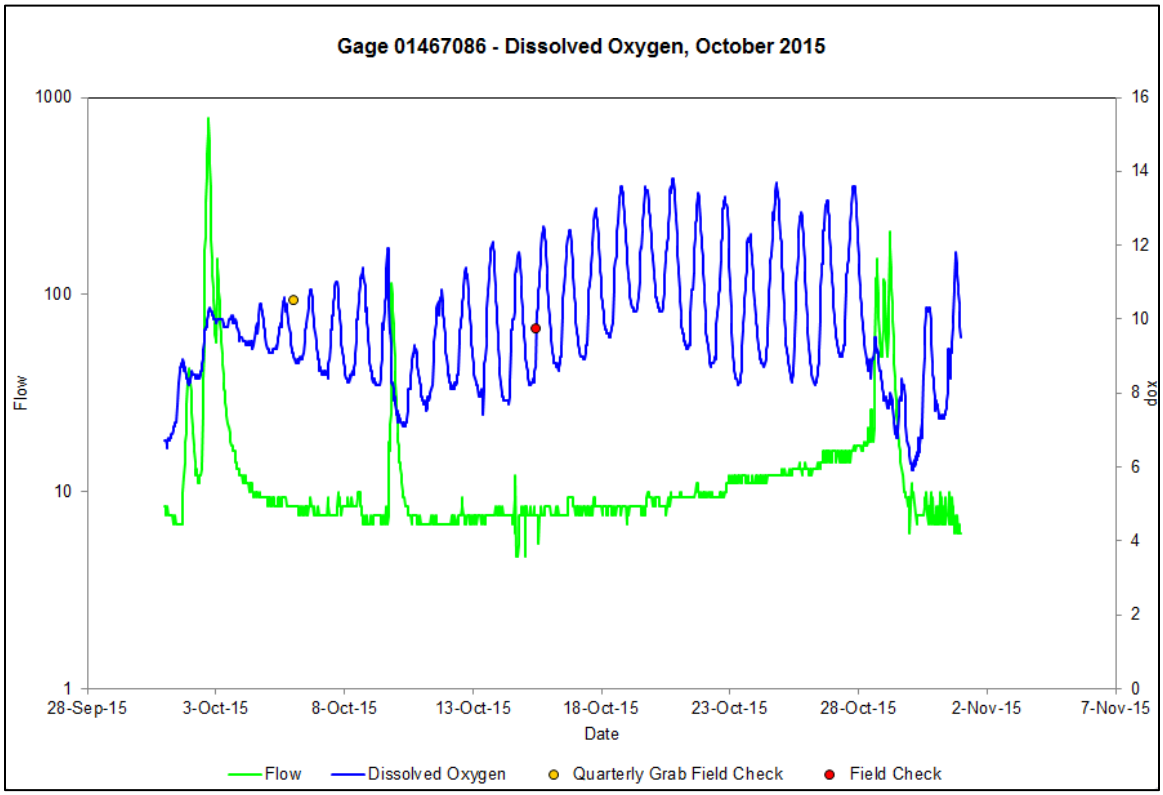


Figure 3. Example of an Excel-generated data processing/analysis plot; Gage 01467086, Dissolved Oxygen, October 2015.

These plots are examined and are the primary basis for the selection of good vs. questionable data for a given month. Intervals of questionable data are located and added to a table of "flagged" data for that particular parameter, which is then used to update the water quality database. Logs of field meter readings taken by PWD staff inform the flagging process, along with email records containing field notes and observations whenever water quality instrumentation is cleaned, calibrated, or otherwise maintained.

The final step of the procedure utilizes MATLAB and R. The MATLAB and R software code developed by OOW staff analyzes all water quality data contained within a database, as well as good and questionable data flags, and generates statistical and graphic results in a variety of forms. These include monthly plots for all data parameters for each site, showing accepted and questionable data, water quality criteria, grab sample data, and streamflow (Figure 4); assorted statistics including accepted and questionable data comparisons, monthly attainment percentages, and comparisons of wet and dry weather periods; and additional plots, including average dissolved oxygen (DO), percent DO saturation, and pH/percent DO saturation.

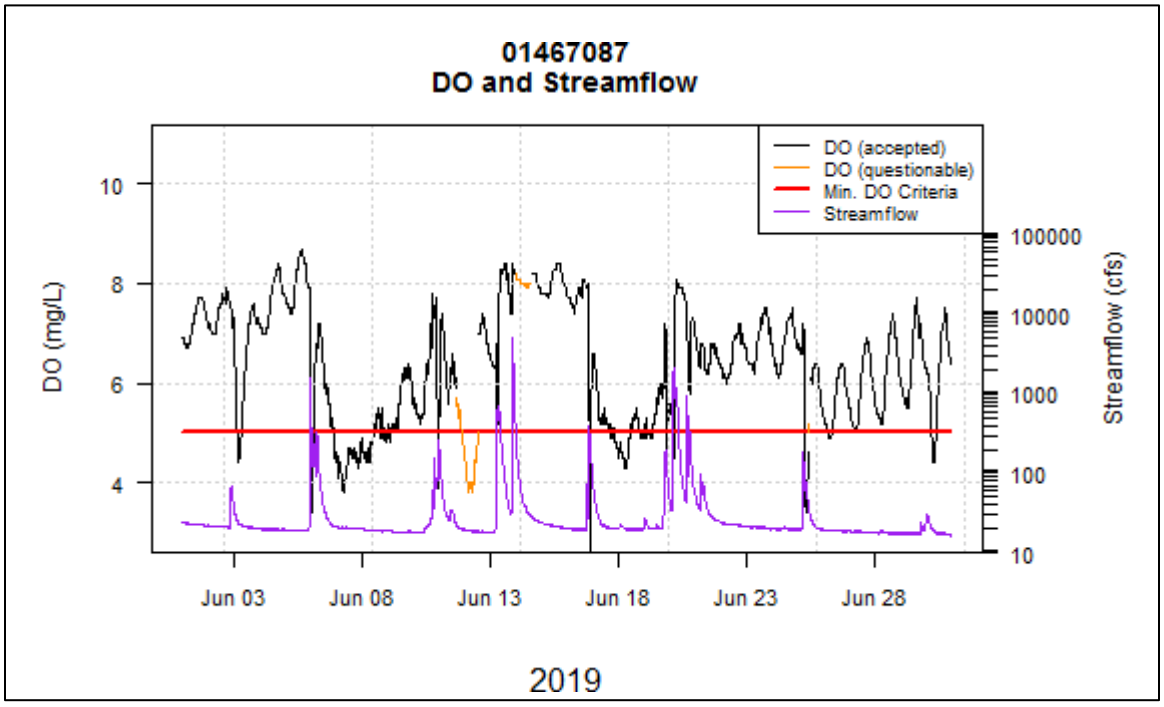


Figure 4. Example of an R-generated plot showing accepted and questionable data, and minimum water quality criteria; Gage 01467087, Dissolved Oxygen, June 2019.

Continuous Water Quality Monitoring Results Annual Summary, July 2025 - June 2026

Dissolved Oxygen

Background

Dissolved oxygen concentrations are a concern in several of Philadelphia's watersheds. Dissolved oxygen concentration is suppressed by high temperatures, respiratory activity of stream organisms, and nitrification and other oxidation reactions. Streams generally develop problems with dissolved oxygen due to water column biochemical oxygen demand (BOD), sediment oxygen demand (SOD) and eutrophication due to increased nutrient concentration. These processes are inter-related, and physical conditions can also affect dissolved oxygen concentrations.

Designated Uses

Streams in the Philadelphia region are affected by ambient temperatures, which can be quite warm in the spring and summer months. For this reason, these streams cannot support natural self-sustaining populations of cold water fish. Different water quality criteria for dissolved oxygen and temperature are applied to different stream segments. Of the sites that were instrumented for water quality, the Wissahickon and Pennypack Creek gages (*i.e.*, 01473900, 01474000, 01467042, and 01467048) are each designated as a Trout Stocking Fishery (TSF) with conditions appropriate for maintenance of stocked trout over the period February 15 to July 31. Water quality criteria for dissolved oxygen are more stringent for these sites, with a daily instantaneous minimum criterion of 5 mg/L and a 7-day average of 6 mg/L from February 15 to July 31 and 5.5 mg/L the remainder of the year. Dissolved oxygen criteria for Warm Water Fisheries (WWF) are an instantaneous minimum of 5 mg/L and a 7-day average of 5.5 mg/L.

The Delaware River gage 01467200 dissolved oxygen criteria are defined by the Delaware River Basin Commission (DRBC) criteria for Zone 3 (DRBC, 2007) with a daily mean of 3.5 mg/L and a seasonal mean (April 1 to June 15, and September 16 to December 31) of 6.5 mg/L. The same seasonal criteria apply to Delaware River gage 014670261 (Zone 2), but there is a more stringent daily mean guideline of 5.0 mg/L (Table 2).

Table 2. PADEP Dissolved Oxygen Water Quality Criteria

Gage number	Designated Use	Minimum Criterion	7-Day Average Criterion	Daily Average Criterion
01465798	WWF	5.0 mg/L	5.5 mg/L	None
014670261	DRBC**	None	None	5.0 mg/L
01467042	TSF*	5.0 mg/L	6.0 mg/L	None
01467048	TSF*	5.0 mg/L	6.0 mg/L	None
01467086	WWF	5.0 mg/L	5.5 mg/L	None
01467087	WWF	5.0 mg/L	5.5 mg/L	None
01467200	DRBC**	None	None	3.5 mg/L
01473900	TSF*	5.0 mg/L	6.0 mg/L	None
01474000	TSF*	5.0 mg/L	6.0 mg/L	None
01474500	WWF	5.0 mg/L	5.5 mg/L	None
01475530	WWF	5.0 mg/L	5.5 mg/L	None
01475548	WWF	5.0 mg/L	5.5 mg/L	None

* TSF criteria for DO only apply from February 15 - July 31. WWF criteria are applicable from August 1 – January 31.
** A seasonal mean criterion of 6.5 mg/L also applies from April 1 - June 15 and September 16 - December 31.

Results

Results were processed as follows for Table 3. The “percent accepted data” are the total number of observations that were not flagged. The remainder of the table lists the percent of data that was flagged, and the percentages of accepted data that attained or failed to attain water quality standards were calculated.

Results were processed as follows for Tables 4 and 5. If more than 25% of the data in the 7-day window was flagged as questionable, the data point was considered questionable. The 7-day average was calculated as a two-sided moving average. During data processing and analysis, output files are split by calendar year; thus, statistics for 2025 and 2026 appear in separate tables.

Water quality at the downstream Tacony Creek site (gage 01467087) was most likely to exceed DO minimum and 7-day average criteria. A more in-depth discussion of potential causes of DO problems at gage 01467087 is presented in the Monthly Results section. A notable portion of flagged data at 01467087 and other sites is related to the fouling of sonde pipes due to sediment and debris that inhibit data collection. The DO probes are particularly susceptible to the effects of trapped sediment; when routine cleaning of the sonde pipes show that low DO readings were affected by fouling, the questionable data prior to cleaning is flagged.

Table 3. USGS Gage July 2025 - June 2026 Dissolved Oxygen Minimum Criterion Summary Results

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% non-attaining	% attaining
01465798	WWF	25072	98.6	1.4	2.7	97.3
014670261*	DRBC	30891	100	0	NA	NA
01467042	TSF	25929	100	0	0.1	99.9
01467048	TSF	25828	100	0	0.1	99.9
01467086	WWF	24107	100	0	3	97
01467087	WWF	23242	92.6	7.4	40	60
01467200*	DRBC	24787	100	0	NA	NA
01473900	TSF	24878	99.4	0.6	2.2	97.8
01474000	TSF	12490	100	0	0.1	99.9
01474500	WWF	15546	100	0	0.3	99.7
01475530	WWF	25103	100	0	0	100
01475548	WWF	8934	100	0	14.7	85.3

*No minimum DO criterion applies at gages 01467200 and 014670261

Table 4. USGS Gage July 2025 - November 2025 Dissolved Oxygen 7-Day Average Criterion Summary Results

Gage number	Designated Use	Total hours accepted data	% flagged data	% hours non-attaining	% hours attaining
01465798	WWF	3354.5	2.5	0	100
014670261*	DRBC	3618	0	NA	NA
01467042	TSF	3629.25	0	0	100
01467048	TSF	3601.25	0	0	100
01467086	WWF	3501.25	0	0	100
01467087	WWF	2827	10.1	79	21
01467200*	DRBC	3540.75	0	NA	NA
01473900	TSF	3655.75	0	0	100
01474000	TSF	3656.5	0	0	100
01474500	WWF	3634.5	0	0	100
01475530	WWF	3661.75	0	0	100
01475548**	WWF	NA	NA	NA	NA

*No minimum DO criterion applies at gages 01467200 and 014670261
**Gage 01475548 was removed during this period

Table 5. USGS Gage March 2026 - June 2026 Dissolved Oxygen 7-Day Average Criterion Summary Results

Gage number	Designated Use	Total hours accepted data	% flagged data	% hours non-attaining	% hours attaining
01465798	WWF	2807	0	0	100
014670261*	DRBC	2883.5	0	NA	NA
01467042	TSF	2829.5	0	0	100
01467048	TSF	2832	0	0	100
01467086	WWF	2460	0	0	100
01467087	WWF	2505.75	4	29.3	70.7
01467200*	DRBC	2533.75	0	NA	NA
01473900	TSF	2502.25	1.5	0	100
01474000	TSF	2565.5	0	0	100
01474500	WWF	2914.5	0	0	100
01475530	WWF	2589	0	0	100
01475548	WWF	2230	0	13.6	86.4

*No minimum DO criterion applies at gages 01467200 and 014670261

Table 6. USGS Gage 01467200 and 014670261 Dissolved Oxygen Seasonal Mean Criterion Summary Result

Gage number	Designated Use	Days, n	Minimum Daily Average	Maximum Daily Average	Seasonal mean	Attaining Standard?
01467200	DRBC	78	4.7	11.0	8	Yes
014670261	DRBC	78	6.3	10.9	8.8	Yes

pH

Background

pH has been identified as a parameter of potential concern for some of Philadelphia's watersheds, primarily because of algal effects on the dissolved inorganic carbon (DIC) composition of stream water. Algae take up CO_2 during photosynthesis and shift the composition of DIC toward the alkaline carbonates, resulting in occasional failure to attain maximum pH criteria at some sites (Table 7). pH fluctuations are typically observed concomitant with pronounced dissolved oxygen fluctuations, as detailed in the Monthly Results section.

At gages 01467200 and 014670261, pH criteria (regulated by DRBC) are bounded by 6.5 and 8.5. At all other gages, pH criteria are bounded by daily minima and maxima of 6.0 and 9.0, respectively, as defined by PA DEP water quality standards.

Results

Results were processed as follows for Table 7. The "percent accepted data" are the percentage of observations that were not flagged. The remainder of the table lists the percentage of data that was flagged, the percentages of accepted observations that attained or failed to attain criteria, and the percentages of daily minima and maxima that attained or failed to attain criteria.

Minimum pH criteria were attained at all gages for the reporting time frame. Algal blooms may be responsible for daily maximum pH criterion exceedance at several sites during March and April.

Table 7. USGS Gage July 2025 - June 2026 pH Criteria Summary Results

Gage number	Observations, n	% accepted data	% flagged data	% min. non-attaining	% max. non-attaining	% min. attaining	% max. attaining	% attaining
01465798	25781	98.7	1.3	0	2	100	98	98
014670261	30710	100	0	0	0	100	100	100
01467042	25791	100	0	0	0	100	100	100
01467048	25713	100	0	0	1.5	100	98.5	98.5
01467086	23987	99.8	0.2	0	0	100	100	100
01467087	25914	97.6	2.4	0	0	100	100	100
01467200	24647	100	0	0	0	100	100	100
01473900	24940	100	0	0	0.5	100	99.5	99.5
01474000	12425	100	0	0	1.3	100	98.7	98.7
01474500	15482	100	0	0	8	100	92	92
01475530	24986	100	0	0	0	100	100	100
01475548	8749	99.3	0.7	0	0.1	100	99.9	99.9

Turbidity

Background

Turbidity in Philadelphia's streams increases with increased flow as inorganic sediment and additional constituents of stormwater runoff are introduced to the stream or scoured/eroded from the stream channel. There are no numeric PA DEP water quality criteria for turbidity, so PWD watershed management plans used a reference value for turbidity that was derived from EPA Guidance document EPA 822-B-00-023 (*i.e.*, 2.825 NTU). This value is surpassed more often in wet weather than in dry weather (Tables 72-73). Turbidity data has also been used to help investigate sediment loading and transport in the Wissahickon Creek Watershed for the Wissahickon Creek Sediment TMDL.

Results

Results were processed as follows for Table 8. The "percent accepted data" are the percentage of observations that were not flagged. The remainder of the table lists the percentage of observations that were flagged, and the percentages of accepted data that either surpassed or fell below the maximum guideline.

Among the tributary sites, the maximum guideline was most frequently surpassed at the Schuylkill gage, and least frequently surpassed at the downstream Wissahickon Creek gage.

Table 8. USGS Gage July 2025 - June 2026 Turbidity Summary Results

Gage number	Observations, n	% accepted data	% flagged data	% hrs. above max. guideline	% hrs. below max. guideline
01465798	25092	99.6	0.4	28.1	71.9
014670261	30807	100	0	92.4	7.6
01467042	25844	100	0	22.7	77.3
01467048	25729	100	0	23	77
01467086*	0	NA	NA	NA	NA
01467087*	0	NA	NA	NA	NA
01467200	30747	100	0	100	0
01473900	24194	100	0	24.3	75.7
01474000	12532	100	0	8.8	91.2
01474500	15497	100	0	75.4	24.6
01475530*	0	NA	NA	NA	NA
01475548*	0	NA	NA	NA	NA

*Turbidity is not continuously monitored at these locations

Specific Conductance

Background

Specific conductance is a measure of the ability of water to conduct electricity over a given distance, expressed as microsiemens/cm (corrected to 25ºC). Conductivity in Philadelphia streams is extremely sensitive to changes in flow, as stormwater (diluent) usually contains smaller concentrations of dissolved ions than stream baseflow. Stormwater runoff typically lowers conductivity in streams; an exception sometimes occurs in winter and early spring, when road salt applied prior to snowstorms enters the stream in runoff or during snowmelt. Data collected in the report timeframe were generally consistent with earlier observations. When significant changes in conductivity are observed during dry weather, it can be an indicator of anthropogenic influence or pollution in the stream; stations receiving inputs of treated wastewater generally had greater conductivity.

Results

There is no water quality standard for specific conductance. Table 9 merely illustrates the number of observations that were not flagged and considered "accepted" and the percentage of observations that were flagged. More detailed results at each site are described in the Monthly Results section.

Table 9. USGS Gage July 2025 - June 2026 Specific Conductance Summary Results

Gage number	Observations, n	% accepted data	% flagged data
01465798	25875	100	0
014670261	30830	100	0
01467042	25939	100	0
01467048	25824	100	0
01467086	24122	100	0
01467087	30323	100	0
01467200	24713	100	0
01473900	25115	100	0
01474000	12483	100	0
01474500	15544	100	0
01475530	24955	100	0
01475548	9312	100	0

Temperature

Background

Streams in the Philadelphia region are designated Warm Water Fisheries (WWF) or Trout Stocking Fisheries (TSF), with separate corresponding temperature criteria (Table 10). These criteria are "stepped" (remaining constant for 15- or 30-day intervals), while streams tend to warm up and cool down more gradually due primarily to changes in ambient temperature. (Gages 01467200 and 014670261 are the exceptions and are subject to a DRBC criterion of 30°C maximum). Stream temperatures were observed to exceed these criteria, somewhat frequently in springtime. These exceedances are generally natural, as there are no major sources of heated wastes. It is possible that baseflow diminution is partially responsible for a lack of buffering against temperature increases.

Table 10. PA DEP Temperature Water Quality Criteria

Date range start	Date range end	WWF maximum (°C)	WWF maximum (°F)	TSF maximum (°C)	TSF maximum (°F)
1/1	1/31	4	40	4	40
2/1	2/29	4	40	4	40
3/1	3/31	8	46	8	46
4/1	4/15	11	52	11	52
4/16	4/30	14	58	14	58
5/1	5/15	18	64	18	64
5/16	5/31	22	72	20	68
6/1	6/15	27	80	21	70
6/16	6/30	29	84	22	72
7/1	7/31	31	87	23	74
8/1	8/15	31	87	27	80
8/16	8/30	31	87	31	87
9/1	9/15	29	84	29	84
9/16	9/30	26	78	26	78
10/1	10/15	22	72	22	72
10/16	10/31	19	66	19	66
11/1	11/15	14	58	14	58
11/16	11/30	10	50	10	50
12/1	12/31	6	42	6	42

Results

Results were processed in the same manner as the parameters described above. The highest exceedance rate occurred at the downstream Pennypack Creek gage. The six gages designated as WWF have less stringent criteria.

Table 11. USGS Gage July 2025 - June 2026 Temperature Maximum Criteria Summary Results

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% exceedance	% attaining
01465798	WWF	25895	100	0	17.3	82.6
014670261	DRBC	30904	100	0	0	100
01467042	TSF	25944	100	0	35.4	64.6
01467048	TSF	25818	100	0	40.8	59.2
01467086	WWF	24113	100	0	15.6	84.4
01467087	WWF	30342	100	0	19.1	80.9
01467200	DRBC	24786	100	0	0	100
01473900	TSF	25146	100	0	33.8	66.2
01474000	TSF	12365	100	0	35.2	64.8
01474500	WWF	15547	100	0	21.5	78.5
01475530	WWF	25104	100	0	14.1	85.9
01475548	WWF	9316	100	0	33.7	66.2

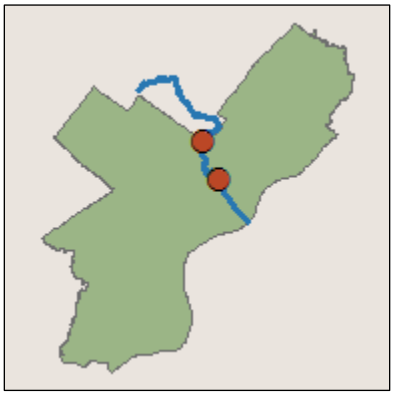
Monthly Results, July 2025 - June 2026

This section summarizes results at the monthly time scale. Results were processed in the same manner as in the previous section. Gages are grouped according to the type of sewer system that impacts water quality at the site.

Gages in Combined Sewer System Watersheds

The combined sewer system serves more than three-quarters of Philadelphia's residents and covers the oldest and densest parts of the city. Combined sewer outfalls affect the Tookany/Tacony-Frankford and Darby-Cobbs watersheds. (The Delaware and Schuylkill rivers also contain combined sewer outfalls but are detailed in a later section focused on large watersheds.) The gages in this section are subject to the deleterious effects of periodic combined sewer overflows during wet weather and snowmelt.

Tookany/Tacony-Frankford Creek (Gages 01467086 and 01467087)



Dissolved oxygen and pH

Dissolved oxygen concentrations were markedly worse between the upstream and downstream Tacony Creek gages. The monthly minima, percentage of observations the minimum criterion was not attained, and exceedance of the 7-day average guideline were typically much worse at the downstream gage (Tables 12-13, Figures 5-8). For example, DO was poor at the downstream Tacony Creek gage during May 2026 (Figure 10). However, the minimum criterion was almost always attained at gage 01467086 during that same month (Figure 9). This difference likely reflects the additional stormwater runoff and sewage overflows that entered the creek between the two gages.

The lowest DO concentrations are typically seen in the period after storm events, reflecting both the immediate and lingering, oxygen-depleting effects of stormwater runoff and biochemical oxygen demand (BOD) entering the stream. Diel DO fluctuations are suppressed for a few days following a storm event because the event either scours away algae or temporarily inhibits their growth. As dry weather continues, the algae

recover and diel DO and pH fluctuations typically increase, sometimes resulting in higher daily peaks in pH, as observed at the upstream gage in June 2026 (Figure 11). Percent DO saturation of more than 150% in daylight were also observed at gage 01467086 in June 2026, indicating high levels of algal activity (Figure 12; PAR is defined as photosynthetically active radiation). Diel DO fluctuations tended to increase with prolonged periods of sunlight, further indicating high levels of algal activity.

A lower monthly mean pH was usually observed at gage 01467087, along with generally less pronounced diel pH fluctuations, probably due to an increased buffering capacity at the downstream gage and a lesser degree of algal growth (Tables 14-15).

Table 12. Gage 01467086 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	WWF	2385	4.1	13.8	7.7	100	0	1.1	98.9
25-Aug	WWF	2964	3	13.8	7.7	100	0	3.8	96.2
25-Sep	WWF	2857	3.6	13.6	8	100	0	1.5	98.5
25-Oct	WWF	2970	5.2	13.6	9	100	0	0	100
25-Nov	WWF	2849	6.8	14.5	10.2	100	0	0	100
25-Dec	WWF	226	10.9	13.7	12.2	100	0	0	100
26-Mar	WWF	1158	7	16.4	11.3	100	0	0	100
26-Apr	WWF	2858	4	16.1	9.1	100	0	4.2	95.8
26-May	WWF	2967	3	14	7.4	100	0	7.9	92.1
26-Jun	WWF	2873	3.4	15.4	7.6	100	0	6.6	93.4

Table 13. Gage 01467087 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	WWF	2143	0.3	9.2	4.6	89.5	10.5	52.1	47.9
25-Aug	WWF	2931	0.1	10.4	5.6	85.9	14.1	35.8	64.2
25-Sep	WWF	2359	0.1	10.5	4	91.2	8.8	73.7	26.3
25-Oct	WWF	2891	0.1	8.1	3.5	92.3	7.7	81.8	18.2
25-Nov	WWF	2275	0.1	13.8	5.9	90.2	9.8	21.7	78.3
25-Dec	WWF	183	0.1	10.5	2.1	98.9	1.1	86.2	13.8
26-Mar	WWF	2510	3.5	13	8.8	87.5	12.5	1	99
26-Apr	WWF	2834	3.2	10.2	6.6	100	0	13.5	86.5
26-May	WWF	2602	2	9.1	4.6	99.9	0.1	64.4	35.6
26-Jun	WWF	2514	0.2	9.7	6.2	95.9	4.1	10.6	89.4

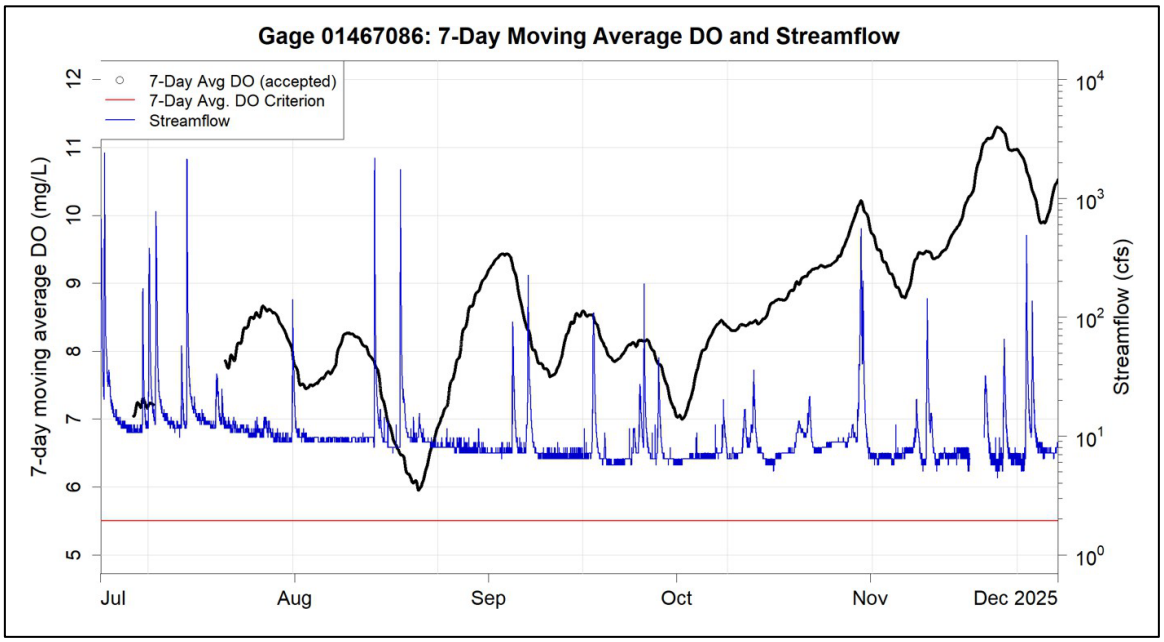


Figure 5. Gage 01467086, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2025.

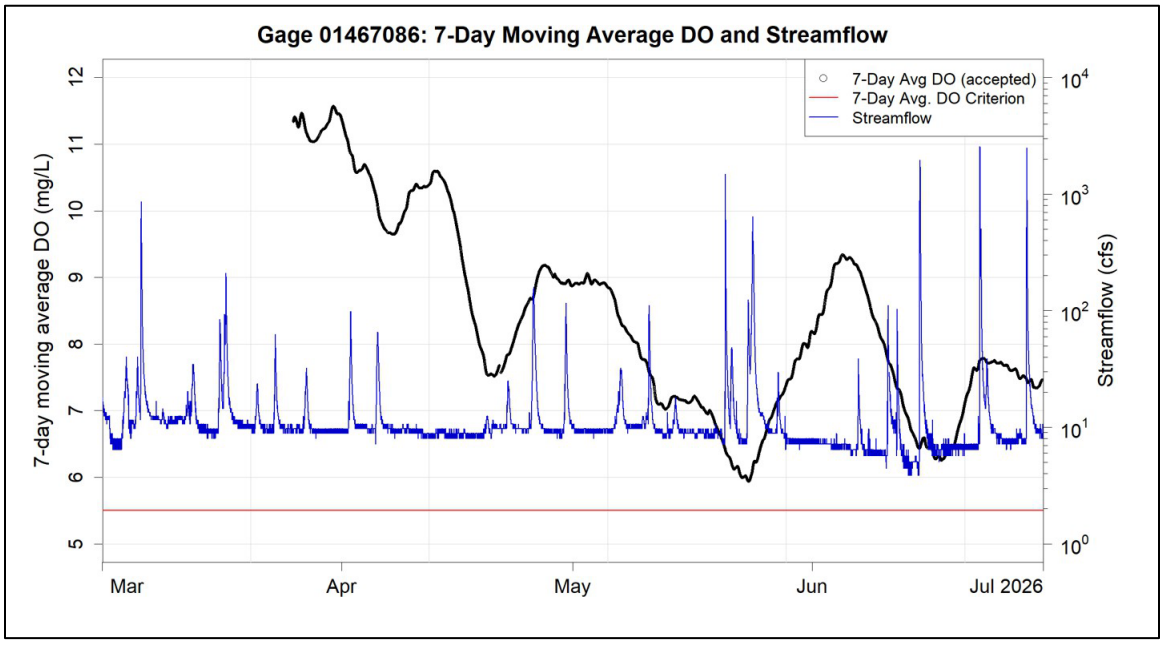


Figure 6. Gage 01467086, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

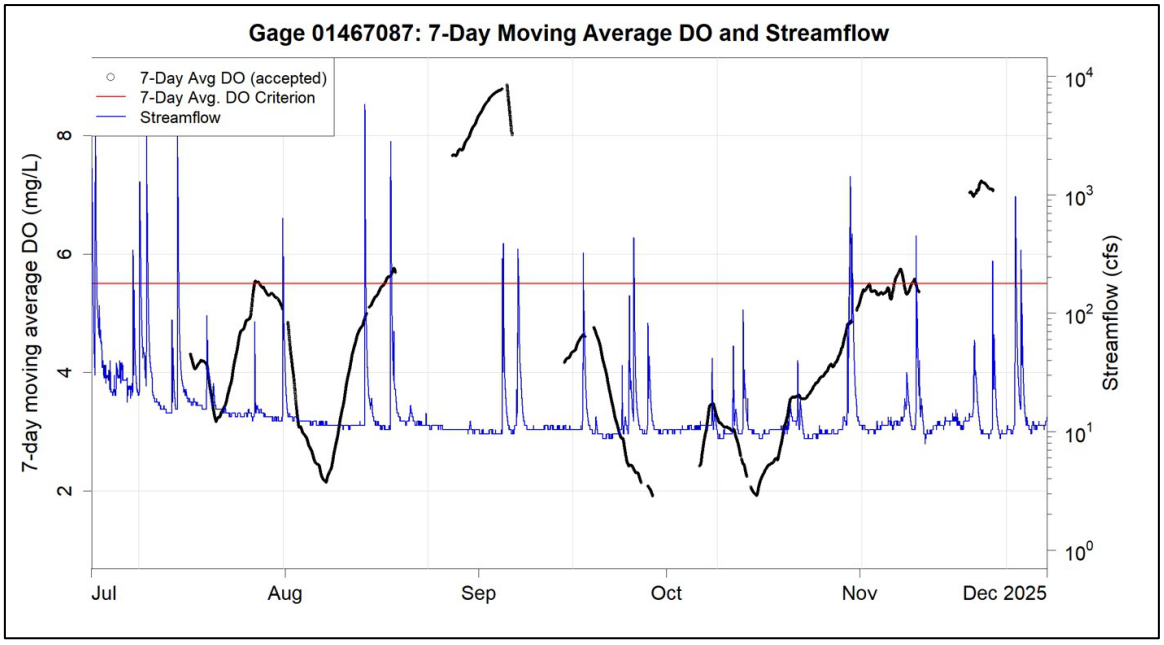


Figure 7. Gage 01467087, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2025.

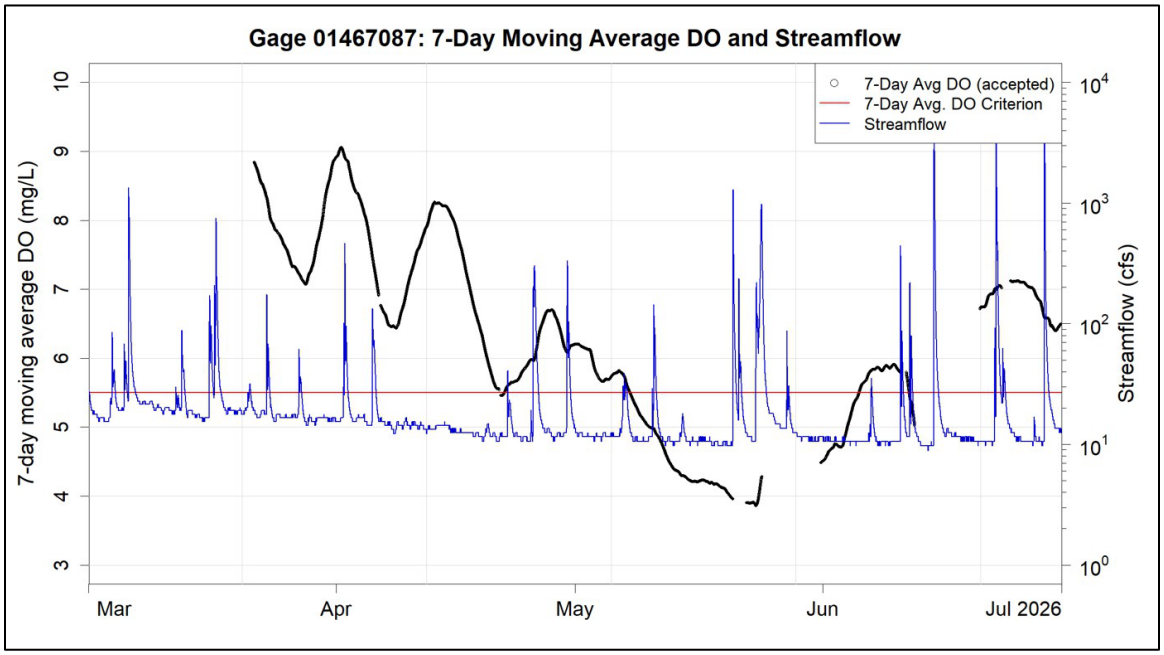


Figure 8. Gage 01467087, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

Table 14. Gage 01467086 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2384	7.1	8.9	7.8	100	0	0	0	100	100
25-Aug	2962	6.9	8.9	7.7	100	0	0	0	100	100
25-Sep	2854	6.9	8.8	7.6	100	0	0	0	100	100
25-Oct	2972	6.9	8.1	7.4	100	0	0	0	100	100
25-Nov	2847	7.0	7.8	7.4	100	0	0	0	100	100
25-Dec	226	7.2	7.7	7.5	100	0	0	0	100	100
26-Mar	1158	7.3	9.1	8	95.2	4.8	0	0.1	100	99.9
26-Apr	2856	7.1	9	7.7	100	0	0	0	100	100
26-May	2966	7	8.7	7.4	100	0	0	0	100	100
26-Jun	2873	7	8.9	7.6	100	0	0	0	100	100

Table 15. Gage 01467087 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2966	6.5	8.0	7.3	99.8	0.2	0	0	100	100
25-Aug	2975	6.7	8.0	7.4	98.6	1.4	0	0	100	100
25-Sep	2877	6.5	8.1	7.1	99.7	0.3	0	0	100	100
25-Oct	2969	6.5	7.4	7	99.8	0.2	0	0	100	100
25-Nov	2817	6.4	7.4	7	93.3	6.7	0	0	100	100
25-Dec	233	6.5	7.2	6.7	100	0	0	0	100	100
26-Mar	2510	7.1	7.8	7.4	86.1	13.9	0	0	100	100
26-Apr	2834	7.0	7.6	7.3	100	0	0	0	100	100
26-May	2971	6.3	7.4	7.1	99.9	0.1	0	0	100	100
26-Jun	2871	6.5	8.0	7.3	99.8	0.2	0	0	100	100

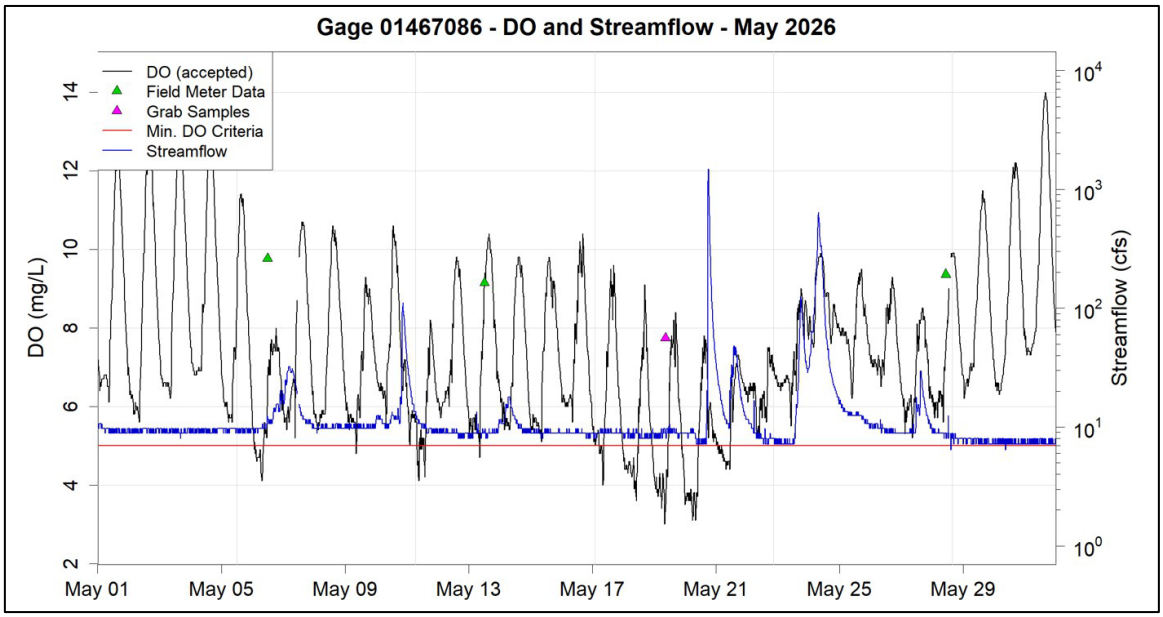


Figure 9. Gage 01467086, Dissolved Oxygen and Streamflow, May 2026.

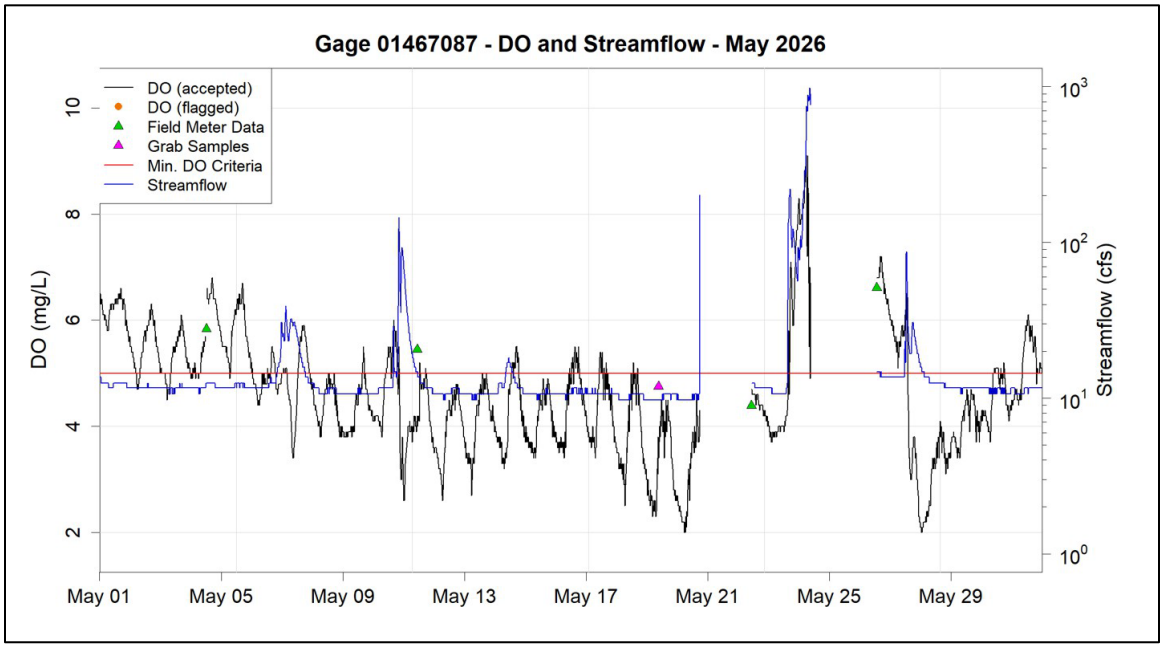


Figure 10. Gage 01467087, Dissolved Oxygen and Streamflow, May 2026.

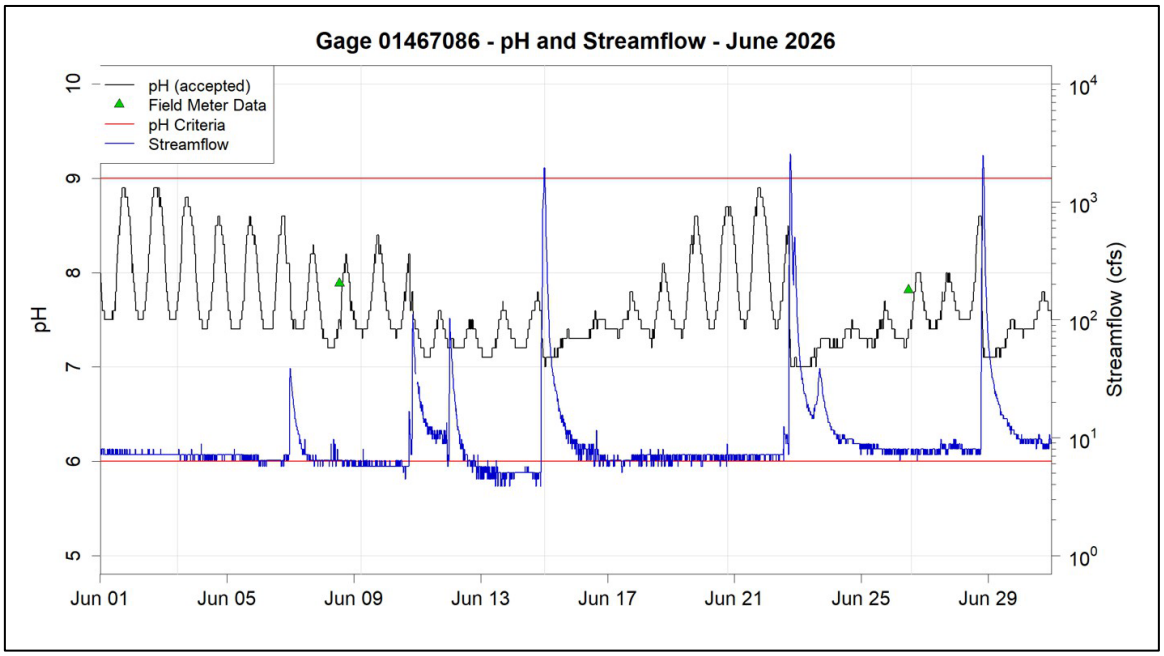


Figure 11. Gage 01467086, pH and Streamflow, June 2026.

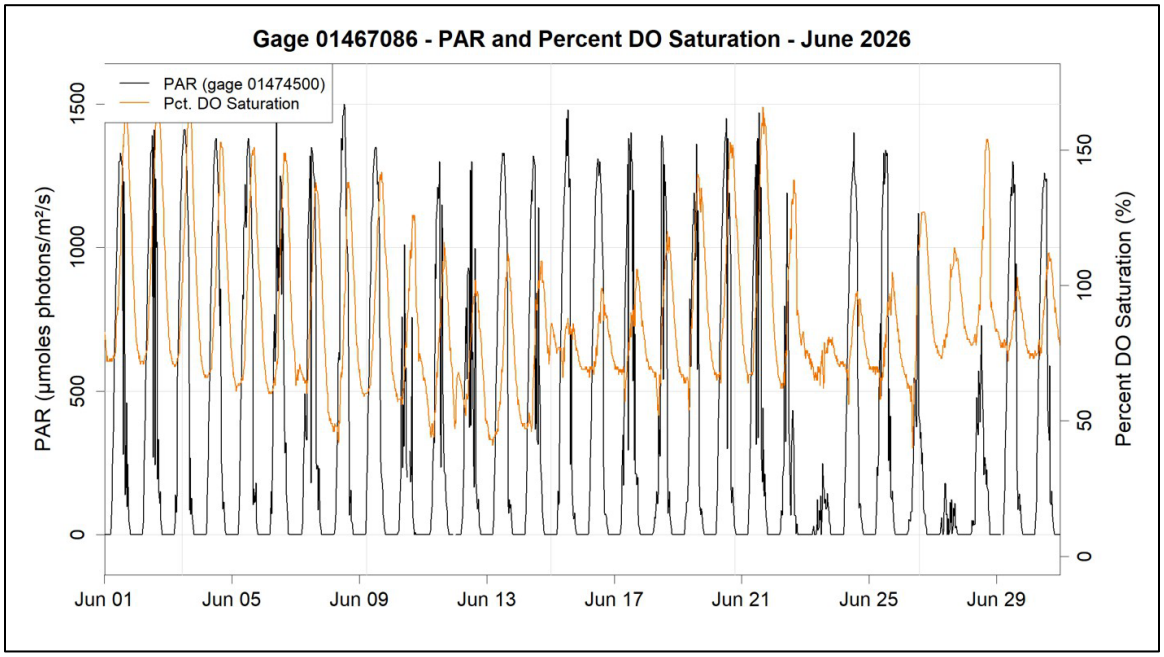


Figure 12. Gage 01467086, PAR and Percent Dissolved Oxygen Saturation, June 2026.



Figure 13. Gage 01467086, Tacony Creek at Adams Ave.



Figure 14. Gage 01467087, Frankford Creek at Castor Ave., looking downstream

Specific Conductance

Specific conductance observations were usually consistent in the summer, fall, and spring between the two gage sites (Tables 16-17). Elevated levels of specific conductance observed in late fall and winter months are likely due to the effects of road salt entering the stream.

Table 16. Gage 01467086 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2390	57.1	721.5	606.9	100	0
25-Aug	2967	103.8	807.2	647	100	0
25-Sep	2861	189.8	750.5	590	100	0
25-Oct	2972	99.9	751.1	670.4	100	0
25-Nov	2855	143.3	743	568.5	100	0
25-Dec	226	184.5	707.9	530.3	100	0
26-Mar	1158	506	828	753.5	100	0
26-Apr	2854	267	829	719.2	100	0
26-May	2966	100	849	663.1	100	0
26-Jun	2873	71	834	655	100	0

Table 17. Gage 01467087 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2962	63	736	525.3	100	0
25-Aug	2970	77	794	612	100	0
25-Sep	2870	257	764	557.5	100	0
25-Oct	2966	140	853	666.4	100	0
25-Nov	2832	160	742	504.8	100	0
25-Dec	2381	193	3850	972.3	100	0
26-Jan	2165	571	5700	1665.5	100	0
26-Mar	2508	321	1420	751.5	100	0
26-Apr	2834	325	830	695.7	100	0
26-May	2969	151	819	627.5	100	0
26-Jun	2866	75	834	598.2	100	0

Temperature

Monthly mean temperatures observed at the downstream gage were usually higher than at the upstream gage. Consequently, a higher rate of temperature criteria exceedance was typically observed at the downstream gage (Tables 18-19).

Table 18. Gage 01467086 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Jul	31-Jul	0	100	0	100	21.1	28.8	24.6
WWF	1-Aug	15-Aug	0	100	0	100	19.4	27.0	22.8
WWF	16-Aug	31-Aug	0	100	0	100	17.2	27.9	21.3
WWF	1-Sep	15-Sep	0	100	0	100	16.6	24.3	20.1
WWF	16-Sep	30-Sep	0	100	0	100	17.3	23.5	20.4
WWF	1-Oct	15-Oct	0	100	0	100	12.3	20.3	16.6
WWF	16-Oct	31-Oct	0	100	0	100	8.8	16.5	12.6
WWF	1-Nov	15-Nov	0	100	0	100	5.9	13.8	9.9
WWF	16-Nov	30-Nov	13.7	86.3	0	100	3.5	12.9	7.9
WWF	1-Mar	31-Mar	84.5	15.5	0	100	5	16.4	11.1
WWF	1-Apr	15-Apr	87.5	12.5	0	100	7.8	21.6	14.3
WWF	16-Apr	30-Apr	57.3	42.7	0	100	8.5	24.3	15.5
WWF	1-May	15-May	14.9	85.1	0	100	11.8	21.7	16.1
WWF	16-May	31-May	20.3	79.7	0	100	13	27.4	19.2
WWF	1-Jun	15-Jun	2.6	97.4	0	100	16	28.1	22.2
WWF	16-Jun	30-Jun	0	100	0	100	18.9	26	22.3

Table 19. Gage 01467087 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Jul	31-Jul	0	100	0	100	23.4	30	25.8
WWF	1-Aug	15-Aug	0	100	0	100	21.8	27.4	24
WWF	16-Aug	31-Aug	0	100	0	100	19	28.3	22.5
WWF	1-Sep	15-Sep	0	100	0	100	18.7	25	20.8
WWF	16-Sep	30-Sep	0	100	0	100	18.8	23.3	21.1
WWF	1-Oct	15-Oct	0	100	0.1	99.9	14.9	20.8	17.5
WWF	16-Oct	31-Oct	0	100	0	100	10	16.3	13
WWF	1-Nov	15-Nov	1.5	98.5	0	100	6.4	15.3	10.3
WWF	16-Nov	30-Nov	19.6	80.4	0	100	5.1	13.6	8.3
WWF	1-Mar	31-Mar	71.2	28.8	0	100	3.9	14.9	10
WWF	1-Apr	15-Apr	98.6	1.4	0	100	10.8	19.9	14.6
WWF	16-Apr	30-Apr	67.2	32.8	0	100	11	23.6	16.2
WWF	1-May	15-May	19.5	80.5	0	100	13.4	20.4	16.8
WWF	16-May	31-May	25.1	74.9	0	100	13.6	27.8	19.9
WWF	1-Jun	15-Jun	6	94	0	100	18	28.6	23.4
WWF	16-Jun	30-Jun	0	100	0	100	20.7	25.9	23.4

Cobbs Creek (Gages 01475530 and 01475548)



Dissolved oxygen and pH

The upstream Cobbs Creek site (01475530) always met the minimum dissolved oxygen criterion and never exceeded the 7-day average guideline (Table 20, Figures 15-16).

Dissolved oxygen at the downstream site (01475548) did not always attain the minimum, particularly during the warmer months. The downstream site attained the 7-day average guideline, except during the summer (Figure 17). Only data from March through June 2026 were available at the downstream site because the gage had been removed for the interceptor and bank stabilization ecological restoration project.

The pattern of dissolved oxygen and pH values between the upstream and downstream Cobbs Creek gages is likely due to greater algal activity at the downstream gage. During the spring—key months for algal growth—the downstream site had daily pH fluctuations of more than 1 unit (Tables 22-23). Algae remove CO_2 during photosynthesis, raising pH by shifting the dissolved inorganic carbon (DIC) balance toward alkaline carbonates. The diel fluctuations in DO were also pronounced at both gages during these months (Figures 18-19). A third indicator of increased algal activity in Cobbs Creek is the supersaturation of oxygen caused by photosynthesis. During June, the downstream gage recorded peak DO saturation levels over 120% during the day in dry weather conditions (Figures 20-21).

Table 20. Gage 01475530 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	WWF	2976	5.3	10.3	7.4	100	0	0	100
25-Aug	WWF	2969	5.7	11.6	8	100	0	0	100
25-Sep	WWF	2871	5.9	11.6	8.1	100	0	0	100
25-Oct	WWF	2976	7	12.4	9.3	100	0	0	100
25-Nov	WWF	2875	8.6	12.9	10.6	100	0	0	100
26-Mar	WWF	64	11.3	12.9	12.1	100	0	0	100
26-Apr	WWF	1774	7.3	14.6	11.1	100	0	0	100
26-May	WWF	2873	5.7	13.9	9.5	100	0	0	100
26-Jun	WWF	2973	5.4	12.2	8.5	100	0	0	100

Table 21. Gage 01475548 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
26-Mar	WWF	619	5.8	16.7	10.8	100	0	0	100
26-Apr	WWF	2870	3.9	14	8.3	100	0	3.2	96.8
26-May	WWF	2838	1	9.5	6	100	0	19.5	80.5
26-Jun	WWF	2607	1	10.4	5.7	100	0	25.8	74.2

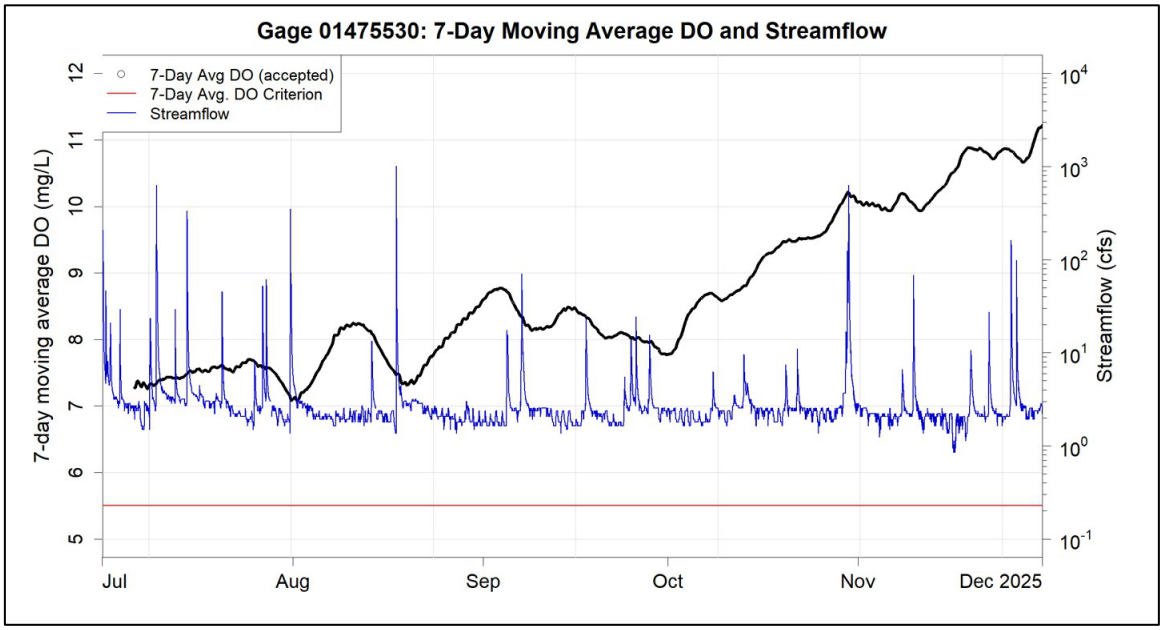


Figure 15. Gage 01475530, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Nov 2025.

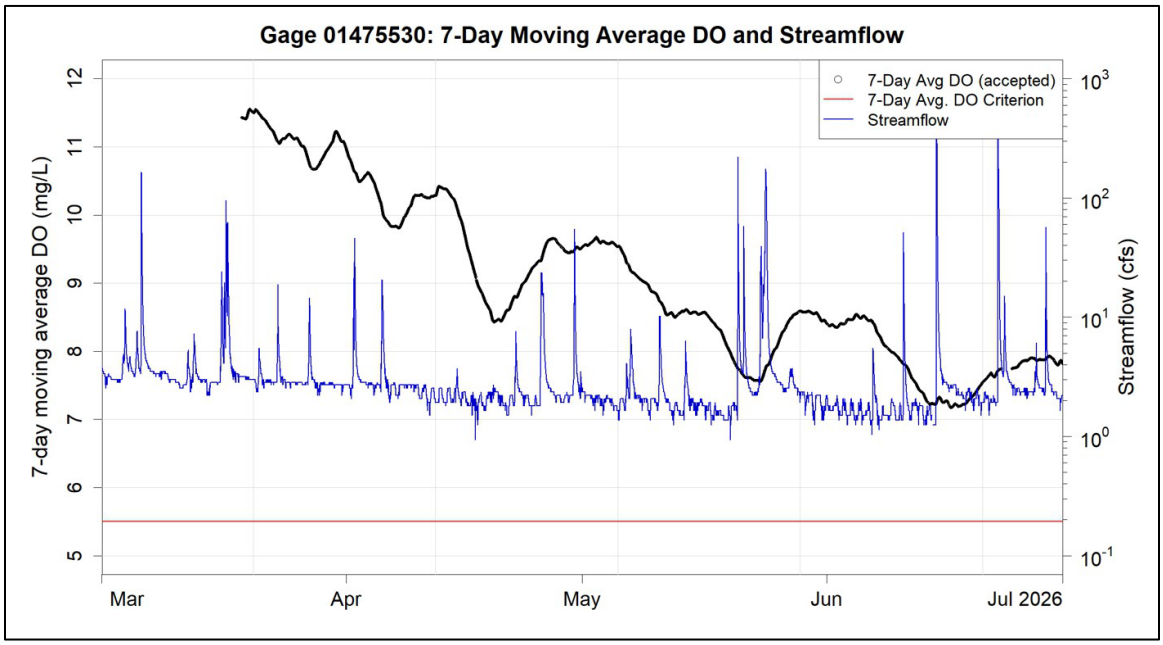


Figure 16. Gage 01475530, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

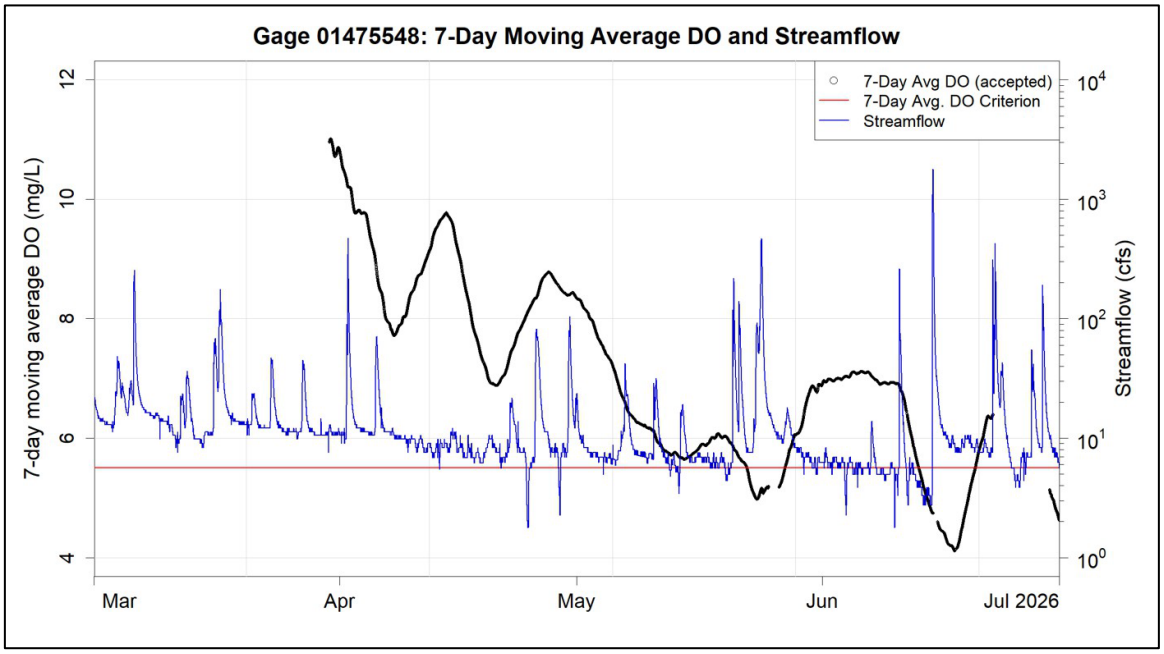


Figure 17. Gage 01475548, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

Table 22. Gage 01475530 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2976	6.7	8.1	7.3	100	0	0	0	100	100
25-Aug	2969	6.9	8.4	7.4	100	0	0	0	100	100
25-Sep	2868	7	8.5	7.4	100	0	0	0	100	100
25-Oct	2976	6.8	7.9	7.4	100	0	0	0	100	100
25-Nov	2872	7	7.7	7.4	100	0	0	0	100	100
26-Mar	1774	7.2	9.1	7.7	100	0	0	0.7	100	99.3
26-Apr	2873	7.2	9	7.6	100	0	0	0	100	100
26-May	2973	7.1	8.1	7.4	99.8	0.2	0	0	100	100
26-Jun	2752	7	8.1	7.4	100	0	0	0	100	100

Table 23. Gage 01475548 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
26-Mar	208	7.4	9.1	8.1	100	0	0	5.3	100	94.7
26-Apr	2821	7	8.8	7.6	99.9	0.1	0	0	100	100
26-May	2967	6.8	7.8	7.4	100	0	0	0	100	100
26-Jun	2864	6.3	8.3	7.4	98	2	0	0	100	100

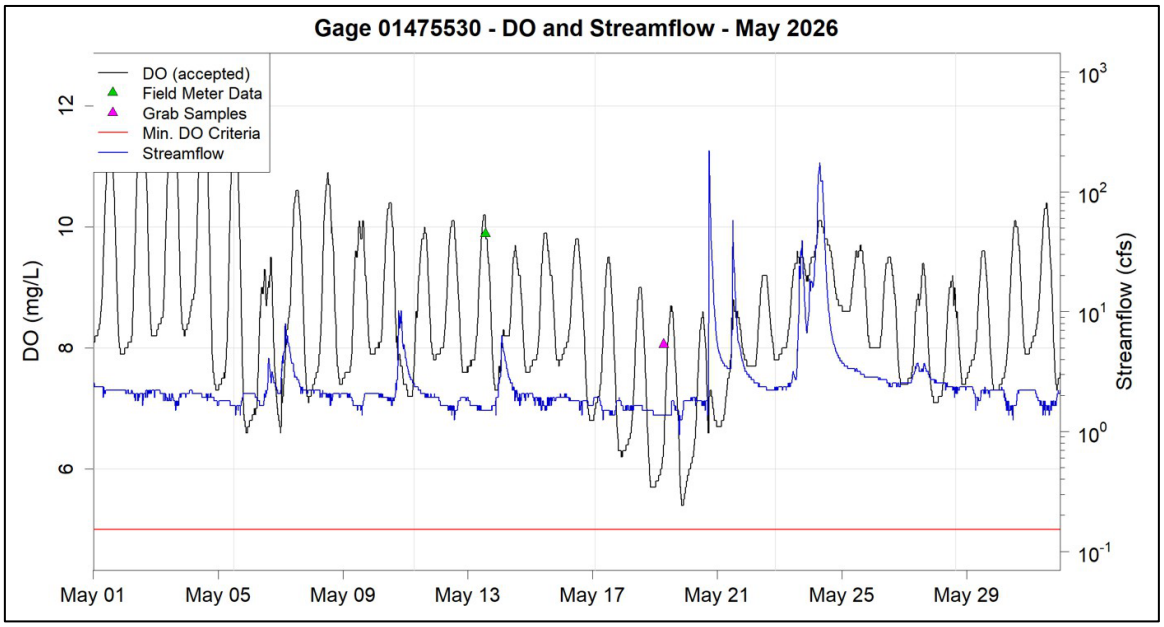


Figure 18. Gage 01475530, Dissolved Oxygen and Streamflow, May 2026.

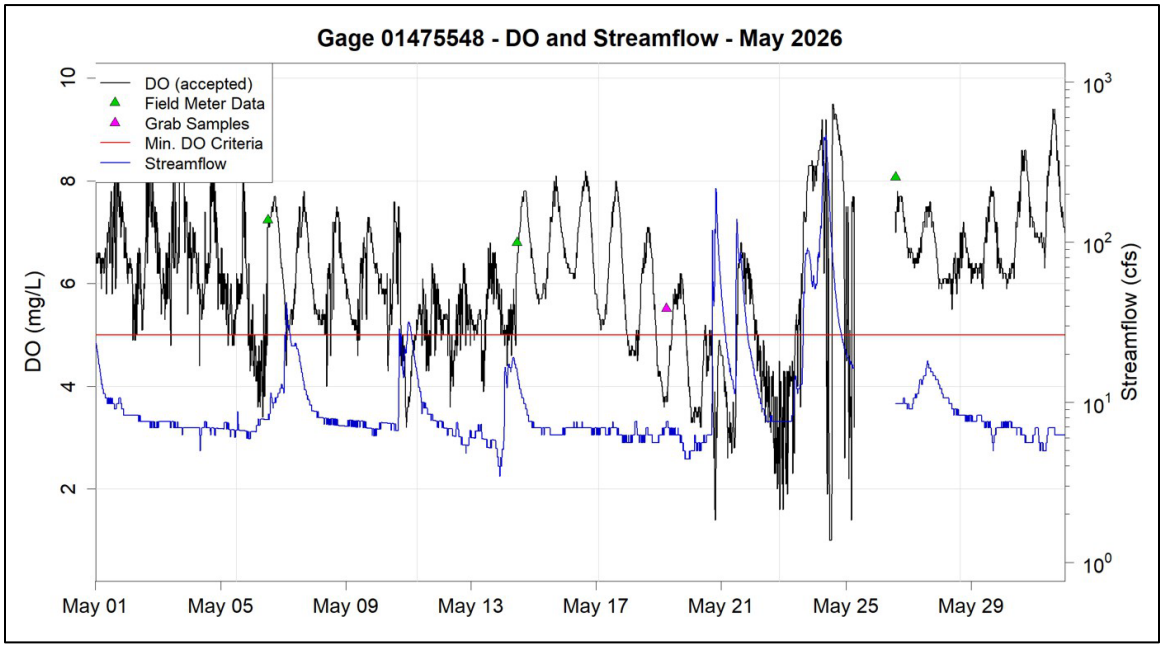


Figure 19. Gage 01475548, Dissolved Oxygen and Streamflow, May 2026.

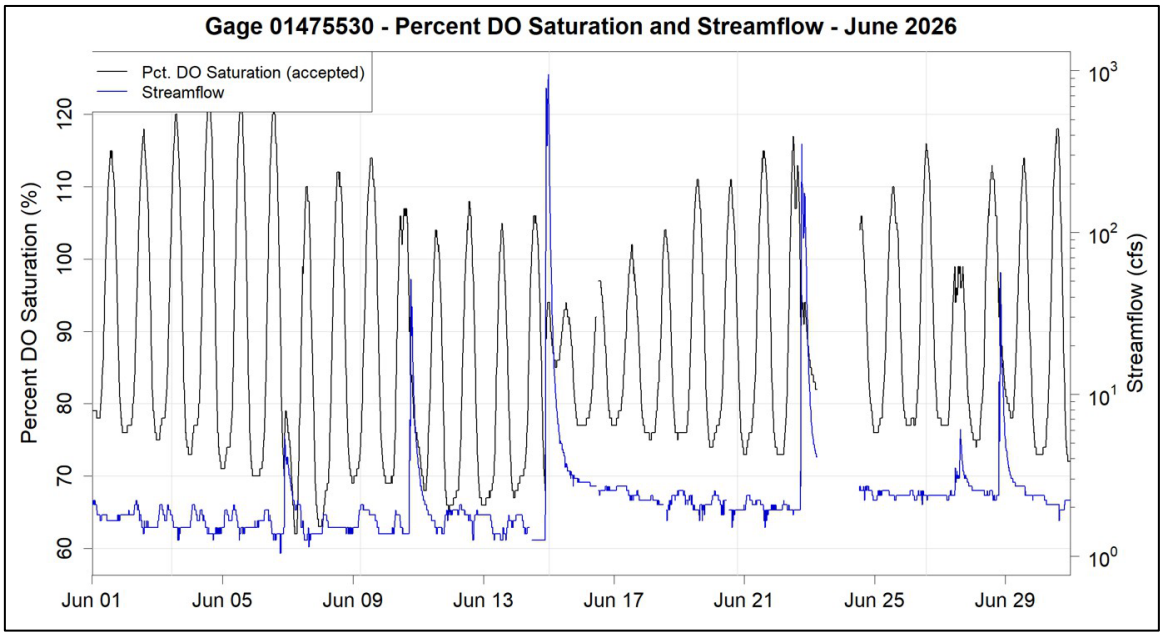


Figure 20. Gage 01475530, Percent DO Saturation and Streamflow, June 2026.

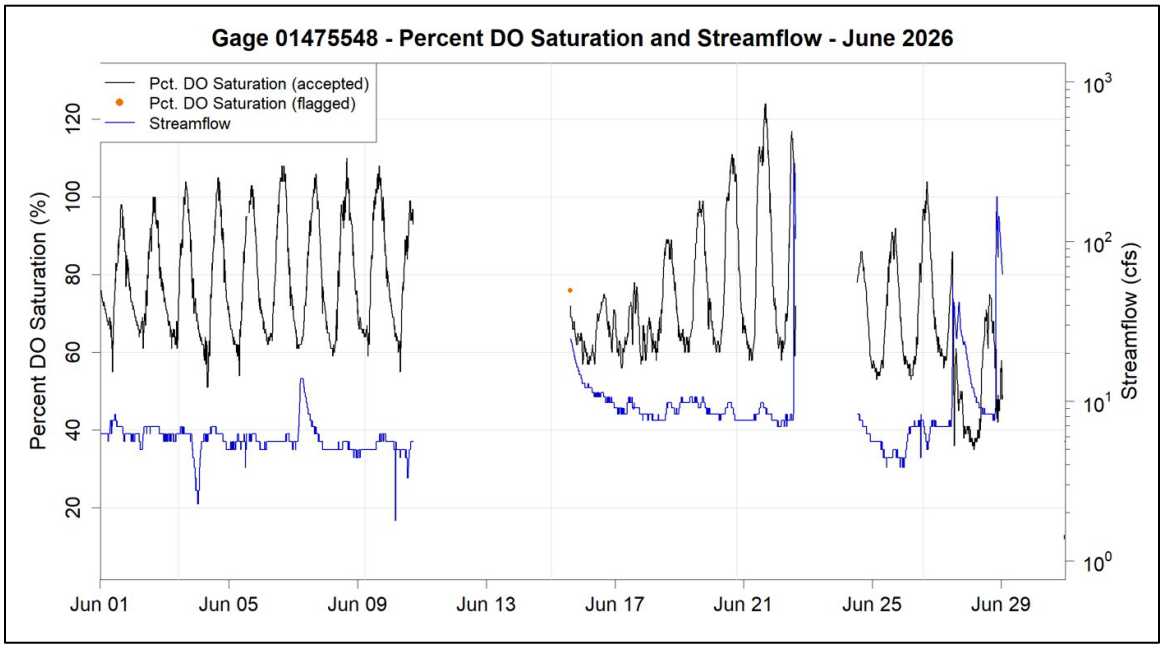


Figure 21. Gage 01475548, Percent DO Saturation and Streamflow, June 2026.



Figure 22. Gage 01475530, Cobbs Creek at Rte. 1, looking upstream



Figure 23. Gage 01475548, Cobbs Creek at Mt. Moriah Cemetery

Specific Conductance

Specific conductance observations were similar to those observed in Tacony Creek (Tables 24-25). During a typical winter, road salt may have some impact on conductance at both gages. However, the typical pattern of stormwater lowering conductance levels in the stream is well-observed during the storms that occurred in June (Figures 24-25).

Table 24. Gage 01475530 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2976	60	603	481.5	100	0
25-Aug	2969	75	645	575.9	100	0
25-Sep	2871	177	646	543.9	100	0
25-Oct	2976	57	637	570.6	100	0
25-Nov	2874	125	687	552.5	100	0
26-Mar	1630	223	755	642.7	100	0
26-Apr	2873	219	710	626.8	100	0
26-May	2973	113	684	584.2	100	0
26-Jun	2750	74	672	580.8	100	0

Table 25. Gage 01475548 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
26-Mar	618	569	810	734	100	0
26-Apr	2865	216	815	677	100	0
26-May	2967	167	789	628.9	100	0
26-Jun	2862	86	798	624.5	100	0

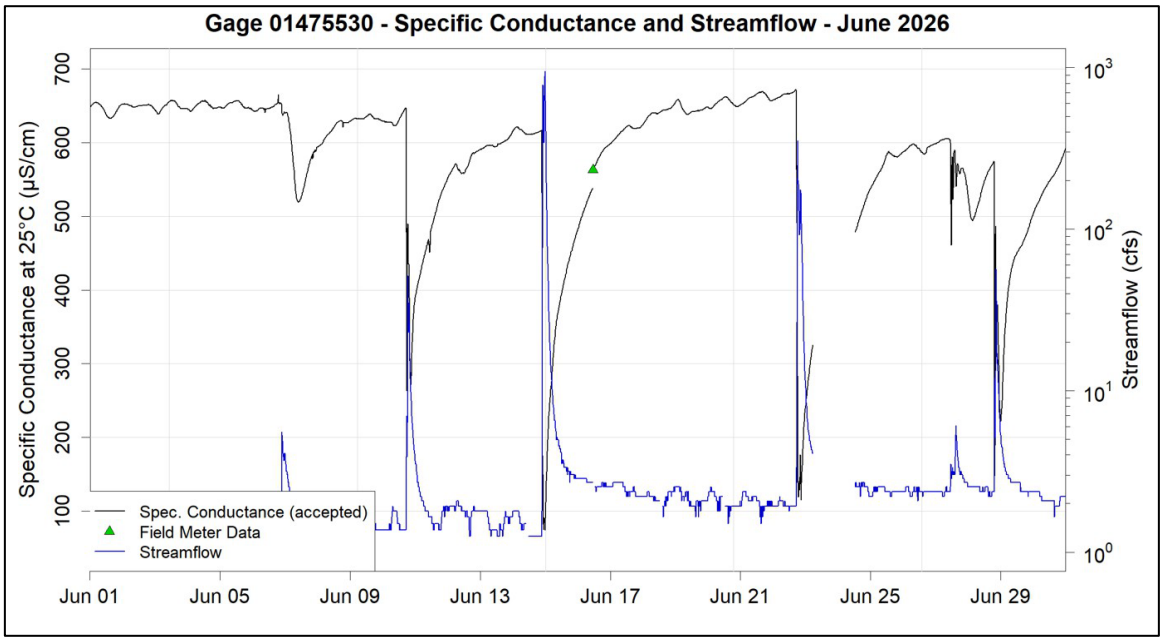


Figure 24. Gage 01475530, Specific Conductance and Streamflow, June 2026.

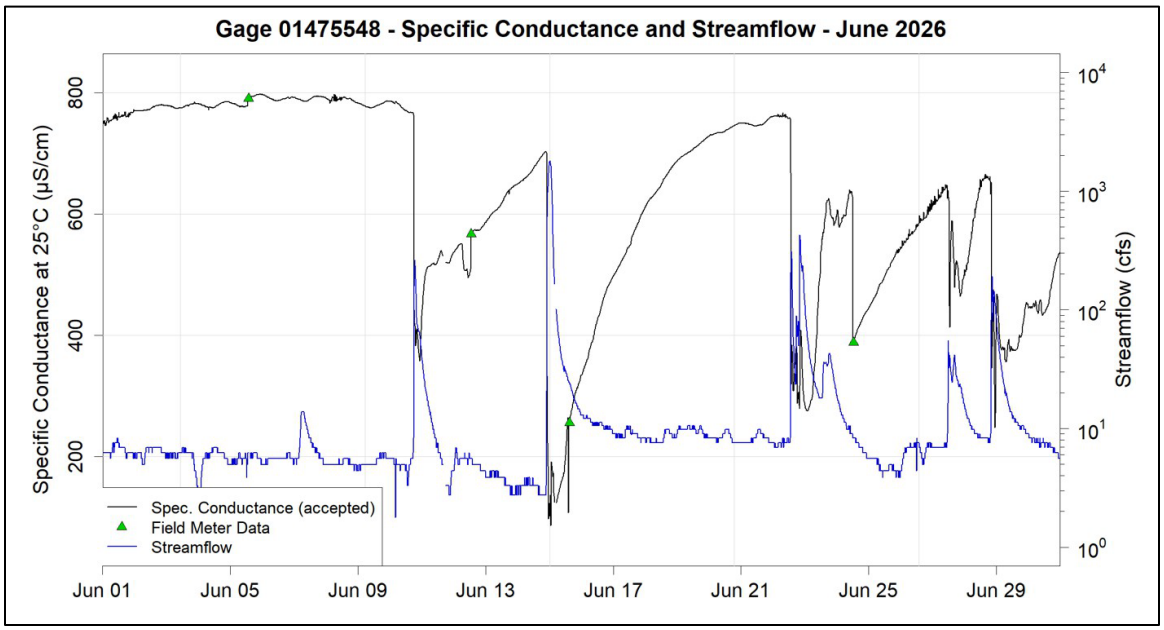


Figure 25. Gage 01475548, Specific Conductance and Streamflow, June 2026.

Temperature

Both Cobbs Creek gages showed that most exceedances of temperature maximum criteria occur during the spring season, when temperature criteria are more stringent (Tables 26-27).

Table 26. Gage 01475530 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Jul	31-Jul	0	100	0	100	20.2	28.6	24.1
WWF	1-Aug	15-Aug	0	100	0	100	18.8	26.4	22.2
WWF	16-Aug	30-Aug	0	100	0	100	16.6	27.9	20.8
WWF	1-Sep	15-Sep	0	100	0	100	16.2	23.6	19.5
WWF	16-Sep	30-Sep	0	100	0	100	16.7	22.8	19.8
WWF	1-Oct	15-Oct	0	100	0	100	12.1	20.1	16.3
WWF	16-Oct	31-Oct	0	100	0	100	9	16	12.5
WWF	1-Nov	15-Nov	0	100	0	100	5.9	13.6	9.9
WWF	16-Nov	30-Nov	12.9	87.1	0	100	3.6	12.8	8
WWF	1-Mar	31-Mar	70.6	29.4	0	100	4.4	16.1	9.8
WWF	1-Apr	15-Apr	82	18	0	100	7.4	20.5	13.7
WWF	16-Apr	30-Apr	45.5	54.5	0	100	8.5	22.9	14.7
WWF	1-May	15-May	5.4	94.6	0	100	10.6	20.4	15.1
WWF	16-May	31-May	11.7	88.3	0	100	13.2	26.1	18.3
WWF	1-Jun	15-Jun	0	100	0	100	15.1	26.6	21
WWF	16-Jun	30-Jun	0	100	0	100	18.2	25.7	21.6

Table 27. Gage 01475548 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Mar	31-Mar	95.4	4.6	0.2	99.8	7.3	15.4	11.5
WWF	1-Apr	15-Apr	93.4	6.6	0.1	99.9	9	20.5	14.4
WWF	16-Apr	30-Apr	56.1	43.9	0	100	10	23.6	15.5
WWF	1-May	15-May	7.5	92.5	0	100	12.3	19.9	16
WWF	16-May	31-May	19.2	80.8	0	100	13.5	26.7	19.3
WWF	1-Jun	15-Jun	3.5	96.5	0	100	17	27.6	22.5
WWF	16-Jun	30-Jun	0	100	0	100	20.1	26.1	22.9

Gages in Separate Sewer System Watersheds

Gages in the Pennypack, Wissahickon and Poquessing watersheds are situated in the separate sewer system areas of Philadelphia. Although these sites are not affected by combined sewer overflows, discharge of untreated stormwater runoff from stormwater outfalls can negatively affect water quality.

Pennypack Creek (Gages 01467042 and 01467048)



Dissolved oxygen and pH

Both the upstream (01467042) and downstream (01467048) gages of Pennypack Creek showed pronounced diel fluctuations in dissolved oxygen and pH as a result of algal activity. These patterns are most evident during dry weather periods, when algal growth is able to excel because of abundant sunshine and a lack of storm events that might otherwise scour the algal population. Both upstream and downstream almost always met the minimum dissolved oxygen criterion and never exceeded the 7-day average guideline (Tables 28-29, Figures 26-29).

At both upstream and downstream Pennypack Creek gages, periods of dry weather in warm months are conducive to excessive algal growth. During these periods, algal populations seemed to flourish, with large daily DO amplitudes during April (Figures 30-31).

In April, daily pH fluctuations of more than 1 unit were observed during dry weather (Figures 32-33). In the spring, maximum pH criteria were met at the upstream gage but exceeded several times at the downstream gage, before being lowered by rainfall (Tables 30-31). It would be reasonable to conclude that if not for periodic interruptions of algal activity due to rainfall, these fluctuations and chronic pH criteria exceedance would likely occur through the entire season.

Algal communities in the area of both gages recover quickly after storm events, as seen in Figures 32-33. Prior to small storms occurring in April 2026, both DO and pH showed

the typical pronounced fluctuations indicative of strong algal activity. This pattern diminished with the storms, when much of the algae was likely scoured away and overcast conditions likely inhibited further growth, as indicated by the PAR data at 01467048 for April 2026 (Figure 34). However, within 2-3 days of the conclusion of the rainfall and the return of sunny conditions, fluctuations of DO and pH resumed, indicative of high algal density. This not only demonstrates the resilience of the algal population in this ecosystem, but also a likely abundance of nutrients that allows regrowth to occur so quickly.

Table 28. Gage 01467042 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	TSF	2971	5.2	12.8	7.8	100	0	0	100
25-Aug	TSF	2862	5.5	12.0	8.3	100	0	0	100
25-Sep	TSF	2866	5.9	11.3	8.4	100	0	0	100
25-Oct	TSF	2964	6.9	12.2	9.6	100	0	0	100
25-Nov	TSF	2874	8.5	13.0	10.7	100	0	0	100
26-Mar	TSF	2628	8	17.9	11.5	100	0	0	100
26-Apr	TSF	2869	4.7	16.7	9.8	100	0	0.6	99.4
26-May	TSF	2962	5.1	10.7	8.2	100	0	0	100
26-Jun	TSF	2875	5.2	12.2	8	100	0	0	100

Table 29. Gage 01467048 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	TSF	2968	5.2	15.9	8.2	100	0	0	100
25-Aug	TSF	2974	5.8	15.9	8.8	100	0	0	100
25-Sep	TSF	2873	6.1	14.8	8.5	100	0	0	100
25-Oct	TSF	2967	7	15.3	9.7	100	0	0	100
25-Nov	TSF	2643	8.4	13.2	10.7	100	0	0	100
26-Mar	TSF	2630	8.5	18.8	11.9	100	0	0	100
26-Apr	TSF	2873	5.6	17.7	10.1	99.9	0.1	0	100
26-May	TSF	2971	4.9	12.5	8.7	100	0	0	100
26-Jun	TSF	2874	4.8	14.6	8.4	100	0	0.6	99.4

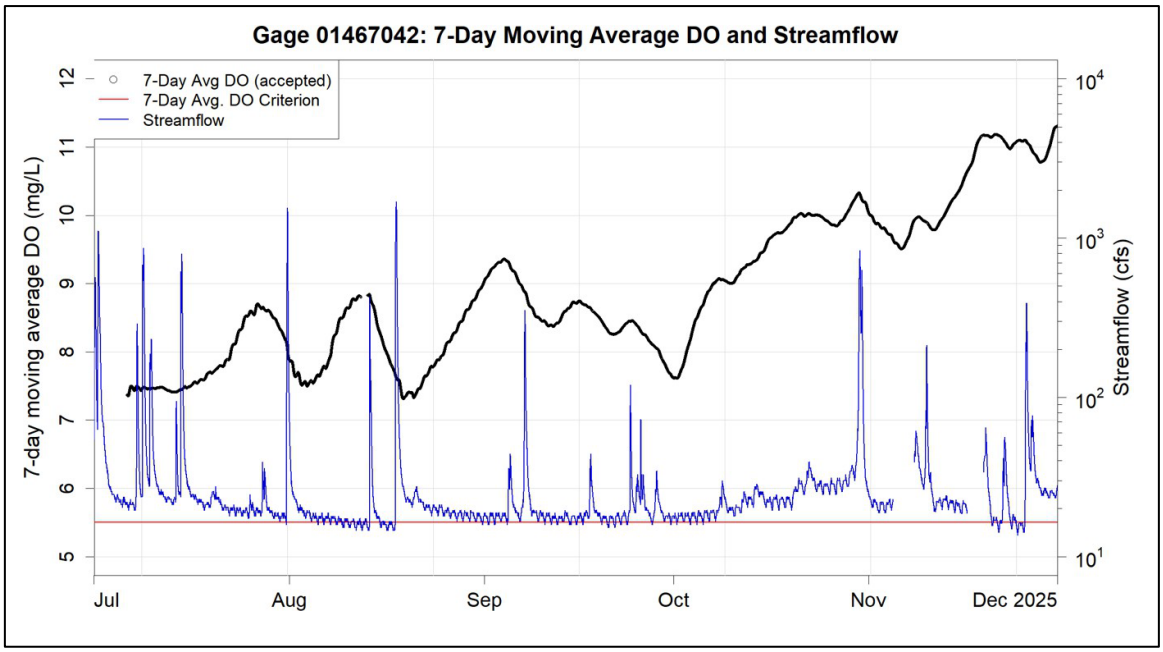


Figure 26. Gage 01467042, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

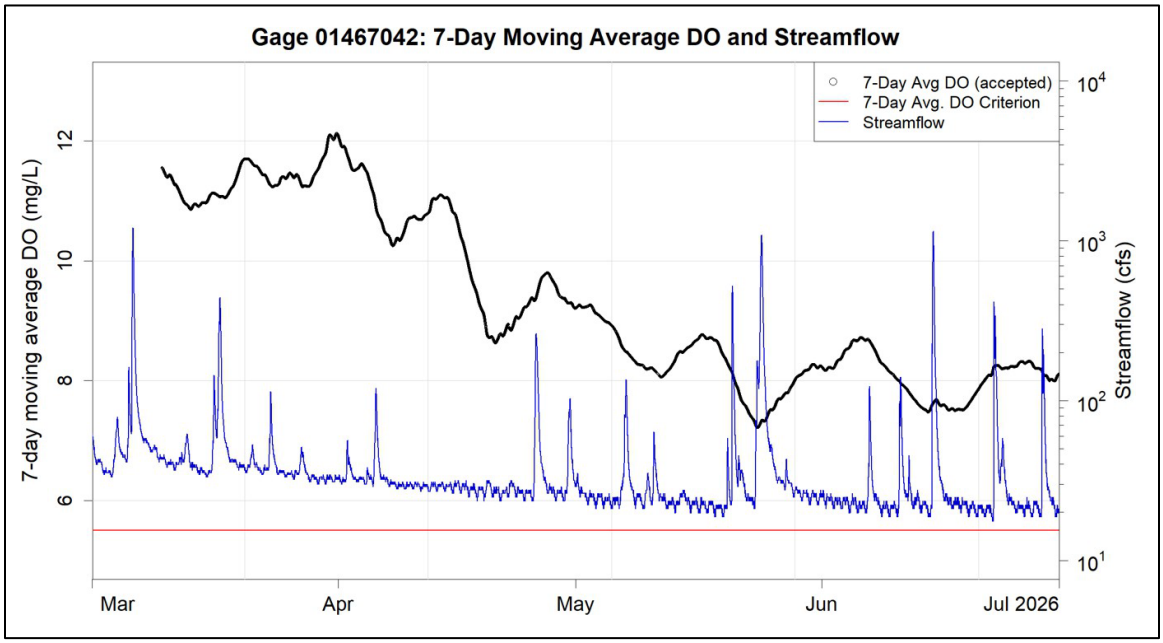


Figure 27. Gage 01467042, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

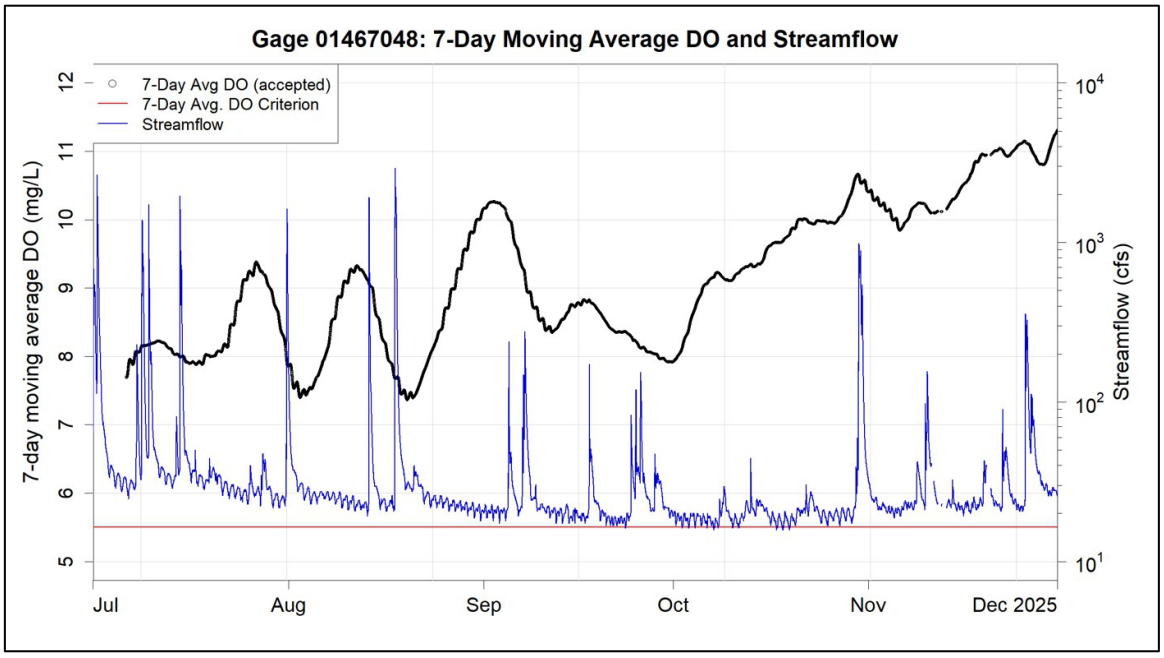


Figure 28. Gage 01467048, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

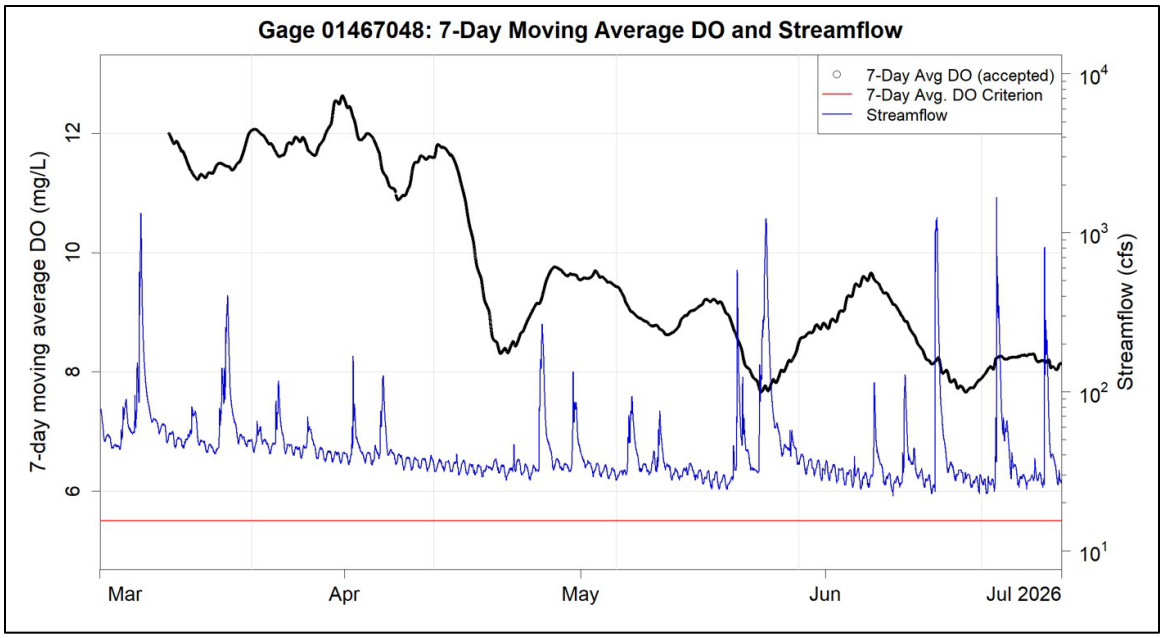


Figure 29. Gage 01467048, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

Table 30. Gage 01467042 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2966	7.0	8.8	7.7	100	0	0	0	100	100
25-Aug	2862	7.0	8.7	7.7	100	0	0	0	100	100
25-Sep	2867	7.3	8.3	7.7	100	0	0	0	100	100
25-Oct	2947	7.2	8.2	7.7	100	0	0	0	100	100
25-Nov	2873	7.3	7.8	7.6	100	0	0	0	100	100
26-Mar	2628	7.1	9.1	7.7	100	0	0	0	100	100
26-Apr	2868	7.2	9	7.7	100	0	0	0	100	100
26-May	2960	7.1	7.9	7.5	100	0	0	0	100	100
26-Jun	2873	7.2	8.6	7.7	100	0	0	0	100	100

Table 31. Gage 01467048 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2972	6.8	9.2	7.8	100	0	0	2.4	100	97.6
25-Aug	2969	6.9	9.1	7.9	100	0	0	2.9	100	97.1
25-Sep	2877	7.1	9.1	7.8	100	0	0	0.9	100	99.1
25-Oct	2964	7.2	8.6	7.8	100	0	0	0	100	100
25-Nov	2638	7.3	8.0	7.6	100	0	0	0	100	100
26-Mar	2630	7.2	9.3	8.1	100	0	0	3	100	97
26-Apr	2873	7.2	9.2	8	99.9	0.1	0	3.8	100	96.2
26-May	2971	6.9	8.6	7.7	100	0	0	0	100	100
26-Jun	2875	7	9.1	7.9	100	0	0	0.4	100	99.6

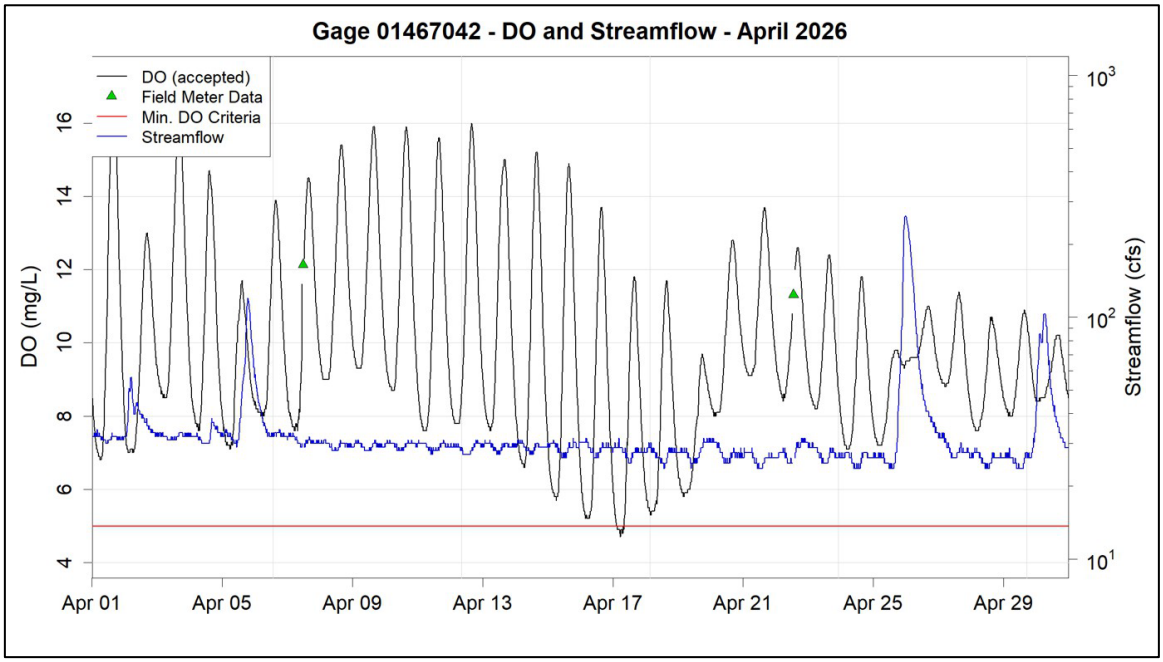


Figure 30. Gage 01467042, Dissolved Oxygen and Streamflow, April 2026.

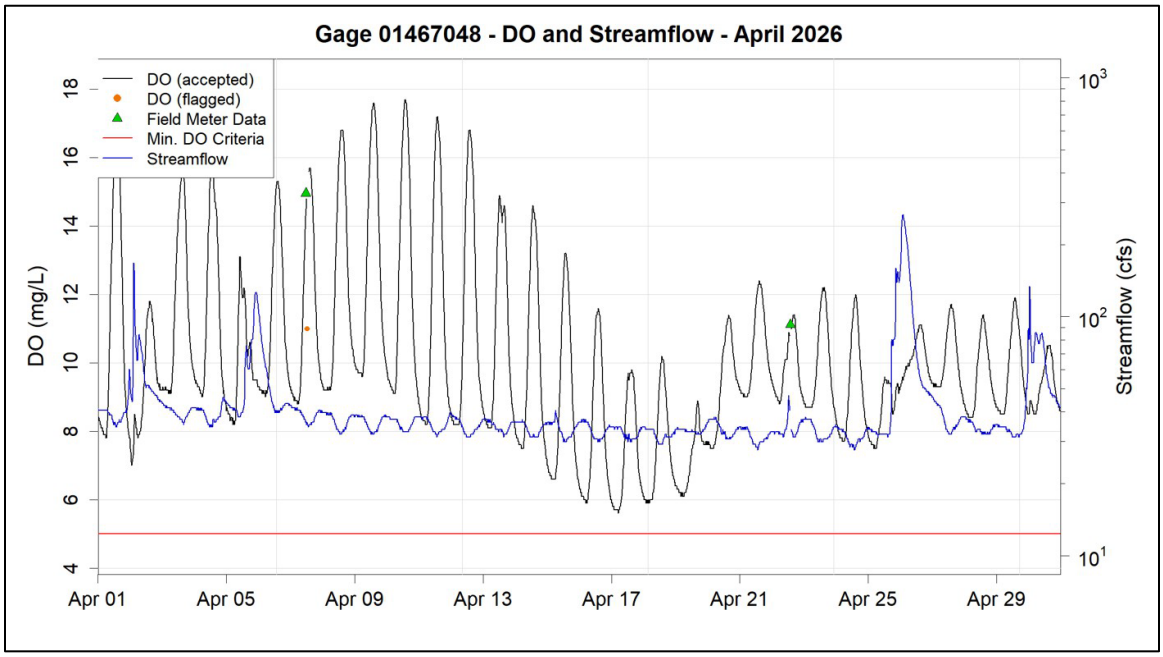


Figure 31. Gage 01467048, Dissolved Oxygen and Streamflow, April 2026.

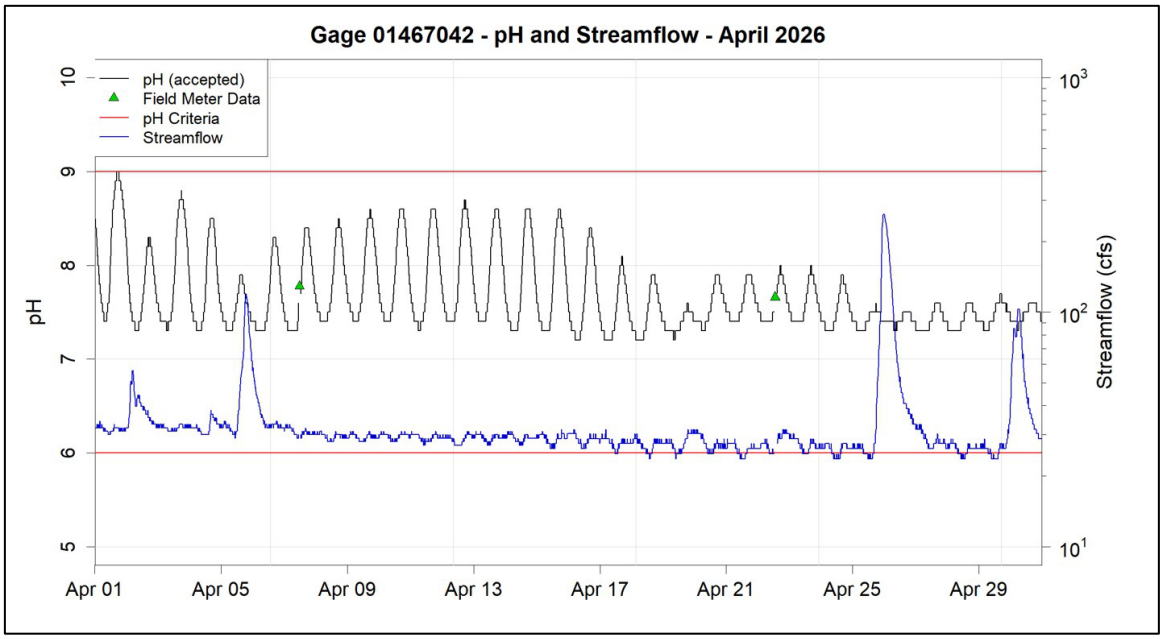


Figure 32. Gage 01467042, pH and Streamflow, April 2026.

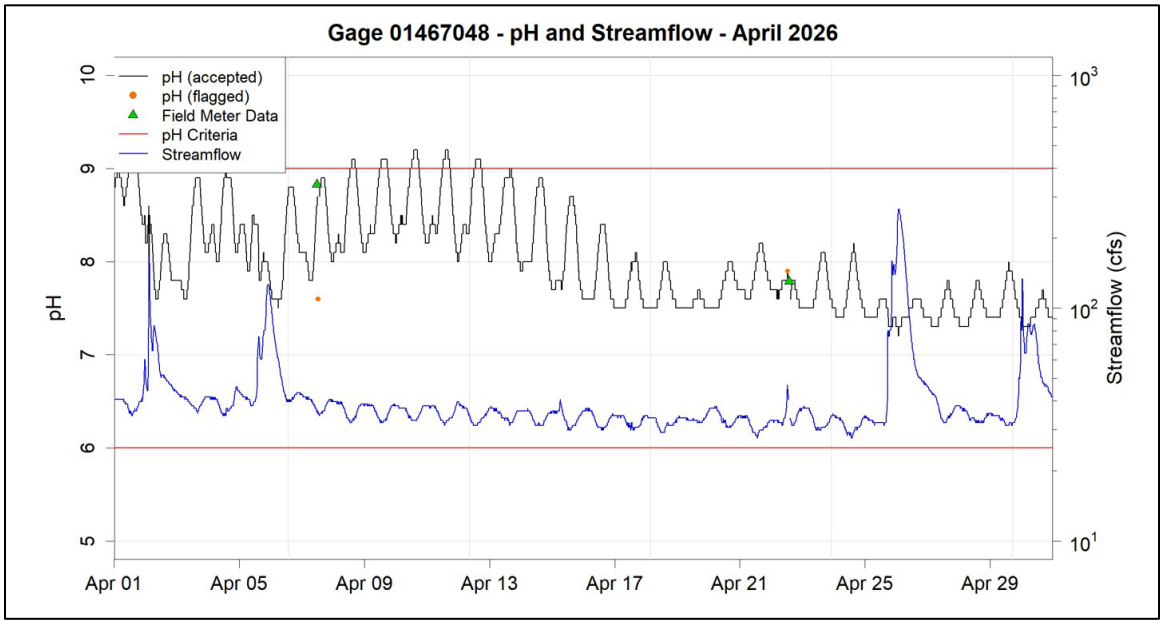


Figure 33. Gage 01467048, pH and Streamflow, April 2026.

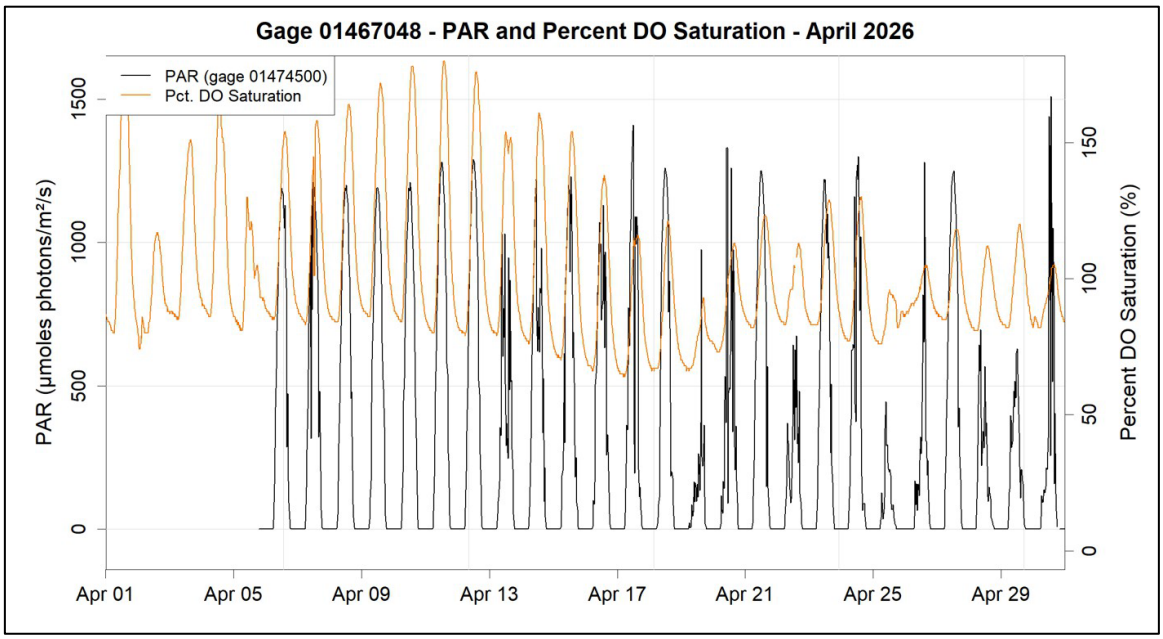


Figure 34. Gage 01467048, PAR and Percent Dissolved Oxygen Saturation, April 2026.



Figure 35. Gage 01467042, Pennypack Creek at Pine Rd., looking upstream



Figure 36. Gage 01467048, Pennypack Creek at Lower Rhawn St. Bridge, looking upstream

Turbidity

Turbidity data at the Pennypack Creek gages tend to reflect streamflow conditions. When there is high flow (*i.e.,* during and after storms), increases in turbidity are common and expected, as sediment in the creek bed is resuspended and particles present in runoff enter the stream (Figures 37-38). The downstream gage generally exhibited similar turbidity values throughout the year (Tables 32-33).

Flagged data are often due to periods during the month when sondes report high turbidity values that were corrected after the instrumentation was cleaned. After a storm, optical sensors such as those used to detect dissolved oxygen and turbidity can return inaccurate readings due to the sonde pipe becoming clogged with sediment and other debris. When turbidity readings come down after a cleaning, it is typical procedure to flag data back to the end of a storm, when the sonde pipe likely became clogged and did not reflect actual conditions in the stream.

Table 32. Gage 01467042, Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	2970	1.1	293	7.3	100	0	35.5	64.5
25-Aug	2860	0.3	385	4.4	100	0	19.5	80.5
25-Sep	2872	0.6	45.4	2.4	100	0	13.9	86.1
25-Oct	2967	0.3	136	3	100	0	8	92
25-Nov	2874	0.4	50.5	2.2	100	0	13.3	86.7
26-Mar	2628	1	350	7.6	100	0	63.5	36.5
26-Apr	2869	0.6	29.6	1.6	100	0	8.9	91.1
26-May	2967	0.8	356	7.5	100	0	30.4	69.6
26-Jun	2875	0.4	180	3.8	100	0	14.8	85.2

Table 33. Gage 01467048, Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	2968	0.4	346	9.2	100	0	24.7	75.3
25-Aug	2974	0.4	336	5.1	100	0	13	87
25-Sep	2875	0.5	85.8	2.5	100	0	15.5	84.5
25-Oct	2963	0.3	530	3.4	100	0	10.1	89.9
25-Nov	2644	0.6	119	3.3	100	0	24.2	75.8
26-Mar	2632	1.1	372	8.5	100	0	33	67
26-Apr	2873	1	93.1	3.7	100	0	27.3	72.7
26-May	2968	0.9	209	6.3	100	0	37	63
26-Jun	2872	0.6	578	6.4	100	0	22.8	77.2

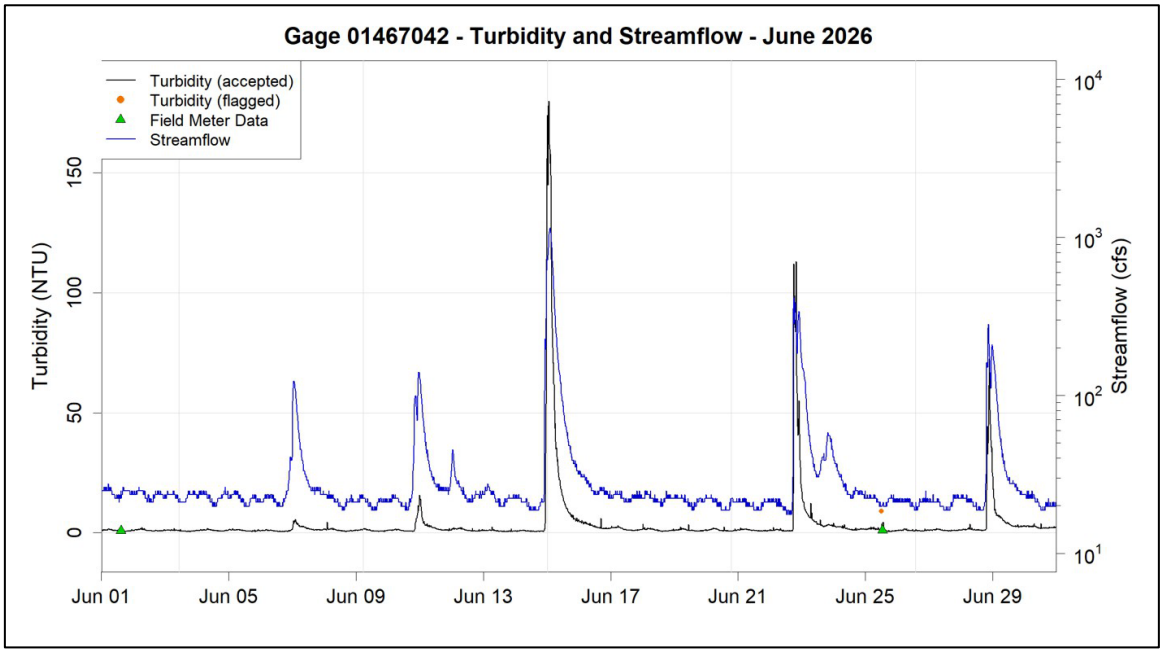


Figure 37. Gage 01467042, Turbidity and Streamflow, June 2026.

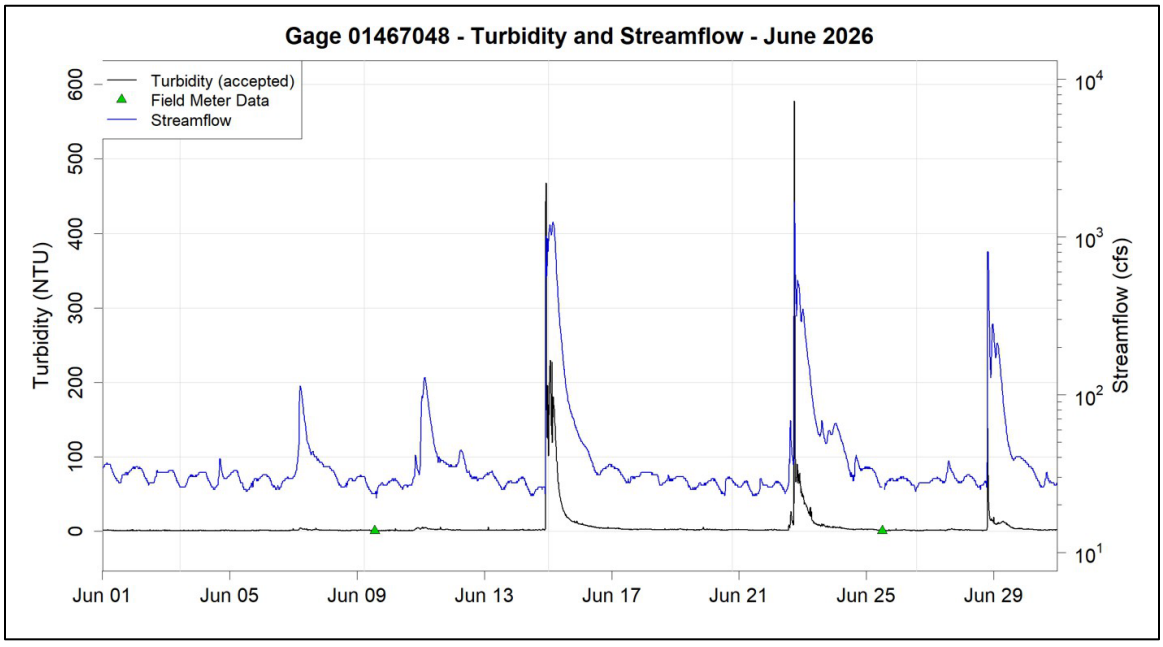


Figure 38. Gage 01467048, Turbidity and Streamflow, June 2026.

Specific Conductance

Specific conductance data were similar to other Philadelphia area streams. Elevated mean and maximum conductance values at both gages may be evidence of the effects of stormwater runoff and snowmelt containing road salt during a typical year (Tables 34-35).

Table 34. Gage 01467042 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2973	144.2	730.5	567.3	100	0
25-Aug	2865	126	753	609.5	100	0
25-Sep	2869	332.5	908	671.6	100	0
25-Oct	2969	180	833	746.8	100	0
25-Nov	2875	304	779	618.3	100	0
26-Mar	2626	504	1530	897.9	100	0
26-Apr	2867	500	884	800.2	100	0
26-May	2966	192	937	729.8	100	0
26-Jun	2871	205	894	711.2	100	0

Table 35. Gage 01467048 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2971	62	710	530.3	100	0
25-Aug	2972	124	749	567.6	100	0
25-Sep	2873	312	775	613.6	100	0
25-Oct	2965	170	823	708	100	0
25-Nov	2644	203	737	540.9	100	0
26-Mar	2630	474	1440	853.7	100	0
26-Apr	2871	405	884	757.7	100	0
26-May	2969	211	882	682.3	100	0
26-Jun	2874	95	867	654.6	100	0

Temperature

Temperature data showed variable attainment of maximum temperature criteria (Tables 36-37). Spring and early summer months are always subject to major air temperature fluctuations, and reliably predicting average stream temperatures during these periods is difficult at best. Maximum criteria for the summer months, for example, do not take into account natural summer temperature peaks. Above normal air temperatures are the likely cause of stream temperature exceedance rates in Spring 2026 (Figures 39-40).

Table 36. Gage 01467042 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
TSF	1-Jul	31-Jul	85.7	14.3	0	100	21.08	28.33	24.6
TSF	1-Aug	15-Aug	0	100	0	100	19.82	25.85	22.4
TSF	16-Aug	30-Aug	0	100	0	100	17.74	26.65	21.1
TSF	1-Sep	15-Sep	0	100	0	100	17.1	23.3	19.8
TSF	16-Sep	30-Sep	0	100	0	100	17.2	22.5	20.1
TSF	1-Oct	15-Oct	0	100	0	100	12.9	19.7	16.4
TSF	16-Oct	31-Oct	0	100	0	100	9	15.6	12.5
TSF	1-Nov	15-Nov	0	100	0	100	6.6	13.6	10
TSF	16-Nov	30-Nov	10.1	89.9	0	100	4	11.4	7.9
TSF	1-Mar	31-Mar	70.5	29.5	0	100	5.4	15	9.9
TSF	1-Apr	15-Apr	90.2	9.8	0.1	99.9	8.8	20.4	14.1
TSF	16-Apr	30-Apr	52.4	47.6	0	100	9.4	23.2	15.3
TSF	1-May	15-May	9.7	90.3	0	100	12.4	20.2	16
TSF	16-May	31-May	38.1	61.9	0	100	13.3	26.4	19.2
TSF	1-Jun	15-Jun	69.1	30.9	0	100	16.7	27	22.1
TSF	16-Jun	30-Jun	59.3	40.7	0	100	19.5	25.9	22.3

Table 37. Gage 01467048, Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
TSF	1-Jul	31-Jul	99.7	0.3	0	100	23.0	30.5	25.7
TSF	1-Aug	15-Aug	1.6	98.4	0	100	20.8	27.9	23.6
TSF	16-Aug	30-Aug	0	100	0	100	18.1	28.4	22
TSF	1-Sep	15-Sep	0	100	0	100	18.0	24.7	20.5
TSF	16-Sep	30-Sep	0	100	0	100	17.3	23.4	20.7
TSF	1-Oct	15-Oct	0	100	0	100	13.4	20.6	16.9
TSF	16-Oct	31-Oct	0	100	0	100	9.1	15.9	12.8
TSF	1-Nov	15-Nov	0	100	0	100	6.0	13.3	10.3
TSF	16-Nov	30-Nov	7.5	92.5	0	100	4.1	11.7	7.7
TSF	1-Mar	31-Mar	72.8	27.2	0	100	5.6	14.7	9.9
TSF	1-Apr	15-Apr	94.7	5.3	0.1	99.9	10	20.4	14.6
TSF	16-Apr	30-Apr	62.2	37.8	0	100	10.8	24	16
TSF	1-May	15-May	19.3	80.7	0	100	13.2	20.8	16.5
TSF	16-May	31-May	43.8	56.2	0	100	13.6	27.8	19.8
TSF	1-Jun	15-Jun	77.2	22.8	0	100	17.9	29	23.1
TSF	16-Jun	30-Jun	84.6	15.4	0	100	20.3	26.4	23.3

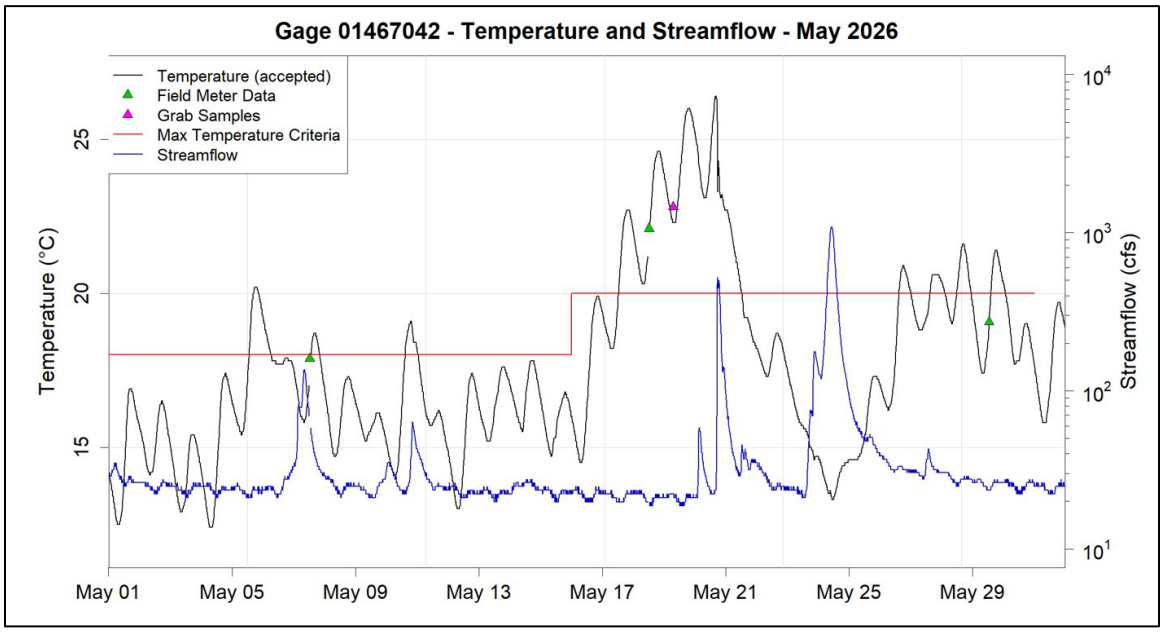


Figure 39. Gage 01467042, Temperature and Streamflow, May 2026.

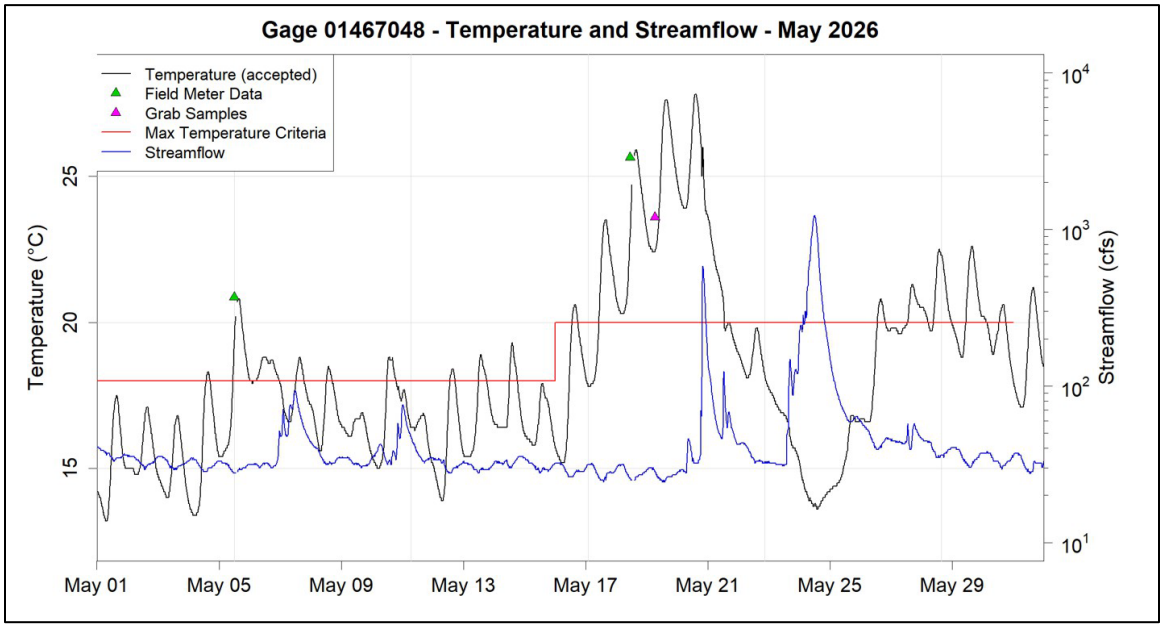
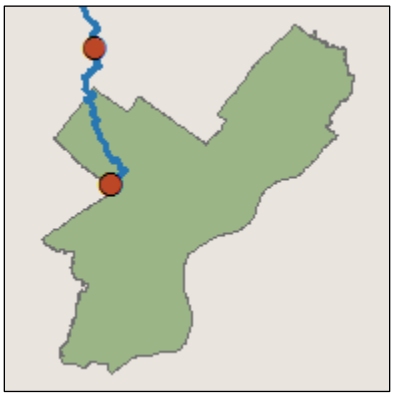


Figure 40. Gage 01467048, Temperature and Streamflow, May 2026.

Wissahickon Creek (Gages 01473900 and 01474000)



Dissolved oxygen and pH

Dissolved oxygen and pH data collected from the upstream (01473900) and downstream (01474000) Wissahickon Creek gages also show signs of strong algal activity in the form of diel fluctuations (Tables 38-39; 40-41). Although these two sites never exceeded the 7-day average guideline for dissolved oxygen (Figures 41-44), the upper gage (01473900) exhibits some of the most dramatic diel fluctuations of any of the Philadelphia USGS gage sites. In May 2026, dissolved oxygen can be observed to fluctuate by approximately 10 mg/L in a single day/night period (Figure 45), with pH experiencing significant swings at the same time (Figure 46). The pH maxima were exceeded in spring, a direct result of algal activity (Table 40).

Table 38. Gage 01473900 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	TSF	2970	5.1	12.8	7.8	100	0	0	100
25-Aug	TSF	2971	4.6	14.3	8.4	100	0	1.3	98.7
25-Sep	TSF	2865	5.1	13.2	8.2	100	0	0	100
25-Oct	TSF	2966	1.2	13	8.6	100	0	1.9	98.1
25-Nov	TSF	2871	1.5	16.3	9.9	100	0	1.6	98.4
26-Mar	TSF	1770	6.3	20.2	12.2	99.9	0.1	0	100
26-Apr	TSF	2662	4.2	17.9	9.3	94.6	5.4	2.2	97.8
26-May	TSF	2867	2.8	14.8	8	99.9	0.1	6.5	93.5
26-Jun	TSF	2874	4.2	13.3	7.7	100	0	5.3	94.7

Table 39. Gage 01474000 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	TSF	1485	6.1	11.6	8.2	100	0	0	100
25-Aug	TSF	1483	6.2	11.8	8.6	100	0	0	100
25-Sep	TSF	1437	6.9	11.9	9	100	0	0	100
25-Oct	TSF	1483	7.6	12.6	10	100	0	0	100
25-Nov	TSF	1435	9.3	13.2	11.2	100	0	0	100
26-Mar	TSF	881	9.2	17.7	12.4	100	0	0	100
26-Apr	TSF	1427	6.2	15.2	10.3	100	0	0	100
26-May	TSF	1400	4.3	14.2	9.3	100	0	1	99
26-Jun	TSF	1431	5.4	13.1	8.4	100	0	0	100

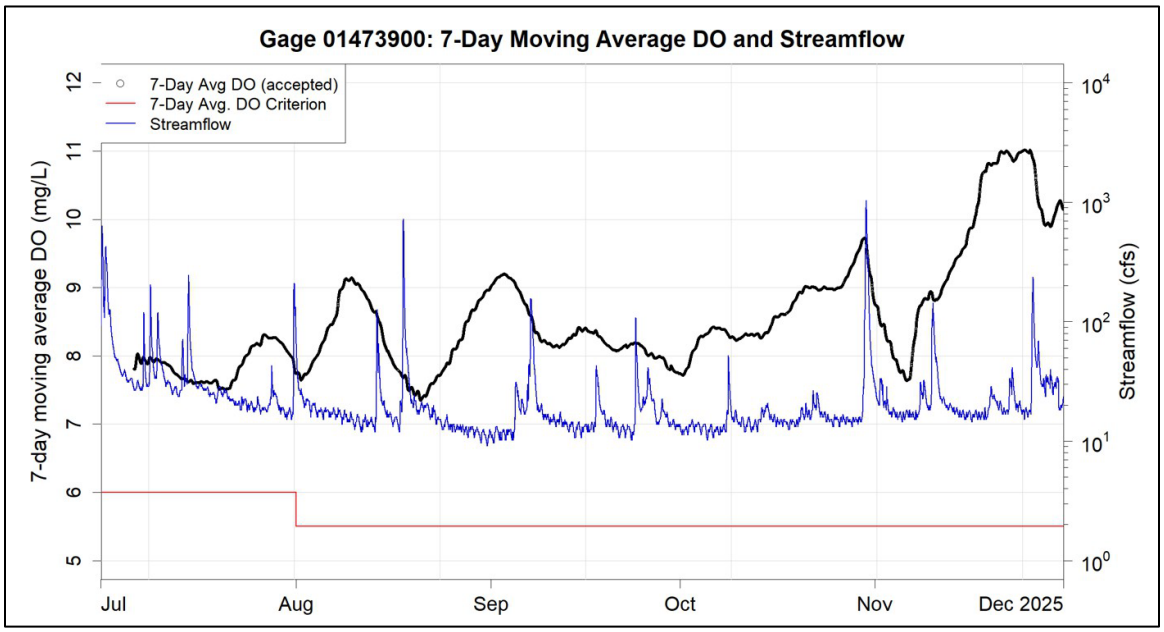


Figure 41. Gage 01473900, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

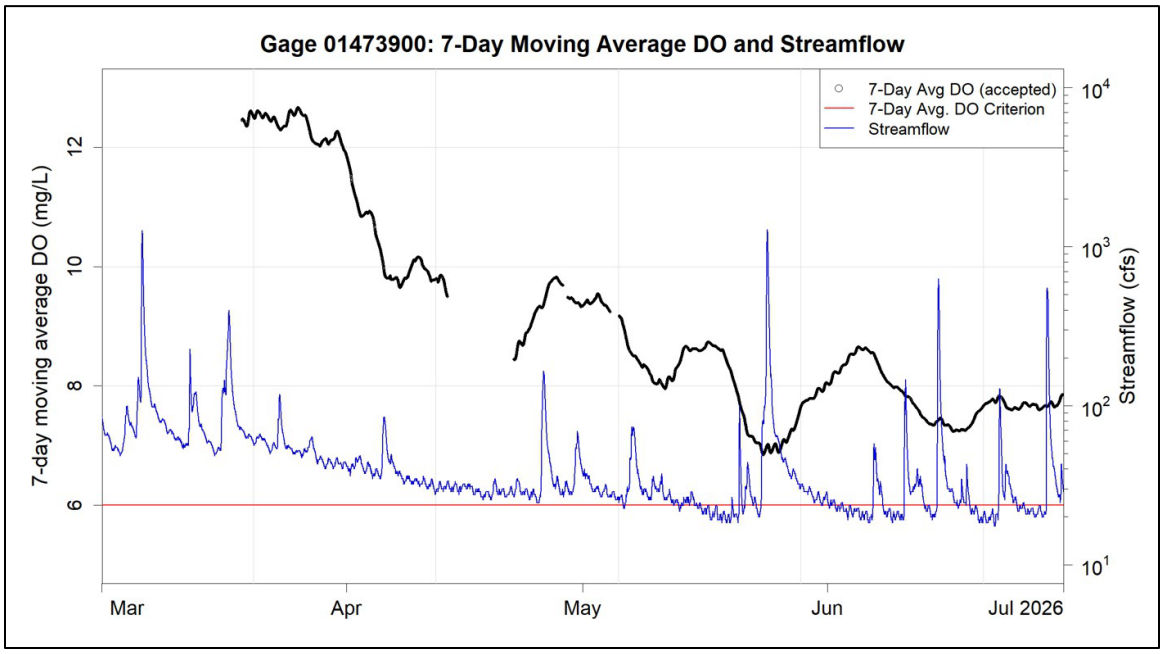


Figure 42. Gage 01473900, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

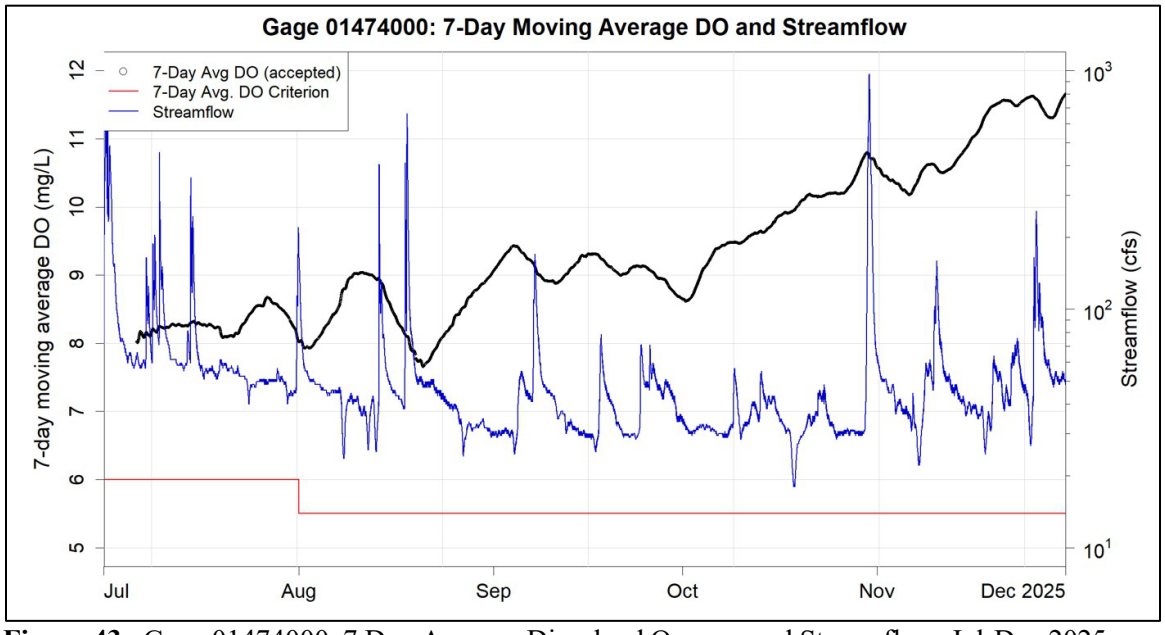


Figure 43. Gage 01474000, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

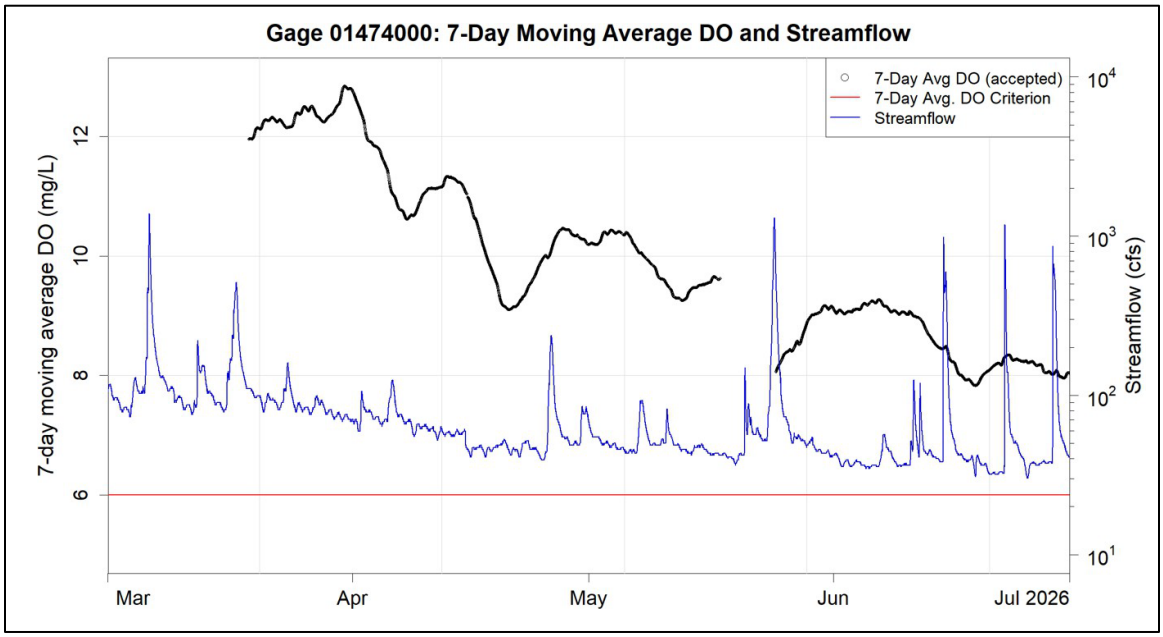


Figure 44. Gage 01474000, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

Table 40. Gage 01473900 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2970	7.4	8.5	7.8	100	0	0	0	100	100
25-Aug	2971	7.4	8.6	7.9	100	0	0	0	100	100
25-Sep	2865	7.5	8.6	7.9	100	0	0	0	100	100
25-Oct	2962	7.2	8.4	7.9	100	0	0	0	100	100
25-Nov	2871	7.2	8.8	7.9	100	0	0	0	100	100
26-Mar	1694	7.4	9.2	8.2	99.9	0.1	0	7.1	100	92.9
26-Apr	2821	6.9	9	7.7	100	0	0	0	100	100
26-May	2961	6.8	9.1	7.7	100	0	0	0	100	100
26-Jun	2874	7.3	8.6	7.8	100	0	0	0	100	100

Table 41. Gage 01474000 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	1481	7.3	8.6	8	100	0	0	0	100	100
25-Aug	1483	7.4	8.6	8.1	100	0	0	0	100	100
25-Sep	1437	7.6	8.5	8.2	100	0	0	0	100	100
25-Oct	1483	7.5	8.4	8.1	100	0	0	0	100	100
25-Nov	1435	7.5	8.3	8	100	0	0	0	100	100
26-Mar	881	7.9	9.3	8.6	100	0	0	17.3	100	82.7
26-Apr	1420	7.8	9.2	8.3	100	0	0	0.8	100	99.2
26-May	1401	7.3	8.8	8.1	100	0	0	0	100	100
26-Jun	1431	7.5	8.7	8.1	100	0	0	0	100	100

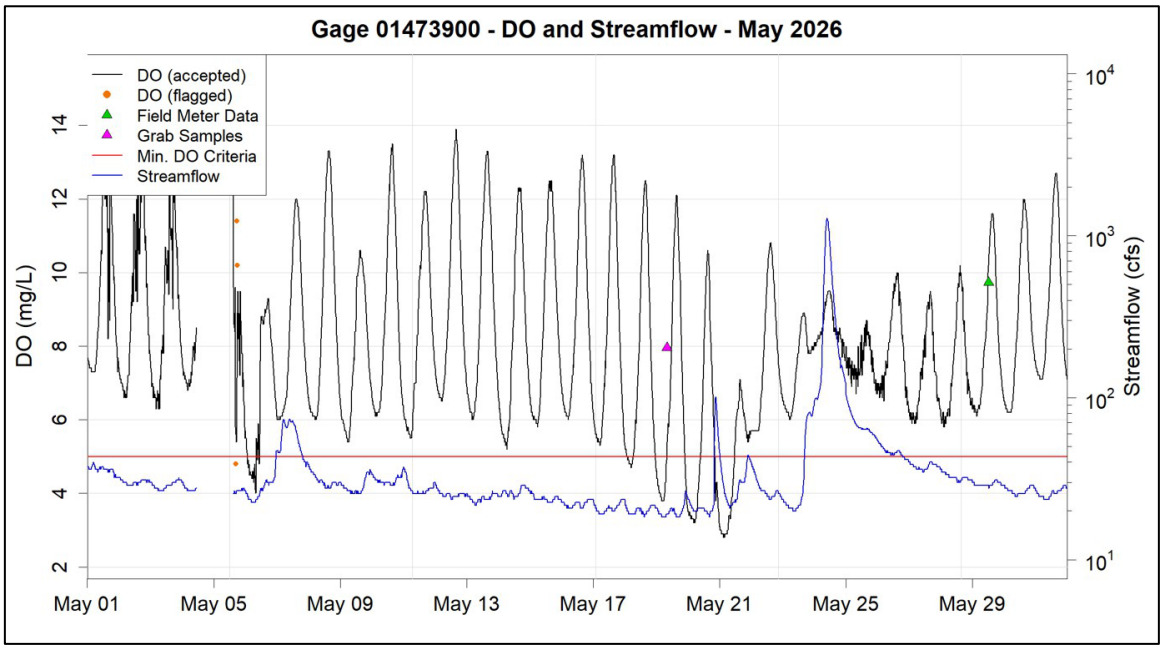


Figure 45. Gage 01473900, Dissolved Oxygen and Streamflow, May 2026.

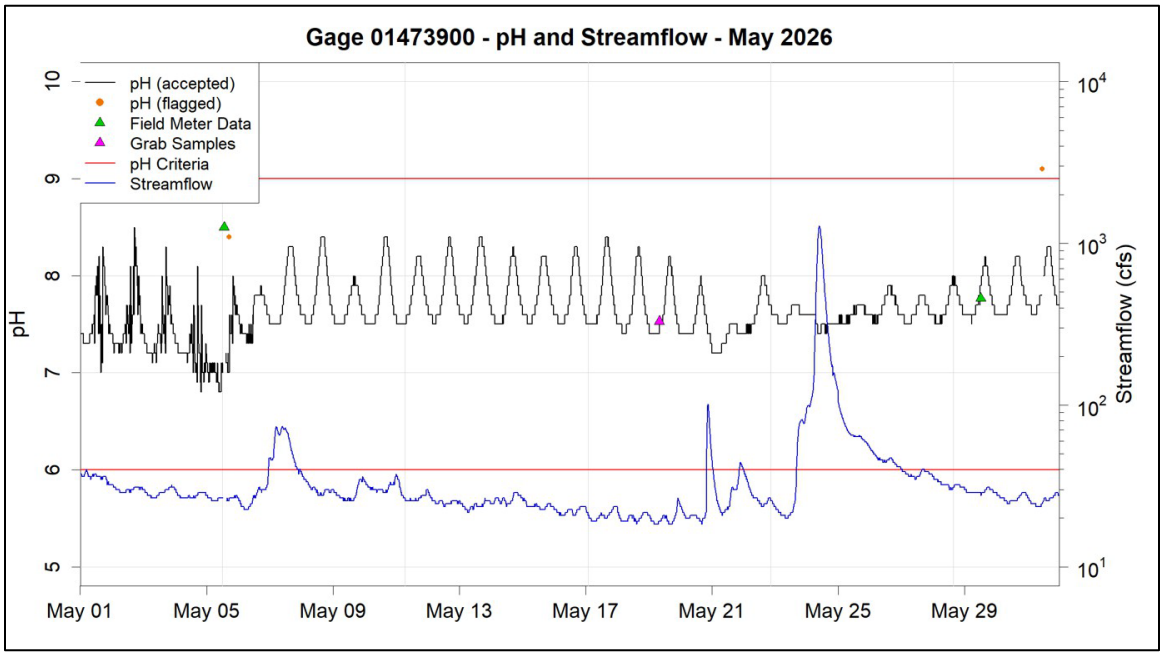


Figure 46. Gage 01473900, pH and Streamflow, May 2026.



Figure 47. Gage 01473900, Wissahickon Creek at Ft. Washington, looking downstream



Figure 48. Gage 01474000, Wissahickon Creek at mouth, looking downstream

Turbidity

Turbidity in the Wissahickon, as with most of Philadelphia's streams, increases drastically with increased flow from rainfall (Tables 42-43, Figure 49). It is possible that these spikes represent a temporarily fouled sensor (i.e., sediment or debris obscures the optical probe for turbidity), but the general rule in QAQC procedures is not to flag turbidity spikes that recede to normal levels on their own. If the sensor remains fouled after a storm or a field check confirms aberrant values, the data is flagged.

Table 42. Gage 01473900 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	2971	0.5	49.1	3.2	100	0	29.1	70.9
25-Aug	2971	0.3	97.6	3.2	100	0	25.8	74.2
25-Sep	2866	0.4	14.5	1.9	100	0	11.5	88.5
25-Oct	2965	0.5	126	2.6	100	0	7	93
25-Nov	2568	0.3	28.4	1.3	100	0	6.5	93.5
26-Mar	1696	1.8	24.4	4.5	100	0	77.8	22.2
26-Apr	2772	0.9	41.1	3.1	100	0	31.2	68.8
26-May	2545	0.6	418	5.2	100	0	35.9	64.1
26-Jun	2874	0.5	82.6	3	100	0	16.5	83.5

Table 43. Gage 01474000 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	1483	0.4	94.4	2.6	100	0	15	85
25-Aug	1485	0.3	70.5	1.6	100	0	7.2	92.8
25-Sep	1496	0.3	14.9	0.6	100	0	1.4	98.6
25-Oct	1514	0.3	118	1.8	100	0	5.5	94.5
25-Nov	1435	0.4	22.2	1.2	100	0	7.5	92.5
26-Mar	881	0.7	27.8	2.4	100	0	19.3	80.7
26-Apr	1426	0.4	12.2	1	100	0	4.3	95.7
26-May	1400	0.3	112	2.4	100	0	8.9	91.1
26-Jun	1431	0.3	261	4.6	100	0	14.1	85.9

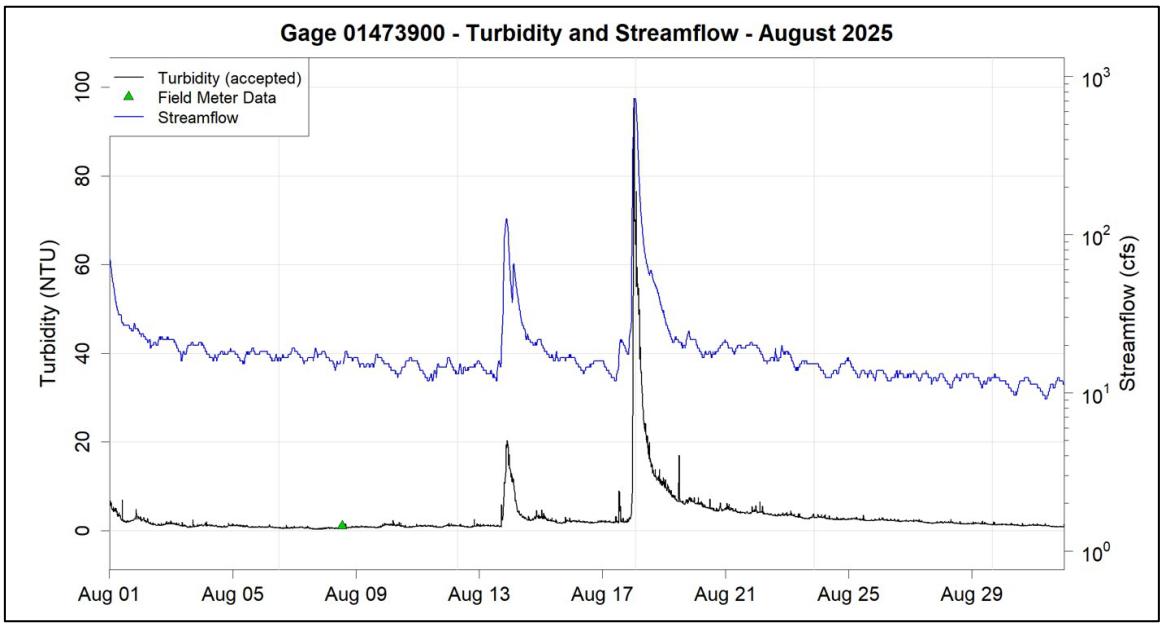


Figure 49. Gage 01473900, Turbidity and Streamflow, August 2025.

Specific Conductance

Specific conductance data at the Wissahickon Creek gage sites generally follow the established pattern in other Philadelphia streams: Runoff from rain events dilutes the stream and decreases conductivity (Figure 50; Tables 44-45). However, a reversal in this trend sometimes occurs during winter storms and during snowmelt, when it is presumed that the application of road salt (sodium chloride) prior to the storm washes into Wissahickon Creek and causes conductivity to increase in conjunction with streamflow.

Table 44. Gage 01473900 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2969	288	1220	819.7	100	0
25-Aug	2971	250	1100	904.8	100	0
25-Sep	2864	471	1160	968.2	100	0
25-Oct	2962	269	1470	1076.4	100	0
25-Nov	2870	512	1100	892.3	100	0
26-Mar	1769	611	1080	947.3	100	0
26-Apr	2817	655	1060	978.8	100	0
26-May	2967	257	1180	970.5	100	0
26-Jun	2864	272	1160	937.1	100	0

Table 45. Gage 01474000 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	1485	250	966	718.8	100	0
25-Aug	1483	362	903	771.8	100	0
25-Sep	1437	584	926	831	100	0
25-Oct	1483	261	1150	906.8	100	0
25-Nov	1435	326	937	762.2	100	0
26-Mar	881	618	996	855.3	100	0
26-Apr	1421	689	958	867.1	100	0
26-May	1401	268	972	835.2	100	0
26-Jun	1429	259	984	783.8	100	0

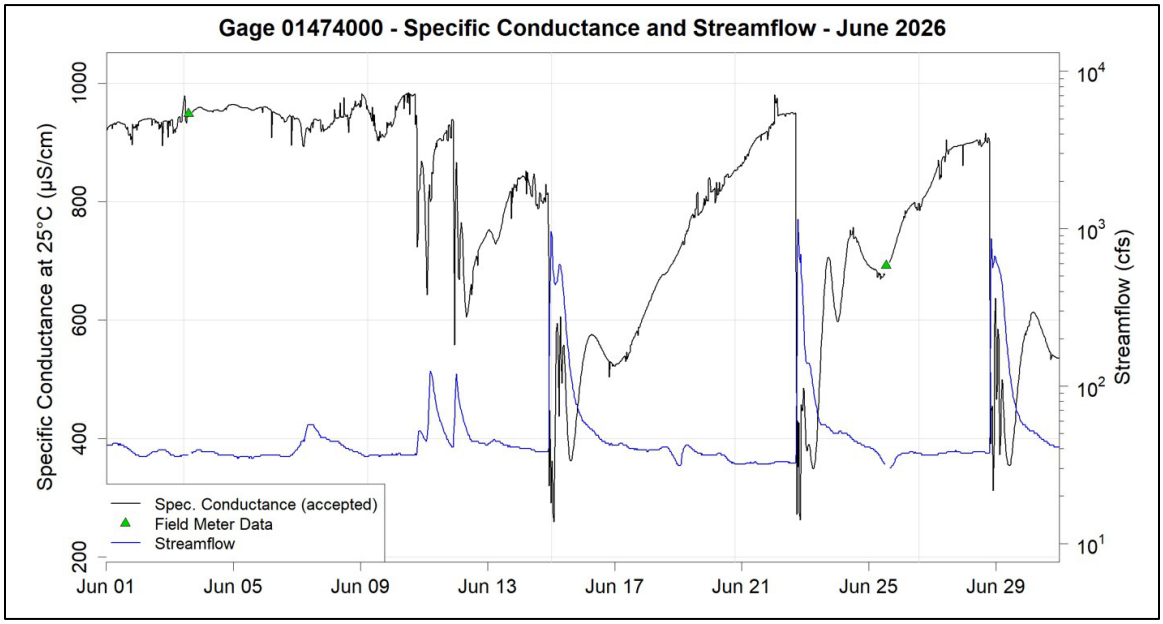


Figure 50. Gage 01474000, Specific Conductance and Streamflow, June 2026.

Temperature

Temperature trends and exceedance rates in Wissahickon Creek Watershed were similar to those observed in Pennypack Creek, with frequent exceedances during the spring in conjunction with higher ambient air temperatures (Tables 46-47, Figures 51-52).

Table 46. Gage 01473900 Temperature Summary Results by Month by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
TSF	1-Jul	31-Jul	82.3	17.7	0	100	20.8	28.6	24.5
TSF	1-Aug	15-Aug	0	100	0	100	19.7	26.4	22.7
TSF	16-Aug	30-Aug	0	100	0	100	17.6	27	21.4
TSF	1-Sep	15-Sep	0	100	0.1	99.9	17	23.8	20.1
TSF	16-Sep	30-Sep	0	100	0	100	17.4	22.8	20.4
TSF	1-Oct	15-Oct	0	100	0	100	12.8	20.4	16.9
TSF	16-Oct	31-Oct	0	100	0	100	9.6	16.4	13
TSF	1-Nov	15-Nov	0	100	0	100	7	13.9	10.6
TSF	16-Nov	30-Nov	19.9	80.1	0	100	4.5	11.7	8.5
TSF	1-Mar	31-Mar	75.7	24.3	0.1	99.9	5.3	15.1	9.9
TSF	1-Apr	15-Apr	89.8	10.2	0	100	8.6	20.1	13.9
TSF	16-Apr	30-Apr	56.3	43.7	0	100	9.1	22.9	15.3
TSF	1-May	15-May	11.4	88.6	0	100	11.9	20.8	15.9
TSF	16-May	31-May	34.1	65.9	0	100	13.2	26.6	19
TSF	1-Jun	15-Jun	61.5	38.5	0	100	16.2	27.2	21.7
TSF	16-Jun	30-Jun	48.4	51.6	0	100	19.1	25.4	22

Table 47. Gage 01474000 Temperature Summary Results by Month by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
TSF	1-Jul	31-Jul	93.8	6.2	0	100	22.1	28	24.9
TSF	1-Aug	15-Aug	0	100	0	100	20.5	25.6	22.9
TSF	16-Aug	30-Aug	0	100	0	100	17.9	26.6	21.5
TSF	1-Sep	15-Sep	0	100	0	100	17.6	22.6	19.7
TSF	16-Sep	30-Sep	0	100	0	100	18	22	20
TSF	1-Oct	15-Oct	0	100	0	100	13.9	20	16.4
TSF	16-Oct	31-Oct	0	100	0	100	9.6	15.3	12.4
TSF	1-Nov	15-Nov	0	100	0	100	6.5	12.8	9.9
TSF	16-Nov	30-Nov	2.3	97.7	0	100	5	10.8	7.8
TSF	1-Mar	31-Mar	79.4	20.6	0	100	6	13.6	9.9
TSF	1-Apr	15-Apr	92.6	7.4	0	100	9.5	18.7	14
TSF	16-Apr	30-Apr	56.6	43.4	0	100	10.9	22.5	15.6
TSF	1-May	15-May	4.6	95.4	0	100	12.8	19.1	16
TSF	16-May	31-May	26.4	73.6	0	100	13.7	25.4	18.8
TSF	1-Jun	15-Jun	69.8	30.2	0	100	17.4	26.6	22
TSF	16-Jun	30-Jun	68.4	31.6	0	100	20.2	25.2	22.5

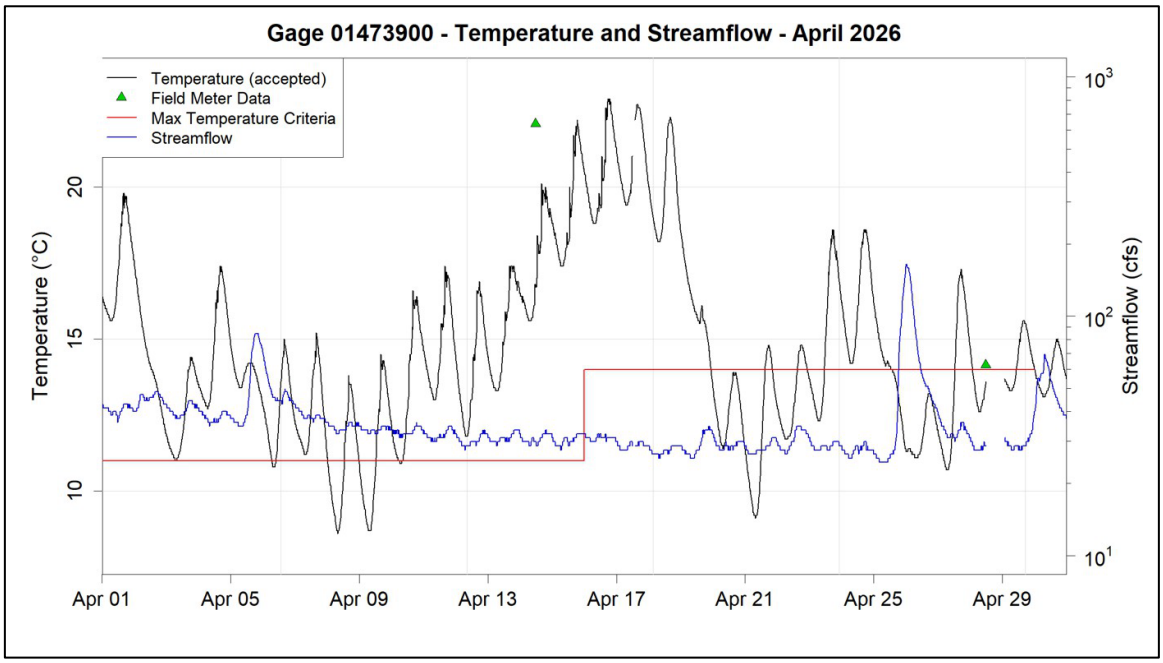


Figure 51. Gage 01473900, Temperature and Streamflow, April 2026.

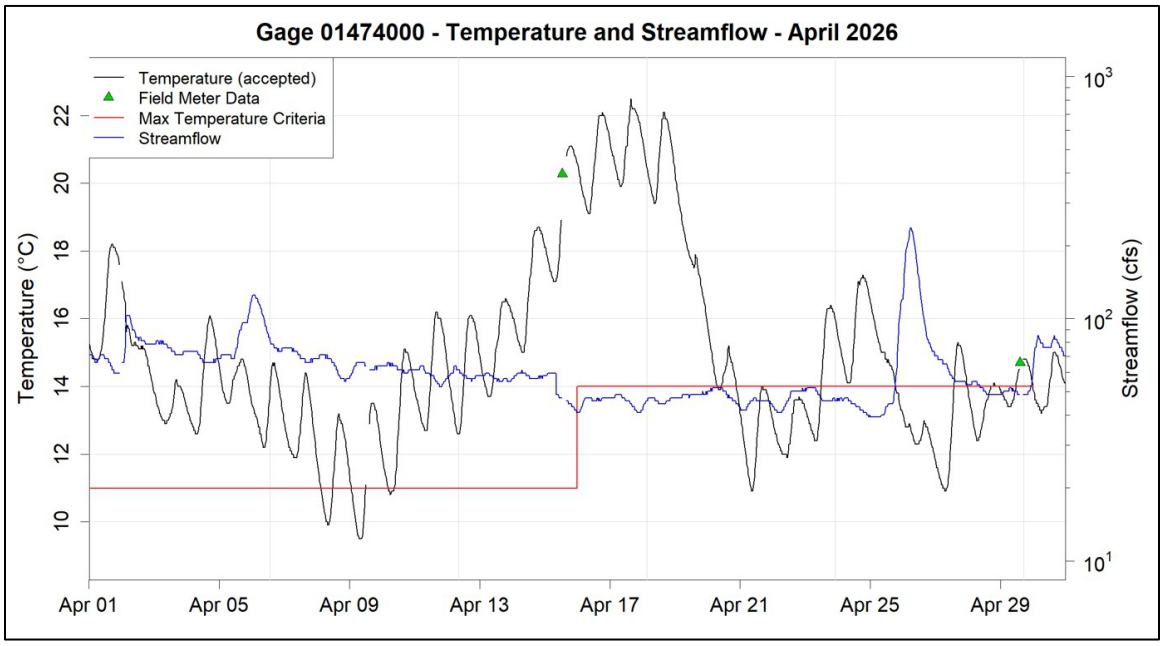


Figure 52. Gage 01474000, Temperature and Streamflow, April 2026.

Poquessing Creek (Gage 01465798)



Dissolved oxygen and pH

Dissolved oxygen and at this gage site fell below the minimum DO criterion during warmer months. The site rarely exceeded the pH maximum criterion (Table 49, Figure 55). Data collected from Poquessing Creek did exhibit classic signs of algal activity, as indicated by diel fluctuations in both DO and pH.

As seen with previous sites, the algal activity and related diel fluctuations in DO and pH are only suppressed by storm events. These suppressions, however, are only very temporary. Given an adequate period of uninterrupted algal growth, such as occurred in April 2026 (Figures 55-56), one can expect increased DO and pH fluctuations.

Table 48. Gage 01465798 Dissolved Oxygen Min. Criteria Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	WWF	2324	3.6	16.3	8.2	100	0	5	95
25-Aug	WWF	2832	4.1	15.4	8.5	100	0	0.9	99.1
25-Sep	WWF	2876	4	14.3	8.3	100	0	1.1	98.9
25-Oct	WWF	2873	2.2	13.7	9.3	99.9	0.1	1.6	98.4
25-Nov	WWF	2877	5.7	12.4	9.7	88.2	11.8	0	100
26-Mar	WWF	2527	6.3	18.2	11.5	100	0	0	100
26-Apr	WWF	2871	5	17.4	9.5	100	0	0	100
26-May	WWF	2973	3	11.7	7.1	100	0	9.8	90.2
26-Jun	WWF	2870	3	13.2	7.6	100	0	5.7	94.3

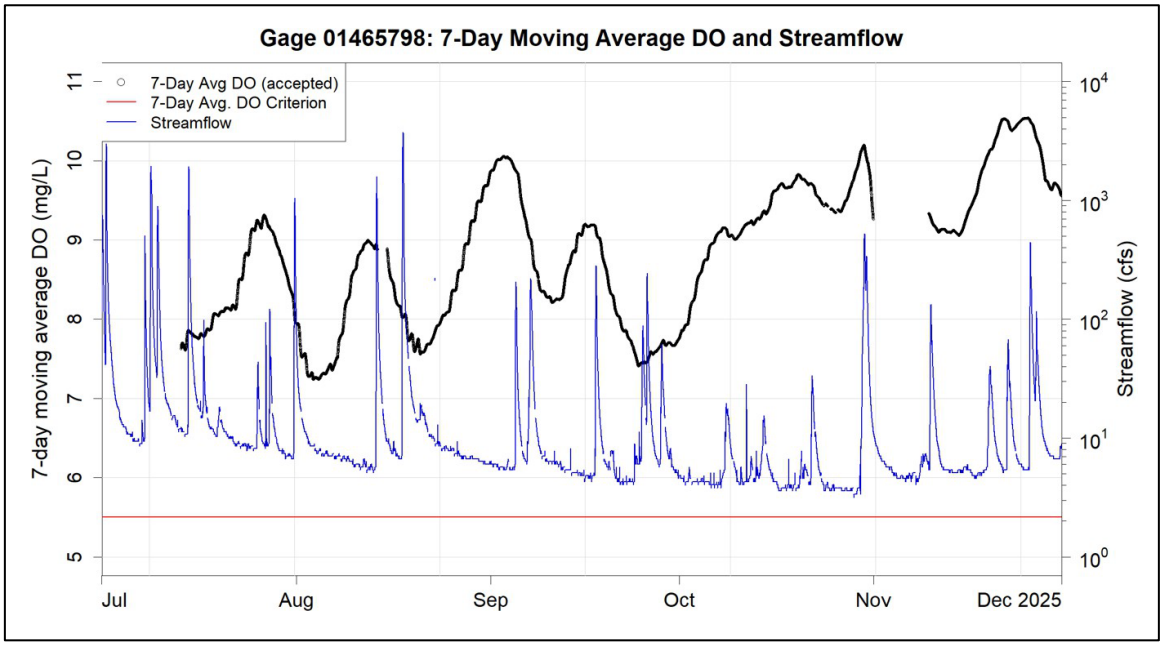


Figure 53. Gage 01465798, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

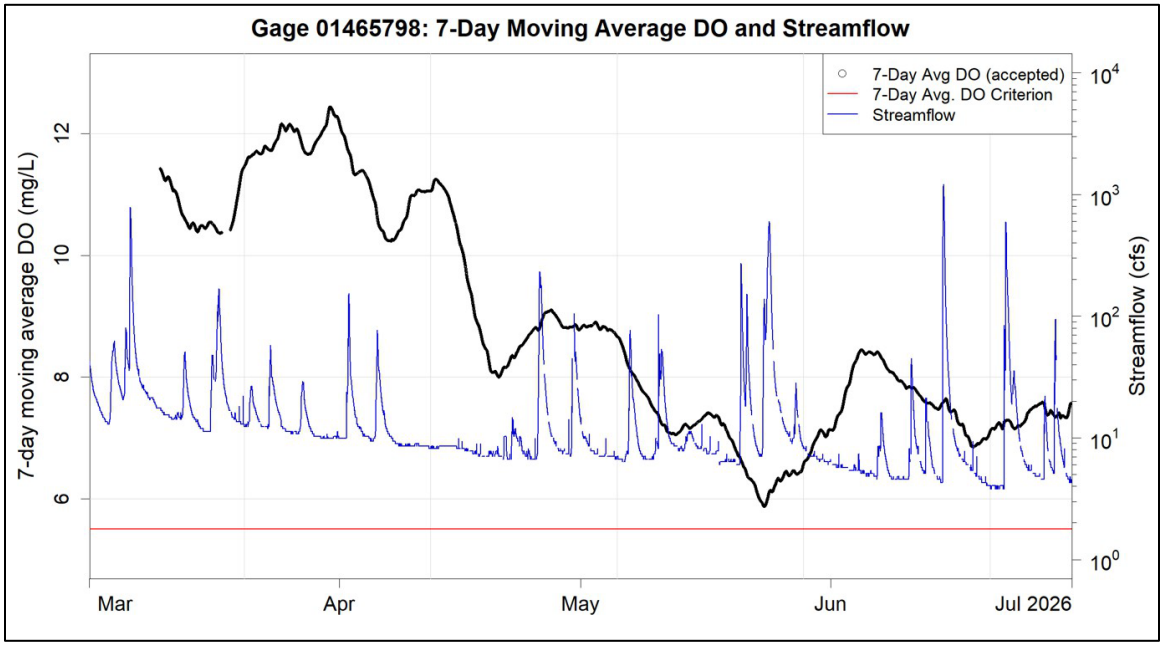


Figure 54. Gage 01465798, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

Table 49. Gage 01465798 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2970	6.6	9.4	7.4	100	0	0	3.4	100	96.6
25-Aug	2973	6.6	9.3	7.7	100	0	0	4.9	100	95.1
25-Sep	2876	6.9	9.2	7.5	100	0	0	0.9	100	99.1
25-Oct	2901	6.7	8.3	7.4	99.8	0.2	0	0	100	100
25-Nov	2877	6.5	7.5	7.2	88.2	11.8	0	0	100	100
26-Mar	2527	6.9	9.4	7.6	100	0	0	4.2	100	95.8
26-Apr	2871	7	9.3	7.5	100	0	0	4.1	100	95.9
26-May	2973	6.9	8	7.2	100	0	0	0	100	100
26-Jun	2870	6.8	8.9	7.4	100	0	0	0	100	100

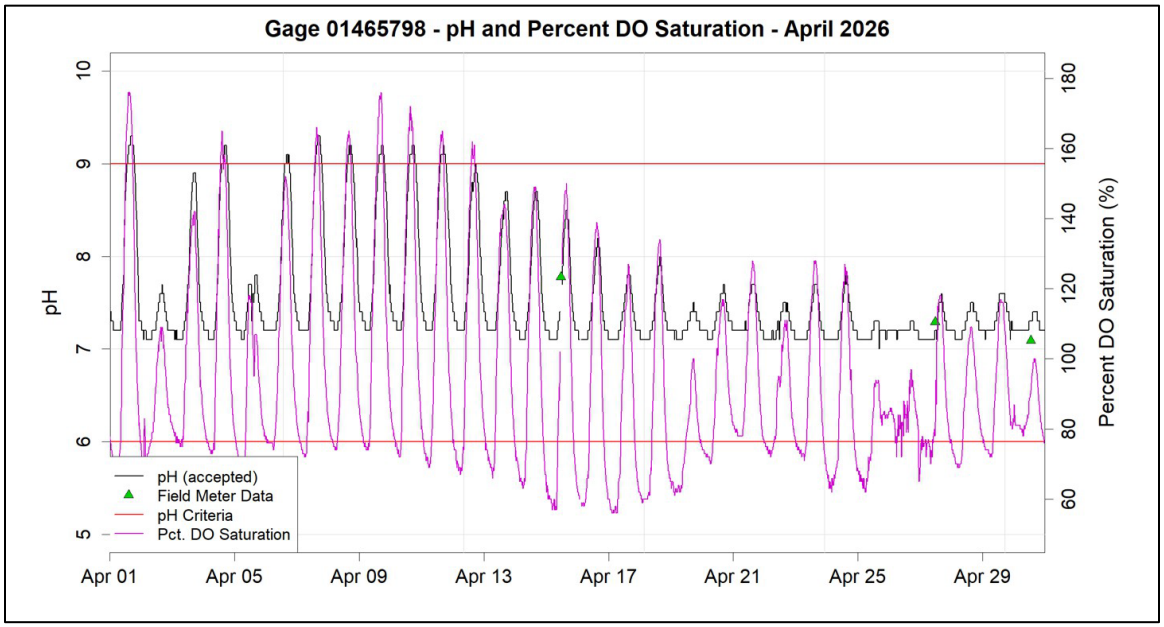


Figure 55. Gage 01465798, pH and Percent DO Saturation, April 2026.

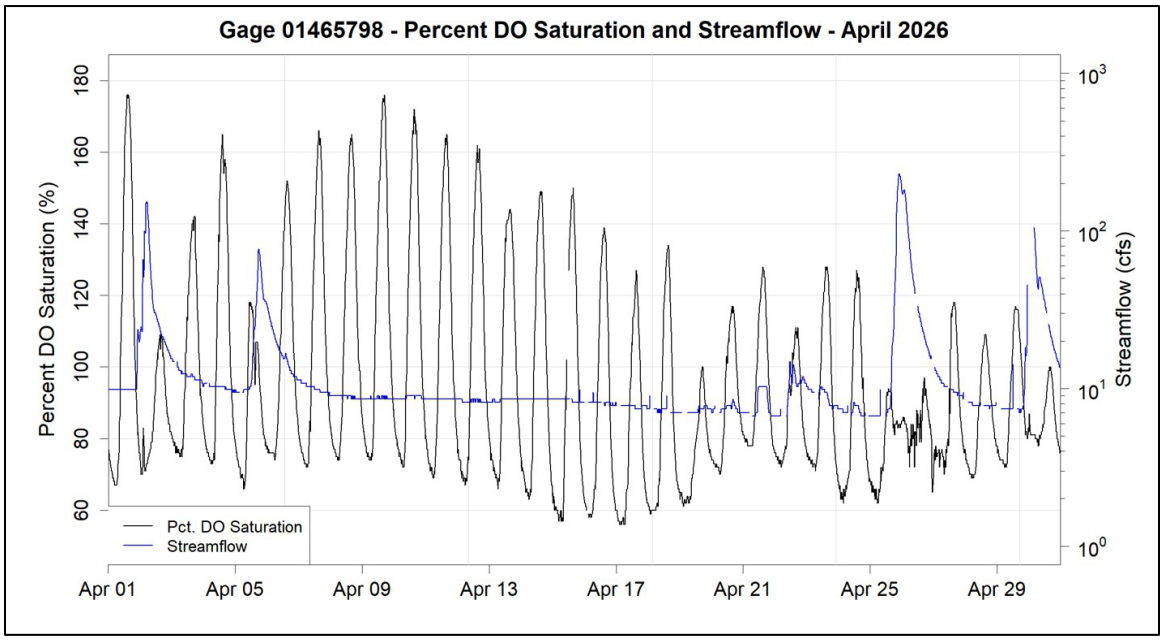


Figure 56. Gage 01465798, DO and Streamflow, April 2026.



Figure 57. Gage 01465798, Poquessing Creek at Grant Ave., looking upstream

Turbidity

As in other Philadelphia streams, high turbidity levels accompanied storm events and increased streamflow (Table 50).

Table 50. Gage 01465798 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	2324	0.5	467	10.7	100	0	27.7	72.3
25-Aug	2972	0.4	159	4.2	100	0	22.5	77.5
25-Sep	2876	0.5	65.6	2.3	100	0	13.7	86.3
25-Oct	2872	0.2	118	2.5	100	0	7.9	92.1
25-Nov	2861	0.3	55.3	3.7	100	0	38.1	61.9
26-Mar	2521	0.9	349	8.5	100	0	63.9	36.1
26-Apr	2871	0.6	120	3	99.8	0.2	19.2	80.8
26-May	2969	0.8	144	4.6	100	0	27.5	72.5
26-Jun	2868	0.5	443	8.1	96.8	3.2	35.6	64.4

Specific Conductance

Specific conductance data was similar to other Philadelphia streams (Table 51).

Table 51. Gage 01465798 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2970	54	802	540	100	0
25-Aug	2969	63	764	571.5	100	0
25-Sep	2874	180	751	540.7	100	0
25-Oct	2903	130	728	616.3	100	0
25-Nov	2876	152	680	495.4	100	0
26-Mar	2525	426	1450	826.6	100	0
26-Apr	2868	277	798	691.1	100	0
26-May	2972	150	764	605.4	100	0
26-Jun	2869	109	783	579	100	0

Temperature

Temperature exceedance rates observed in Poquessing Creek were similar to those in other WWF designated-use creeks (*e.g.*, Tacony and Cobbs Creeks) (Table 52).

Table 52. Gage 01465798 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Jul	31-Jul	0.1	99.9	0	100	21.6	31.1	25.3
WWF	1-Aug	15-Aug	0	100	0	100	19.7	28.7	23.3
WWF	16-Aug	30-Aug	0	100	0	100	17.5	28.6	21.6
WWF	1-Sep	15-Sep	0	100	0	100	17.1	25.4	20.4
WWF	16-Sep	30-Sep	0	100	0	100	16.9	24.1	20.6
WWF	1-Oct	15-Oct	0	100	0	100	12.7	21.1	16.9
WWF	16-Oct	31-Oct	0	100	0.2	99.8	9.2	16.4	12.9
WWF	1-Nov	15-Nov	0.2	99.8	0	100	5.9	14.5	10.1
WWF	16-Nov	30-Nov	12.3	87.7	0	100	3.6	12.3	7.8
WWF	1-Mar	31-Mar	66.6	33.4	0	100	5	16.4	9.9
WWF	1-Apr	15-Apr	86.5	13.5	0	100	7.9	22	14.3
WWF	16-Apr	30-Apr	54	46	0	100	8.9	24.6	15.4
WWF	1-May	15-May	15.4	84.6	0	100	11.8	21.8	16
WWF	16-May	31-May	21.7	78.3	0	100	13.4	28.7	19.4
WWF	1-Jun	15-Jun	6.3	93.7	0	100	15.9	28.8	22.7
WWF	16-Jun	30-Jun	0	100	0	100	19.5	27.7	23

Gages in Large Watersheds

Schuylkill River (Gage 01474500)



Dissolved oxygen and pH

DO water quality criteria were rarely exceeded at this location (Table 53, Figures 58-59). The Schuylkill gage nearly always attained pH criteria (Table 54), except during stretches of spring when algal activity is usually greatest (Figure 60).

Table 53. Gage 01474500 Dissolved Oxygen Minimum Criterion Summary Results by Month

Month	Des. Use	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	WWF	1488	6.5	9.4	7.7	100	0	0	100
25-Aug	WWF	1480	5.7	11.3	7.8	100	0	0	100
25-Sep	WWF	1436	7.1	13.2	8.9	100	0	0	100
25-Oct	WWF	1487	6.9	10.8	9.2	100	0	0	100
25-Nov	WWF	1388	9.6	12.2	10.7	100	0	0	100
25-Dec	WWF	1440	12.2	14.9	13.5	100	0	0	100
26-Jan	WWF	990	12.3	15.6	13.7	100	0	0	100
26-Mar	WWF	1484	10.5	13.3	11.9	100	0	0	100
26-Apr	WWF	1436	7.6	19	12.3	100	0	0	100
26-May	WWF	1480	4.2	19.4	10.8	100	0	1.5	98.5
26-Jun	WWF	1437	3.6	19.6	10.5	100	0	1.7	98.3

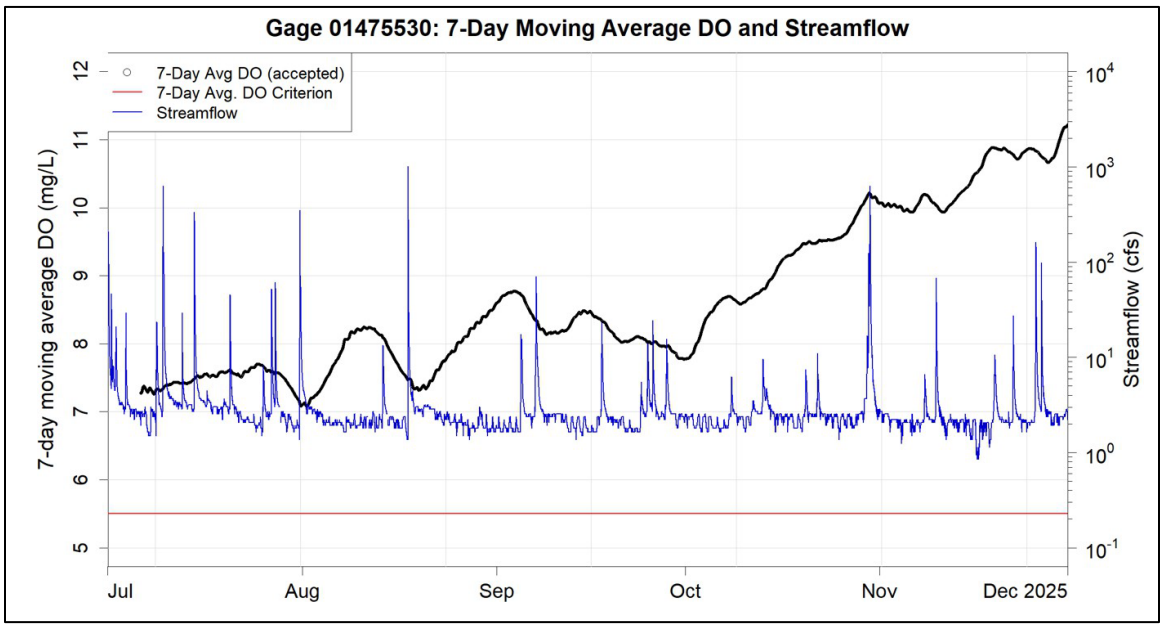


Figure 58. Gage 01474500, 7 Day Average Dissolved Oxygen and Streamflow, Jul-Dec 2025.

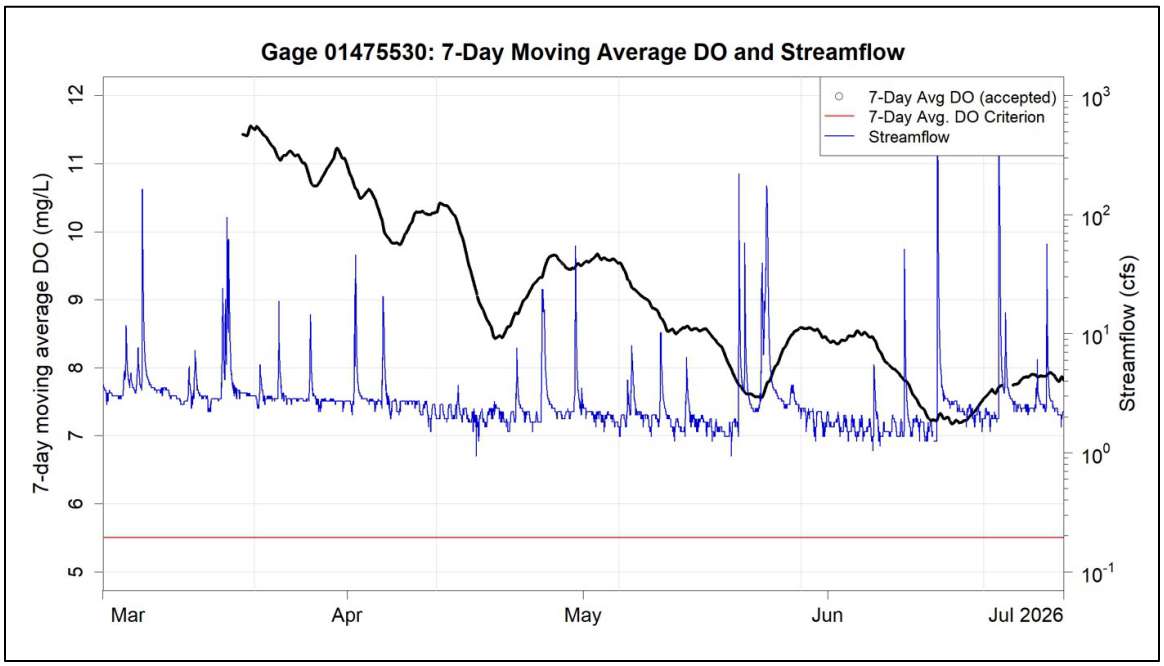


Figure 59. Gage 01474500, 7 Day Average Dissolved Oxygen and Streamflow, Mar-Jun 2026.

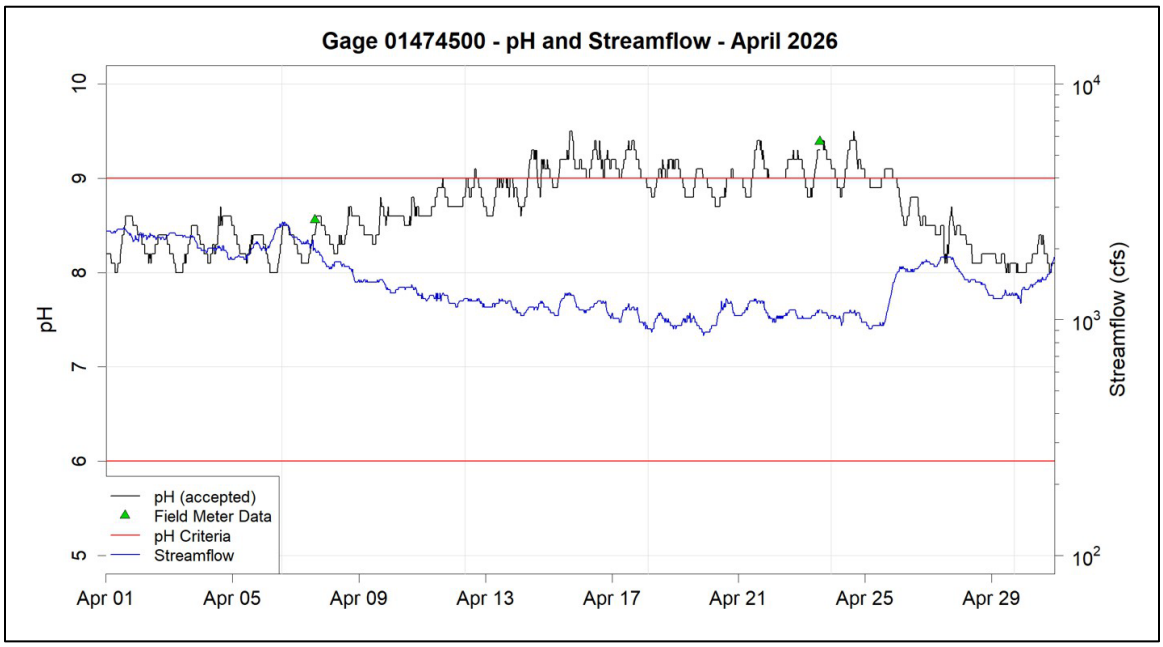


Figure 60. Gage 01474500, pH and Streamflow, April 2026.

Table 54. Gage 01474500 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	1488	7.2	8.3	7.7	100	0	0	0	100	100
25-Aug	1474	7.5	8.5	7.8	100	0	0	0	100	100
25-Sep	1435	7.5	8.7	8	100	0	0	0	100	100
25-Oct	1487	7.7	8.4	8.1	100	0	0	0	100	100
25-Nov	1386	7.8	8.4	8	100	0	0	0	100	100
25-Dec	1440	7.8	8.7	8.2	100	0	0	0	100	100
26-Jan	990	8	8.8	8.4	100	0	0	0	100	100
26-Mar	1484	7.5	8.3	7.8	100	0	0	0	100	100
26-Apr	1437	8	9.5	8.7	100	0	0	21.2	100	78.8
26-May	1480	7.7	9.5	8.5	100	0	0	10.8	100	89.2
26-Jun	1436	7.8	9.7	9	100	0	0	54.2	100	45.8

Temperature

Temperature data showed variable attainment of maximum temperature criteria (Table 55).

Table 55. Gage 01474500 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	% exceedance	% attaining	% flagged data	% accepted data	Min	Max	Mean
WWF	1-Jul	31-Jul	0.1	99.9	0	100	23.3	31.1	26.9
WWF	1-Aug	15-Aug	0	100	0	100	24.7	29.6	26.2
WWF	16-Aug	30-Aug	0	100	0	100	22.7	29.9	25.1
WWF	1-Sep	15-Sep	0	100	0	100	21.8	25.5	23.1
WWF	16-Sep	30-Sep	0	100	0	100	22	24.8	22.9
WWF	1-Oct	15-Oct	11.9	88.1	0	100	16.8	23.2	20.3
WWF	16-Oct	31-Oct	0	100	0	100	12.5	16.6	14.9
WWF	1-Nov	15-Nov	0	100	0	100	8.6	13	11.2
WWF	16-Nov	30-Nov	0	100	0	100	6.6	8.8	7.9
WWF	1-Mar	31-Mar	56.5	43.5	0	100	4.7	11.8	8.4
WWF	1-Apr	15-Apr	100	0	0	100	12.3	19.2	14.5
WWF	16-Apr	30-Apr	100	0	0	100	15	22.5	18
WWF	1-May	15-May	47.8	52.2	0	100	15.5	21.7	17.7
WWF	16-May	31-May	34.3	65.7	0	100	16.1	27.7	21
WWF	1-Jun	15-Jun	17.3	82.7	0	100	20.6	29.3	24.9
WWF	16-Jun	30-Jun	0	100	0	100	23.9	28.1	25.6



Figure 61. Gage 01474500, Schuylkill River at the Fairmount Dam, looking upstream

Turbidity

Turbidity levels at the Schuylkill gage were less susceptible to extreme peaks due to storms and increased flow (Table 56).

Table 56. Gage 01474500 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% above max. guideline	% below max. guideline
25-Jul	1488	0.4	85.3	6.3	100	0	49.7	50.3
25-Aug	1480	0.4	6.0	2.3	100	0	28.6	71.4
25-Sep	1435	1.3	5.7	2.7	100	0	41.1	58.9
25-Oct	1487	1.9	13.6	3.1	100	0	47.5	52.5
25-Nov	1388	2.2	10.5	3.6	100	0	86.4	13.6
25-Dec	1440	2.7	29.9	6.2	100	0	99	1
26-Jan	988	2.4	5.1	3.5	99.9	0.1	82.2	17.8
26-Mar	1484	3	81.4	10.8	100	0	100	0
26-Apr	1437	3.5	13.3	5	100	0	100	0
26-May	1480	3.2	17.2	5.7	99.9	0.1	100	0
26-Jun	1437	3	12.2	5.8	100	0	100	0

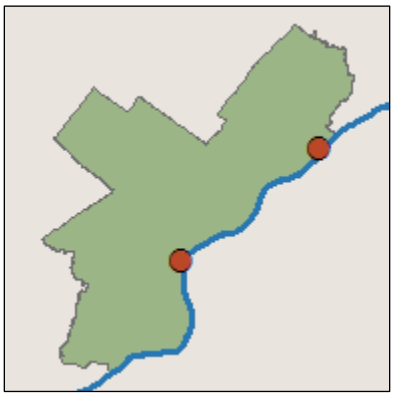
Specific Conductance

The Schuylkill River generally exhibits intermediate conductance, lower than the small Philadelphia tributary streams described elsewhere in this report, but greater than that observed in the Delaware River (Table 57). Observed differences are likely due to dilution, geology, and preponderance of anthropogenic sources in the respective watersheds.

Table 57. Gage 01474500 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	1488	195	533	405.1	100	0
25-Aug	1480	349	608	519.5	100	0
25-Sep	1435	416	662	575.7	100	0
25-Oct	1487	416	693	612.5	100	0
25-Nov	1388	438	619	548.6	100	0
25-Dec	1440	525	782	623	100	0
26-Jan	988	659	829	732.2	100	0
26-Mar	1484	333	693	428.2	100	0
26-Apr	1437	375	566	474.6	100	0
26-May	1482	393	536	479.3	100	0
26-Jun	1435	429	601	515.1	100	0

Delaware River (Gages 01467200 and 014670261)



Dissolved oxygen and pH

The DRBC DO daily mean and pH criteria for Zone 3 was attained at Gage 01467200 for the entire reporting period (Tables 58 and 60), as well as for Zone 2 at Gage 014670261, (Tables 59 and 61).

Effective November 28, 2025, EPA implemented new dissolved oxygen criteria for Delaware River Zones 3 and 4 and the upper portion of Zone 5. The revised criteria are based on seasonal dissolved oxygen percent saturation requirements designed to protect aquatic life, including sensitive life stages of Atlantic sturgeon. These criteria replace the previous concentration-based dissolved oxygen criteria with seasonal thresholds that account for both the magnitude and allowable frequency of low dissolved oxygen conditions. The criteria vary among larval development, juvenile development, and overwintering periods and include minimum daily average percent saturation thresholds and cumulative allowable exceedance frequencies (Table 62).

Because the revised Delaware River dissolved oxygen criteria became effective partway through the reporting period and therefore did not encompass a complete seasonal cycle, attainment was not assessed using the new criteria in this annual report but will be evaluated in subsequent reporting years.



Figure 62. Delaware River at Ben Franklin Bridge, near Gage 01467200

Table 58. Gage 01467200 Dissolved Oxygen Daily Mean Criterion Summary Results by Month

Month	Des. Use	Days	Daily Avg. Min	Daily Avg. Max	Daily Avg. Mean	% non-attaining	% attaining
25-Jul	DRBC	31	4.5	5.6	5	0	100
25-Aug	DRBC	31	4.5	5.7	5.1	0	100
25-Sep	DRBC	30	5.3	6.0	5.7	0	100
25-Oct	DRBC	31	5.5	7.8	6.7	0	100
25-Nov	DRBC	30	7.7	9.7	8.6	0	100
25-Dec	DRBC	6	9.7	10.5	10	0	100
26-Mar	DRBC	20	11.2	12.1	11.7	0	100
26-Apr	DRBC	30	7.0	11.0	9.4	0	100
26-May	DRBC	31	6.4	8.2	7.4	0	100
26-Jun	DRBC	30	4.0	8.0	5.7	0	100

Table 59. Gage 014670261 Dissolved Oxygen Daily Mean Criterion Summary Results by Month

Month	Des. Use	Days	Daily Avg. Min	Daily Avg. Max	Daily Avg. Mean	% non-attaining	% attaining
25-Jul	DRBC	31	6.0	7.1	6.7	0	100
25-Aug	DRBC	31	6.0	7.3	6.7	0	100
25-Sep	DRBC	30	6.7	7.4	7	0	100
25-Oct	DRBC	31	7.0	9.1	7.9	0	100
25-Nov	DRBC	30	8.8	10.9	9.7	0	100
25-Dec	DRBC	30	11.0	13.5	12.4	0	100
26-Jan	DRBC	22	13.0	13.7	13.4	0	100
26-Feb	DRBC	2	13.2	13.2	13.2	0	100
26-Mar	DRBC	31	11.0	13.5	12.1	0	100
26-Apr	DRBC	30	7.8	10.9	9.6	0	100
26-May	DRBC	31	6.6	9.4	8.5	0	100
26-Jun	DRBC	30	5.6	8.7	7.1	0	100

Table 60. Gage 01467200 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2893	6.8	7.3	7	100	0	0	0	100	100
25-Aug	2877	6.9	7.2	7.1	100	0	0	0	100	100
25-Sep	2743	7.0	7.3	7.1	100	0	0	0	100	100
25-Oct	2888	7.0	7.3	7.2	100	0	0	0	100	100
25-Nov	2751	7.1	7.3	7.2	100	0	0	0	100	100
25-Dec	453	7.1	7.2	7.1	100	0	0	0	100	100
26-Mar	1824	7.3	7.5	7.4	100	0	0	0	100	100
26-Apr	2781	7.3	7.5	7.4	100	0	0	0	100	100
26-May	2829	7.2	7.6	7.4	100	0	0	0	100	100
26-Jun	2718	7	7.7	7.2	100	0	0	0	100	100

Table 61. Gage 014670261 pH Criteria Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% min non-attaining	% max non-attaining	% min attaining	% max attaining
25-Jul	2960	7	7.5	7.2	100	0	0	0	100	100
25-Aug	2929	7.2	7.9	7.4	100	0	0	0	100	100
25-Sep	2862	7.3	7.6	7.4	100	0	0	0	100	100
25-Oct	2937	7.4	7.7	7.5	100	0	0	0	100	100
25-Nov	2767	7.4	7.8	7.5	100	0	0	0	100	100
25-Dec	2769	7.4	7.8	7.6	100	0	0	0	100	100
26-Jan	1943	7.5	7.7	7.6	100	0	0	0	100	100
26-Feb	131	7.4	7.5	7.4	100	0	0	0	100	100
26-Mar	2852	7.1	7.6	7.3	100	0	0	0	100	100
26-Apr	2854	7.1	7.5	7.3	100	0	0	0	100	100
26-May	2954	7	7.5	7.3	99.9	0.1	0	0	100	100
26-Jun	2863	7.2	7.8	7.4	100	0	0	0	100	100

Table 62. EPA dissolved oxygen percent saturation criteria and allowable exceedance frequencies for Delaware River Zones 3 and 4 and the upper portion of Zone 5, by seasonal Atlantic sturgeon life stage.

Season	DO % Saturation (daily averages)	Exceedance Frequency
Larval Development (3/1 – 6/30)	66%	12 Days Cumulative (10% of the 123-day season)
Juvenile Development (7/1-10/31)	66%	12 Days Cumulative (10% of the 123-day season)
	74%	61 Days Cumulative (50% of the 123-day season)
Overwintering (11/1-2/29)	66%	12 Days Cumulative (10% of the 123- day season)

Temperature

Temperature criteria for the Delaware River were not exceeded at these gages (Tables 63-64).

Table 63. Gage 01467200 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
DRBC	1-Jul	31-Jul	2905	25.9	28.8	27.6	100	0	0	100
DRBC	1-Aug	30-Aug	2890	23.8	28.4	26.4	100	0	0	100
DRBC	1-Sep	30-Sep	2746	22.5	24.3	23.3	100	0	0	100
DRBC	1-Oct	31-Oct	2890	14.7	23.2	19.1	100	0	0	100
DRBC	1-Nov	30-Nov	2751	7.7	14.9	11.1	100	0	0	100
DRBC	1-Dec	31-Dec	453	6	8.0	7.2	100	0	0	100
DRBC	1-Mar	31-Mar	1824	6.3	10.4	7.7	100	0	0	100
DRBC	1-Apr	30-Apr	2780	10.2	17.2	13.8	100	0	0	100
DRBC	1-May	31-May	2829	14.9	20.6	17.6	100	0	0	100
DRBC	1-Jun	30-Jun	2718	20	25.7	23.5	100	0	0	100

Table 64. Gage 014670261 Temperature Summary Results by Maximum Criteria Period

Designated Use	Date range start	Date range end	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
DRBC	1-Jul	31-Jul	2959	25.6	29.2	27.5	100	0	0	100
DRBC	1-Aug	30-Aug	2942	23.4	28.4	26.2	100	0	0	100
DRBC	1-Sep	30-Sep	2866	22.1	24.5	23.1	100	0	0	100
DRBC	1-Oct	31-Oct	2963	13.7	23	18.4	100	0	0	100
DRBC	1-Nov	30-Nov	2772	6.2	13.7	9.9	100	0	0	100
DRBC	1-Dec	31-Dec	2779	0.9	6.5	2.9	100	0	0	100
DRBC	1-Jan	31-Jan	1958	0.2	3.4	1.5	100	0	0	100
DRBC	1-Feb	29-Feb	131	1.1	2.1	1.5	100	0	0	100
DRBC	1-Mar	31-Mar	2859	1.6	11.2	6.4	100	0	0	100
DRBC	1-Apr	30-Apr	2860	10.5	18.4	14.1	100	0	0	100
DRBC	1-May	31-May	2952	14.2	20.9	17.7	100	0	0	100
DRBC	1-Jun	30-Jun	2863	19.3	26.3	24	100	0	0	100

Specific Conductance

The Delaware River provides a large amount of dilution and thus exhibits much lower conductivity than the small Philadelphia tributary streams described elsewhere in this report (Tables 65-66).

Table 65. Gage 01467200 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2905	180.1	275.3	234	100	0
25-Aug	2818	219.9	312.1	270.3	100	0
25-Sep	2746	282.1	415.8	336.2	100	0
25-Oct	2890	325.6	703.7	445.3	100	0
25-Nov	2751	287.6	582	389.5	100	0
25-Dec	453	274.3	404.1	335.4	100	0
26-Mar	1824	174	220	190.4	100	0
26-Apr	2780	179	262	214.5	100	0
26-May	2829	206	260	229.5	100	0
26-Jun	2717	237	323	274.2	100	0

Table 66. Gage 014670261 Specific Conductance Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data
25-Jul	2960	173	263	216.1	100	0
25-Aug	2939	221	296	256.8	100	0
25-Sep	2865	227	341	295.8	100	0
25-Oct	2962	239	333	302.5	100	0
25-Nov	2759	242	316	275.7	100	0
25-Dec	2736	239	510	297.4	100	0
26-Jan	1956	267	457	314.2	100	0
26-Feb	131	403	511	435.5	100	0
26-Mar	2853	168	534	265.3	100	0
26-Apr	2856	164	307	213.2	100	0
26-May	2951	188	268	213.9	100	0
26-Jun	2862	214	308	256.7	100	0

Turbidity

Turbidity guidelines at both gages were almost always exceeded throughout the year (Tables 67-68).

Table 67. Gage 01467200 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	2825	3.5	20.3	7.1	100	0	100	0
25-Aug	2888	3.3	20.7	7.2	100	0	100	0
25-Sep	2744	4.1	28	8.4	100	0	100	0
25-Oct	2890	4.6	41.1	12.7	100	0	100	0
25-Nov	2751	7.8	65.8	17.8	100	0	100	0
25-Dec	2677	8.8	53.5	19.4	100	0	100	0
26-Jan	2693	7.3	47.7	15.4	100	0	100	0
26-Feb	1221	4.8	23.4	10.7	100	0	100	0
26-Mar	1824	3.2	21.7	6.8	100	0	100	0
26-Apr	2781	2.5	21	7	100	0	99.9	0.1
26-May	2829	3.6	23.3	8.7	100	0	100	0
26-Jun	2718	3.2	44.5	10.1	100	0	100	0

Table 68. Gage 014670261 Turbidity Summary Results by Month

Month	Observations, n	Min	Max	Mean	% accepted data	% flagged data	% non-attaining	% attaining
25-Jul	2959	1	29.5	5.1	100	0	82.3	17.7
25-Aug	2942	0.6	58.7	4.3	100	0	77.3	22.7
25-Sep	2867	1.7	25.4	4	100	0	78.3	21.7
25-Oct	2963	1.5	54.4	6.2	100	0	93.7	6.3
25-Nov	2772	2.2	51.9	11.6	100	0	99.9	0.1
25-Dec	2779	6.7	87.8	17.3	100	0	100	0
26-Jan	1953	4.8	56.8	13.6	100	0	100	0
26-Feb	134	5.1	11	6.7	100	0	100	0
26-Mar	2860	3.1	32.7	7.6	100	0	100	0
26-Apr	2862	1.9	33.2	5.5	100	0	93.3	6.7
26-May	2954	1.8	58	6.6	100	0	95.8	4.2
26-Jun	2857	2.2	47.8	8.5	100	0	99.2	0.8

Wet Weather and Dry Weather Results

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Water quality data was also categorized as wet or dry for the purpose of evaluating weather effects on water quality, and specifically the incidence of non-attainment of water quality criteria. A wet weather condition was defined as rainfall greater than 0.05 inches in the preceding 72 hours, as measured at the nearest PWD rain gage.

In general, more frequent non-attainment of DO criteria was observed in wet weather due to the tendency of storm events to decrease DO via the introduction of stormwater runoff and BOD (Tables 69-70). The turbidity maximum guideline was also usually more frequently surpassed in wet weather (Tables 73-74). The pH maximum criterion was exceeded in both wet and dry weather (Tables 71-72). Temperature criteria were more likely to be exceeded at Trout Stocking Fishery (TSF) gages due to more stringent seasonal criteria (Tables 77-78).

Table 69. USGS Gage July 2025 - June 2026 Dissolved Oxygen Minimum Criterion Summary Results During Wet Weather

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% non-attaining	% attaining
01465798	WWF	5063	100	0	2.8	97.2
014670261*	DRBC	5752	100	0	NA	NA
01467042	TSF	5541	100	0	0	100
01467048	TSF	5262	100	0	0	100
01467086	WWF	4830	100	0	3.1	96.9
01467087	WWF	4245	85	15	44.8	55.2
01467200*	DRBC	5392	100	0	NA	NA
01473900	TSF	4964	100	0	4.3	95.7
01474000	TSF	2514	100	0	0.6	99.4
01474500	WWF	3163	100	0	1.4	98.6
01475530	WWF	5052	100	0	0	100
01475548	WWF	1758	99.9	0.1	28.7	71.3

*No minimum DO criterion applies at these locations.

Table 70. USGS Gage July 2025 - June 2026 Dissolved Oxygen Minimum Criterion Summary Results During Dry Weather

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% non-attaining	% attaining
01465798	WWF	20009	98.3	1.7	2.7	97.3
01467026*	DRBC	25139	100	0	NA	NA
01467042	TSF	20388	100	0	0.1	99.9
01467048	TSF	20566	100	0	0.1	99.9
01467086	WWF	19277	100	0	3	97
01467087	WWF	18997	94.3	5.7	39	61
01467200*	DRBC	19395	100	0	NA	NA
01473900	TSF	19914	99.3	0.7	1.6	98.4
01474000	TSF	9976	100	0	0	100
01474500	WWF	12383	100	0	0	100
01475530	WWF	20051	100	0	0	100
01475548	WWF	7176	100	0	11.3	88.7

*No minimum DO criterion applies at these locations.

Table 71. USGS Gage July 2025 - June 2026 pH Criteria Summary Results During Wet Weather

Gage number	Observations, n	% accepted data	% flagged data	% min. non-attaining	% max. non-attaining	% min. attaining	% max attaining	% attaining
01465798	4533	99.9	0.1	0	0	100	100	100
014670261	5351	100	0	0	0	100	100	100
01467042	4419	100	0	0	0	100	100	100
01467048	4530	100	0	0	0	100	100	100
01467086	2825	99.2	0.8	0	0	100	100	100
01467087	5072	100	0	0	0	100	100	100
01467200	5587	100	0	0	0	100	100	100
01473900	4295	100	0	0	0	100	100	100
01474000	2218	100	0	0	0	100	100	100
01474500	2792	100	0	0	0.2	100	99.8	99.8
01475530	4059	100	0	0	0	100	100	100
01475548	4364	100	0	0	0	100	100	100

Table 72. USGS Gage July 2025 - June 2026 pH Criteria Summary Results During Dry Weather

Gage number	Observations, n	% accepted data	% flagged data	% min. non-attaining	% max. non-attaining	% min. attaining	% max attaining	% attaining
01465798	20616	98.3	1.7	0	2.5	100	97.5	97.5
014670261	25076	100	0	0	0	100	100	100
01467042	20370	100	0	0	0	100	100	100
01467048	20562	100	0	0	1.9	100	98.1	98.1
01467086	19272	99.7	0.3	0	0	100	100	100
01467087	20723	98	2	0	0	100	100	100
01467200	19372	100	0	0	0	100	100	100
01473900	20087	100	0	0	0.6	100	99.4	99.4
01474000	9973	100	0	0	1.5	100	98.5	98.5
01474500	12373	100	0	0	8.2	100	91.8	91.8
01475530	20045	100	0	0	0.1	100	99.9	99.9
01475548	6878	99.7	0.3	0	0.2	100	99.8	99.8

Table 73. USGS Gage July 2025 - June 2026 Turbidity Summary Results During Wet Weather

Gage number	Observations, n	% accepted data	% flagged data	% above max. guideline	% below max. guideline
01465798	5120	98.5	1.5	64.1	35.9
014670261	5755	100	0	94.2	5.8
01467042	5544	100	0	53.2	46.8
01467048	5259	100	0	62.7	37.3
01467086*	0	NA	NA	NA	NA
01467087*	0	NA	NA	NA	NA
01467200*	5690	100	0	99.9	0.1
01473900	4844	100	0	52.1	47.9
01474000	2513	100	0	31.4	68.6
01474500	3163	100	0	76.1	23.9
01475530*	0	NA	NA	NA	NA
01475548*	0	NA	NA	NA	NA

*Turbidity not continuously monitored at this location

Table 74. USGS Gage July 2025 - June 2026 Turbidity Summary Results During Dry Weather

Gage number	Observations, n	%accepted data	% flagged data	% above max. guideline	% below max. guideline
01465798	20063	99.9	0.1	19	81
014670261	25147	100	0	92	8
01467042	20395	100	0	14.4	85.6
01467048	20565	100	0	12.7	87.3
01467086*	0	NA	NA	NA	NA
01467087*	0	NA	NA	NA	NA
01467200*	25151	100	0	100	0
01473900	19445	100	0	17.4	82.6
01474000	10066	100	0	3.1	96.9
01474500	12381	100	0	75.3	24.7
01475530*	0	NA	NA	NA	NA
01475548*	0	NA	NA	NA	NA

*Turbidity not continuously monitored at this location

Table 75. USGS Gage July 2025 - June 2026 Specific Conductance Summary Results During Wet Weather

Gage number	Observations, n	% accepted data	% flagged data
01465798	5270	100	0
014670261	5751	100	0
01467042	5545	100	0
01467048	5261	100	0
01467086	4831	100	0
01467087	5650	100	0
01467200	5391	100	0
01473900	4960	100	0
01474000	2508	100	0
01474500	3164	100	0
01475530	5051	100	0
01475548	2016	100	0

Table 76. USGS Gage July 2025 - June 2026 Specific Conductance Summary Results During Dry Weather

Gage number	Observations, n	% accepted data	% flagged data
01465798	20605	100	0
014670261	25079	100	0
01467042	20394	100	0
01467048	20563	100	0
01467086	19291	100	0
01467087	24673	100	0
01467200	19322	100	0
01473900	20155	100	0
01474000	9975	100	0
01474500	12380	100	0
01475530	19904	100	0
01475548	7296	100	0

Table 77. USGS Gage July 2025 - June 2026 Temperature Maximum Criteria Summary Results During Wet Weather

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% exceedance	% attaining
01465798	WWF	5271	100	0	17.4	82.6
014670261	DRBC	5757	100	0	0	100
01467042	TSF	5544	100	0	41.5	58.5
01467048	TSF	5261	100	0	44.9	55.1
01467086	WWF	4829	100	0	16.1	83.9
01467087	WWF	5660	100	0	24.1	75.9
01467200	DRBC	5391	100	0	0	100
01473900	TSF	4964	100	0	41.3	58.7
01474000	TSF	2488	100	0	42.8	57.2
01474500	WWF	3164	100	0	24.6	75.4
01475530	WWF	5052	100	0	15.5	84.5
01475548	WWF	2016	100	0	24.3	75.7

Table 78. USGS Gage July 2025 - June 2026 Temperature Maximum Criteria Summary Results During Dry Weather

Gage number	Designated Use	Observations, n	% accepted data	% flagged data	% exceedance	% attaining
01465798	WWF	20623	100	0	17.3	82.7
014670261	DRBC	25147	100	0	0	100
01467042	TSF	20400	100	0	33.8	66.2
01467048	TSF	20557	100	0	39.8	60.2
01467086	WWF	19284	100	0	15.5	84.5
01467087	WWF	24682	100	0	17.9	82.1
01467200	DRBC	19395	100	0	0	100
01473900	TSF	20182	100	0	31.9	68.1
01474000	TSF	9877	100	0	33.2	66.8
01474500	WWF	12383	100	0	20.7	79.3
01475530	WWF	20052	100	0	13.8	86.2
01475548	WWF	7300	100	0	36.4	63.6

References

Delaware River Basin Commission, 2007. Delaware River Basin Water Code: 18 CFR Part 410 (With Amendments Through September 27, 2006). West Trenton, NJ.

U.S. Environmental Protection Agency, 2025. *Water Quality Standards to Protect Aquatic Life in the Delaware River.* 40 CFR Part 131, 90 Federal Register 46483 (September 29, 2025). Washington, DC.

Appendix H – PWD/USGS Groundwater Monitoring Program

Background

The basis of PWD's CSO LTCPU wet weather source control strategy is the "capture" and infiltration of as much rainwater as possible with green stormwater infrastructure (GSI). The direct benefits of such an effort are a reduction of stormwater discharged directly to streams, as well as the increased recharge of stormwater to supplement groundwater resources. Increased infiltration, though advantageous in several respects, must be carefully planned and closely monitored to avoid unwanted impacts. Increasing groundwater levels in areas where the depth to water is shallow could result in the saturation of soils close to the surface, potentially causing basement flooding. In addition, building foundations could be impacted by rising groundwater levels.

The adaptive management approach being employed for the LTCPU is an iterative process strongly dependent on monitoring. In order to quantify the impact of this long-term effort on groundwater resources, it is necessary to monitor groundwater levels in Philadelphia. PWD has partnered with USGS to increase the geographic scope and frequency of groundwater monitoring in the Philadelphia region. A City-wide groundwater level monitoring network will provide long-term monthly data documenting current water levels and trends in groundwater elevations throughout the City, helping to track the impacts of widespread implementation of stormwater management practices (SMPs) and global climate change.

Data from the groundwater monitoring network will also be used to calibrate a Philadelphia groundwater model and update the USGS groundwater contour map of Philadelphia (Paulachok 1984). In addition to this City-wide, long term groundwater monitoring program, PWD is conducting site-scale monitoring to address the effectiveness of individual SMPs. The City-wide groundwater monitoring network and site-scale monitoring at GSI facilities provide complementary information regarding the effects of stormwater management practices at different spatial and temporal scales.

Methods

PWD and USGS identified existing wells that would be suitable for the network and obtained permission for site access. Once wells were identified and accessible, well condition and suitability for inclusion in the monitoring network were investigated by continuous water level monitoring and remote video camera inspection when accessible. Wells that met acceptance criteria were added to the monitoring network. After examining readily available information about existing wells, PWD elected to drill additional wells in order to provide better spatial distribution of wells in the monitoring network. USGS staff conduct groundwater observations monthly and upload water level data to the NWIS web server. PWD staff periodically download water level data from NWIS and summarize these data annually.

Well Network Establishment

Existing wells in the Philadelphia area were identified by USGS and PWD through digital and paper archives as well as through contacting representatives of other City agencies and large institutional landowners (*e.g.*, Philadelphia Fire Department, Philadelphia Department of Parks and Recreation, Philadelphia Gas Works, Southeastern Pennsylvania Transportation Authority, etc.). Priority was given to wells on publicly-owned or large institutional land uses in order to help ensure that wells would remain accessible in the future. The primary goal was to

develop a network of wells with a spatial distribution and density sufficient to assess groundwater levels throughout the City of Philadelphia. Other criteria for establishment of the well network were:

- Sufficient density of wells in critical areas with a shallow water table
- No bias given to combined-sewered or separate-sewered areas
- Denser distribution of monitoring wells in the Northern Piedmont Ecoregion to reflect its more varied groundwater contours.

Wells that met acceptance criteria were assigned USGS location codes and added to the USGS well monitoring network and National Water Information System (NWIS) database. The well monitoring network contains 29 active sites that are monitored monthly. Additional sites are expected to be added once landowner access agreements are finalized or new wells are drilled.

Video Camera Inspection

The availability of well attribute information varied from well to well and in most cases the physical characteristics and condition of candidate wells to be added to the network was unknown. USGS staff perform remote video camera inspection, when possible, to determine physical characteristics such as screened intervals, total depth, depth to bottom of casing, and the location of potential water-bearing zones within the bore hole. Wells narrower than 4" diameter and wells with pumps or other plumbing could not accommodate the camera equipment and were not inspected with this method.

Continuous Water Level Monitoring

Monthly measurements are appropriate for monitoring long-term trends in groundwater levels. However, it is important to verify that these monthly observations are representative of the unconfined aquifer and not influenced by anthropogenic activity or other conditions. USGS staff used data logging pressure transducers (LevelTroll model 500, In-Situ, Inc.) to conduct continuous water level monitoring in candidate wells. These sensors are vented to the surface of the well to provide atmospheric pressure correction. Continuous monitoring was carried out across all wells in the network to identify any aberrant trends, such as those that might be caused by local pumping operations. Sensors were deployed for three-month periods on a rotating schedule with five wells actively monitored at a time. Wells that appear to be influenced by permanent pumping operations will be removed from the monitoring network (*e.g.*, permanent wells dewatering the stadiums). Wells that are temporarily affected by local, dewatering operations (*e.g.*, a short-term construction site), will remain in the system, but data collected during the period when dewatering operations affected the well will not be used in estimates of current water levels and water level trends.

Routine Groundwater Observations

USGS staff conduct groundwater observations monthly at each well using a water sensor and graduated tape. Equipment is sterilized in 10% bleach solution prior to and after measurements are taken in order to prevent introducing or transferring contamination between wells. Well level measurements are converted to elevation above the North American Vertical Datum of 1988 (NAVD88) based upon the known elevation correction factor for each well. Water level data are recorded on site in field notebooks along with any pertinent field notes and then uploaded to the NWIS web server. PWD periodically downloads data from NWIS and summarizes these data annually.

Monitoring Well Locations

Currently the well monitoring network contains 29 active sites that are monitored monthly. (Table 1, Figure 1). Of the 29 active wells, 11 are located within the Middle Atlantic Coastal Plain Ecoregion, while the remaining 18 wells are located in the Northern Piedmont (Omernik 1987). As stated above, higher well density is required in the latter region to reflect the more complex geology and interactions with groundwater.

Table 1. PWD-USGS Groundwater Monitoring Well Network Locations.

Site ID	Site Name	Lat.	Long.	Established
USGS-395342075102101	PH 12	39.895	-75.172	10/22/1978
USGS-395353075151501	PH 1052	39.898	-75.254	3/7/2011
USGS-395408075104001	PH 63	39.902	-75.177	9/14/1954
USGS-395416075150301	PH 1053	39.904	-75.251	4/24/2003
USGS-395459075140501	PH 797	39.916	-75.259	10/15/1980
USGS-395516075113901	PH 1051	39.921	-75.194	--
USGS-395611075091301	PH 1059	39.936	-75.154	8/14/2014
USGS-395656075100401	PH 136	39.949	-75.167	12/6/1978
USGS-395656075104401	PH 1064	39.948	-75.178	6/5/2015
USGS-395705075135901	PH 1061	39.951	-75.232	6/5/2015
USGS-395849075134201	PH 1063	39.98	-75.228	6/5/2015
USGS-395859075085401	PH 1042	39.983	-75.148	2/14/2011
USGS-395942075144301	MG 2164	39.995	-75.245	2/14/2011
USGS-400001075040301	PH 1057	40	-75.068	8/14/2014
USGS-400016075102801	PH 1062	40.004	-75.174	6/5/2015
USGS-400038075094601	PH 1058	40.011	-75.163	8/14/2014
USGS-400055075122501	PH 1060	40.015	-75.206	6/5/2015
USGS-400132075031001	PH 1056	40.026	-75.053	8/14/2014
USGS-400211075093701	PH 1050	40.036	-75.16	--
USGS-400217075142101	PH 540	40.038	-75.239	3/29/1948
USGS-400229075104601	PH 1043*	40.041	-75.179	2/14/2011
USGS-400308074592201	PH 397	40.052	-74.989	1/4/1979
USGS-400311075101301	PH 1040	40.053	-75.17	2/17/2011
USGS-400327075152201	PH 1044	40.057	-75.256	3/16/2011
USGS-400424075104901	PH 550	40.073	-75.18	--/--/1906
USGS-400512075033401	PH 1045	40.087	-75.059	7/18/2011
USGS-400516075033201	PH 1046	40.088	-75.059	7/18/2011
USGS-400524075042601	MG 2195	40.09	-75.074	--
USGS-400527075042801	MG 2193	40.091	-75.074	--
USGS-400527075042802	MG 2194	40.091	-75.074	--
USGS-400644074590801	PH 1041	40.112	-74.986	2/17/2011

* Philadelphia County observation well

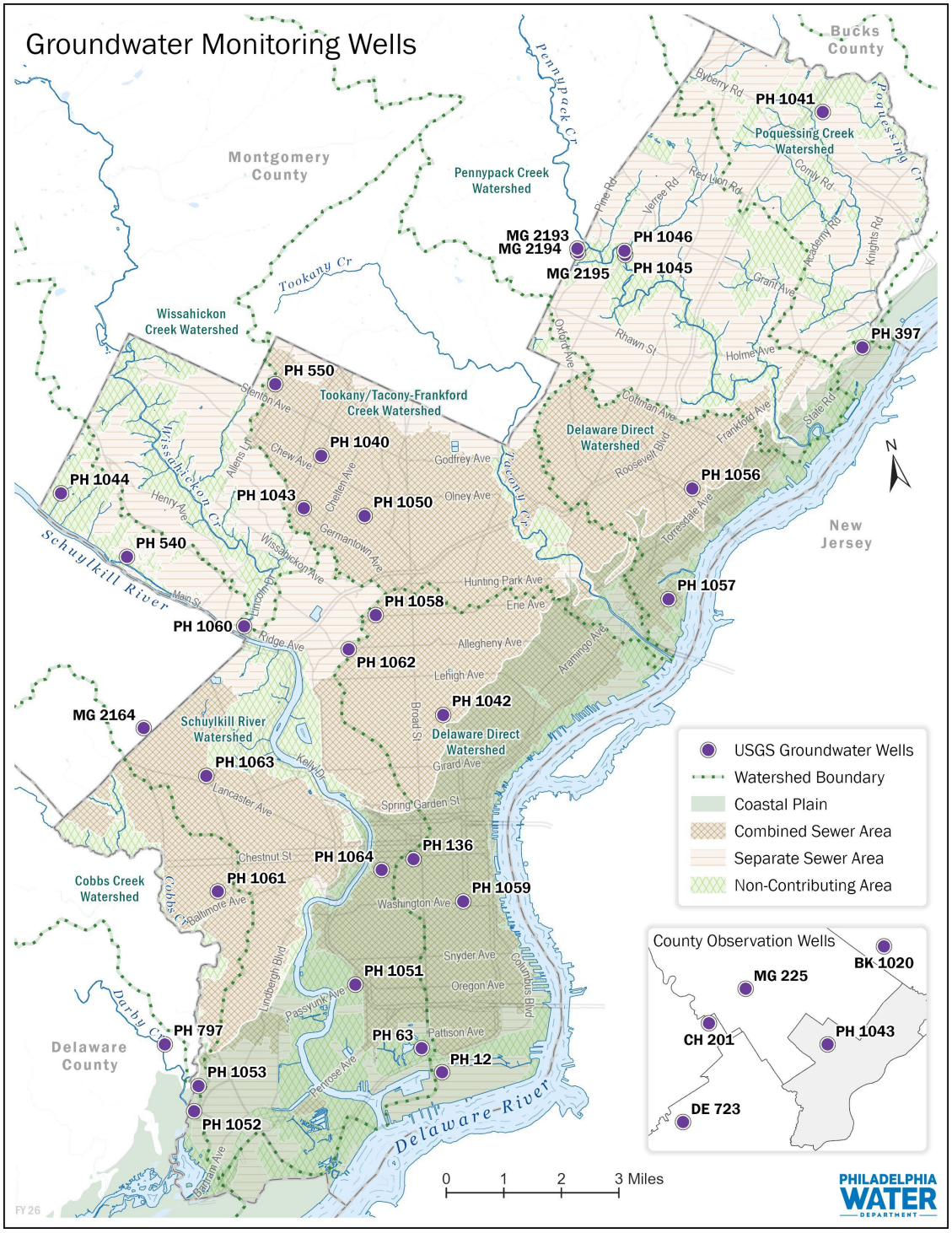


Figure 1. PWD-USGS Groundwater Monitoring Well Network Locations and (inset) County Reference Well Locations.

Wells were also classified according to predominant underlying geology and type of sewer system, *i.e.*, CSO or separate-sewered (Table 2, Figure 1). Another consideration for siting new wells was the potential influence of buried utilities and historic creek beds. During the period of rapid expansion of Philadelphia's grid-like network of streets, historic streams were encased in large brick sewers and buried in order to level and prepare land for development. Recent groundwater mapping and modeling work suggests that these brick sewers strongly influence local groundwater elevations (Paulachok 1991, Maimone et al. 2011).

Table 2. PWD-USGS Groundwater Well Geology and Sewer System Type Classification.

Site ID	Site Name	Sewer Type	Geology
USGS-395353075151501	PH 1052	Separate	Trenton Gravel
USGS-395408075104001	PH 63	Separate	Trenton Gravel
USGS-395416075150301	PH 1053	Separate	Trenton Gravel
USGS-395516075113901	PH 1051	CSO	Magothy Raritan Potomac
USGS-395656075100401	PH 136	CSO	Trenton Gravel
USGS-395859075085401	PH 1042	CSO	Pennsauken and Bridgeton Formation
USGS-395942075144301	MG 2164	Separate	Granitic Gneiss and Granite
USGS-400211075093701	PH 1050	CSO	Wissahickon Formation
USGS-400217075142101	PH 540	Separate	Wissahickon Formation
USGS-400229075104601	PH 1043	CSO	Wissahickon Formation
USGS-400308074592201	PH 397	Separate	Trenton Gravel
USGS-400311075101301	PH 1040	CSO	Wissahickon Formation
USGS-400327075152201	PH 1044	Separate	Wissahickon Formation
USGS-400424075104901	PH 550	CSO	Wissahickon Formation
USGS-400512075033401	PH 1045	Separate	Granitic Gneiss and Granite
USGS-400516075033201	PH 1046	Separate	Granitic Gneiss and Granite
USGS-400527075042801	MG 2193	Separate	Wissahickon Formation
USGS-400527075042802	MG 2194	Separate	Wissahickon Formation
USGS-400644074590801	PH 1041	Separate	Wissahickon Formation
USGS-400132075031001	PH 1056	CSO	Wissahickon Formation
USGS-400001075040301	PH 1057	CSO	Trenton Gravel
USGS-400038075094601	PH 1058	CSO	Pennsauken Formation
USGS-395611075091301	PH 1059	CSO	Trenton Gravel
USGS-395459075140501	PH 797	CSO	Trenton Gravel
USGS-395656075104401	PH 1064	CSO	Trenton Gravel
USGS-395705075135901	PH 1061	CSO	Wissahickon Formation
USGS-395849075134201	PH 1063	CSO	Wissahickon Formation
USGS-400016075102801	PH 1062	Separate	Pennsauken Formation
USGS-400055075122501	PH 1060	Separate	Wissahickon Formation

USGS maintains at least one reference well in most Pennsylvania counties. Reference wells located in neighboring counties (Figure 1, Table 3) may be used as regional reference wells for data analyses. Continuous hourly data are collected at well DE 723 in Delaware County. Reference wells in Chester, Bucks and Montgomery counties are not monitored continuously.

Site ID	Site Name	Lat.	Long.	Established
USGS-400453075255601	CH 201 Chester County Observation Well	40.136	-75.351	06/19/1978
USGS-400808075210401	MG 225 Montgomery County Observation Well	40.199	-75.052	08/15/1956
USGS-401157075032001	BK 1020 Bucks County Observation Well	40.081	-75.432	04/13/1968
USGS-395512075293701	DE 723 Delaware County Observation Well	39.920	-75.493	1983

Data Analysis

USEPA (2009) published detailed guidance on statistical analysis of groundwater contaminant concentrations. In many of the examples, the same logic and techniques could apply to analysis of groundwater levels. In the case of the Philadelphia groundwater monitoring network, the goal is to understand if groundwater levels are changing over time, at either a single well or group of wells. The main statistical tests to be utilized are a) Seasonal Kendall Test, and b) ANOVA. The tests are briefly described below.

The Seasonal Kendall test performs the Mann-Kendall (MK) trend test for individual seasons of the year, where season is defined by the user. It then combines the individual results into one overall test for whether the dependent variable (*i.e.,* groundwater level) changes in a consistent direction (monotonic trend) over time. The magnitude (*i.e.*, slope) of the trend is also determined. The test is nonparametric, therefore non-normal data can be analyzed (Helsel *et al.* 2006). USEPA (2009) advises that at least 10-12 measurements are needed, whereas Helsel and Hirsch (2002) recommends that the product of number of years and number of seasons be greater than 25. Helsel *et al.* (2006) further caution that with more than 10 years of data, adjusted p-values should be calculated to account for the possibility of serial correlation. The Seasonal Kendall test can be applied to data from a single well, not multiple wells. To examine seasonal trends across multiple wells, the Covariance-Sum test is used (Lettenmaier 1988), which is essentially the execution of multiple seasonal Kendall tests and calculation of the covariances between them. To analyze regional trends over time from a group of wells, the Regional Kendall test can be applied. The Regional Kendall test essentially functions the same way as the Seasonal Kendall test, except the data is categorized by region rather than season.

An alternate method to analyze temporal trends on either a single well or group of wells is the analysis of variance (ANOVA). For a single well or group of wells with data subdivided by season, a one-way ANOVA would examine the significance of seasonality as a statistical factor. A two-way ANOVA

would be applied to include location or region as a statistical factor. Either form of ANOVA assumes that the datasets are normally distributed with constant variance. Group residuals should be tested for normality and for equality of variance. If the data cannot be transformed to a normal distribution, the nonparametric Kruskal-Wallis test can be used instead to detect significance of the specified statistical factor (USEPA 2009).

Well Monitoring Data Summary

Well monitoring data were summarized from July 2025 to June 2026 (Tables 4-5). These data are presented as an update of the program status. Data were not collected during October 2025 due to a government shutdown. Additional data analysis will be completed as part of the groundwater model calibration and groundwater map update reports. Groundwater trends will be analyzed further once a sufficient amount of data has been collected (See Data Analysis section).

Table 4. PWD-USGS Groundwater Monitoring Well Data 7/2025-6/2026, Depth to Water Level (Feet below Land Surface).

Site ID	J	A	S	O	N	D	J	F	M	A	M	J
395353075151501	15.37	15.59	16.03		16.46	16.8	17.01	16.88	16.42	16.06	15.97	15.86
395416075150301	9.58	9.9	11.03		11.53	12.27	11.46	11.25	10.3	9.89	10.18	10.3
395459075140501	13.21	13.24	12.03		13.3	7.23	10.36		13.01	13.72	13.44	13.08
395611075091301	26.69	27.55	26.74		26.97	27.38	27.51	27.54	27.41	27.23	27.1	26.93
395656075104401	4.66	17.28	13.61		18.01	12.38	18.08	17.86	14.56	14.49	15.52	2.02
395705075135901	14.52	14.85	15.26		15.44	14.78	14.77	14.27	14.01	13.43	14.87	14.66
395849075134201	13.14	13.32	13.74		13.99	13.58	13.62	13.45	13.32	14.53		13.5
395942075144301	17.17	19.39	17.57		16.87	16.18	16.13	15.73	14.71	15.21	15.28	15.6
400016075102801	10.98	11.09	11.05		11.16	11.25	11.13	10.83	11.01	10.96	11.03	11.05
400038075094601	19.65	19.84	19.97		20.19	20.3	20.16	20.01	19.81	19.95	19.9	19.84
400055075122501	15.55	16.81	16.21		16.1					15.46	15.6	15.68
400132075031001	21.31	21.36	21.47		21.17	21.4	21.75	22.01	21.51	21.18		21.4
400217075142101	27.42	27.26	30.44		34.59	26.51	32.16	32.82	33	33.03		33.12
400229075104601	15.59	16.66	17.2		17.16	16.22	16.11	15.74	14.73	15.72	16.1	15.82
400308074592201	5.74	6.37	7.23		8.22	8.5	8.28	7.59	6.01	5.86	6.18	7.05
400311075101301	10.17	11.57	12.41		13.07	12.55	12.36	11.11	8.82	9.63	11.04	14.71
400327075152201	67.54	73.72	77.16		78.83	79.2	78.91	77.41	66.21	65.21	67.56	70.87
400424075104901	18.01	17.77	19.67		18.68	4.44	21.01	14.68	4.36	15.46	4.4	19.55
400512075033401	35.72	35.08	35.84		36.56	36.54	36.41	36.16	34.82	35.72	36.35	36.35
400516075033201	31.83	31.77	33.7		32	32.19	32.42	32.71	32.75	32.97	32.97	32.97
400527075042801	20.77	20.95	21.94		22.8	21.66	21.96	21.06	20.11	20.42	20.87	20.93
400527075042802	23.81	26.55	25		26.24	25.74	25.46	24.31	21.31	22.88	23.82	24.6
400644074590801	17.14	17.49	18.03		18.51	18.27	18.23	17.96	17.33	17.54	17.7	18.07

Table 5. Regional County Observation Well Data 7/2025-6/2026.

Site ID	J	A	S	O	N	D	J	F	M	A	M	J
400453075255601	22.1	23.51	25.12		26.86	26.83	26.01	25.83	22.72	22.61	23.21	23.31
400808075210401			15.74			16.57					14.1	
401157075032001		34.34					38.42		29.37	29.81		34.37
395512075293701	7.1*	7.3					7.6				7.03	

*Average of 6 measurements taken in July 2025 ranging from 7.07 to 7.16 ft

References

USEPA, 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities -Unified Guidance. Report no. EPA-530-R-09-007. Office of Resource Conservation and Recovery. Available online at http://www.epa.gov/epawaste/hazard/correctiveaction/resources/guidance/sitechar/gwstats/unified-guid.pdf

Helsel, D. R., and Hirsch, R. M., 2002. Statistical methods in water resources: U.S. Geological Survey Techniques of Water-Resources Investigations, book 4, chap. A3, 524 p. Available online at http://water.usgs.gov/pubs/twri/twri4a3/

Helsel, D.R., Mueller, D.K., and Slack, J.R., 2006. Computer Program for the Kendall Family of Trend Tests. U.S. Geological Survey Scientific Investigations Report 2005-5275, 4p. Available online at http://pubs.usgs.gov/sir/2005/5275/pdf/sir2005-5275.pdf

Lettenmaier D.P., 1988. Multivariate Nonparametric Tests for Trend in Water Quality. *Water Resources Bulletin*, 24, 505-512.

Maimone, M., O'Rourke, D.E., Knighton, J.O., and Thomas, C.P. 2011. Potential Impacts Of Extensive Stormwater Infiltration In Philadelphia. Environmental Engineer: Applied Research and Practice. Fall 2011. 29-39.

Paulachok, G. N., and Wood C.R. (1984). Water-table map of Philadelphia, Pennsylvania, 1976-1984. U.S. Geological Survey Hydrologic investigations atlas HA-676. Washington, D.C.

Appendix I – PWD Wadeable Streams Benthic Macroinvertebrate and Physical Habitat Assessments

PWD Wadeable Streams Benthic Macroinvertebrate and Physical Habitat Assessments

Background

Since 1999, the Philadelphia Water Department (PWD) has been using benthic macroinvertebrate sampling and instream physical habitat assessments in order to characterize watershed conditions and track trends in watershed health. Assessments are performed by the staff of PWD's Bureau of Laboratory Services (BLS) using PADEP Instream Comprehensive Evaluation (ICE) methods. As benthic invertebrates may be exposed to both short and long-duration stressors, data collected through this program are pertinent to all targets of PWD's Integrated Watershed Management Plan (IWMP) Strategy.

Common Acronyms Used in This Report

IBI - Index of Biotic Integrity, a biological assessment tool to indicate the capability of a stream to support a healthy aquatic community.
ICE - Instream Comprehensive Evaluation, a protocol to survey and evaluate wadeable streams.
PTV - Pollution Tolerance Values, a numeric measure of an organism's ability to withstand environmental degradation.
EPT - Ephemeroptera + Plecoptera + Trichoptera, the common names for pollution-sensitive mayflies, stoneflies and caddisflies.

Assessment Study Design

In recent years, agencies tasked with evaluating water quality have attempted to incorporate statistical sampling designs, or a "probabilistic" approach, to selecting sampling sites (Paulsen 2008, Borsuk *et al*. 2001) rather than relying on fixed sites. Statistical sampling design is particularly important when the goal of monitoring is to make an estimate of the percentage of waters affected by pollution. Another advantage of probabilistic study design is that the assessment units are distributed over a larger geographic area. When monitoring efforts are directed at individual watersheds on a rotating basis, as has been the case with PWD programs, the possibility arises that larger scale patterns may be missed. For example, the effects of floods or drought conditions are widespread, but only the watershed that is being monitored within the same time period will have data reflecting these effects. Disadvantages of a probabilistic approach include the technical demands of establishing and randomly selecting from geographic data sets containing all possible sampling locations as well as additional field reconnaissance work when conducting the actual monitoring.

The current PWD monitoring strategy is intended to be a compromise, recognizing the benefits of collecting data from randomly selected sites but also the importance of maintaining a consistent monitoring effort at selected locations over time. This plan is based on a similar monitoring program

implemented by USGS in Chester County (Reif 2002, Reif 2004). The plan also reflects the labor constraints of collecting and processing samples with the PADEP ICE protocol. It is hoped that this compromise approach (Table 1) will achieve some of the benefits of a randomized approach, while providing periodic re-evaluation of our watersheds required to inform the watershed planning process and comply with environmental mandates.

Stream Conditions

This report summarizes results from samples that were collected on April 30, May 20, November 6, and November 7, 2025. PWD is not aware of any spills, discharges or unusual conditions that would tend to cause misleading results.

Table 1. PWD Wadeable Streams Assessments Schedule

Period	Monitoring Activity (number of samples)
2011	USGS gage samples (8); Randomly selected sites (16)
2012	Cobbs Creek Assessment (6*); USGS gage samples (9); Random (10)
2013	Tookany/Tacony Creek (10*); USGS gage samples (8); Random (7)
2014	Wissahickon Creek Tributaries (11); USGS gage samples (9); Random (5)
2015	Wissahickon Creek (12*); USGS gage samples (8); Random (2)
2016	Pennypack Creek Tributaries (11); USGS gage samples (9); Random (5)
2017	Pennypack Creek (12*); USGS gage samples (9); Random (4)
2018	Poquessing Creek (12*); USGS gage samples (9); Random (4)
2019	Schuylkill River Tributaries (3); USGS gage samples (8); Random (3)
2020	USGS gage samples (6); Random (2)
2021	Cobbs Creek (6*); USGS gage samples (9); Random (7)
2022	Tookany/Tacony Creek (10*); USGS gage samples (9); Random (6)
2023	Wissahickon Creek Tributaries (12); USGS gage samples (9); Random (1)
2024	USGS gage samples (9)
2025	USGS gage samples (5); Targeted samples (5)

* Number of monitoring sites excludes USGS gage sites in target watershed

Methods

Benthic Macroinvertebrate Sample Collection

Using the PADEP Instream Comprehensive Evaluation (ICE) protocol (PADEP 2009), macroinvertebrate samples were collected by placing a handheld D-frame net (500µm) at the downstream portion of a riffle. Stream substrate directly upstream of the D-frame net was then disturbed for approximately one minute to a depth of approximately 10 cm as substrate allowed. This procedure was repeated at other riffle locations of variable flow within the 100-m reach such that the sample at each station was a composite of six riffle samples. Composited samples from each biological monitoring location were then preserved in 95% ETOH (ethyl alcohol) and returned to the laboratory in polyethylene containers.

Benthic Macroinvertebrate Laboratory Procedures

Benthic macroinvertebrate samples were processed according to PADEP ICE protocols (PADEP 2009). Each composited sample was placed into an 18 x 12 x 3.5-inch pan marked with 28 four-square-inch grids. Four grids were randomly selected by drawing numbers. All material was extracted from the selected grids using a four-square-inch circular "cookie cutter," and placed into another identical empty pan. From this second pan, organisms were picked from randomly selected grids or “plugs” until a minimum of 200, but not more than 240, individuals were subsampled. This procedure was a misinterpretation of the actual technique, which stipulates a count of 200 (+/- 20%) individuals. When picking either the four initial “plugs” or additional plugs results in subsampling more than 240 individuals, the PADEP ICE protocol outlines a procedure for redistributing the subsample into a clean, gridded pan and “back counting” grids until a subsample consisting of 200 (+/-20%) is obtained. Invertebrates were identified under magnification, with taxonomic classification following PADEP 2009 guidelines.

Habitat Assessment

After collecting benthic invertebrates, biologists surveyed habitat features within the monitoring station and recorded scores for 12 habitat attributes according to the PADEP ICE protocol (Table 2). Biologists completed the survey independently and then discussed the interpretation of individual habitat attribute scores, averaging individual scores when necessary.

Table 2. PA DEP ICE Protocol Habitat Metrics

Habitat Parameter	Description
Instream Cover (Fish)	Mix of boulder, cobble or other stable habitat
Epifaunal Substrate	Length/width of riffles; characterization of boulders, gravel, cobble
Embeddedness	Presence/absence of fine sediment around boulders, gravel, cobble
Velocity/Depth Regimes	Presence/absence of four velocity/depth regimes
Channel Alteration	Degree of channelization or dredging
Sediment Deposition	Measure of sediment deposits, degree of change at the bottom
Frequency of Riffles	Occurrence of riffles and distance between riffles
Channel Flow Status	Degree to which water fills the available channel
Condition of Banks	Stability of streambanks and presence of erosion or bank failure
Bank Vegetative Protection	Percentage of streambank surface covered by vegetation
Grazing or Other Disruptive Pressure	Degree to which vegetation disrupted by grazing or mowing
Riparian Vegetative Zone Width	Width of riparian zone and determination of impact on vegetation by human activities

Data Analysis

Benthic macroinvertebrate and habitat data were compiled in a Microsoft Access database, and queries were used to calculate scoring metrics. Individual metric standardized scores and the PADEP Index of Biotic Integrity (IBI) were calculated using the ICE protocol (Table 3).

Table 3. PADEP ICE Protocol Metrics and Metric Standardization Values

Metric	Standardization Value
Total Taxa Richness	33
EPT Taxa Richness (PTV 0-4)	19
Beck's Index, version 3	38
Hilsenhoff Biotic Index	1.89
Shannon Diversity	2.86
Percent Sensitive Individuals (PTV 0-3)	84.5

Monitoring Locations

Assessments were performed at 5 USGS gage sites and 5 additional, targeted sites along Pennypack and Wissahickon Creek tributaries between 4/30/2025 and 11/7/2025. (Figure 1, Tables 4 and 5). The full suite of USGS gage sites were not sampled due to lack of staff capacity. USGS stream gaging stations are used as long-term monitoring points at which streamflow and continuous water chemistry data are collected (refer to PWD-USGS Cooperative Water Quality Monitoring appendix). Water chemistry grab sampling for nutrient and bacterial parameters is also conducted at these USGS gage stations on a quarterly basis (refer to PWD Quarterly Dry Weather Water Quality Monitoring appendix). Combining different forms of monitoring at the same station allows for better integration of information and may enable more sophisticated analyses in the future. In some cases, when USGS gage sites are not appropriate or accessible for bioassessment activities, a nearby upstream or downstream location is used to collect macroinvertebrates and assess habitat conditions.

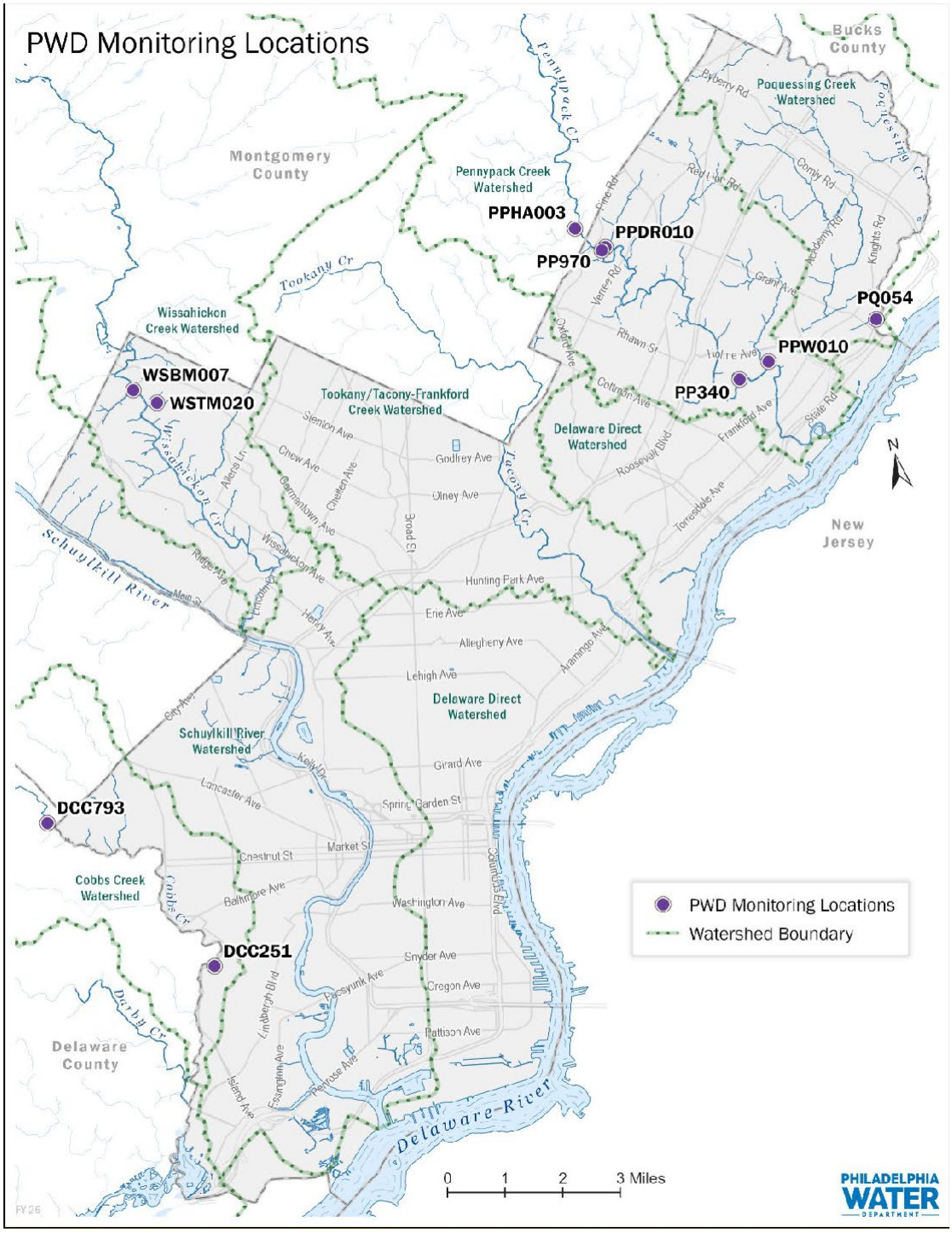


Figure 1. PWD Wadeable Streams Assessment Locations – Spring and Fall 2025

Table 4. PWD-USGS Cooperative Monitoring Program Sites

Site ID	USGS Gage	Site Description	Drainage Area (mi^2)
DCC251	01475548	Cobbs Creek at Mount Moriah Cemetery	19.78
DCC793	01475530	Behind Grange Estate, off private road (Myrtle Street)	4.60
PP340	01467048	Pennypack Creek at Lower Rhawn St bridge	49.84
PP970	01467042	Pennypack Creek at Pine Rd.	39.34
PQ054	01465798	Poquessing Creek at Holy Family College	21.67
TF324	01467087	Frankford Creek at Castor Ave.	29.69
TF597	01467086	Tacony Creek below Adams Ave. Bridge	16.25
WS076	01474000	Wissahickon Creek at Ridge Ave.	63.22
WS1075	01473900	Wissahickon Creek at Ft. Washington	40.44

Table 5. Targeted Sites in the Wissahickon and Pennypack Creek Watersheds

Site ID	Site Description	Drainage Area (mi^2)
WSBM007	Bells Mill Run 400 ft US of Wissahickon confluence	0.48
WSTM020	Thomas Mill Run 1200 ft US of Wissahickon confluence	9.06
PPW010	Woodenbridge Run 100 ft US of Pennypack confluence	3.47
PPDR010	Darlington Creek 550 ft DS of Bloomfield Rd bridge	1.19
PPHA003	Harpers Run 300 ft US of Pennypack confluence	1.25

Benthic Macroinvertebrate Monitoring Results – Fall and Spring 2025

This report presents macroinvertebrate monitoring results from 10 sites sampled in fall and spring 2025. A total of 2,250 benthic macroinvertebrates from 48 taxa were collected from the 10 sampling sites. When compared to PADEP ICE protocol metric reference conditions, all assessment sites were classified as impaired and fell below 50% comparability, meaning that they are not meeting the Aquatic Life Use (ALU) designation (Figure 2). Percent comparability with the standard reference IBI score ranged from 19.9% to 45.5%. All sites were characterized by low taxa richness, low or absent EPT taxa, and elevated Hilsenhoff Biotic Index scores (Table 6, Figure 2).

Table 6. PADEP ICE Metric Scores

Site ID	Taxa Richness	EPT richness (PTV 0-4)	Beck's Index	HBI	Shannon Index	% Sensitive individuals	IBI score
PPDR010	11	0	0	6.22	1.085	1.3	19.9
WSBM007	16	4	6	4.41	2.186	35.8	45.5
WSTM020	17	4	9	3.24	1.745	29.0	43.9
PPHA003	17	3	6	5.64	1.899	5.7	35.0
DCC793	13	2	1	5.78	1.224	1.7	24.9
DCC251	15	0	0	6.07	1.554	0.0	24.7
PP340	22	3	3	6.00	2.351	0.9	37.2
PP970	18	2	2	5.81	1.960	2.7	32.3
PQ054	18	1	1	5.85	2.029	2.4	31.2
PPW010	22	2	0	5.97	2.417	0.9	35.4

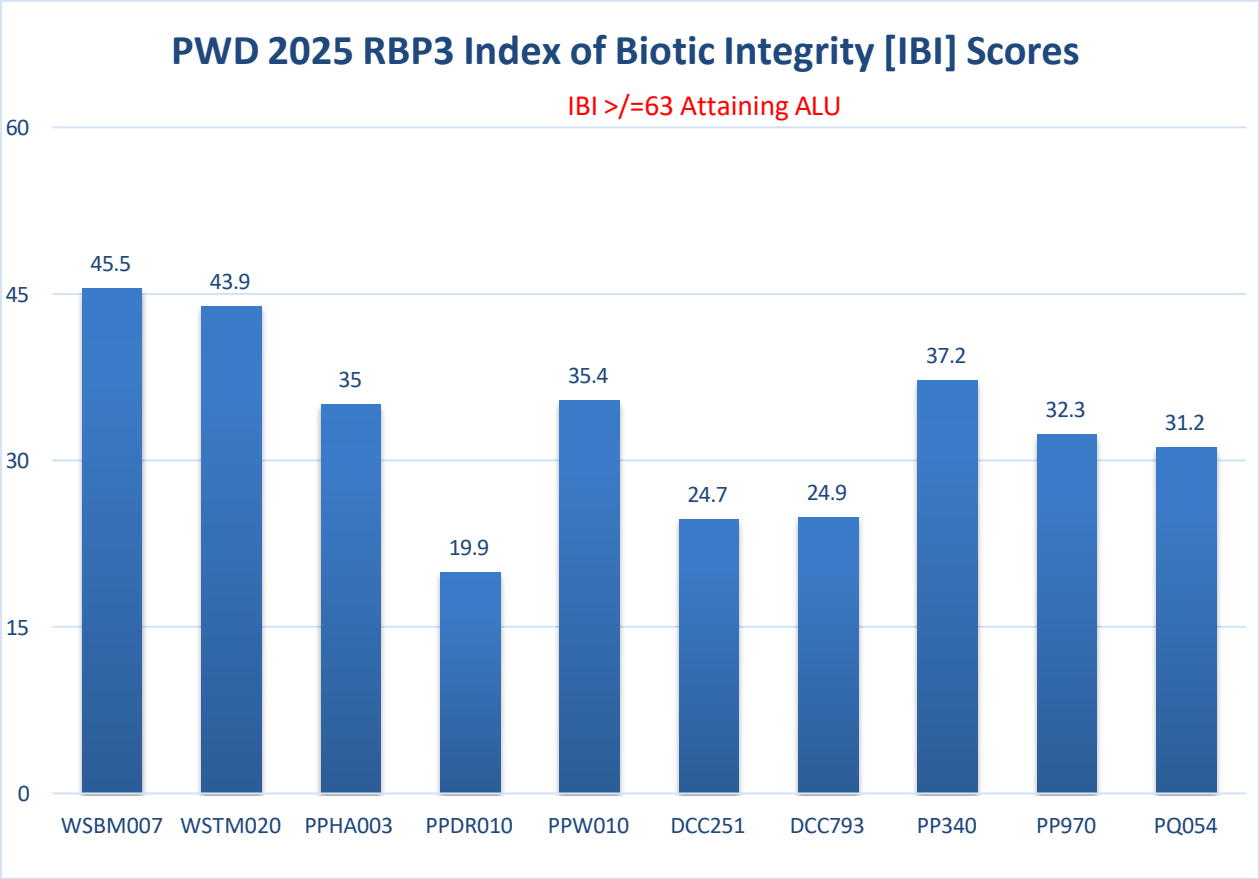


Figure 2. 2025 Macroinvertebrate IBI Scores

Very sensitive taxa (pollution tolerance value ≤ 2) were present at 4 of the 10 sites assessed in fall and spring 2025. All sites fell below the PADEP reference standard for Percent Intolerant Taxa metric (PTV = 0 to 3) of 84.5%.

Overall diversity was low among all sites. The Shannon Diversity Index scores for all sites ranged from 1.085 to 2.417, compared to the reference metric value of 2.86. The site with the greatest diversity was the Pennypack Creek tributary Woodenbridge Run site PPW010 with a taxa richness of 22, Shannon Diversity Index of 2.417, EPT taxa richness of 2, and HBI of 5.97.

The Hilsenhoff Biotic Index (HBI) is a metric used to determine the overall pollution tolerance of a site's benthic macroinvertebrate community. This community composition and tolerance metric generally increases with increasing ecosystem stress, resulting in increasing dominance of pollution-tolerant organisms. Oriented toward the detection of organic pollution, HBI scores can range from 0 (very sensitive) to 10 (very tolerant). The average HBI for all sites was 5.5, and scores at the 9 assessment sites ranged from 3.24 to 6.22.

Tolerance/intolerance measures are intended to be representative of relative sensitivity to perturbation and may include numbers of pollution tolerant and intolerant taxa or percent composition (Barbour *et al*., 1999). The proportion of moderately tolerant individuals at all sites ranged from 15.84% to 93.16%. The site with the greatest proportion of moderately tolerant taxa was DCC793, with 93.16% dominance related to a high number of species within the Chironomidae family (n=167). Chironomidae (Figure 3) was the dominant taxa at 4 of the 10 sites. Planariidae dominated at 2 sites. The proportional dominance of these tolerant and moderately tolerant taxa is evidence of increasingly homogeneous community assemblages within selected monitoring sites. Pollution-tolerant, generalist species increase in proportional dominance with increased disturbance due to the loss of optimal habitat conditions for less tolerant, more specialized species.



Figure 3. Member of the Chironomidae family, commonly called "non-biting midges"
Photo: Animal Diversity Web, 2009

The proportion of tolerant taxa at each monitoring site ranged from 0.85% to 22.03%. The proportion of intolerant taxa at each site ranged from 1.32% to 82.35%. The Wissahickon tributary Thomas Mill site (WSTM020) had the highest proportion of intolerant taxa.

Sensitive taxa (pollution tolerance values ≤ 3) were collected at 9 of the 10 sites (Table 7). However, the rarity of sensitive taxa suggests a response to watershed-wide perturbation, such as water quality degradation. Other potential explanations for the rarity of sensitive taxa are habitat degradation caused by fine sediment delivered to the stream channel via bank erosion or stormwater runoff and changes in

seasonal base flow and temperature that tend to accompany urbanization. *Antocha* (Diptera; Tipulidae, pollution tolerance value =3) were the most commonly collected sensitive taxa.

Table 7. Sensitive Taxa Collected

Site	Order	Family	Genus	HBI
PPDR010	Diptera	Tipulidae	*Antocha*	3
WSBM007	Trichoptera	Hydropsychidae	*Diplectrona*	0
WSBM007	Trichoptera	Philopotamidae	*Dolophilodes*	0
WSBM007	Diptera	Tipulidae	*Antocha*	3
WSBM007	Plecoptera	Capniidae	*Allocapnia*	3
WSTM020	Trichoptera	Hydropsychidae	*Diplectrona*	0
WSTM020	Trichoptera	Philopotamidae	*Dolophilodes*	0
WSTM020	Trichoptera	Glossosomatidae	*Glossosoma*	0
WSTM020	Plecoptera	Nemouridae	*Amphinemura*	3
PPHA003	Trichoptera	Philopotamidae	*Dolophilodes*	0
PPHA003	Trichoptera	Glossosomatidae	*Glossosoma*	0
PPHA003	Plecoptera	Nemouridae	*Amphinemura*	3
DCC793	Diptera	Tipulidae	*Antocha*	3
DCC793	Coleoptera	Elmidae	*Microcylleopus*	2
PP340	Trichoptera	Lepidostomatidae	*Lepidostoma*	1
PP340	Coleoptera	Elmidae	*Ancyronyx*	2
PP970	Trichoptera	Leptoceridae	*Ceraclea*	3
PP970	Coleoptera	Elmidae	*Microcylleopus*	2
PP970	Coleoptera	Elmidae	*Ancyronyx*	2
PQ054	Diptera	Tipulidae	*Antocha*	3
PQ054	Coleoptera	Elmidae	*Ancyronyx*	2

Table 8. 2025 Benthic Macroinvertebrate Taxa List

Order	Family	Genus
Amphipoda	Crangonyctidae	*Crangonyx*
Amphipoda	Gammaridae	*Gammarus*
Bivalvia	Corbiculidae	*Corbicula*
Coleoptera	Elmidae	*Ancyronyx*
Coleoptera	Elmidae	*Microcylleopus*
Coleoptera	Elmidae	*Optioservus*
Coleoptera	Elmidae	*Stenelmis*
Coleoptera	Hydrophilidae	*Berosus*
Coleoptera	Psephenidae	*Ectopria*
Decapoda	Cambaridae	*Cambarus*
Diptera	Chironomidae	*spp*
Diptera	Empididae	*Hemerodromia*
Diptera	Psychodidae	*Psychoda*
Diptera	Simuliidae	*Simulium*
Diptera	Tipulidae	*Antocha*
Diptera	Tipulidae	*Molophilus*
Diptera	Tipulidae	*Tipula*
Ephemeroptera	Baetidae	*Acentrella*
Ephemeroptera	Baetidae	*Baetis*
Ephemeroptera	Heptageniidae	*Stenacron*
Gastropoda	Ancylidae	*sp*
Gastropoda	Lymnaeidae	*sp*
Gastropoda	Physidae	*sp*
Hemiptera	Veliidae	*Microvelia*
Hirudinea	(leech)	
Hydracarina	(water mites)	
Isopoda	Asellidae	*Caecidotea*
Lepidoptera	Crambidae	*Petrophila*
Nemertea		
Oligochaeta		
Ostracoda		
Plecoptera	Capniidae	*Allocapnia*
Plecoptera	Nemouridae	*Amphinemura*
Trichoptera	Glossosomatidae	*Glossosoma*
Trichoptera	Hydropsychidae	*Cheumatopsyche*
Trichoptera	Hydropsychidae	*Diplectrona*
Trichoptera	Hydropsychidae	*Hydropsyche*
Trichoptera	Hydroptilidae	*Hydroptila*
Trichoptera	Hydroptilidae	*Leucotrichia*

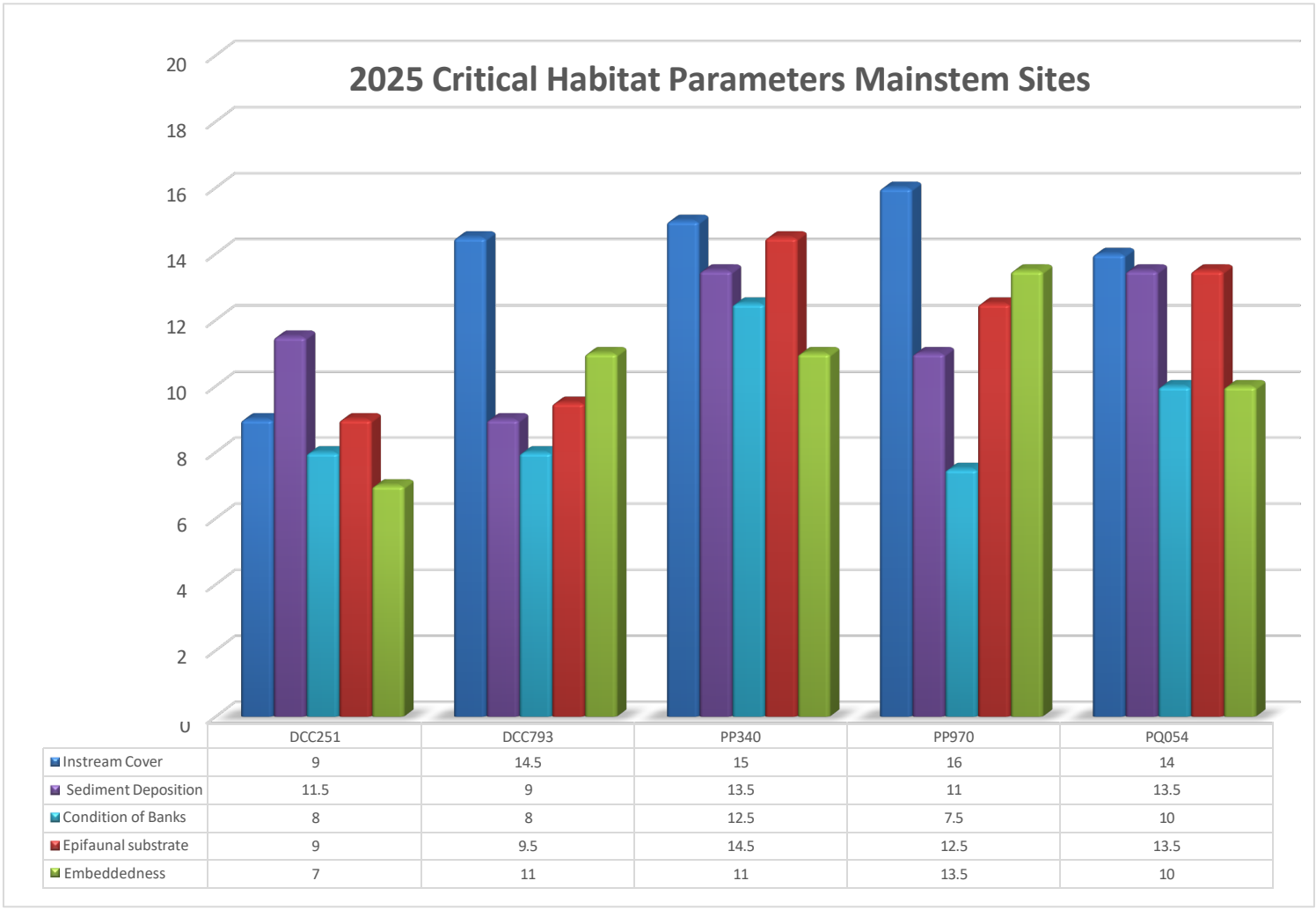
Trichoptera	Lepidostomatidae	*Lepidostoma*
Trichoptera	Leptoceridae	*Ceraclea*
Trichoptera	Leptoceridae	*Oecetis*
Trichoptera	Philopotamidae	*Chimarra*
Trichoptera	Philopotamidae	*Dolophilodes*
Trichoptera	Polycentropodidae	*Polycentropus*
Turbellaria	Nemertea	*sp*
Turbellaria	Planariidae	*sp*
Zygoptera	Coenagrionidae	*Argia*

Physical Habitat Monitoring Results – Fall and Spring 2025

Habitat impairments such as hydrologic extremes (*i.e.,* low base flow and accentuated flow during storm events), physical obstructions, and sedimentation/siltation appear to be the major environmental stressors on the aquatic ecosystem. Accumulation of sediment in the interstitial spaces of riffles has been shown to limit available habitat and possibly smother benthic invertebrate life stages (Runde and Hellenthal, 2000). 8 out of 10 sites received suboptimal total scores for habitat (Table 9). The Harpers Run site at Lorimer Park near Modon Road (PPHA003) achieved the highest total score. The Darlington Creek site near its confluence with Pennypack Creek (PPDR010), had the lowest total habitat score of all sites (Table 9, Figure 4).

Table 9. 2025 Physical Habitat Scores at All Monitoring Sites

Site ID	Instream	Epifaunal	Embed	Veldep	Chanalt	Seddep	Riffreq	Chanflo	Bankcond	Vegpro	Graze	Ripveg	Total Score
DCC251	9	9	7	12	12.5	11.5	10.5	11	8	13	15	13	131.5
DCC793	14.5	9.5	11	15.5	16.5	9	13	8.5	8	15.5	16.5	17.5	155
PP340	15	14.5	11	15	15.5	13.5	12.5	10.5	12.5	17	15.5	14	166.5
PP970	16	12.5	13.5	17	15	11	14.5	9.5	7.5	16	14.5	16.5	163.5
PQ054	14	13.5	10	14	16	13.5	11.5	13	10	14.5	15	12	157
PPW010	12.5	8.5	9	13.5	18	13	14	8	15	18	18	16	163.5
WSBM007	16.5	14	18.5	14.5	12.5	16	17	14.5	12.5	8	16.5	15	175.5
WSTM020	11	8.5	16.5	8	18	16	17	13	12	13.5	16.5	14.5	164.5
PPDR010	10	7.5	6.5	6	16	5.5	5.5	6.5	4.5	15.5	17	17	117.5
PPHA003	15	15	13	15	17	12.5	16	12	13	16	16	16	176.5



	DCC251	DCC793	PP340	PP970	PQ054
Instream Cover	9	14.5	15	16	14
Sediment Deposition	11.5	9	13.5	11	13.5
Condition of Banks	8	8	12.5	7.5	10
Epifaunal substrate	9	9.5	14.5	12.5	13.5
Embeddedness	7	11	11	13.5	10

Figure 4. Mainstem Site Critical Habitat Parameters, 2025

References

Barbour, M.T., J. Gerritsen, B.D. Snyder, and J.B. Stribling. 1999. Rapid bioassessment protocols for use in streams and wadeable rivers: periphyton, benthic macroinvertebrates and fish, second edition. EPA 841-B-99-002. United States Environmental Protection Agency; Office of Water. Washington, D.C.

Borsuk, M. E., C. A. Stow, and K. H. Reckhow. 2002. Predicting the frequency of water quality standard violations: A probabilistic approach for TMDL development. Environmental Science & Technology, 36: 2109-2115.

Pennsylvania Department of Environmental Protection (PADEP). (2009). Instream Comprehensive Evaluation Surveys. Harrisburg, PA. 59 p.

Paulsen, S.G. et al. 2008. Condition of stream ecosystems in the US: an overview of the first national assessment. Journal of the North American Benthological Society: December 2008, Vol. 27, No. 4, pp. 812-821.

Reif, A.G. 2002. Assessment of stream quality using biological indices at selected sites in the Red Clay and White Clay Creek Basins, Chester County, Pennsylvania, 1981-97. USGS Fact Sheet FS-118-02.

Reif, A.G. 2004. Assessment of water chemistry, habitat, and benthic macroinvertebrates at selected stream-quality monitoring sites in Chester County, Pennsylvania, 1998-2000: 84.

Runde, J. M., and R. A. Hellenthal. 2000. Behavioral responses of *Hydropsyche sparna* (Trichoptera: Hydropsychidae) and related species to deposited bedload. Environmental Entomology 29:704-709.

Appendix J – NPDES Industrial Stormwater Permitted Sites – Philadelphia County

	Authority ID	Authority	Site Name	Adress	City	State	Zip Code
	918510	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	L3HARRIS MARITIME POWER & ENERGY SOLUTIONS INC	13500 ROOSEVELT BLVD	PHILADELPHIA	PA	19116-4201
	1428247	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ZENTIS NORTH AMERICA	1741 TOMLINSON RD	PHILADELPHIA	PA	19116
	1428323	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	RICHARDSAPEX MAIN ST FAC	4202-24 MAIN ST	PHILADELPHIA	PA	19127
	1431003	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	WASTE MGMT BLEIGH AVE FAC	5109 BLEIGH AVE	PHILADELPHIA	PA	19136
	1431377	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	WASTE MGMT OF PA GRAYS FERRY AVE FAC	3605 GREYS FERRY AVE	PHILADELPHIA	PA	19146
	1431848	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PHILA GAS WORKS PASSYUNK AVE PLT	3100 PASSYUNK AVE	PHILADELPHIA	PA	19145
	1431887	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	NORTHEAST PHILADELPHIA AIRPORT (PNE)	9800 ASHTON RD	PHILADELPHIA	PA	19114
	1431890	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	CLEAN EARTH OF PHILA FAC	3201 S 61ST ST	PHILADELPHIA	PA	19153-3502
	1431924	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PEPSI BOTTLING ROOSEVELT BLVD PLT	11701 ROOSEVELT BLVD	PHILADELPHIA	PA	19154-2108
	1431938	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	LKQ VENICE AUTO PARTS	3350 SOUTH 61ST STREET	PHILADELPHIA	PA	19153
	1432452	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	S D RICHMAN SONS WHEATSHEAF LN FAC	2435 WHEATSHEAF LANE	PHILADELPHIA	PA	19137
	1433289	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ALLEGHENY IRON & METAL TACONY ST FAC	TACONY ST & ADAMS AVE	PHILADELPHIA	PA	19124
	1433315	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ADVANSIX RESINS AND CHEMICALS LLC FRANKFORD PLT	MARGARET & BERMUDA STS	PHILADELPHIA	PA	19137-1193
	1433495	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	BWC TERMINALS-PHILADELPHIA	2900 E ALLEGHENY AVE	PHILADELPHIA	PA	19134-6302
	1433799	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ABF FREIGHT SYSTEM RICHMOND ST FACILITY	4000 RICHMOND ST	PHILADELPHIA	PA	19137
	1434116	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	CSX INTERMODAL CHRISTOPHER COLUMBUS AVE FAC	3400 S CHRISTOPHER COLUMBUS BLVD	PHILA	PA	19148
	1434128	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	TJ COPE NORCOM RD FAC	11500 NORCOM RD	PHILA	PA	19154
	1434268	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	UNITED METAL TRADERS COMLY ST FAC	5240 COMLY ST	PHILADELPHIA	PA	19135-4315
	1435103	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	REPUBLIC SVC OF PA PHILADELPHIA HAULING FAC	3000 E HEDLEY ST	PHILADELPHIA	PA	19137
	1435301	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	VANE LINE BUNKERING FT MIFLIN RD FAC	4925 FT MIFLIN RD	PHILA	PA	19153
	1435425	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PACKER AVE MARINE TERMINAL	3301 S COLUMBUS BLVD	PHILA	PA	19148
	1436473	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	REPUBLIC SVC QUICKWAY TRANSFER STATION	2960 ORTHODOX ST	PHILADELPHIA	PA	19137
	1436694	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	US POSTAL SVC LINDBERGH BLVD FAC	7500 LINDBERGH BLVD	PHILADELPHIA	PA	19176-9998
	1438285	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	SUN CHEM HUNTING PARK AVE PLT	3301 HUNTING PARK AVE	PHILADELPHIA	PA	19132
	1482556	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ATLANTIC USED AUTO PARTS ESSINGTON AVE FAC	6544 ESSINGTON AVE	PHILA	PA	19153
	1484214	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ESSINGTON AVE USED AUTO PARTS FAC	6746 ESSINGTON AVE	PHILA	PA	19153
	1487882	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ATLANTIC AVIATION ENTERPRISE AVE FAC	8375 ENTERPRISE AVE	PHILADELPHIA	PA	19153
	1502503	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	JACK'S AUTO PARTS S 61ST ST FAC	3517-3555 S 61ST ST	PHILA	PA	19153
	1502927	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ALPHA SHREDDING GROUP PHILA	6330 W PASSYUNK AVE	PHILA	PA	19153
	1036930	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	NDV SCRAP METAL INC	3630 N 2ND ST	PHILADELPHIA	PA	19140-4605
	1219023	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	BRITTON IND INC	NA	NA	NA	NA
	1229352	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	JT'S USED AUTO PARTS S 61ST ST FAC	3505 S 61ST ST	PHILADELPHIA	PA	19153
	1240082	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	TRC TRANSFER STATION COLUMBUS BLVD FAC	2904 S CHRISTOPHER COLUMBUS BLVD	PHILADELPHIA	PA	19148
	1264620	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	C&E AUTO PARTS ESSINGTON AVE	6796 ESSINGTON AVE	PHILA	PA	19153
	1389066	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DHL EXPRESS HOLSTEIN AVE FAC	7600 HOLSTEIN AVE	PHILA	PA	19153
	21593	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	METRO MACH OF PA SHIP REPAIR FAC	NA	NA	NA	NA
	326466	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PAARNG SOUTHAMPTON FAC	2734 SOUTHAMPTON RD	PHILADELPHIA	PA	19154
	326472	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PAARNG OGONTZ OMS 14A	5350 OGONTZ AVE	PHILADELPHIA	PA	19141
	326557	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PAARNG FT MIFFLIN FAC	BLDG 56 FORT MIFFLIN	PHILADELPHIA	PA	19153
	383091	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	FEDEX GREYS FERRY AVE FAC	3600 GRAYS FERRY AVE	PHILADELPHIA	PA	19146
	459790	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PHILA WATER DEPT SE WPCP	25 PATTISON AVE	PHILADELPHIA	PA	19148-5607
	459812	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PHILA WATER DEPT SW WPCP	8200 ENTERPRISE AVE	PHILADELPHIA	PA	19153-3813
	459823	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	PHILA WATER DEPT NE WPCP	3895 RICHMOND ST	PHILADELPHIA	PA	19137-1418
	577993	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DHL EXPRESS COLUMBUS BLVD FAC	1101 N CHRISTOPHER COLUMBUS BLVD	PHILADELPHIA	PA	19125
	701610	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	SMALL TIME OPERATOR AUTO PARTS JAMES ST FAC	NA	NA	NA	NA
	1039992	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	BIG HEAD AUTO SALVAGE CORP	3511 S 61ST ST	PHILADELPHIA	PA	19153
	1056063	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	KANCO METALS INC	4601 BATH ST	PHILADELPHIA	PA	19137-2216
	1428081	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	KINGSBURY	10385 DRUMMOND RD	PHILADELPHIA	PA	19154
	1429658	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DUFFEY OIL TERM	2700 ROBERTS AVE	PHILADELPHIA	PA	19129
	1431928	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	NAVAL FOUNDRY AND PROPELLER CTR	1701 KITTY HAWK AVE	PHILADELPHIA	PA	19112-5087
	1432373	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	MARINE LUBRICANTS, INC-PHILLY	4700 BASIN BRIDGE RD	PHILADELPHIA	PA	19112
	1432752	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	AMAZON.COM SERVICES LLC-DDP1	2900 GRANT AVE	PHILADELPHIA	PA	19114-2310
	1433049	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	RHOADS BUILDING 1028	4703 BASIN BRIDGE ROAD	PHILADELPHIA	PA	19112
	1433194	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ARDEX LAB	2050 BYBERRY RD	PHILADELPHIA	PA	19116
	1433318	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	TASTYKAKE	2801 HUNTING PARK AVE	PHILADELPHIA	PA	19129
	1433457	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	CONRAIL - FRANKFORD JUNCTION YARD	2110 E BUTLER ST	PHILADELPHIA	PA	19124
	1433473	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	CONRAIL - SOUTH PHILLY YARD	11TH ST & TERMINAL RD	PHILADELPHIA	PA	19112
	1433494	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	CONRAIL - ANN STREET YARD	2801 E ANN STREET	PHILADELPHIA	PA	19134
	1435081	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	AMAZON.COM SERVICES LLC DDP9	3025 MEETING HOUSE RD	PHILADELPHIA	PA	19154
	1435091	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	AMAZON.COM SERVICES LLC - DPH8	7575 BREWSTER AVE	PHILADELPHIA	PA	19153-3206
	1440891	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DURHAM SCH SRVS CSC - 4091	4101 N DELAWARE AVE	PHILADELPHIA	PA	19137-1939
	1459739	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	AMAZON.COM SVC LLC DDP9 PKG PHILADELPH5	2703 BLACK LAKE PL	PHILADELPHIA	PA	19154

	Authority ID	Authority	Site Name	Adress	City	State	Zip Code
	1459776	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	AMAZON.COM SVC LLC DPH8 PKG PHILADELPH4	6729-6733 ESSINGTON AVE	PHILADELPHIA	PA	19153
	1472255	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	MAOLA PHILADELPHIA FACILITY	10975 DUTTON RD	PHILADELPHIA	PA	19154-3203
	1489490	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	FEDEX TOWNSEND RD FAC	14300 TOWNSEND RD	PHILA	PA	19154
	1510389	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	SEPTA ROBERTS AVE FAC	2705 ROBERTS AVE	PHILA	PA	19129
	1522616	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DIETZ & WATSON	5701 TACONY ST	PHILADELPHIA	PA	19135-4311
	1535897	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ECO ENERGY PHILLY	3400 S CHRISTOPHER COLUMBUS BLVD	PHILADELPHIA	PA	19148-5110
	1557506	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	NEWMAN & COMPANY, INC.	6101 TACONY ST	PHILADELPHIA	PA	19135-2998
	1566447	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	STEVE'S AUTO PARTS II S 61ST ST FAC	3331 S 61ST ST	PHILA	PA	NA
	1566489	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	RECLEIM PA LLC PHILA PLT	4301 N DELAWARE AVE	PHILADELPHIA	PA	19137
	1567100	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	DAVE'S DELAWARE VALLEY TOWING PASSYUNK AVE FAC	6159 PASSYUNK AVE	PHILA	PA	19153
	1568625	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	B & L AUTO PARTS 61ST STREET FAC	3404 S 61ST ST	PHILADELPHIA	PA	19153
	1570120	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	MANAYUNK TIMBER	5100 UMBRIA ST	PHILADELPHIA	PA	19128-4344
	1577933	PAG-03 Discharge of Stormwater Assoc w Industrial Activities	ORTHODOX AUTO UNRUH AVE FAC	5247 UNRUH AVE	PHILADELPHIA	PA	19135
	882940	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	FORMER PES REFINERY	3144 W PASSYUNK AVE	PHILADELPHIA	PA	19145-5208
	1523813	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	JDM MATERIALS GRANT AVE PLT	2750 GRANT AVE	PHILA	PA	19114
	18834	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	SEPTA VICTORY AVE TERM	110 & 103 VICTORY AVE	UPPER DARBY	PA	19082
	901759	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	HANWHA PHILLY SHIPYARD INC	2100 KITTY HAWK AVE	PHILADELPHIA	PA	19112-1808
	1374574	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	JDM MATERIALS CO BARTRAM BATCH PLT	PENROSE FERRY RD	PHILADELPHIA	PA	19153
	1411890	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	PHILA INTL AIRPORT	2 INTERNATIONAL PLZ	PHILADELPHIA	PA	19113-1504
	1424715	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	AMTRAK 30TH STREET STATION	2955 MARKET ST	PHILADELPHIA	PA	19104-2828
	1481695	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	PHILLY G STREET TERMINAL	4210 G ST	PHILADELPHIA	PA	19124
	1496476	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	METRO READY MIX & SUPPLY CASTOR AVE PLT	4455-65 CASTOR AVENUE	PHILADELPHIA	PA	19124
	1513643	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	ENERGY TRANSFER MARKETING & TERMINALS LP FORT MIFFLIN TERMINAL	4 HOG ISLAND RD	PHILADELPHIA	PA	19153-3809
	1548479	NPDES Pmt Stormwater Industrial Site Runoff (Individual)	PHILADELPHIA (ESSINGTON) TERMINAL	6850 ESSINGTON AVE	PHILADELPHIA	PA	19153-3413
	910907	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	US POSTAL SVC LINDBERGH BLVD FAC	7500 LINDBERGH BLVD	PHILADELPHIA	PA	19176-9998
	1015651	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	FRONTIDA BIOPHARM LLC ORTHODOX	1100 ORTHODOX ST	PHILADELPHIA	PA	19124-3168
	1107824	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	TASTYKAKE	2801 HUNTING PARK AVE	PHILADELPHIA	PA	19129
	1144434	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SMITH EDWARDS DUNLAP	2867 E ALLEGHENY AVE	PHILADELPHIA	PA	19134-5994
	1335508	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	MEDIMMUNE LLC	NA	NA	NA	NA
	1508902	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SANDMEYER STEEL	10060 SANDMEYER LN	PHILADELPHIA	PA	19116
	1510482	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	VEOLIA ES TECH SOLUTIONS LLC	3100 HEDLEY ST	PHILADELPHIA	PA	19137-1934
	1532824	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	INNOVATION MARKETING COMMUNICATIONS LLC	11601 CAROLINE RD	PHILADELPHIA	PA	19154
	1557153	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	COILPLUS BLEIGH AVE FAC	5135 BLEIGH AVE	PHILA	PA	19136
	1299955	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SOUTHERN GRAPHIC SYSTEMS LLC	2781 ROBERTS AVE	PHILADELPHIA	PA	19129
	1328058	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PENN MAID DUTTON RD PLT	10975 DUTTON RD	PHILADELPHIA	PA	19154-3288
	1487222	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	EFORCE COMPLIANCE	1229 S NAPA ST	PHILADELPHIA	PA	19146-3417
	1538448	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	FIBREFLEX PACKING & MFG UMBRIA ST FAC	5101 UMBRIA ST	PHILADELPHIA	PA	19128-4345
	591838	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PEARL PRESSMAN LIBERTY	7625 SUFFOLK AVE	PHILADELPHIA	PA	19153-3020
	711143	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	VICINITY ENERGY SCHUYLKILL GEN STA	2800 CHRISTIAN ST	PHILADELPHIA	PA	19146
	874849	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SPECTRUM MICROWAVE PHILADELPHIA OPERATIONS	2707 BLACK LAKE PLACE	PHILADELPHIA	PA	19154-1008
	1256809	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	DIETZ & WATSON	5701 TACONY ST	PHILADELPHIA	PA	19135-4311
	1257040	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ARCA RECYCLING INC	2000 BENNETT RD	PHILADELPHIA	PA	19116
	1396546	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	API TECH CORP - PHILA OPS	2707 BLACK LAKE PLACE	PHILADELPHIA	PA	19154-1008
	1413054	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SEPTA DECATUR DISTRIBUTION CENTER	10551 DECATUR RD	PHILADELPHIA	PA	19154-3800
	1417892	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	IOVANCE BIOTHERAPEUTICS	300 ROUSE BLVD	PHILADELPHIA	PA	19112-1905
	1442879	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	HILLOCK ANODIZING MFG FAC	5101 COMLY ST	PHILADELPHIA	PA	19135
	1444285	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PURE FISHING	3028 W HUNTING PARK AVE	PHILADELPHIA	PA	19132
	1450553	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	RR DONNELLEY PHILADELPHIA DBA BAUM PRINTING	9985 GANTRY RD	PHILADELPHIA	PA	19115
	1450840	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	JOWITT & RODGERS STATE RD FAC	9400 STATE RD	PHILADELPHIA	PA	19114
	1456071	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	SENNECA HOLDINGS	8825 TORRESDALE AVE	PHILADELPHIA	PA	19136-1542
	1473890	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	DUNGAN ROAD	7722 DUNGAN RD	PHILADELPHIA	PA	19111-2733
	1498009	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	USPS VEHICLE MAINTENANCE FAC	1902 BYBERRY RD	PHILADELPHIA	PA	19116-9997
	1502703	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	USPS PHILA VEHICLE MAINTENANCE FACILITY	3201 SOUTH 74TH ST	PHILADELPHIA	PA	19153-9996
	1509459	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PCI PHARMACEUTICAL SERVICES	3001 RED LION RD	PHILADELPHIA	PA	19114-1123
	1523418	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ADVANCED THERAPIES 4751 LEAGUE ISLAND BLVD	4751 LEAGUE ISLAND BLVD	PHILADELPHIA	PA	19112-1220
	1523423	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ADV THERAPIES 4701 LEAGUE ISLAND BLVD	4701 LEAGUE ISLAND BLVD	PHILADELPHIA	PA	19112-1220
	1523429	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ADV THERAPIES 400 ROUSE BLVD	400 ROUSE BLVD	PHILADELPHIA	PA	19112-1904
	1523447	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ADVANCED THERAPIES 4000 S 26TH ST	4000 S 26TH ST	PHILADELPHIA	PA	19112-1613
	1524419	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PHILA DIV CORP HQ	2800 RED LION RD	PHILADELPHIA	PA	19154-2312
	1530062	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	ASTRAZENECA PLP	3001 RED LION RD	PHILADELPHIA	PA	19114-1123
	1546486	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	EPC INC PHILA	2180 BENNETT RD	PHILADELPHIA	PA	19116-3022
	1551983	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	HONOR FOODS INC	5501 TACONY ST	PHILADELPHIA	PA	19122

	Authority ID	Authority	Site Name	Adress	City	State	Zip Code
	1552639	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	THE BATTERY	1325 N BEACH ST	PHILADELPHIA	PA	19125-4310
	1562150	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	PREMIER MED MFG PHILADELPHIA FACILITY	10090 SANDMEYER LANE	PHILADELPHIA	PA	19116
	1566387	No Exposure Certification, Discharge of Stormwater Assoc w Ind Activities, PAG-03	FEDEX EXPRESS MUVA	3600 GRAYS FERRY AVE	PHILADELPHIA	PA	19146-3207

Appendix K – Defective Connections Group FY26 Report

Sewer Maintenance Unit

Defective Connections Group

Fiscal Year 2026 Annual Report

I. BACKGROUND INFORMATION

A. Phase I Stormwater Regulations

In 1990, the Environmental Protection Agency (EPA) promulgated Stormwater Regulations that required National Pollutant Discharge Elimination System (NPDES) permits for stormwater discharges from large (populations in excess of 250,000) and medium-sized (populations between 100,000 and 250,000) municipalities with separate storm sewer systems, (MS4)[1]. The City of Philadelphia with a 1990 population of 1.4 million was one of two NPDES Stormwater Phase I permittees in Pennsylvania. The other permittee was the City of Allentown.

B. NPDES Permit for Stormwater

The City of Philadelphia received its first NPDES Stormwater Permit under the 1990 Federal Regulations as issued by the Pennsylvania Department of Environmental Protection (PA DEP) in September 29, 1995. This permit had a 5-year term. Among other requirements, the permit required the city to reduce stormwater based pollution of local streams, creeks and rivers, from (1) residential and commercial areas, (2) construction sites, (3) industrial sites and (4) defective lateral connections.

The renewal of the NPDES Stormwater Permit that expired in September 2000 was approved by the PA DEP on September 30, 2005. The new permit provides for the same scope and requirements for the Defective Laterals Detection and Abatement Program as the previous permit and incorporates some provisions from the Consent Order and Agreement (COA) of July 1998 although the COA was successfully completed on March 18, 2004.

With the Water Department's internal reorganization and creation of the Office of Watersheds (OOW) in January 1999, the responsibilities numbered (1) through (3) above, along with the periodic reporting thereon was transferred to the OOW. The Defective Connections group (DCG) continues to pursue the 4th objective of NPDES Permit, namely the detection of defective laterals that cause sanitary wastewater to be carried to the local streams and rivers.

DCG field investigations began in March 1994.

II. DEFECTIVE LATERALS DETECTION AND ABATEMENT PROGRAM

A. Scope of Investigations

The MS4 impacts the areas of the city where there are two separate sewers in the street. The sanitary sewer system, which consists of a network of pipes of smaller diameter, carries domestic wastewater to the City's three Water Pollution Control Plants located in the Northeast, Southeast and Southwest sections. The storm sewer system consists of pipes of larger diameter but significantly shorter lengths and transports the stormwater to the nearest natural waterways. In general, the relatively newer sections of the city in the northeast, northwest and southwest are served by a MS4.

[1] Municipal Separate Storm Sewer System

Due to problems generally attributed to improper installation or lack of oversight during construction, sanitary wastewater from some properties can be transported into the storm sewers and from there, to the streams and rivers. This intrusion of sanitary wastewater causes pollution of the streams and rivers, which are the source of city's water supply. The polluted streams and rivers also endanger the physical health and safety of residents and users of the streams. The NPDES Permit requires the city to identify and abate the plumbing connections (defective laterals) that cause the sanitary wastewater to drain into the streams.

The **investigations** of stream pollution are triggered by the presence of a dry weather discharge from the storm sewer outfalls into the streams. There are over 400 stormwater outfalls in city's MS4 system of which some 220 have exhibited some dry weather flow.

It should be mentioned however, that not all dry weather discharge from an outfall comes from sanitary wastewater incursion; some may come from underground natural streams or from groundwater inflow. Additional testing of chemical and biochemical composition of samples collected from the outfalls determines whether or not stream pollution may be caused by defective laterals.

B. Outfall Inspections and Sampling

A systematic sampling of the quality of dry weather flow from the 200 plus wet outfalls was performed in 1991 as part of the initial NPDES permit application process. This program attempted to document the amount of flow (gph) and in many cases, fecal coliform count (number of fecal colonies per ml of water). The outfall sampling results were updated in 1998 when additional observations of fluoride levels (mg/l) were included to provide some indication of the origin of water seen in the outfalls. This is based on the fact that the natural water coming from streams or ground water seepage does not contain any significant fluorides, but the City water contains 0.7 mg/l of fluorides.

The more likely outcomes of fluoride and fecal count analyses are interpreted as follows:

i. **High fluoride level with high fecal count:** possible intrusion of sanitary wastewater into the storm sewer
ii. **Low fluoride level with high fecal count:** possible transport of surface contamination in the non-domestic discharge
iii. **High fluoride with low fecal count**: possible drinking water source

As a part of the MS4 permit, all stormwater outfalls are to be inspected once every five years. If there is dry-weather flow present then the outfall is to be sampled and tested for fecal presence and fluoride levels. In addition, the priority outfalls of the watersheds are to be sampled on a quarterly basis. Outfall inspections and sampling are handled by the Industrial Waste unit. Laboratory analysis is completed by the Bureau of Laboratory Services.

During FY2026, 43 outfall inspections were conducted, and 36 samples were taken due to observed dry-weather flow as part of the Priority Outfall Sampling program. During FY2026, 241 outfall inspections were conducted, and 81 samples were taken due to observed dry-weather flow as part of the Permit Inspection program.

C. Field Screening

The object of **field screening** is to identify the areas in a sewershed that are suspected of contributing to stream pollution through defective laterals. The field screening begins systematically at an outfall that shows a dry weather flow[2].

Proceeding upstream from the outfall, the storm sewer manholes are successively opened and observed for the presence of flow. The term "**flow**" has been widened to include "**wet**" stormwater manholes on the assumption that the wetness was caused by earlier active flow. These observations are continued upstream along a specified sewer line and stop when a stormwater manhole no longer exhibits any flow or wetness. The field screening is then continued along another tributary sewer and eventually through the entire sewershed of the outfall.

D. Identification of Defective Laterals

1) Dye Tests

Dye testing is a process by which a cross-connected lateral at a property that carries sanitary wastewater to a storm sewer is identified.

(a) Initial Dye Test

Before a test is conducted, the fresh air inlets (FAIs) located at the curbside of the property are identified as being the sanitary or storm FAIs. In Philadelphia, the sanitary lateral is located downstream of the stormwater lateral in relation to the flow of the main sewer[3]. The dye test protocol adopted by the City requires the presence of two properly functioning FAIs for successful initial tests. If one or no FAI is seen at a property or one or both of the FAIs are clogged or damaged, the initial dye test is aborted with a notation "**Inconclusive**".

During the initial dye test, a water-soluble fluorescent dye is placed in the fresh air inlets (FAIs). The dye is then washed down with water.

In the case of a ***"Camera Assisted Dye Test"*** the emergence of the dye is observed in the **storm sewer** by a closed circuit television camera positioned in the storm sewer in front of the stormwater lateral connection of the property. Possible observations include:

(i) Green dye placed in storm FAI is seen in the storm sewer
(ii) Green dye paced in storm FAI is not seen in the storm sewer
(iii) Red dye placed in the sanitary FAI is seen in the storm sewer
(iv) Red dye placed in the sanitary FAI is not seen in the storm sewer.

The above observations are interpreted as follows:

1) Combination of (i) and (iv): **Proper Connection**
2) Combination of (i) and (iii): **Probable Cross Connection**
3) Combination of (ii) and (iv): **Inconclusive**
4) Combination of (ii) and (iii): **Probable Cross Connection**

[2] A dry weather flow is defined as one that is detected after an elapse of 72 hours of a continuous dry spell from the previous rainfall event.
[3] As discussed in Section D. House Lateral Design, pages 5-3 and 5-4, in the PWD Water and Sewer Design Manual (2nd Edition) 2011.

In certain cases, the use of the closed circuit television camera is not possible. In such cases, the initial tests are conducted with a **"Manual Dye Test"**. Possible observations include:

In a **"Manual Dye Test"**, a green dye is placed in the storm FAI and observed in the **storm sewer**. At the same time, a red dye is placed in the sanitary FAI and observed in the **sanitary sewer**. If the red dye appears in the sanitary sewer, whether or not the green dye appears in the storm sewer, the conclusion arrived at is "**Proper Connection**".

If the red dye is not seen in the sanitary sewer, the test is repeated by placing more red dye in the sanitary FAI and observed in the **storm sewer**. If the red dye appears in the storm sewer, this result signifies the presence of a "**Probable Cross Connection**".

If dye is not seen in the sanitary and storm sewers the observation is "**Inconclusive**".

The initial dye tests, whether conducted manually or by a camera are intended to be least intrusive to the water customers. During these initial tests, no entry into the home is involved. In order to provide water for dye tests at the FAIs, field crews use portable water equipment. The Defective Connections group has two vehicles each retrofitted with water supply tanks.

(b) Confirmation Dye Test

A confirmation dye test is conducted in case of an Inconclusive test or a Probable cross connection. This test is conducted after a second notification to the customer has been sent. This test is **intrusive**; admission inside the home is required to conduct the testing.

The confirmation dye test is conducted **manually** by placing and flushing the fluorescent dye in household plumbing fixtures, such as a toilet[4]. The emergence of the dye is then observed in the **sanitary sewer**.

If the dye does appear only in the sanitary sewer, it is concluded that the property tested has a "**Proper Connection**." If the dye from the household plumbing does not appear in the sanitary sewer, then observation is made in the storm sewer. The presence of the dye in the storm sewer confirms the existence of a "**Cross Connection.**"

(c) Notification of Defective Lateral

When a confirmation dye test indicates that there exists a cross connection at the subject property, the property owner is advised that if the property qualifies as a residential property (with no more than 4 units in one of which the owner has his/her residence), the city will make repairs to the defective lateral(s) at no cost to the property owner. If later on it is discovered that the property does not fall within this category, the customer is informed by a follow up notice of his responsibility to repair the defect at their cost.

The Plumbing Repair Programs unit handles customer communications and is responsible for the abatement of these defects.

2) Customer Notifications

[4] This step was modified in CY2001 to conduct the tests from all plumbing fixtures, including any in the basement in order to identify the existence of an internal cross connection, where all fixtures but one are properly connected to the sanitary sewer, with one offending connection to the storm sewer.

(a) Initial Notification

The identification of the defective laterals begins after delineating the parts of a sewershed suspected of contributing dry weather flow to the MS4 system, after field screening. All property holders in the specified area receive an initial notification letter, generated through the Oracle-based DLS computer program. The notification provides an introduction of the program and requests the customer's cooperation in enabling **dye tests** at their property. A dye test is conducted after an initial notification is sent out to a customer. There are three possible outcomes of a dye test:

(i) A test is conducted and no cross connection is found. In this case, a result of "No Cross Connection" is entered in the database and the case is closed.

(ii) A test is conducted and it is concluded that there might exist a cross connection that results in the transport of sanitary wastewater into the storm sewer. This condition requires additional tests to confirm the existence of a cross connection.

(iii) A test cannot be conducted due to any of a variety of reasons, such as FAIs were not conclusively identified, were clogged, etc. This situation also warrants additional tests to conclude whether or not a cross connection exists.

(b) Confirmation Notification

In either of case (ii) or (iii) above, a follow up notification is sent out to the customer, informing them of the results of the previous attempt and requesting them to be available at a specified date for additional "Confirmation" tests at their property. Of course, if the date provided by the City is not suitable to the customer, they can schedule an alternative appointment that suits them.

Dye tests are then conducted at the property from within the customer's premises as described earlier. The results of the tests, (a) a Proper Connection or (b) a Cross Connection, are entered in the DLS computer program.

(c) Water Shutoff Notification

Not all dye tests are completed as a result of confirmation notifications. Some customers ignore the scheduled date and fail to make an alternative appointment. In such cases an informatory note is left at the property and a follow up attempt for tests is made. If this also results in no test, another notification is sent out informing the customer that if they do not make a firm appointment by a specified date (usually within two calendar weeks of the notification date), their water service would be scheduled to be turned off by the Customer Service unit. Of course if the customers do respond and make an appointment for dye tests, the service shutoff is withdrawn and tests are completed as soon as possible.

(d) Miscellaneous Closures

In some cases, where there was no response to dye test requests or water service shutoff notifications due to properties being vacant or abandoned, the cases were closed with a notation "**Miscellaneous Closure**". A miscellaneous closure is activated because of any of the following reasons:

- No active water service to the premises
- Property abandoned, empty or unoccupied
- No billing to the property per Revenue Department
- No sewer connection

From time to time, the miscellaneously closed accounts are revisited. If we find that the reason that caused the account to be originally closed is no longer valid, a dye test is conducted and the property is then re-classified according to the test results.

III. PRIORITY SCORE LIST OUTFALLS

The emphasis of the Defective Laterals Detection and Abatement program is on outfalls on the Priority Score List. The Priority Score List ranks all outfalls sampled with dry-weather flow based on a preset formula that includes the fecal coliform results, the estimated volume of flow, whether the outfall discharges to a drinking water source water, and a complaint factor. The Priority Score List is periodically updated based on the results of the (Permit) Outfall Inspection and Sampling Program described earlier. This list was updated in July 2013.

IV. SUMMARY OF DYE TESTS AND ABATEMENTS

Table 1 provides a summary of the work performed in detecting and abating defective laterals. It shows the cumulative numbers since the inception of the project in 1994, and the progress that was attained during FY2026.

Table 1.
Updated Progress on Dye Tests in Philadelphia MS4 Area

	Since Inception of the Program	During Fiscal 2026
Dye Tests Initiated	66,570	320
No Cross Connections Found	63,623	277
Cross Connections Identified	1,972	29
Completed Tests	65,595	306
Abatements Completed	1,940	71

Of the 71 abatements done in FY2026, 53 were residential properties, and the cost for these abatements was $541,910.26. Additionally, 18 commercial properties were abated at a cost of $134,661.5.

V. MISCELLANEOUS

Estimates of Pollution Removed

The following data provides a rough measure of the effectiveness of the Defective Connections group's positive contribution to improving the local environment:

- Number of Cross Connections Abated
  - Since Inception of the Program 1,940
  - During FY2026 71

- Estimated gallons of Polluted Water Prevented from entering the stormwater outfalls[5]
  - Since Inception of the Program 272.62 million gallons per year
  - During FY2026 9.98 million gallons per year

VI. STAFF LEVELS

Because of the high priority assigned to the Defective Connections group, the availability of manpower is extremely important. The sanctioned personnel for the unit are as follows:

One **Water Conveyance Supervisor**

Two **Field Representative Supervisors**

Four **SM Crew Chief Is / Science Technicians**

Eight **Utility Representatives**
Two positions vacant

One **Data Services Support Clerk**

The above field and office staffs are organized under the Water Conveyance Supervisor. This position is responsible for all aspects of the unit. The two Field Representative Supervisors are each responsible for two field crews, four crews in all. Each crew is led by a SM Crew Chief I / Science Technician and has two Utility Representatives.

In addition to the field staff, the Defective Connections group has the following position which provides general support:

Data Services Support Clerk: The DSSC handles the intricacies of the DLS database, creation of various correspondences related to dye tests, and follows-up with the field staff.

The DSSC also handles a variety of communications with the customers, makes appointments, and follows-up with delinquent customers. They also maintain the record of water shutoff warnings and miscellaneous closures.

At the end of FY2026, 8 of the 15 approved positions in the Defective Connections group were filled.

[5] Based on an average use of 110 gallons per capita per day, over a family size of 3.5 persons.

Appendix L – Sanitary Infiltration Events

Spill Date	Spill Time	Location	Outfall	Spill Notes	Abatement Date	Abatement Time	Abatement Notes
07/19/2025	11:30 AM	3127 Mechanicsville Rd.	Q-119-01	Choked sewer discharged to storm drain, overland to stream. Approximately 120 gallons discharged.	07/19/2025	12:15 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
07/23/2025	09:00 AM	Ford Road Pump Station	N/A	Debris accumulated in pump 2 impeller, causing it to vibrate and come unbolted from the wet well. It was pumping into the control room instead of the force main, which caused the pump station to lose power. The station wet well and control room filled with sewage and overflowed to the stream. Approximately 1.3 million gallons discharged.	07/28/2025	01:57 PM	Flusher trucks were brought on-site to mitigate the discharge volume. Pumps were removed, repaired, and re-installed so the station could resume normal function. Pump #1 was put back into service on 07/28 at 1:56 PM. Pump #2 was put back into service on 07/30 at 4:34 PM. The surrounding area was remediated.
08/07/2025	12:30 PM	2708 Welsh Rd.	P-100-08	Manhole P100-08-S0345 was choked and not flowing. Observed flow in storm. Observed flow from outfall to stream. Approximately 750 gallons discharged.	08/07/2025	03:10 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
08/26/2025	11:00 AM	8980 Pine Rd.	P-104-02	Choked sewer caused by grease build-up. Approximately 40 gallons discharged.	08/26/2025	12:20 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
10/01/2025	11:00 AM	9600 Convent Ave.	Q-101-20	Choked sewer caused by grease build-up. Approximately 25 gallons discharged.	10/01/2025	11:45 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
10/07/2025	11:30 AM	2800 Cheltenham Ave.	T-097-01	Choked sewer at 2800 Cheltenham which discharged into the storm sewer.	10/07/2025	02:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
10/29/2025	11:00 AM	5208 Ridge Ave.	S-052-05	Choke causing a discharge into residence.	10/29/2025	03:30 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
10/29/2025	04:00 PM	4300 Main St.	S-051-05	Choked sanitary discharge into basements at 105, 106, 107, 111, and 112 Grape St. & 4334 and 4337 Main St.	10/29/2025	09:30 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
11/17/2025	11:00 AM	411 Shurs Ln.	S-051-08	Choked sewer caused by grease build-up causing sanitary discharge into residence at 409 and 410 Shurs Ln.	11/17/2025	01:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
12/22/2025	09:30 AM	2800 Cheltenham	T-097-02	Choked sewer without discharge at on the street side.	12/22/2025	11:30 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated. Segment was referred for CCTV inspection to determine cause of problem.
01/06/2026	02:00 PM	3898 Ford Rd.	S-046-09	Inspection of S-046-09 found sewage discharging from outfall. Referred for possible cross connection.	01/07/2026	02:10 PM	Further investigation required.

Spill Date	Spill Time	Location	Outfall	Spill Notes	Abatement Date	Abatement Time	Abatement Notes
01/21/2026	02:10 PM	10828 Rennard St.	P-116-02	Choked sewer caused by grease build-up. Approximately 30 gallons discharged.	01/21/2026	04:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
02/22/2026	04:56 PM	Neill Drive Pump Station 3701 Neill Dr.	S-046-05	Electrical breaker tripped causing station to lose power. Approximately 32,000 gallons discharged.	02/22/2026	05:49 PM	Breaker reset and power was restored.
02/26/2026	03:44 PM	Greenway Ave. & Cobbs Creek Pkwy.	C-24	The increased flows were the result of a PWD lining project of the CCHL interceptor and associated flushing/ cleaning. Bypass pumping operations were directing flows to the CCLL, which surcharged the interceptor. Dry weather discharge was observed at C-24, and suspected at C-22, C-23, C-29 and C-30 based on telog level sensor data. Approximately 0.64 million gallons discharged.	03/06/2026	02:00 PM	Bypass pumping was ceased immediately. Review and communication SOPs are being developed, along with more extensive Telog alarms to avoid a similar situation going forward.
03/10/2026	02:00 PM	Calera Rd. and Cromwell Rd.	Q-106-08	Choked sewer caused by grease build-up. Approximately 20 gallons dicharged.	03/11/2026	02:40 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
04/07/2026	01:00 PM	5100 Ridge Ave.	S-052-05	Choked sewer caused sewage backup into property.	04/07/2026	04:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
04/10/2026	10:40 AM	4611 Eden St.	Q-101-19	Creek appeared to be slightly cloudy with flow from outfall during dry weather. Referred for possible cross connection.	N/A	N/A	Further investigation required.
04/14/2026	02:58 PM	10763 Bustleton Ave.	P-113-04	Choked sewer caused by grease build-up. Approximately 30 gallons discharged.	04/14/2026	04:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
04/21/2026	03:24 PM	531 S. 41st St.	N/A	Choked sewer causing discharge onto private property. Approximately 2,000 gallons discharged.	04/22/2026	08:00 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated. CCTV inspected sewer and discovered defects which will be repaired.
05/13/2026	11:00 AM	6200 Lawnton St.	W-067-05	Sanitary discharge observed at outfall, no issues requiring immediate action were observed. Referred for possible cross connection	N/A	N/A	Further investigation required.
05/27/2026	09:30 AM	Academy Rd. & Chalfont Dr.	Q-110-07	Choked sewer caused by grease build-up. Approximately 35 gallons discharged.	05/27/2026	11:45 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
06/03/2026	10:00 AM	12012 Knights Rd.	Q-107-02	Choked sewer caused by grease build-up. Approximately 30 gallons discharged.	06/03/2026	12:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.

Spill Date	Spill Time	Location	Outfall	Spill Notes	Abatement Date	Abatement Time	Abatement Notes
06/09/2026	08:30 AM	Haldeman Ave. & Barlow St.	Q-109-07	Choked sewer caused by grease build-up. Approximately 75 gallons discharged.	06/09/2026	11:00 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
06/10/2026	08:30 AM	12345 Dunks Ferry Rd.	Q-115-01	Choked sewer caused by grease build-up. Approximately 30 gallons discharged.	06/10/2026	10:30 AM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.
06/19/2026	12:00 AM	9200 N. Delaware Ave.	N/A	Found sewage discharging from manhole D092-05-S0075 onto pavement. No sewage was observed in the storm sewer.	06/19/2026	08:00 PM	Choke was relieved; sewer cleaned and vacuumed. Surrounding area remediated.

Appendix M – Pollution Migration / Infiltration

SR ID	Date Rep	Date Com	Who Call	Location	Pollutant	Pollutant Type Desc	Drainage Area	Incident Type	Destination	Observations	Vulnerability Assessment	Vulnerability Assessment Comment
330781	07/19/202	07/21/202	Other	13555 Philmont Ave	Petroleum	Transformer Oil	Ms4 - Q-120-02	Spill | Slug Discharge	Overland To Inlet	Sheens were observed at outfall. Booms and pads in place for clean up by PECO.	No Impact On Department Operation Or Structure	
330967	07/22/202	08/05/202	Other Pwd	Q-115-05	Sewage		Ms4 - Q-115-05	Discharge At Outfall	Direct To Receiving Stream	Sewage discharge at Q-115-05.	Other	
331160	07/24/202	08/05/202	Other Pwd	12501 Academy Rd	Water	Potable	Ms4 - Q-115-08	Illegal Discharge | Dumping	Drain To Sewer	Splash fountain discharges to storm drain on property and ties into MS4 storm sewer.	Potential Illicit Discharge	
331866	08/01/202	08/19/202	Citizen	3300 Comly Rd	Unknown		Ms4 - Q-110-10	Color	Direct To Receiving Stream	Creek was brown/brown-red from McNulty to Grant ave. Creek could not be tracked beyond McNulty. All PWD outfalls appeared normal with no unusual discharges.	No Impact On Department Operation Or Structure	
333279	08/21/202	09/18/202	Other	111 Vassar St	Petroleum	Diesel Fuel	Ms4 - S-051-08	Illegal Discharge | Dumping	Overland To Inlet	Resident is dumping automotive oil to inlet. No active dumping observed.	No Impact On Department Operation Or Structure	
334152	08/27/202	08/28/202	Other	P-091-02	Water	Potable	Ms4 - P-091-02	Illegal Discharge | Dumping	Direct To Receiving Stream	Outfall is discharging approx 20- 30 gpm of chlorinated water.	Potential Illicit Discharge	
335371	09/05/2025 17:21 PM		Other City	1044 Hazelwood Dr	Food Was	Grease	Ms4 - W-086-06	Illegal Discharge | Dumping	Drain To Sewer	There was no oil sheen observed in the inlets but a slight odor from the inlet in front of 1044 hazelwood Dr	No Impact On Department Operation Or Structure	
335915	09/28/202	09/28/202	Citizen	333 Cottman Ave	Suspected	Dye	Ms4 - T-098-01	Color	Overland To Receiving Stream,Direct To Receiving Stream	Green color in creek similar to fluouscein dye by outfall T-98-01	No Impact On Department Operation Or Structure	
344406	01/13/202	01/13/202	Citizen	9614 Frankford Ave	Petroleum	Gasoline	Ms4 - Q-101-09	Illegal Discharge | Dumping	Other	5-gallon container left near walkway. Presumed to be filled with gasoline.	No Impact On Department Operation Or Structure	
345755	01/29/202	01/29/202	Other Pwd	Linden Ave & Milnor St	Unknown		Ms4 - D-092-05	Other -	Spill To Ground Only	Large depression in asphalt inside pump station had water pooled. Flow requested samples to determine if potable or sewage. Samples had no chlorine. Fecals were low. Source determined to be snow melt.	No Impact On Department Operation Or Structure	
352876	03/25/2026 13:45 PM		Other City	4116-28 Ridge Ave	Food Was	Grease	Ms4 - S-046-06 Kelly Drive Twin Brid	Choke	Drain To Sewer,Spill To Ground Only	Parcel inspected by CK and BC. Observed vent stacks surrounded by a heavy layer of grease. Grease trail from sidewalk into street and around to back side of building. Vent caps were opened and observed thick layer of grease in and around the pipes. 55gallon Grease trap drum observed near dumpsters, 1/4 way filled, unsecured. Grease Trap unit inside kitchen was not opened for visual inspection due to storage on top of unit. Employee observed dumping mop water into parking lot drain. CK inspected outfall and found no issues.	Major Impact - Caused Pass Through Or Interference	Streets had to be blocked off in order to clear issue
357036	05/02/202	05/02/202	Business	2100 Kitty Hawk Ave	Petroleum	Oil	Ms4 - S007-16	Spill | Slug Discharge	Other	Crew were already power washing the deck	No Impact On Department Operation Or Structure	
357217	05/14/202	05/18/202	Citizen	3225 S 76Th St	Petroleum	Diesel Fuel	Ms4 - M-005-05	Illegal Discharge | Dumping		No dumping or staining observed. Unfounded.	No Impact On Department Operation Or Structure	

Appendix N – Defective Lateral Quarterly Report FY26

STORM WATER MANAGEMENT PROGRAM
NPDES PERMIT NO. PA0054712

DEFECTIVE LATERAL CONNECTION STATUS REPORT
(Covering Period from July 1, 2025 to September 30, 2025)

Submitted to

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

By

CITY OF PHILADELPHIA
PHILADELPHIA, PA

November 24th, 2025

DLC Program Update
3rd Quarter 2025

I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning July 1, 2025 and ending September 30, 2025.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

II. PAST QUARTER REVIEW

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,890 complete tests in this sewer shed, identifying 139 cross-connections, all of which have been abated.

Eight (8) sites intercepting flow are listed below.

1.	CFD-01	Plymouth St. west of Pittsville St.
2.	CFD-02	Pittsville St. south of Plymouth St.
3.	CFD-03	Elston St. east of Bouvier St.
4.	CFD-04	Ashley St. west of Bouvier St.
5.	CFD-05	Cheltenham Ave. east of 19th St.
6.	CFD-06	Verbena St. south of Cheltenham Ave.
7.	CFD-07	Cheltenham Ave. east of 7th St.
8.	CFD-08	7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	16	4	0
CFD-02	16	3	0
CFD-03	15	2	0
CFD-04	14	0	0
CFD-05	15	0	0
CFD-06	14	0	0
CFD-07	14	3	0
CFD-08	14	1	0

The most recent fecal sample value was 11,060 MPN per 100 ml. at the outfall on September 11th, 2025.

2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 640 complete tests in this sewer shed, identifying 17 cross-connections, all of which have been abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. north of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
MFD-01	4	0	0
MFD-02	4	0	0

The most recent fecal sample value was 3,076 MPN per 100 ml. at the outfall on June 24th, 2025. No sample was taken this quarter.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,862 complete tests in these sewer shed areas, identifying 99 cross-connections, all of which have been abated. Most of the efforts have been in the W-068-05 sewer shed area, which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 13,140 MPN per 100 ml. at the W-068-05 outfall on September 17th, 2025.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

DLC program activities have performed 2,588 complete tests in these sewer shed areas, identifying 68 cross-connections, 66 of which have been abated. Most of the efforts have been in the S-059-04 sewer shed area.

The most recent fecal sample values at each outfall were:

- 20,460 MPN per 100 ml. at the S-058-01 outfall on September 12th, 2025.
- 20,140 MPN per 100 ml. at the S-059-01 outfall on September 12th, 2025.
- 2,430 MPN per 100 ml. at the S-059-02 outfall on September 12th, 2025.
- 488,400 MPN per 100 ml. at the S-059-03 outfall on September 15th, 2025.
- 29,090 MPN per 100 ml. at the S-059-04 outfall on September 15th, 2025.
- 309 MPN per 100 ml. at the S-059-09 outfall on September 15th, 2025.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 6,177 complete tests in this sewer shed, identifying 115 cross-connections, 113 of which have been abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
PFD-01	17	1	0

The most recent fecal sample value was 1,046 MPN per 100 ml. at the outfall on September 10th, 2025.

2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,737 complete tests in this sewer shed, identifying 50 cross-connections, all of which have been abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	19	0	0

No sample was taken this quarter.

3. A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

Outfall #	Complete Tests	Cross-Connections	Abatements
P-090-02	6	0	7
P-091-01	0	0	0
P-091-06	0	0	2
P-091-08	4	0	4
P-091-11	5	0	0
P-099-03	0	0	1
P-099-05	0	0	2
P-104-07	0	0	0
Q-107-02	1	0	1
Q-110-09	0	0	1
Q-115-05	5	1	0
Q-115-09	0	0	0
Q-121-04	0	0	0
R-18	0	0	5
S-052-04	0	0	5
S-052-05	0	0	1
S-059-01	53	3	1
T-080-02	1	1	3
T-080-03	0	0	8
T-089-04	13	0	0
T-098-01	0	0	0
W-086-01	0	0	2
W-086-03	0	0	0
W-086-05	0	0	0

III. NEXT QUARTER GOALS

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

Goals for the Quarter:

- Continue sampling at outfall W-068-05 with dry-weather flow.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

Goals for the Quarter:

- Continue sampling at the outfalls with dry-weather flow.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

2. Franklin and Hasbrook Outfall (T-089-04)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

3. Continue to perform abatements of identified cross-connections within the following outfalls.

- P-090-02
- P-091-06
- P-091-08
- Q-110-09
- Q-115-05
- R18
- S-046-06
- S-052-03
- S-052-04
- S-059-01
- T-080-02
- T-080-03
- W-076-13

Table 1
DLC Program Summary
June 1st, 2025 – September 30th, 2025

Complete Tests:

- 68,121 Complete tests have been performed under the DLC program
- **88 Complete tests were performed this quarter**
- 6 Complete tests were performed in outfall P-090-02
- 0 Complete tests were performed in outfall P-091-01
- 0 Complete tests were performed in outfall P-091-06
- 4 Complete tests were performed in outfall P-091-08
- 5 Complete tests were performed in outfall P-091-11
- 0 Complete tests were performed in outfall P-099-03
- 0 Complete tests were performed in outfall P-099-05
- 0 Complete tests were performed in outfall P-104-07
- 1 Complete test was performed in outfall Q-107-02
- 0 Complete tests were performed in outfall Q-110-09
- 5 Complete tests were performed in outfall Q-115-05
- 0 Complete tests were performed in outfall Q-115-09
- 0 Complete tests were performed in outfall Q-121-04
- 0 Complete tests were performed in outfall R18
- 0 Complete tests were performed in outfall S-052-04
- 0 Complete tests were performed in outfall S-052-05
- 53 Complete tests were performed in outfall S-059-01
- 1 Complete test was performed in outfall T-080-02
- 0 Complete tests were performed in outfall T-080-03
- 13 Complete tests were performed in outfall T-089-04
- 0 Complete tests were performed in outfall T-098-01
- 0 Complete tests were performed in outfall W-086-01
- 0 Complete tests were performed in outfall W-086-03
- 0 Complete tests were performed in outfall W-086-05

Abatements:

- 1,614 Abatements have been performed under the DLC program
- **43 Abatements were performed this past quarter**
- 7 Abatements were performed in outfall P-090-02
- 0 Abatements were performed in outfall P-091-01
- 2 Abatements were performed in outfall P-091-06
- 4 Abatements were performed in outfall P-091-08
- 0 Abatements were performed in outfall P-091-11
- 1 Abatement was performed in outfall P-099-03
- 2 Abatements were performed in outfall P-099-05
- 0 Abatements were performed in outfall P-104-07
- 1 Abatement was performed in outfall Q-107-02
- 1 Abatement was performed in outfall Q-110-09
- 0 Abatements were performed in outfall Q-115-05
- 0 Abatements were performed in outfall Q-115-09
- 0 Abatements were performed in outfall Q-121-04
- 5 Abatements were performed outfall R18
- 5 Abatements were performed in outfall S-052-04
- 1 Abatements were performed in outfall S-052-05
- 1 Abatement was performed in outfall S-059-01
- 3 Abatements were performed in outfall T-080-02
- 8 Abatements were performed in outfall T-080-03
- 0 Abatements were performed in outfall T-089-04
- 0 Abatements were performed in outfall T-098-01
- 2 Abatements were performed in outfall W-086-01
- 0 Abatements were performed in outfall W-086-03
- 0 Abatements were performed in outfall W-086-05

Cross-Connections Found:

- 1,769 Cross-connections have been identified under the DLC program
- **5 Cross-connections were identified this past quarter**
- 3 Cross-connections were identified in outfall S-059-01
- 1 Cross-connection was identified in outfall Q-115-05
- 1 Cross-connection was identified in outfall T-080-02

Outfall/Manhole Screening and Sampling:

- 9 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter
- 8 outfall samples were taken due to observed dry-weather flow during the above inspections

- 84 outfall inspections were made as part of the **Permit Inspection Program** this past quarter
- 25 outfall samples were taken due to observed dry-weather flow during the above inspections

Table 2
Lab Analysis of Water at Outfalls and/or in the Storm Sewers
July 1, 2025 to September 30, 2025

Outfall	Date	Time	Location	Sewer Size (in)	Flow (GPM)	Fecal Count (MPN/100mL)	Fluoride (mg/l)	Comments
A. Priority Outfalls								
S-051-06	08/14/2025	11:45	SW of Main & Rector Sts.	10"	NF	NS	NS	Unable to access outfall- inspected manhole S051-06-0010 which had no flow.
T-088-01	09/11/2025	11:10	W. of Cheltenham Ave. & 7th St.	84"	NR	11060.00	0.17	No flow
S-058-01	09/12/2025	11:55	SW of Umbria St. & Domino Lane.	54"	NR	20460.00	0.24	Not recorded
S-059-01	09/12/2025	12:15	NE of Towpath & Parker Ave.	60"	NR	20140.00	0.25	Not recorded
S-059-02	09/12/2025	12:25	NE of Towpath & Fountain St.	42"	NR	2430.00	0.14	Not recorded
S-059-03	09/15/2025	11:45	NE of Towpath & Wright St.	42"	NR	488400.00	0.21	Not recorded
S-059-04	09/15/2025	11:53	Inter. of Towpath & Leverington Ave. Bridge	51"	NR	29090.00	0.13	Not recorded
S-059-09	09/15/2025	12:10	Intersection of Main St. & Green Lane	36"	NR	309.00	0.13	Not recorded
W-068-05	09/17/2025	11:52	NW Lincoln Drive & Morris St.	90"	NR	13140.00	0.29	Not Recorded
B. Permit Inspection Program								
Q-115-10	07/08/2025	14:40	S. of Medford & Vinton Rds.	36"	NF	NS	NS	No flow. Fish observed in plunge pool
Q-115-14	07/08/2025	14:30	S. of Medford & Vinton Rds.	36"	NF	NS	NS	No flow. Fish observed in plunge pool
P-101-01	07/24/2025	11:30	E. of Woodbridge & Saxton Rds.	24"	1	36.80	<0.05	Clear flow with no sheen or odor. Observed fish and a crayfish in the plunge pool.
P-101-02	07/24/2025	11:10	NW of Annapolis & Brookdale Rds.-9368 Annapolis	42"	NF	NS	NS	Trickle flow. Puddles of water appear clear with no sheen or odor.
Q-115-13	07/24/2025	12:00	NE of Academy & Torrey Rds.	27"	NF	NS	NS	No flow. Fish observed in plunge pool.
P-112-01	07/25/2025	10:30	SE of Welsh & Darlington Rds. Adj to 639 Welsh Rd.	42"	NF	NS	NS	No flow. Puddle observed in outfall. Outfall accessed by walking into culvert.
P-112-02	07/25/2025	10:30	SE of Welsh & Darlington Rds.Adj. o 639 Welsh Rd.	48"	NF	NS	NS	No flow. Outfall accessed by walking into culvert.
P-112-03	07/25/2025	11:40	NE of Laramie & Kismet Rds.	0"	1.67	1842.00	0.08	Walking in the water kicked up some suspended solids, which were captured in the sample.
P-112-04	07/25/2025	10:55	E. of Laramie & Kismet Rds.	66"	10.5	>24196.00	0.23	Outfall accessed by walking into culvert. Slight foaming observed. Fish observed.
P-112-05	07/25/2025	10:55	E. of Laramie & Kismet Rds.	21"	NF	NS	NS	Outfall accessed by walking into culvert. No flow. Fish observed.
S-051-03	08/04/2025	13:10	SW of Main & Cotton Sts.	60"	1	>241960.00	0.62	observed MH S051-03-0010. Cloudy, moderate suspended solids, slight musty odor.
Q-106-13	08/05/2025	11:55	W. of Red lion & Waldemire Dr.	42"	NF	NS	NS	Puddle in outfall but no visible flow.
Q-106-14	08/05/2025	11:50	W. of Red Lion Rd. & Waldemire Dr.	30"	NF	NS	NS	No flow observed.
Q-106-15	08/05/2025	11:40	W. of Red Lion Rd. & Waldemire Dr.	42"	0.5	213.00	0.25	Slight flow observed. Sample was clear with no sheen or odor. Worm observed in plunge pool.
Q-106-16	08/05/2025	12:10	W. of Waldemire Dr. & Greenacres Rd.	30"	NF	NS	NS	No flow observed. Fish near mouth of outfall.
Q-106-17	08/05/2025	12:30	E. of Rayland Rd. & Helmer Dr.	36"	0.0167	24196.00	0.11	Flow very slow. Sampled from plunge pool close to mouth of outfall. Plunge pool was very cloudy with slight sheen and bacteria observed. Sample had an unpleasant metallic smell.
Q-114-03	08/06/2025	11:00	SE of Comly & Nestor Rds.- Across 2827 Comly Rd.	42"	NF	NS	NS	No flow observed.
Q-114-04	08/06/2025	11:35	SW. Of Comly & Caroline Rds.	54"	NF	NS	NS	Inspected manhole Q114-04-0010 and observed no flow.
P-109-01	08/13/2025	11:45	SE of Bartlett St. & Fenwick Rd.	72"	10	563.00	0.69	Heavy vegetation. Sampled from plunge pool (blue-green color) ~25' downstream.
P-109-02	08/13/2025	12:40	S. of Bustleton Ave. & Norwalk Rd.-9892 Bustleton	30"	NF	285.00	0.20	Partially submerged with no visible flow. 6' away from the outfall, there is a puddle with red-orange bacteria.
P-109-03	08/13/2025	12:40	S. of Bustleton Ave. & Norwalk Rd.	24"	NF	NS	NS	No flow observed. Small puddle inside of outfall.
P-104-01	08/25/2025	12:45	SW of Pine Rd. & Longmeadow Lane.	21"	NF	NS	NS	Very overgrown. Observed fish in creek near outfall.
P-104-02	08/25/2025	12:50	SW of Pine Rd. & Longmeadow Lane	42"	0.0167	>241960.00	0.59	Very overgrown. heavy vegetation.
P-104-03	08/25/2025	12:20	S. of Verree & Meeting House Rds.	42"	NF	NS	NS	No flow observed.
P-104-04	08/25/2025	12:15	Intersection of Verree & Meeting House Rds.	24"	NF	NS	NS	No flow. Fish observed in creek near outfall.
P-104-07	08/25/2025	11:50	SE of Tustin & Rising Sun Aves.	66"	15	1789.00	0.18	Fast, clear flow. Stagnant pools with brown foam and surface sheen near mouth of outfall.
Q-118-01	08/25/2025	11:25	NE of Roosevelt Blvd & Horning Rd.	36"	NF	NS	NS	Outfall was partially submerged.
Q-118-02	08/25/2025	10:39	SE of Horning Rd. & Roosevelt Blvd.	42"	NF	NS	NS	No flow observed. Outfall was dry.
Q-118-03	08/25/2025	10:49	W. of McNulty & Southampton Rds. 12285 McNulty Rd.	42"	NF	NS	NS	No flow observed, but outfall was wet.
P-091-03	08/26/2025	15:00	NE of Sandyford & Ryan Aves.	27"	NF	NS	NS	No flow observed, noticed very heavy flow on outfall on opposite side of creek
Q-114-07	08/26/2025	10:38	NW of Woodhaven & Thorton Rds.	66"	NF	NS	NS	Could not sample due to heavy vegetation. Plan to revisit.
Q-114-08	08/26/2025	10:27	Intersection ofWoodhaven & Thornton Rds.	42"	NF	NS	NS	Outfall partially submerged and appears stagnant.
Q-114-10	08/26/2025	10:50	Intersection of River Dr. & Waterview Lane	36"	NF	NS	NS	Outfall is dry. No flow.
Q-114-11	08/26/2025	11:05	SE of Woodhaven Rd. & Riverside Dr.-1911 Riverside	42"	NF	NS	NS	No flow. Dry outfall. School of small fish observed across from outfalls.
Q-114-13	08/26/2025	11:17	SW of Woodhaven & Tyrone Rds.	30"	NF	NS	NS	No flow. Outfall damp but no flow from it. Fish in creek upstream.
Q-114-18	08/26/2025	09:57	NW Thorton & Townsend Rds.	48"	NF	NS	NS	No flow. Outfall dry. Stagnant water at outfall channel. Follow path located left side grass lawn of 12260 Townsend Rd. Keep going straight after path ends. Creek on right side. Walk down along bank and outfall is there.
P-091-02	08/27/2025	09:30	N. of Sandyford & Ryan Aves.	42"	NF	1354.00	0.59	Water main flushing occurring in stormshed.
Q-110-14	08/27/2025	11:28	S. of Academy & Newberry Rds -3501 Newberry St.	54"	NF	NS	NS	Clear water, no odor.
Q-110-11	08/28/2025	10:46	NE of Comly &Tara Rds.	60"	NF	NS	NS	No flow. Fish observed in front of outfall.
Q-110-12	08/28/2025	11:14	W. of Salina & Newberry Rds-3642 Salina Rd.	30"	NF	NS	NS	No flow. Partially submerged. Only flow came from creek. Fish observed downstream.
Q-110-16	08/28/2025	11:59	E. of Chalfont Dr. & Keswick Rd. at Byberry Creek	36"	0.75	74.00	<0.05	Fish observed.
Q-114-12	08/28/2025	10:00	S. of Woodhaven & Medford Rds.	54"	1	NS	NS	Very small trickle flow. Unable to collect sample.
P-108-01	09/02/2025	11:45	W. Bloomfield Ave. & Jennifer Terrace.	36"	NF	NS	NS	Observed shallow stagnant water in manhole P108-01-0010.
P-108-02	09/02/2025	12:00	Jennifer Terrace	21"	NF	NS	NS	No flow, lots of thorny branches and some plastic trash.

Outfall	Date	Time	Location	Sewer Size (in)	Flow (GPM)	Fecal Count (MPN/100mL)	Fluoride (mg/l)	Comments
B. Permit Inspection Program (continued)								
P-108-03	09/02/2025	12:35	SW of Millwood Rd. & Alicia St.-708 Millwood Rd.	48"	NF	NS	NS	No flow. Large bag of trash in channel.
P-108-04	09/02/2025	12:25	SW of Kings Oak Lane West & South-15 Kings Oak La	30"	NF	NS	NS	No flow
P-108-25	09/02/2025	11:45	Bloomfield Ave. & Jennifer Terr.	18"	NF	NS	NS	Inspected manhole P108-25-0010 which was dry.
P-108-05	09/03/2025	11:40	SE of Greycourt Rd.	27"	0.0167	328.20	0.04	Slight trickle flow. Algae on outfall. Fish observed in plunge pool.
P-108-06	09/03/2025	11:00	E. of Alburger Ave. & Darlington Rd.-100 Block Alb	27"	NF	NS	NS	Accessed from Alburger Ave, steep downhill to creek. Slight cracking in concrete.
P-108-07	09/03/2025	11:00	E of Alburger Ave. & Darlington Rd.-100 Block Alb	36"	0.00	2920.00	0.11	Flow very slow at manhole and outfall. Some algae in the outfall opening.
P-108-08	09/03/2025	12:25	N. of Kings Oak Lane North & East-5 Kings Oak La.	42"	NF	NS	NS	No flow. Concrete cracked to form a hole in the base of outfall. Frog observed.
P-108-10	09/04/2025	12:05	W. of Pecan & Stratford Drives	18"	0.167	3.10	0.04	Clear flow.
P-108-11	09/04/2025	11:30	SE of Darlington Rd. & Stratford Dr.	60"	NF	NS	NS	Outfall partially submerged, but no flow. Frog observed.
Q-106-12	09/04/2025	12:33	SE Morrell Ave. & Ashfield Lane	30"	NF	NS	NS	Very shallow flow. Not enough to sample.
Q-106-18	09/04/2025	12:10	W. of Waldemire Dr. & Inwood La-10967 Inwood Rd.	30"	NF	NS	NS	Outfall collapsed.
Q-106-19	09/04/2025	12:01	W. of Waldemire Dr. & Dorchester Rd.	24"	NF	NS	NS	Outfall collapsed. See images.
Q-106-20	09/04/2025	11:38	W. of Waldemire Dr & Oakhill Rd.- 3801 Oakhill Rd.	18"	NF	NS	NS	Trickle flowl. Not enough to sample. Fish observed.
Q-110-17	09/04/2025	10:29	S. of Waldemire & Chalfont Drives	60"	NF	NS	NS	Outfall partially submerged. Landmark: Directly across from 11073 Waldemire Dr.
Q-110-18	09/04/2025	11:14	W. of Waldemire Dr. & Millbrook Rd	36"	NF	NS	NS	Outfall partially submerged. Stagnant water. No flow.
P-090-02	09/10/2025	11:38	S. of Brous Ave. & Roosevelt Blvd.	156"	NF	1046.20	0.05	Clear flow.
P-113-03	09/11/2025	11:41	SE of Northeast Ave. & Gorman Sts.	36"	NF	NS	NS	No flow. Heavy vegetation around outfall. Inspected with Theresa Bui.
P-113-04	09/11/2025	11:11	NE of NE. Ave & Gorman St.- 10195 Northeast Ave.	0"	50	33.20	0.67	Slight foaming at outfall.
P-113-06	09/11/2025	11:00	NE of NE Ave. & Gorman St.- 10195 Northeast Ave.	42"	NF	NS	NS	Outfall dry but damp. Inspected with Theresa Bui.
P-091-01	09/12/2025	10:30	NE of Sandyford Ave. & Brous St.	36"	20	27230.00	0.62	Heavy surface scum observed 75' downstream. Inspected with John Hickey.
Q-106-05	09/12/2025	10:31	SE of Chesterfield Rd. & Berea St.	42"	NF	NS	NS	Outfall is partially submerged.
Q-106-06	09/12/2025	10:27	SE of Chesterfield Rd. & Berea St.-3382 Chestrfie	27"	NF	NS	NS	No flow, fish observed
Q-106-21	09/12/2025	09:58	E. of Morrell Ave. & Calera Rd.	66"	0.95	3.00	0.55	Fast flow. Scum and foam on surface water. chlorine test (1.22 mg/L Cl2)
W-095-01	09/12/2025	11:00	NE Hillcrest & Germantown Aves.	48"	1	547.50	0.00	Accessed by walking through the arboretum. Lots of moss and algae.
W-095-01	09/12/2025	12:00	NE Hillcrest & Germantown Aves.	48"	NR	547.50	0.08	Not recorded
P-091-02	09/15/2025	11:50	N. of Sandyford & Ryan Aves.	42"	0.8	1430.00	0.18	Slight flow with a yellowish tint. Accessed by climbing down to creek and crawling through discarded concrete pipes at mouth of outfall.
P-091-04	09/15/2025	11:15	SE of Rhawn St. & Lexington Ave.	36"	NF	NS	NS	Waders required to access outfall
P-091-05	09/15/2025	10:50	NW of Winchester Ave. & Albion St.	42"	NF	NS	NS	Accessed by walking into woods across from 2849 Winchester Ave. Area is very overgrown and steep. Concrete pipes discarded near outfall.
Q-106-03	09/22/2025	08:00	SE of Berea & Glenn Sts.-Behind 9615 Berea St.	54"	NF	NS	NS	Outfall had shallow, little stagnant water a mouth but no flow.
Q-106-04	09/22/2025	08:04	SE of Berea & Glenn Sts.-3656 Chesterfield Rd.	42"	NF	NS	NS	Outfall collapsed. Dry outfall. No Flow.
W-084-02	09/22/2025	11:45	NE of Bells Mill Rd. & Lykens Lane	48"	30	NS	NS	Strong clear flow. No odors, sheen, or solids. Inspected with Evan Scott
W-085-02	09/22/2025	11:00	S. Rex Ave. & Seminole St.	36"	20	24196.00	0.32	Fast clear flow. Plunge pool has moderate surface scum and slight foaming.
Q-101-13	09/23/2025	09:33	N. of Brook Lane & Stevenson St.	18"	NF	NS	NS	Small trickle not enough to sample.
Q-101-14	09/23/2025	09:17	N. of Brook Lane & Constance Rd.	18"	NF	NS	NS	No flow, but damp.
Q-101-15	09/23/2025	09:10	N. of Brook Lane & Carteret Dr.	18"	NF	NS	NS	Outfall partially submerged. No flow.
Q-101-16	09/23/2025	09:02	N. of Brook Lane & Rowena Dr.	18"	NF	NS	NS	No flow but wet.
Q-101-19	09/23/2025	10:08	E. of Morrell & Crestmont Ave.	36"	0.70	17329.00	0.06	Tiny piece of paper in sample. Exposed metal pipe above outfall on steep slope. Manhole Q101-19-0015 dry & Q101-19-0017 has flow.
Q-101-20	09/23/2025	08:20	SE of Outlook Ave. & Lansford St.	54"	0.63	>24196.00	0.48	Small groups of bubbles where outfall flow pours into water.
Q-110-13	09/23/2025	07:48	S. of Academy & Newberry Rds- 3501 Newberry Rd.	36"	NF	NS	NS	Outfall partially submerged. Stagnant water. No flow.
W-085-01	09/30/2025	12:20	E. of Bells Mill Rd. & Forbidden Dr.	48"	NF	NS	NS	Outfall is partially submerged with no flow. Fish and algae observed at mouth of outfall.

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties				
Address	**Outfall Code**	**Complete Date**	**Admin Action**	**Comment**
7949 Ridge Ave	W-076-13	03/12/2025		
3331 Sheffield Ave	P-091-08	05/03/2025		
2014 Bleigh Ave	P-090-02	12/07/2024		
8127 Algon Ave	P-090-02	11/19/2024		
2012 Bleigh Ave	P-090-02	10/21/2024		
2028 Bleigh Ave	P-090-02	10/07/2024		
2031 Bleigh Ave	P-090-02	10/17/2024		
2034 Bleigh Ave	P-090-02	10/29/2024		
2038 Bleigh Ave	P-090-02	10/21/2024		
1844 Strahle St	P-099-03	09/10/2024		
1920 Afton St	P-090-02	04/13/2024		
2119 Oakmont St	P-090-02	05/28/2024		
2222 Strahle St	P-099-05	03/30/2024		
2227 Strahle St	P-099-05	04/06/2024		
2115 Afton St	P-090-02	01/11/2024		
7454 Devon St	W-086-03	11/17/2023		
7714 Matthias St	W-076-13	10/04/2023		
15044 Poquessing Crk La	Q-121-04	11/11/2023		
15059 Poquessing Crk La	Q-121-04	11/27/2023		
146 Roumfort Rd	W-086-03	10/07/2023		
131 E Mermaid La	W-086-01	06/30/2023		
5805 Newtown Ave	T-080-03	07/08/2023		
5822 Newtown Ave	T-080-03	06/24/2023		
5830 Newtown Ave	T-080-03	08/05/2023		
5839 Newtown Ave	T-080-03	07/05/2023		
5850 Newtown Ave	T-080-03	08/04/2023		
7312 Palmetto St	T-089-04	06/03/2023		
7312 Lawndale Ave	T-089-04	03/27/2023		
510 Murdoch Rd	W-086-05	05/27/2023		
715 Arnold St	P-104-07	10/25/2022		
7915 Burholme Ave	T-098-01	10/15/2022		
1816 Benson St	P-099-03	05/14/2022		

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
1742 Bergen St	P-099-03	05/07/2022		
1829 Kendrick St	P-099-03	09/25/2021		
207 Passmore St	T-089-01	09/11/2021		
3602 Haywood St	S-052-04	03/27/2021		
3643 Haywood St	S-052-04	03/29/2021		
4150 Markland St	R18	06/02/2021		
4118 Castor Ave	R18	12/05/2020		
3460 Division St	S-052-04	01/23/2021		
2128 Emerson St	P-091-06	10/24/2020		
2214 Hoffnagle St	P-091-06	10/26/2020		
1441 E Hunting Park Ave	R18	02/29/2020		
4123 Markland St	R18	02/06/2020		
2623 W Allegheny Ave	S-046-06	10/05/2019		
4014 Castor Ave	R18	10/08/2019		
4030 Castor Ave	R18	10/12/2019		
4143 M St	R18	09/21/2019		
4215 M St	R18	09/24/2019		
4259 Neilson St	R18	12/02/2019		
1404 E Lycoming St	R18	08/31/2019		
1413 E Lycoming St	R18	08/20/2019		
1447 E Lycoming St	R18	08/26/2019		
4142 Markland St	R18	08/03/2019		
4144 Markland St	R18	07/30/2019		
4146 Markland St	R18	07/27/2019		
4245 Ormond St	R18	06/08/2019		
4215 Castor Ave	R18	04/27/2019		
4219 Castor Ave	R18	05/02/2019		
4249 Neilson St	R18	05/04/2019		
4250 Neilson St	R18	04/25/2019		
4232 O St	R18	03/28/2019		
4456 Riverview La	S-052-03	09/26/2018		
3461 Sunnyside Ave	S-052-04	04/02/2018		
3425 Conrad St	S-052-04	03/01/2018		

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
3411 W Penn St	S-052-04	02/13/2018		
3424 W Penn St	S-052-04	02/17/2018		

Table 4
Spills to Storm Sewers and/or Receiving Waters
July 1, 2025 to September 30, 2025

Date	Outfall	Address	Source Code	Material Involved	Date Completed	Remarks
07/19/25	Q-120-02	13555 Philmont Ave	3009	Petroleum (Oil | Fuel)	07/21/25	Sheens were observed at outfall. Booms and pads in place for clean up by PECO.
07/22/25	Q-115-05	Q-115-05	3011	Sewage	08/05/25	Sewage discharge at Q-115-05.
07/24/25	Q-115-08	12501 Academy Rd	3009	Water	08/05/25	Splash fountain discharges to storm drain on property and ties into MS4 storm sewer.
08/01/25	Q-110-10	3300 Comly Rd	3011	Unknown	08/19/25	Creek was brown/brown-red from McNulty to Grant ave. Creek could not be tracked beyond McNulty. All PWD outfalls appeared normal with no unusual discharges.
08/21/25	S-051-08	111 Vassar St	3009	Petroleum (Oil | Fuel)	09/18/25	Resident is dumping automotive oil to inlet. No active dumping observed.
08/27/25	P-091-02	P-091-02	3011	Water	08/28/25	Outfall is discharging approx 20- 30 gpm of chlorinated water.
09/05/25	W-086-06	1044 Hazelwood Dr	3009	Food Waste	-	There was no oil sheen observed in the inlets but a slight odor from the inlet in front of 1044 hazelwood Dr
09/28/25	T-098-01	333 Cottman Ave	3011	Suspected Dye	09/28/25	Green color in creek similar to fluouscein dye by outfall T-98-01

Source Codes:

3008 - Spill to Ground Only
3009 - Spill to Storm Sewer
3010 - Spill to Sanitary Sewer
3011 - Spill to Receiving Stream

STORM WATER MANAGEMENT PROGRAM
NPDES PERMIT NO. PA0054712

DEFECTIVE LATERAL CONNECTION STATUS REPORT
(Covering Period from October 1, 2025 to December 31, 2025)

Submitted to

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

By

CITY OF PHILADELPHIA
PHILADELPHIA, PA

February 6, 2026

DLC Program Update
4th Quarter 2025

I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning October 1, 2025 and ending December 31, 2025.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

II. PAST QUARTER REVIEW

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,831 complete tests in this sewer shed, identifying 134 cross-connections, all of which have been abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	14	2	0
CFD-02	16	4	0
CFD-03	14	0	0
CFD-04	16	0	0
CFD-05	16	0	0
CFD-06	15	0	0
CFD-07	16	7	0
CFD-08	15	1	0

The most recent fecal sample value was 14,140 MPN per 100 ml. at the outfall on December 8th, 2025.

2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 637 complete tests in this sewer shed, identifying 17 cross-connections, all of which have been abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. north of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
MFD-01	5	0	0
MFD-02	5	0	0

The most recent fecal sample value was 3,076 MPN per 100 ml. at the outfall on June 24th, 2025. No sample was taken this quarter.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,750 complete tests in these sewer shed areas, identifying 95 cross-connections, all of which have been abated. Most of the efforts have been in the W-068-05 sewer shed area, which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 46,110 MPN per 100 ml. at the W-068-05 outfall on December 18th, 2025.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

DLC program activities have performed 2,520 complete tests in these sewer shed areas, identifying 68 cross-connections, 66 of which have been abated. Most of the efforts have been in the S-059-04 sewer shed area.

The most recent fecal sample values at each outfall were:

- 110 MPN per 100 ml. at the S-058-01 outfall on December 5th, 2025.
- 12,230 MPN per 100 ml. at the S-059-01 outfall on November 4th, 2025.
- 120,330 MPN per 100 ml. at the S-059-02 outfall on November 4th, 2025.
- 325,500 MPN per 100 ml. at the S-059-03 outfall on December 4th, 2025.
- 9,208 MPN per 100 ml. at the S-059-04 outfall on December 5th, 2025.
- >241,960 MPN per 100 ml. at the S-059-09 outfall on December 4th, 2025.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,946 complete tests in this sewer shed, identifying 115 cross-connections, 112 of which have been abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
PFD-01	24	2	1

The most recent fecal sample value was 1,046.2 MPN per 100 ml. at the outfall on October 27th, 2025.

2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,021 complete tests in this sewer shed, identifying 46 cross-connections, all of which have been abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	20	1	0

No sample was taken this quarter.

3. A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

Outfall #	Completed Test	Cross Connection	Abatement
P-083-03	1	0	0
P-090-02	3	1	0
P-091-01	24	8	1
P-091-11	5	0	0
Q-101-09	8	1	0
Q-107-02	2	0	0
Q-110-09	0	0	1
Q-115-05	0	0	1
R18	0	0	2
S-051-08	1	0	0
S-052-04	0	0	1
T-080-02	14	8	2
T-080-03	0	0	3
T-089-04	5	0	0
W-085-02	4	1	0

III. NEXT QUARTER GOALS

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

Goals for the Quarter:

- Continue sampling at outfall W-068-05 with dry-weather flow.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

Goals for the Quarter:

- Continue sampling at the outfalls with dry-weather flow.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

2. Franklin and Hasbrook Outfall (T-089-04)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

3. Continue to perform abatements of identified cross-connections within the following outfalls.

- P-090-02
- P-091-01
- Q-101-09
- T-080-02
- W-085-02

Table 1
DLC Program Summary
October 1, 2025 – December 31, 2025

Complete Tests:

- 65,507 Complete tests have been performed under the DLC program
- **69 Complete tests were performed this quarter**
- 1 Complete test was performed in outfall P-083-03
- 3 Complete tests were performed in outfall P-090-02
- 24 Complete tests were performed in outfall P-091-01
- 5 Complete tests were performed in outfall P-091-11
- 8 Complete tests were performed in outfall Q-101-09
- 2 Complete tests were performed in outfall Q-107-02
- 1 Complete test was performed in outfall S-051-08
- 2 Complete tests were performed in outfall S-059-01
- 14 Complete tests were performed in outfall T-080-02
- 5 Complete tests were performed in outfall T-089-04
- 4 Complete tests were performed in outfall W-085-02

Outfall/Manhole Screening and Sampling:

- 11 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter
- 8 outfall samples were taken due to observed dry-weather flow during the above inspections

- 59 outfall inspections were made as part of the **Permit Inspection Program** this past quarter
- 18 outfall samples were taken due to observed dry-weather flow during the above inspections

Cross-Connections Found:

- 1,968 Cross-connections have been identified under the DLC program
- **19 Cross-connections were identified this past quarter**
- 1 Cross-connection was identified in outfall P-090-02
- 8 Cross-connections were identified in outfall P-091-01
- 1 Cross-connection was identified in outfall Q-101-09
- 8 Cross-connections were identified in outfall T-080-02
- 1 Cross-connection was identified in outfall W-085-02

Abatements:

- 1,926 Abatements have been performed under the DLC program
- **11 Abatements were performed this past quarter**
- 1 Abatement was performed in outfall P-091-01
- 1 Abatement was performed in outfall Q-110-09
- 1 Abatement was performed in outfall Q-115-05
- 2 Abatements were performed outfall R18
- 1 Abatement was performed in outfall S-052-04
- 2 Abatements were performed in outfall T-080-02
- 3 Abatements were performed in outfall T-080-03

Table 2
Lab Analysis of Water at Outfalls and/or in the Storm Sewers
October 1, 2025 to December 31, 2025

Outfall	Date	Time	Location	Sewer Size (in)	Flow (GPM)	Fecal Count (MPN/100mL)	Fluoride (mg/l)	Comments
A. Priority Outfalls								
S-058-01	12/05/2025	11:15	SW of Umbria St. & Domino Lane.	54"	Submerged	110	0.205	Outfall is partially submerged but has visible flow. Plunge pool is blue-green. Samples were clear.
S-059-01	11/04/2025	11:20	NE of Towpath & Parker Ave.	60"	10	12230	0.354	Large and small fish observed. Orange bacteria on outfall. Pooled water has a slight green tint.
S-059-02	11/04/2025	11:35	NE of Towpath & Fountain St.	42"	15	120330	0.61	Sample is clear but has slight sewage smell.
S-059-03	12/04/2025	11:55	NE of Towpath & Wright St.	42"	10	325500	0.205	Steady flow with moderate sewage smell. Rocks beneath outfall have a white film on them.
S-059-04	12/05/2025	11:40	Inter. of Towpath & Leverington Ave. Bridge	51"	Submerged	9208	0.184	White cloudy plume emerging from outfall. Lots of bacteria/algae on rocks and outfall.
S-059-05	12/05/2025	11:40	Inter. of Towpath & Leverington Ave. Bridge	0"	NF	NS	NS	Outfall is partially submerged with no visible flow. Lots of bacteria/algae on rocks and outfall.
S-059-07	11/24/2025	11:35	W. of Towpath & Green Lane	15"	NF	NS	NS	Outfall mostly submerged, but no visible flow from outfall into canal. Observed many snails near the outfall.
S-059-09	12/04/2025	12:15	Intersection of Main St. & Green Lane	36"	0.0833	>241960.0	0.25	Trickle flow. Moderate suspended solids in samples.
T-088-01	45999	0.45	Cheltenham Ave. & 7th St.	84"	NR	14140	0.196	Bacterial matting on rocks
W-060-01	12/18/2025	11:30	NE. of Monatery Lane & Janette St.	0"	NF	NS	NS	Ice at mouth of outfall, but no flow. Plunge pool is blue-green.
W-068-05	12/18/2025	12:00	NW Lincoln Drive & Morris St.	90"	Submerged	46110	0.354	Outfall partially submerged. Bacterial matting observed in creek.
B. Permit Inspection Program								
C-032-02	10/09/2025	10:30	NE of Pennwood & Brockton Sts.	18"	NF	NS	NS	No flow observed at time of inspection.
P-083-01	11/13/2025	11:10	NE of State Rd. & Rhawn St.	18"	NF	NS	NS	No flow.
P-083-02	11/13/2025	11:20	NE of State Rd. & Rhawn St.	18"	NF	NS	NS	No flow. Outfall is covered in ivy
P-083-03	11/13/2025	10:45	S. State Rd. & Ashburner St.	0"	Submerged	373	0.445	Unable to determine flow rate as outfall is partially submerged. Orange rust/corrosion(?) on outfall structure. Fish observed near mouth of outfall.
P-090-02	45957	0.49	Brous & Lexington Aves. @ Roosevelt Blvd.	156"	NR	1046.2	0.114	Clear flow
P-091-09	12/22/2025	11:00	NW of Welsh Rd. & Rowland Ave.	36"	20	1	0.605	Fast, clear flow. Slight sudsing observed in creek near outfall. Estimated flow visually (approx. time to fill 5 gallons).
P-100-01	11/05/2025	11:20	W. of Woodward St. & Winchester Ave.	42"	0.15	35	<0.052	At first glance, water seems stagnant at the outfall. Flow observed downstream. Chlorine Field Kit= Slight color change, 0.04mg/l Cl2
P-105-01	10/17/2025	10:55	SE of Roosevelt Blvd & Goodnaw St.	102"	NF	NS	NS	Well upkept area in back of gated community. Use Louis Court for directions
P-105-02	10/17/2025	11:20	N. of Winchester & Old Bustleton Aves.	60"	NF	NS	NS	back in the woods off Mather. There is a raised manhole past the storm drain, no flow was observe entering the raised manhole from the storm drains on Winchester
P-105-03	10/17/2025	10:40	NE Of Roosevelt Blvd.& Grant Ave.	0"	NF	NS	NS	lot of trash and debris, stagnant sitting water with no flow
P-108-09	11/03/2025	12:00	NE of Darlington Rd. & Grace Lane	36"	NF	NS	NS	No visible flow, but concrete channel is wet.
P-108-12	12/23/2025	11:50	E. of Bloomfield Ave. & Verree Rd.	36"	NF	NS	NS	No flow.
P-108-13	12/23/2025	0.5	E. of Bloomfield Ave. & Verree Rd.	36"	Submerged	5475	0.477	Outfall partially submerged but has visible flow. Suspended solids and slight sewage odor. Plunge pool is a cloudy blue/green.
P-108-15	12/23/2025	11:30	E. of Verree & Marchman Rds.	36"	0.0001	NS	NS	Trickle flow, essentially a slow drip. Not enough to sample.
P-108-19	12/01/2025	11:55	Walley Ave. & Twist Rd.-9563 Walley Ave.-Dr. Stolz	36"	NF	NS	NS	Accessed by walking along property line between 9563 and 9565 Walley Ave.
P-108-20	12/01/2025	12:05	W. of Northeast Ave. & Fulmer St.- 9620 NE Ave.	60"	NF	NS	NS	Outfall is partially submerged, but no visible flow.
P-108-21	12/01/2025	12:10	W. of Northeast Ave. & Fulmer St.- 9620 NE Ave.	60"	NF	NS	NS	Outfall is partially submerged, but no visible flow.
P-109-05	12/01/2025	11:30	Norwalk Rd. & Walley Ave.-Norwalk Rd. Bridge	42"	NF	NS	NS	No flow. Sample during fall/winter as outfall is surrounded by heavy vegetation.
P-113-01	10/03/2025	11:30	SE of Red Lion Rd. & Northeast Ave.	60"	NF	NS	NS	Slight cracking in the outfall concrete.
P-113-02	11/03/2025	11:30	SE of Red Lion Rd. & Northeast Blvd.	27"	NF	NS	NS	Fish and crayfish observed in culvert.
P-113-08	10/02/2025	11:40	Verree Rd. & Greymont St.- 10019 Verree Rd.	0"	15	4800.00	0.32	White stringy bacteria on outfall structure and downstream. Access to channel is blocked by branches so may require climbing from stream to banks, then back into stream by outfall. Slight sheen observed downstream, possible shreds of toilet paper.
Q-102-01	10/02/2025	07:55	NE of Frankford Ave. & Hegerman St.	36"	NF	NS	NS	Outfall partially submerged. Stagnant water. Small groups of bubbles from upstream.
Q-102-02	12/09/2025	10:23	SE of St. Denis Dr. & Hegerman St.	48"	3	143	0.664	1.23 mg/L Cl2. Smells like tap water. Flows through crack between channel and outfall head.
Q-102-03	12/09/2025	11:00	SE of Tulip & Stevensons Sts -	48"	NF	NS	NS	Dry.
Q-110-02	12/22/2025	10:04	SW of Decataur & Darnell Rds.	42"	NR	NS	NS	Not enough flow to collect samples. Droplets of water. Closest manhole Q110-02-0010 is dry.
Q-110-03	12/22/2025	10:06	SW of Decatuar & Darnell Rds.	42"	NF	NS	NS	Outfall collapsed. No flow. Dry. - Creek has moderate foaming/sudsing. Sample collected for Qual Test.
Q-110-05	46014	0.4	Drummond & Red Lion Rds.	66"	NR	780	0.307	Moderate surface scum
Q-110-06	46014	0.44	Academy & Amity Rds.	54"	NR	10	0.271	Slight musty odor. Slight cloudiness
Q-110-10	12/09/2025	11:25	SW Comly &Tara Rds.	36"	NF	NS	NS	Dry.
Q-117-01	12/10/2025	09:04	W. Byberry & Audubon Aves.	27"	NF	NS	NS	No flow. Dry. Red staining on concrete,
Q-118-06	12/08/2025	11:09	NE of Woodhaven Rd. & Evans St.	42"	NF	NS	NS	Outfall partially submerged in stagnant water. Manhole Q118-06-0015 is dry.
Q-118-07	12/08/2025	10:55		42"	NF	NS	NS	No Flow. But damp.
Q-120-01	12/10/2025	09:36	NW of Denise Dr. & Depue Ave.	18"	NF	NS	NS	Outfall partially submerged. Frozen ice layer on water. Q120-01-0010 no flow.
Q-120-03	12/10/2025	09:52	Intersection of Bustleton Ave. & Station Rd.	54"	NF	NS	NS	No flow. Dry.
Q-120-06	12/10/2025	10:38	SE Poquessing Ave. & Station Rd.	27"	NF	NS	NS	No flow. Dry.
Q-120-07	12/10/2025	12:15	NW of Trevose Rd & Maple- 600 Block of Maple Ave.	24"	NF	NS	NS	No flow. Outfall damp.
Q-120-08	12/10/2025	10:55	NW Trevose Rd. & Edison Ave. - 641 Edison Ave.	36"	NF	NS	NS	Outfall partially submerged. Frozen water surface.
Q-120-09	12/10/2025	10:55	NW of Trevose & Edison Ave.	27"	NF	NS	NS	Outfall partially submerged. Frozen layer on water surface.
Q-120-10	12/10/2025	11:16	NW of Trevose & Southampton Rds.	36"	NF	NS	NS	No flow. Puddle in outfall frozen.
Q-120-11	12/10/2025	11:42	SE Philmont Ave. & Lukens St. - Across Superfresh	28"	NF	NS	NS	Outfall partially submerged. Stagnant water.
Q-121-01	10/16/2025	09:10	E. of Ina Dr. & Stevens Rd.	54"	NF	686.7	<0.100	Slight sweet/musty odor. Fish & flies. Could not determine flow-slightly moving. (0.01 mg/L Cl2)
Q-121-02	11/12/2025	10:00	NE of Kovats Dr. & Poquessing Creek Dr.	48"	NF	NS	NS	Outfall partially submerged with no visible flow. Best to access from the right of the outfall to avoid the steep drop on the outfall's left side. Slight oil sheen, no trash and no odor.
Q-121-03	10/16/2025	09:50	N. Of Liberty Lane & Poquessing Creek Dr	36"	NF	NS	NS	No flow. Trash stuck on grate. Partially submerged. Stagnant water. Closest storm inlet is dry.
Q-121-04	10/16/2025	10:05	NE of Poquessing Creek Lane & Poquessing Creek D	36"	NF	NS	NS	No flow.
Q-121-05	10/17/2025	09:22	NE of Milford St. & Poquessing Creek Dr.	42"	NF	1	0.593	Tap water smell/odor. (2.08mg/L Cl2)
Q-121-06	10/17/2025	09:45	NE of Carter Rd. & Poquessing Creek Dr.	30"	NF	NS	NS	No flow. But outfall wet inside.
S-051-01	10/24/2025	09:30	3798 Main St	36"	9	359	0.19	Observation was made by Bridgette Campbell and Theresa Bui. Sample was taken at Inlet# 113181 run-off from hill. Field Chlorine was taken at 9:24AM (No immediate color change) =0.01mg/l. Manhole S-051-01-0050 was sealed by asphalt. Manhole S-051-01-0060 had no flow. Sediments observed in flow channel; Trash, leaves and biofilm observed in chamber pool.
S-051-02	11/25/2025	12:10	NW of Main & Harvey	18"	5	52	0.201	Steady, clear flow with no odor. Slight oil sheen in river near outfall.
S-051-05	11/24/2025	12:00	S. Main & Gay Sts.	48"	0.833	38730	0.24	Lots of grey bacteria and heavy white surface scum. Oil sheen observed downstream. Outfall is at the bottom of a steep cliff with lots of branches and vegetation, even in late November.
S-052-03	11/25/2025	11:10	SW of Kelly Dr. & Falls Bridge	51"	NF	NS	NS	No flow but puddle of water in mouth of outfall. Lots of vegetation and dead tree branches blocking access to outfall. Also requires descending a steep cliff.
S-052-04	11/25/2025	11:20	S. of Kelly Dr. & Midvale Ave.	0"	Submerged	>24196.0	0.276	Outfall is submerged, making it impossible to estimate the flow rate. However, particles on the surface of the water at the mouth of the outfall seem to be flowing outward.
S-052-05	10/24/2025	08:41	S. of Sumac St. & Rochelle Ave.	42"	9	>24196	0.446	Observation made by Bridgette Campbell and Theresa Bui. Sample taken at Manhole S-052-05-0015 pool at bottom of chamber since we were unable to reach the actual incoming flow. Very light flow/water remaining at the bottom of Manhole S-052-05-0010 was not enough to sample. Outfall S-052-05 is not accessible on foot. Field Chlorine = 0.00mg/l
T-050-02	11/06/2025	12:05	SW of Bath & Hedley St.	48"	NF	NS	NS	No flow. Accessed by walking along creek from outfall T-056-07. Outfall has a layer of mud in it.
T-056-07	11/06/2025	11:45	SE of Richmond & Roxborough Sts.	36"	NF	NS	NS	No flow.
T-056-08	11/06/2025	12:25	SW of Richmond & Roxborough Sts.	36"	0.05	1054	0.337	Trickle flow. Many tree branches obstructing access to mouth of outfall.
W-060-09	10/17/2025	11:30	Intersection of Daniel St. & Hermit St.	30"	NF	NS	NS	Thorny vines and fallen branches, no trash. There is small path across from the garage on Hermit Ln. Path leads directly to outfall.
W-095-03	10/29/2025	09:09	E. Stenton Ave. & Bells Mill Rd.	36"	NF	NS	NS	Small trickle. Not enough flow to collect.
W-095-04	10/29/2025	09:34	E. Stenton Ave. & Bells Mill Rd.	30"	NF	NS	NS	No flow.
W-095-05	10/29/2025	10:06	E. Stenton Ave. & Newton St.	30"	0.5	410.6	0.078	Flow from 2 out of 4 outfall heads (far left & far right). Sampled from right. 0.07 mg/L Cl2.

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
7949 Ridge Ave	W-076-13	03/12/2025		
3331 Sheffield Ave	P-091-08	05/03/2025		
2014 Bleigh Ave	P-090-02	12/07/2024		
8127 Algon Ave	P-090-02	11/19/2024		
2012 Bleigh Ave	P-090-02	10/21/2024		
2028 Bleigh Ave	P-090-02	10/07/2024		
2031 Bleigh Ave	P-090-02	10/17/2024		
2034 Bleigh Ave	P-090-02	10/29/2024		
2038 Bleigh Ave	P-090-02	10/21/2024		
1844 Strahle St	P-099-03	09/10/2024		
1920 Afton St	P-090-02	04/13/2024		
2119 Oakmont St	P-090-02	05/28/2024		
2222 Strahle St	P-099-05	03/30/2024		
2227 Strahle St	P-099-05	04/06/2024		
2115 Afton St	P-090-02	01/11/2024		
7454 Devon St	W-086-03	11/17/2023		
7714 Matthias St	W-076-13	10/04/2023		
15044 Poquessing Crk La	Q-121-04	11/11/2023		
15059 Poquessing Crk La	Q-121-04	11/27/2023		
146 Roumfort Rd	W-086-03	10/07/2023		
131 E Mermaid La	W-086-01	06/30/2023		
5805 Newtown Ave	T-080-03	07/08/2023		
5830 Newtown Ave	T-080-03	08/05/2023		
5839 Newtown Ave	T-080-03	07/05/2023		
5850 Newtown Ave	T-080-03	08/04/2023		
7312 Palmetto St	T-089-04	06/03/2023		
7312 Lawndale Ave	T-089-04	03/27/2023		
510 Murdoch Rd	W-086-05	05/27/2023		
715 Arnold St	P-104-07	10/25/2022		
7915 Burholme Ave	T-098-01	10/15/2022		
1816 Benson St	P-099-03	05/14/2022		
1742 Bergen St	P-099-03	05/07/2022		

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
1829 Kendrick St	P-099-03	09/25/2021		
207 Passmore St	T-089-01	09/11/2021		
3602 Haywood St	S-052-04	03/27/2021		
3643 Haywood St	S-052-04	03/29/2021		
4150 Markland St	R18	06/02/2021		
4118 Castor Ave	R18	12/05/2020		
3460 Division St	S-052-04	01/23/2021		
2128 Emerson St	P-091-06	10/24/2020		
2214 Hoffnagle St	P-091-06	10/26/2020		
1441 E Hunting Park Ave	R18	02/29/2020		
4123 Markland St	R18	02/06/2020		
2623 W Allegheny Ave	S-046-06	10/05/2019		
4014 Castor Ave	R18	10/08/2019		
4030 Castor Ave	R18	10/12/2019		
4143 M St	R18	09/21/2019		
4215 M St	R18	09/24/2019		
4259 Neilson St	R18	12/02/2019		
1404 E Lycoming St	R18	08/31/2019		
1413 E Lycoming St	R18	08/20/2019		
1447 E Lycoming St	R18	08/26/2019		
4142 Markland St	R18	08/03/2019		
4144 Markland St	R18	07/30/2019		
4146 Markland St	R18	07/27/2019		
4245 Ormond St	R18	06/08/2019		
4215 Castor Ave	R18	04/27/2019		
4250 Neilson St	R18	04/25/2019		
4232 O St	R18	03/28/2019		
4456 Riverview La	S-052-03	09/26/2018		
3461 Sunnyside Ave	S-052-04	04/02/2018		
3425 Conrad St	S-052-04	03/01/2018		
3411 W Penn St	S-052-04	02/13/2018		
3424 W Penn St	S-052-04	02/17/2018		

Table 4
Spills to Storm Sewers and/or Receiving Waters
October 1, 2025 to December 31, 2025

Date	Outfall	Address	Source Code	Material Involved	Completion Date	Remarks
10/01/25	Q-101-20 Byberry Creek	9600 Convent Ave	3011	Sewage	10/02/25	Blockage was caused by grease buildup. Used flusher to relieve the choke. Cleanup was done by WRT the next day.
10/07/25	T-01 & T-08 Tacony Creek	2800 Cheltenham ave	3011	Sewage	10/07/25	Discharge was active at time of Examination. Choked sewer relieved. Sewer cleaned and vacuumed.
10/29/25	S-052-05	5208 Ridge Ave	3008	Sewage	10/29/25	Sanitary sewer discharged into residence. Choked sewer relieved. Sewer cleaned and vacuumed.
10/29/25	S-051-05	4300 Main St	3008	Sewage	10/29/25	Choked sewer caused sewage discharge into basements.Choked sewer relieved. Sewer cleaned and vacuumed.
11/17/25	S-051-08	411 Shurs Ln	3008	Sewage	11/17/25	Sanitary sewer discharged into residence. Large deposits of grease found causing choked sewer.Choked sewer relieved. Sewer cleaned and vacuumed.
12/22/25	T-097-01 & 02 Tacony Creek	2800 Cheltenham	3011	Sewage	12/22/25	Found choked sewer, no discharge street side. Sewer segment referred to CCTV to determine integrity and possible cause of problem. Choked sewer relieved. Sewer cleaned and vacuumed.

Source Codes:

3008 - Spill to Ground Only
3009 - Spill to Storm Sewer
3010 - Spill to Sanitary Sewer
3011 - Spill to Receiving Stream

STORM WATER MANAGEMENT PROGRAM
NPDES PERMIT NO. PA0054712

DEFECTIVE LATERAL CONNECTION STATUS REPORT
(Covering Period from January 1, 2026 to March 31, 2026)

Submitted to

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

By

CITY OF PHILADELPHIA
PHILADELPHIA, PA

April 24, 2026

DLC Program Update
1st Quarter 2026

I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning January 1, 2026, and ending March 31, 2026.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

II. PAST QUARTER REVIEW

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,831 complete tests in this sewer shed, identifying 134 cross-connections, all of which have been abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	24	1	0
CFD-02	23	3	0
CFD-03	23	0	0
CFD-04	22	0	0
CFD-05	23	2	0
CFD-06	23	1	0
CFD-07	24	6	0
CFD-08	23	6	0

The most recent fecal sample value was 1460 MPN per 100 ml. at the outfall on March 25, 2026.

2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 637 complete tests in this sewer shed, identifying 17 cross-connections, all of which have been abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. north of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
MFD-01	4	0	0
MFD-02	4	0	0

The most recent fecal sample value was 3,076 MPN per 100 ml. at the outfall on June 24th, 2025. No sample was taken this quarter.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,750 complete tests in these sewer shed areas, identifying 95 cross-connections, all of which have been abated. Most of the efforts have been in the W-068-05 sewer shed area, which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 46,110 MPN per 100 ml. at the W-068-05 outfall on December 18th, 2025.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

DLC program activities have performed 2,521 complete tests in these sewer shed areas, identifying 68 cross-connections, 66 of which have been abated. Most of the efforts have been in the S-059-04 sewer shed area.

The most recent fecal sample values at each outfall were:

- 31,300 MPN per 100 ml. at the S-058-01 outfall on March 20, 2026.
- 5,980 MPN per 100 ml. at the S-059-01 outfall on March 20, 2026.
- 12,010 MPN per 100 ml. at the S-059-02 outfall on March 20, 2026.
- 20,640 MPN per 100 ml. at the S-059-03 outfall on March 20, 2026.
- 72,700 MPN per 100 ml. at the S-059-04 outfall on March 20, 2026.
- 3,450 MPN per 100 ml at the S-059-05 outfall on March 20, 2026
- 29,090 MPN per 100 ml. at the S-059-09 outfall on March 20, 2026.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,946 complete tests in this sewer shed, identifying 115 cross-connections, 113 of which have been abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
PFD-01	33	1	0

The most recent fecal sample value was 97 MPN per 100 ml. at the outfall on March 19, 2026.

2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,021 complete tests in this sewer shed, identifying 46 cross-connections, all of which have been abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	26	2	0

No sample was taken this quarter.

3. A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

Outfall #	Completed Test	Cross Connection	Abatement
P-082-01	1	0	0
P-083-03	6	0	0
P-090-02	0	0	1
P-091-01	6	0	5
P-091-08	1	0	0
R18	0	0	1
Q-101-09	3	0	1
S-059-01	1	0	0
T-080-02	20	0	3
T-098-01	1	0	0
W-085-02	0	0	1

III. NEXT QUARTER GOALS

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

Goals for the Quarter:

- Continue sampling at outfall W-068-05 with dry-weather flow.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

Goals for the Quarter:

- Continue sampling at the outfalls with dry-weather flow.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

2. Franklin and Hasbrook Outfall (T-089-04)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

3. Continue to perform abatements of identified cross-connections within the following outfalls.

- P-090-02
- P-091-01
- P-091-06
- P-091-08
- Q-101-07
- R-18
- S-046-06
- S-052-03
- S-052-04
- S-059-01
- T-080-02
- T-080-03
- W-067-01
- W-076-13
- W-085-02
- W-086-02

Table 1
DLC Program Summary
January 1, 2026 – March 31, 2026

Complete Tests:

- 65,542 Complete tests have been performed under the DLC program
- **39 Complete tests were performed this quarter**
- 1 Complete test was performed in outfall P-082-01
- 6 Complete tests were performed in outfall P-083-03
- 6 Complete tests were performed in outfall P-091-01
- 1 Complete test was performed in outfall P-091-08
- 3 Complete tests were performed in outfall Q-101-09
- 1 Complete test was performed in outfall S-059-01
- 20 Complete tests were performed in outfall T-080-02
- 1 Complete test was performed in outfall T-098-01

Cross-Connections Found:

- 1,968 Cross-connections have been identified under the DLC program
- **0 Cross-connections were identified this past quarter**

Abatements:

- 1,937 Abatements have been performed under the DLC program
- **12 Abatements were performed this past quarter**
- 1 Abatement was performed in outfall P-090-02
- 5 Abatements were performed in outfall P-091-01
- 1 Abatement was performed in outfall Q-101-09
- 1 Abatement was performed in outfall R18
- 3 Abatements were performed in outfall T-080-02
- 1 Abatement was performed in outfall W-085-02

Outfall/Manhole Screening and Sampling:

- 10 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter
- 9 outfall samples were taken due to observed dry-weather flow during the above inspections
- 61 outfall inspections were made as part of the **Permit Inspection Program** this past quarter
- 26 outfall samples were taken due to observed dry-weather flow during the above inspections

Table 2
Lab Analysis of Water at Outfalls and/or in the Storm Sewers
January 1, 2026 to March 31, 2026

Outfall	Date	Time	Location	Sewer Size (in)	Flow (GPM)	Fecal Count (MPN/100mL)	Fluoride (mg/l)	Comments
A. Priority Outfalls								
S-058-01	03/20/2026	11:50	SW of Umbria St. & Domino Lane.	54"	NR	31300.00	0.21	
S-059-01	03/20/2026	12:05	NE of Towpath & Parker Ave.	60"	NR	5980.00	0.18	
S-059-02	03/20/2026	12:16	NE of Towpath & Fountain St.	42"	NR	12010.00	0.52	
S-059-03	03/20/2026	11:45	NE of Towpath & Wright St.	42"	5	20640.00	0.12	Clear flow with slight sewage odor. Bacteria on rocks.
S-59-04	03/20/2026	11:25	Inter. of Towpath & Leverington Ave. Bridge	51"	Submerged	72700.00	0.18	Water emerging from outfall is cloudy.
S-59-05	03/20/2026	11:35	Inter. of Towpath & Leverington Ave. Bridge	0"	Submerged	3450.00	0.13	Flow appears very minimal.
S-059-09	03/20/2026	11:15	Intersection of Main St. & Green Lane	36"	0.0833	29090.00	0.11	Trickle flow, clear with moderate suspended solids.
T-088-01	01/13/2026	11:10	W. of Cheltenham Ave. & 7th St.	84"	Submerged	129970.00	0.20	Cl2 reading of 0.01 mg/L. Heavy bacterial matting observed.
T-088-01	02/17/2026	12:45	W. of Cheltenham Ave. & 7th St.	84"	Submerged	NS	NS	Slight oil sheen downstream from outfall. Lots of bacterial matting observed. Weekly township inspection.
T-088-01	03/25/2026	07:20	W. of Cheltenham Ave. & 7th St.	84"	NR	1460.00	0.14	
B. Permit Inspection Program								
P-090-02	02/26/2026	11:50	S. of Brous Ave. & Roosevelt Blvd.	156"	60	14136.00	0.20	Heavy flow. Estimated flow rate visually, approximating time to fill a 5 gallon bucket. Sample was clear with slight suspended solids and had an odor similar to rotting vegetables. Cl2 reading of 0.27 mg/L.
P-090-02	03/19/2026	11:45	S. of Brous Ave. & Roosevelt Blvd.	156"	NR	97.00	0.24	Clear.
P-100-15	03/10/2026	12:20	W. Cloverly Rd. & Arlan Ave.	30"	NF	NS	NS	Extremely overgrown around the outfall. Accessed by walking behind 9024 Convent Ave, past baseball field, through woods to outfall.
P-100-20	03/10/2026	11:35	NE of Ryerson Rd. & Ryerson Place	30"	NF	NS	NS	Mouth of outfall is moist with a slight drip but not enough to sample.
P-100-22	03/10/2026	11:50	SW of Angus Rd. & Angus Place	18"	NF	NS	NS	No flow.
P-108-16	01/08/2026	11:00	Intersection of Welsh Rd. & Alburger Ave.	54"	NF	NS	NS	Partially submerged in stagnant water.
P-108-17	01/08/2026	11:05	Intersection of Welsh Rd. & Alburger Ave.	42"	NF	NS	NS	Partially submerged in stagnant water.
P-113-05	01/08/2026	11:45	NW of Red Lion Rd. & Bustleton Ave.	18"	NF	NS	NS	No flow.
P-113-07	01/08/2026	11:45	NW of Red Lion Rd. & Bustleton Ave.	60"	Submerged	7760.00	0.14	Could not determine flow rate as outfall is partially submerged.
Q-107-01	03/30/2026	08:55	SE of Greenmount Rd. & Telfair Dr.	54"	NF	NS	NS	No Flow.
Q-107-03	03/30/2026	10:07	E. of Deerpath Lane & Parkview Rd.	24"	NF	NS	NS	No flow. Stagnant.
Q-107-04	03/30/2026	10:58	E. of Dimarco dr. & Lawnbrook Rd.	27"	NF	NS	NS	No flow. Stagnant.
Q-107-05	03/30/2026	10:33	SE of Dimarco Dr. & Green Dale Rd.	42"	NF	NS	NS	Trickle. Not enough to collect.
Q-110-08	03/10/2026	11:34	S. of Academy & Comly Rds.-11645 Academy Rd.	42"	NF	NS	NS	Dry. Amphipod observed.
Q-110-09	03/10/2026	11:40	S. of Academy & Comly Rds.	36"	NF	NS	NS	Very small trickle. Not enough to collect.
Q-110-15	03/10/2026	11:58	N. of Waldemire Dr. & Bryne Rd.	60"	NF	NS	NS	Partially submerged & stagnant. Closest manhole Q110-15-0050 dry.
Q-110-19	03/30/2026	08:12	E. of Helmer Dr. & Keswick Rd.	21"	NF	NS	NS	Dry.
Q-110-20	03/30/2026	08:09	SE of Helmer Dr. & Keswick Rd.	54"	NF	NS	NS	No flow. Stagnant.
Q-115-04	03/20/2026	10:32	Ancona & Tyronne Rds.	36"	NF	NS	NS	Collapsed. Filled with dirt.
Q-115-06	03/20/2026	10:18	W. of Academy & Torrey Rds.	30"	NF	NS	NS	Collapsed outfall. No flow.
Q-115-07	03/20/2026	10:13	NW. of Academy & Torrey Rds. - 12423 Tyrone Rd.	24"	NF	NS	NS	Trickle. Not enough to collect.
Q-119-01	03/20/2026	08:43	NE McNulty & Townsend Rds- 14000 Block Mcnulty Rd	84"	NF	NS	NS	Stagnant. No flow.
Q-119-02	03/20/2026	08:43		18"	NF	NS	NS	Stagnant water in outfall. No flow.
S-046-02	01/06/2026	12:05	E. of Conshocken Ave. & Country Club Rd.	36"	6	10.90	0.14	Outfall and plunge pool coated in orange bacteria. Estimated flow based on rate to fill mason jar (1 second).
S-046-04	01/07/2026	11:40	S. of Kelly Dr. & Hunting Park Ave.	0"	10	920.80	0.08	Fast flow, a few inches deep. Estimated flow rate visually.
S-046-05	01/06/2026	11:05	SW of Neil Dr. & Falls Rd.	24"	NF	NS	NS	No flow.
S-046-06	01/07/2026	11:20	S. Kelly Dr. & Twin Bridges	061"	10	2419.60	0.09	Trickle flow all along the wide mouth of the outfall (estimated flow rate visually). Slight sudsing in river. Algae on outfall.
S-046-07	01/06/2026	11:40	SW of Neill Dr. & Presidential Blvd.	18"	NF	NS	NS	Ice in mouth of outfall.
S-046-10	01/07/2026	11:55		30"	5	3.10	0.19	Sudsing emerging from outfall. Observed dead clam shells near outfall. Estimated flow rate visually.
T-089-03	02/03/2026	11:20	NW of Woodland & Lincoln Aves.	42"	2.5	45.70	0.58	Cl2 reading of 1.03 mg/L. Estimated flow by time to fill a mason jar (~10 sec) and the width of the flow.
T-089-04	01/13/2026	11:40	100' W of County Line & Franklin Ave. (Mont. Co.)	030"	NF	NS	NS	No flow. Slight bacterial matting observed.
T-089-04	02/17/2026	12:15	100' W of County Line & Franklin Ave. (Mont. Co.)	030"	NF	NS	NS	Snow and ice piled at city side of outfall. Weekly township inspection.
T-098-03	02/02/2026	12:00	NW of Central & Shelmire Aves. (Burholme Park)	30"	NF	NS	NS	Partially submerged in frozen water.
W-076-01	03/11/2026	11:07	NE of Cathedral rd. & Wissahickon Ave.	48"	NF	67.00	0.10	Samples taken, decaying vegetation, Chlorine residue was 0.1.
W-076-02	03/11/2026	11:33	Intersection of Cathedral & Glenroy Rds.	36"	NF	NS	NS	Tree trunk across the Outfall, collapsed apron
W-076-04	03/11/2026	12:51	NE of Summit Ave. & Cadillac Lane.	27"	NF	NS	NS	Tree root growing through the apron, both apron and outfall buried, wet but no flow.
W-076-05	03/11/2026	12:42	NE of Summit Ave. & Caddillac Lane	36"	NF	NS	NS	Good condition
W-076-15	03/11/2026	12:48		18"	NF	NS	NS	looked Wet but no flow
W-084-03	03/09/2026	11:50	NE of Lykens Lane & Ronnie Circle	18"	6	<1.00	0.58	Cl2 reading of 1.99 mg/L.
W-084-04	03/09/2026	12:15	N. Lykens Lane & Ronnie Circle	24"	NF	NS	NS	Mouth of outfall is more than half full with soil and dead leaves. Recommend accessing outfall from corner of Lykens Ln & Ayrdale Rd as access from W-084-03 was overgrown and thorny, even in early March.
W-086-05	03/25/2026	12:09	W. Anderson St. & Woodbrook Lane	48"	NF	200.00	0.14	Outfall is buried with stagnant water. Samples collected
W-086-06	03/25/2026	11:39	W. of Ivy Hill Rd. & Stenton Ave.	48"	NF	20980.00	0.10	Outfall is submerged could not determine if there was flow. Took samples for analysis

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
238 Parker Ave	S-059-01	09/10/2025		
240 Parker Ave	S-059-01	09/18/2025		
8009 Elberon Ave	P-090-02	03/15/2025		
5905 Newtown Ave	T-080-02	03/08/2025		
7949 Ridge Ave	W-076-13	03/12/2025		
3331 Sheffield Ave	P-091-08	05/03/2025		
2014 Bleigh Ave	P-090-02	12/07/2024		
1819 Fox Chase Rd	P-099-03	06/22/2024		
5828 Weymouth St	T-080-03	06/29/2024		
1920 Afton St	P-090-02	04/13/2024		
2119 Oakmont St	P-090-02	05/28/2024		
2222 Strahle St	P-099-05	03/30/2024		
2225 Strahle St	P-099-05	03/23/2024		
2226 Strahle St	P-099-05	03/14/2024		
2227 Strahle St	P-099-05	04/06/2024		
1902 Afton St	P-090-02	02/27/2024		
2124 Afton St	P-090-02	02/23/2024		
7454 Devon St	W-086-03	11/17/2023		
7714 Matthias St	W-076-13	10/04/2023		
5801 Newtown Ave	T-080-03	09/05/2023		
15044 Poquessing Crk La	Q-121-04	11/11/2023		
5836 Weymouth St	T-080-03	11/18/2023		
131 E Mermaid La	W-086-01	06/30/2023		
5830 Newtown Ave	T-080-03	08/05/2023		
7312 Palmetto St	T-089-04	06/03/2023		
5833 Reach St	T-080-03	08/19/2023		
5830 Weymouth St	T-080-03	08/02/2023		
5832 Weymouth St	T-080-03	07/29/2023		
5834 Weymouth St	T-080-03	08/09/2023		
5843 Weymouth St	T-080-03	07/29/2023		
101 E Mermaid La	W-086-01	02/13/2023		
715 Arnold St	P-104-07	10/25/2022		

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
7915 Burholme Ave	T-098-01	10/15/2022		
1128 Brighton St	P-090-02	06/25/2022		
1816 Benson St	P-099-03	05/14/2022		
1742 Bergen St	P-099-03	05/07/2022		
1829 Kendrick St	P-099-03	09/25/2021		
1410 E Hunting Park Ave	R18	07/30/2021		
2216 Emerson St	P-091-06	03/22/2021		
3602 Haywood St	S-052-04	03/27/2021		
3643 Haywood St	S-052-04	03/29/2021		
4150 Markland St	R18	06/02/2021		
3617 Midvale Ave	S-052-04	06/02/2021		
3460 Division St	S-052-04	01/23/2021		
2128 Emerson St	P-091-06	10/24/2020		
2320 Benson St	P-091-06	01/06/2020		
1441 E Hunting Park Ave	R18	02/29/2020		
4123 Markland St	R18	02/06/2020		
2623 W Allegheny Ave	S-046-06	10/05/2019		
4014 Castor Ave	R18	10/08/2019		
4024 Castor Ave	R18	09/17/2019		
1431 E Lycoming St	R18	11/02/2019		
4143 M St	R18	09/21/2019		
4259 Neilson St	R18	12/02/2019		
1404 E Lycoming St	R18	08/31/2019		
1409 E Lycoming St	R18	08/13/2019		
1447 E Lycoming St	R18	08/26/2019		
4122 Markland St	R18	08/05/2019		
4142 Markland St	R18	08/03/2019		
4144 Markland St	R18	07/30/2019		
4146 Markland St	R18	07/27/2019		
4245 Ormond St	R18	06/08/2019		
4215 Castor Ave	R18	04/27/2019		
3023 Comly Rd	Q-110-09	03/12/2019		
4250 Neilson St	R18	04/25/2019		

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
4232 O St	R18	03/28/2019		
3235 Comly Pl	Q-110-09	10/06/2018		
3454 W Penn St	S-052-04	10/24/2018		
4456 Riverview La	S-052-03	09/26/2018		
3530 Henry Ave	S-052-04	03/03/2018		
3317 W Penn St	S-052-04	06/02/2018		
3340 W Penn St	S-052-04	03/03/2018		
3425 Conrad St	S-052-04	03/01/2018		
3424 W Penn St	S-052-04	02/17/2018		
220 Rock St	S-052-05	08/19/2016		

Table 4
Spills to Storm Sewers and/or Receiving Waters
January 1, 2026 to March 31, 2026

Date	Outfall	Address	Source Code	Material Involved	Completion Date	Remarks
01/06/26	S-046-09	3898 Ford Rd	3011	Sewage	01/07/26	Found discharge in tributary from outfall S-046-09 waterways.Waterways restoration team on location for all ongoing mitigation and cleanup.
01/21/26	P-116-02	10828 Rennard St	3010	Sewage	01/21/26	Blockage caused by grease build-up. Flusher opened sanitary sewer to relieve choke.
01/29/26	D-092-05	Linden Ave and Milnor St	3008	Sewage	01/29/26	Large depression in asphalt inside pump station had water pooled. Flow requested samples to determine if potable or sewage. Samples had no chlorine. Fecals were low. Source determined to be snow melt.
02/22/26	PS SSO	Neill Drive Pump Station	3011	Sewage	02/22/26	Electrical breaker tripped, causing station to lose power. PWD crew did not find evidence of debris or cloudy water at outfall. No abatement needed. PWD electrician reset the breaker and power was restored.
03/10/26	Q-106-21	Calera Rd and Cromwell Rd	3011	Sewage	03/11/26	Blockage caused by grease build-up. Flusher opened sanitary sewer to relieve choke. Water Restoration did cleanup the next day.
03/25/26	S-046-06	4116-28 Ridge Ave	3008 & 3010	Sewage	03/25/26	Parcel inspected by CK and BC. Observed vent stacks surrounded by a heavy layer of grease. Employee observed dumping mop water into parking lot drain. CK inspected outfall and found no issues.

Source Codes:

3008 - Spill to Ground Only
3009 - Spill to Storm Sewer
3010 - Spill to Sanitary Sewer
3011 - Spill to Receiving Stream

STORM WATER MANAGEMENT PROGRAM
NPDES PERMIT NO. PA0054712

DEFECTIVE LATERAL CONNECTION STATUS REPORT
(Covering Period from April 1, 2026 to June 30, 2026)

Submitted to

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER QUALITY MANAGEMENT

By

CITY OF PHILADELPHIA
PHILADELPHIA, PA

August 5, 2026

DLC Program Update
2nd Quarter 2026

I. INTRODUCTION

This Defective Lateral Connection Status Report is submitted to the Pennsylvania Department of Environmental Protection (PADEP) as part of the reporting requirements of the City of Philadelphia NPDES Storm Water Management Permit No. PA 0054712. The report covers the three-month period beginning April 1, 2026, and ending June 30, 2026.

The body of this report will describe the recent activities of the City during the past quarter within the 1998 COA Priority Outfall areas and at other significant outfalls on the Stormwater Outfall Priority Score list. Additionally, goals for the next quarter will be listed.

Table 1 provides a summary of the program with respect to Complete tests, Cross-connections identified, and Abatements performed. Table 2 provides a listing of all laboratory analyses of samples taken at stormwater outfalls or within the stormwater system during the previous quarter. Table 3 provides a listing of properties with cross-connections outstanding greater than 120 days. Finally, Table 4 provides a listing of reported wastewater spills to the stormwater system or receiving streams.

II. PAST QUARTER REVIEW

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

DLC program activities have performed 2,831 complete tests in this sewer shed, identifying 134 cross-connections, all of which have been abated.

Eight (8) sites intercepting flow are listed below.

1. CFD-01 Plymouth St. west of Pittsville St.
2. CFD-02 Pittsville St. south of Plymouth St.
3. CFD-03 Elston St. east of Bouvier St.
4. CFD-04 Ashley St. west of Bouvier St.
5. CFD-05 Cheltenham Ave. east of 19th St.
6. CFD-06 Verbena St. south of Cheltenham Ave.
7. CFD-07 Cheltenham Ave. east of 7th St.
8. CFD-08 7th St. south of Cheltenham Ave.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	18	2	0
CFD-02	18	2	0
CFD-03	17	1	0
CFD-04	17	1	0
CFD-05	18	2	0
CFD-06	18	0	0
CFD-07	21	4	0
CFD-08	20	6	0

The most recent fecal sample value was 19,890 MPN per 100 ml. at the outfall on May 20, 2026.

2. Monastery Ave. Outfall (W-060-01)

DLC program activities have performed 635 complete tests in this sewer shed, identifying 17 cross-connections, all of which have been abated.

Two (2) sites intercepting flow are listed below.

1. MFD-01 Jannette St. west of Monastery Ave.
2. MFD-02 Green La. north of Lawnton St.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
MFD-01	4	0	0
MFD-02	4	0	0

The most recent fecal sample value was 3,076 MPN per 100 ml. at the outfall on June 24th, 2025. No sample was taken this quarter.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

DLC program activities have performed 2,750 complete tests in these sewer shed areas, identifying 95 cross-connections, all of which have been abated. Most of the efforts have been in the W-068-05 sewer shed area, which is by far the largest in terms of drainage area and properties served.

The most recent fecal sample value was 2,310 MPN per 100 ml. at the W-068-05 outfall on June 8th, 2026.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

DLC program activities have performed 2,521 complete tests in these sewer shed areas, identifying 68 cross-connections, 66 of which have been abated. Most of the efforts have been in the S-059-04 sewer shed area.

The most recent fecal sample values at each outfall were:

- 4,880 MPN per 100 ml. at the S-058-01 outfall on June 22, 2026.
- 2,920 MPN per 100 ml. at the S-059-01 outfall on June 22, 2026.
- 6,488 MPN per 100 ml. at the S-059-02 outfall on June 22, 2026.
- 43,520 MPN per 100 ml. at the S-059-03 outfall on June 22, 2026.
- 100 MPN per 100 ml. at the S-059-04 outfall on June 22, 2026.
- 3,450 MPN per 100 ml at the S-059-05 outfall on March 20, 2026
- 51,720 MPN per 100 ml. at the S-059-09 outfall on June 22, 2026.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

DLC program activities have performed 5,951 complete tests in this sewer shed, identifying 117 cross-connections, 113 of which have been abated.

One (1) site intercepting flow is listed below.

1. PFD-01 Sandyford Run (Brous and Lexington Aves.)

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
PFD-01	25	0	0

The most recent fecal sample value was 57,940 MPN per 100 ml. at the outfall on May 8, 2026.

2. Franklin and Hasbrook Outfall (T-089-04)

DLC program activities have performed 1,020 complete tests in this sewer shed, identifying 47 cross-connections, all of which have been abated.

One (1) site intercepting flow is listed below.

1. CFD-01 Franklin and Hasbrook Aves.

The number of inspections, blockages cleared, and discharges noted during this quarter are listed below.

Flap Gate	Inspections	Blockages	Discharges
CFD-01	21	0	0

No sample was taken this quarter.

3. A current summary of additional outfalls from the Stormwater Outfall Priority Score list that the City has performed complete testing or abatements this quarter is as follows.

Outfall #	Completed Test	Cross Connection	Abatement
P-083-03	2	0	0
P-091-01	1	0	1
P-091-08	3	1	0
Q-101-09	1	0	0
Q-101-19	31	0	0
T-080-02	21	0	0
T-080-03	2	1	1
T-080-04	6	1	1
W-067-05	2	0	0
W-085-02	1	0	0

III. NEXT QUARTER GOALS

A. Priority Outfalls

1. 7th & Cheltenham Outfall (T-088-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

2. Monastery Ave. Outfall (W-060-01)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatuses.
- Continue sampling at the outfall with dry-weather flow.

3. Monoshone Creek Outfalls (W-060-04, W-060-08, W-060-09, W-060-10, W-060-11, W-068-04 and W-068-05)

Goals for the Quarter:

- Continue sampling at outfall W-068-05 with dry-weather flow.

4. Manayunk Canal Outfalls (S-051-06, S-058-01, S-059-01 through S-059-11)

Goals for the Quarter:

- Continue sampling at the outfalls with dry-weather flow.

B. Other Outfalls

1. Sandyford Run Outfall (P-090-02)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

2. Franklin and Hasbrook Outfall (T-089-04)

Goals for the Quarter:

- Continue to monitor the operation of the diversion apparatus.

3. Continue to perform abatements of identified cross-connections within the following outfalls.

- P-090-02
- P-091-01
- P-091-06
- P-091-08
- Q-101-07
- R-18
- S-046-06
- S-052-03
- S-052-04
- S-059-01
- T-080-02
- T-080-03
- W-067-01
- W-076-13
- W-086-02

Table 1
DLC Program Summary
April 1, 2026 – June 30, 2026

Complete Tests:

- 65,595 Complete tests have been performed under the DLC program
- **100 Complete tests were performed this quarter**
- 2 Complete tests were performed in outfall P-083-03
- 30 Complete tests were performed in outfall P-090-02
- 1 Complete test was performed in outfall P-091-01
- 3 Complete tests were performed in outfall P-091-08
- 1 Complete test was performed in outfall Q-101-09
- 31 Complete tests were performed in outfall Q-101-19
- 21 Complete tests were performed in outfall T-080-02
- 2 Complete tests were performed in outfall T-080-03
- 6 Complete tests were performed in outfall T-089-04
- 2 Complete tests were performed in outfall W-067-05
- 1 Complete test was performed in outfall W-085-02

Cross-Connections Found:

- 1,972 Cross-connections have been identified under the DLC program
- **5 Cross-connections were identified this past quarter**
- 2 Cross-connections were identified in outfall P-090-02
- 1 Cross-connection was identified in outfall P-091-08
- 1 Cross-connection was identified in outfall T-080-03
- 1 Cross-connection was identified in outfall T-089-04

Abatements:

- 1,940 Abatements have been performed under the DLC program
- **3 Abatements were performed this past quarter**
- 1 Abatement was performed in outfall P-091-01
- 1 Abatement was performed in outfall T-080-03
- 1 Abatement was performed in outfall T-089-04

Outfall/Manhole Screening and Sampling:

- 13 outfall inspections were made as part of the **Priority Outfall Inspection Program** this past quarter
- 11 outfall samples were taken due to observed dry-weather flow during the above inspections
- 37 outfall inspections were made as part of the **Permit Inspection Program** this past quarter
- 12 outfall samples were taken due to observed dry-weather flow during the above inspections

Table 2
Lab Analysis of Water at Outfalls and/or in the Storm Sewers
April 1, 2026 to June 30, 2026

Outfall	Date	Time	Location	Sewer Size (in)	Flow (GPM)	Fecal Count (MPN/100mL)	Fluoride (mg/l)	Comments
A. Priority Outfalls								
P-090-02	05/08/2026	11:34	S. of Brous Ave. & Roosevelt Blvd.	156"	NF	57940.00	0.31	
W-060-11	05/19/2026	11:45	W. of Lincoln Dr. & Harvey St.	36"	16.67	23820.00	0.20	Heavy flow, slight suspended solids, moderate sewage smell. Cl2 reading of 0.00 mg/L. Sampled from above outfall, dropping jar into creek directly in front of outfall. Could not safely sample the flow alone. Estimated the flow rate visually to be 3 jars/sec.
W-060-04	05/19/2026	12:00	N. Lincoln Drive & Harvey St.	24"	0.6	630.00	0.31	Trickle flow, slight sewage smell. Cl2 reading of 0.04 mg/L. Sampled from creek below outfall. Estimated flow rate visually to be 1 jar/10 sec.
T-088-01	05/20/2026	12:02	W. of Cheltenham Ave. & 7th St.	84"	NR	19890.00	0.22	
W-068-05	06/08/2026	11:55	NW Lincoln Drive & Morris St.	90"	Submerged	2310.00	0.33	Cl2 reading: 0.004 mg/L
W-060-01	06/10/2026	11:50	NE. of Monatery Lane & Janette St.	0"	NF	NS	NS	No flow.
S-059-09	06/22/2026	11:35	Intersection of Main St. & Green Lane	36"	2.5	51720.00	0.43	Steady flow with moderate suspended solids, yellow tint, and moderate sewage smell. Estimated flow rate visually by approximating the time to fill a mason jar.
S-059-04	06/22/2026	11:45	Inter. of Towpath & Leverington Ave. Bridge	51"	Submerged	100.00	0.12	Sample has a yellow tint and moderate sewage odor. Observed discharge from outfall with heavy suspended solids at 12:10 while walking past.
S-059-05	06/22/2026	11:50	Inter. of Towpath & Leverington Ave. Bridge	0"	NF	NS	NS	No visible flow.
S-059-03	06/22/2026	12:00	NE of Towpath & Wright St.	42"	2	43520.00	0.10	Steady flow. Heavy bacterial matting in front of outfall.
S-058-01	06/22/2026	12:05	SW of Umbria St. & Domino Lane.	54"	NR	4880.00	0.22	
S-059-01	06/22/2026	12:20	NE of Towpath & Parker Ave.	60"	NR	2920.00	0.15	
S-059-02	06/22/2026	12:33	NE of Towpath & Fountain St.	42"	NR	6488.00	0.56	
B. Permits Inspection Program								
W-076-09	04/15/2026	12:09	SW of Valley Green Rd. & Wolcott Dr.	48"	NF	41.00	0.06	Tree branches also, Sample collected. Significant flow; filled the 300ml mason jar in 2-3 seconds, Algae on the outfall apron
P-100-05	04/28/2026	11:45	NW of Winchester Ave. & Tolbut St.	36"	NF	NS	NS	No flow. Surface scum in stagnant plunge pool
P-100-07	04/28/2026	11:55	SE of Sperry & Danbury Sts.	24"	NF	NS	NS	No flow. Surface scum in stagnant plunge pool
P-100-08	04/28/2026	12:15	SE Maxwell & Danbury Sts.	72"	20	8.50	0.55	Cl2 reading: 1.20 mg/L. Slight flow over a wide flat apron. Estimated flow rate visually.
S-010-02	04/29/2026	09:51	W. of Pattison Ave. & Broad St.	0"	NF	4611.00	0.00	Outfall partially submerged, no flow. Dark green/black clumps floating at the surface by outfall opening. Easy access from Pattison Ave.
P-100-06	04/29/2026	11:05	S. Sperry & Macon Sts	21"	NF	NS	NS	No flow.
Q-115-09	05/04/2026	09:52	SE of Cabell & Lester Rds.	66"	3	31.00	0.62	Flow. Field Total Cl2: 1.32 mg/L.
P-099-06	05/04/2026	10:30	NE of Peachtree Lane & Cherryblossom Way	30"	NF	NS	NS	There are two outfalls at this location. For details, please see entries for P-099-06A and P-099-06B.

P-099-06A	05/04/2026	10:30			NF	NS	NS	No flow observed
P-099-06B	05/04/2026	10:30			NF	NS	NS	No flow observed
Q-115-12	05/04/2026	11:05	W. of Nanton & Canby Drs.	72"	6	3130.00	0.65	Flow. Field Total Cl2: 1.32 mg/L
Q-115-03	05/05/2026	10:26	SE of Ancona & Medford Rds.	24"	NF	NS	NS	No flow. Outfall collapsed.
Q-110-04	05/05/2026	11:15	S. of Decatuar & Darnell Rds.	42"	15	<1.00	0.66	Flow. High total chlorine (E-04 2.20 mg/L Cl2)
Q-110-07	05/06/2026	09:04	N. of Academy Rd & Chalfont Dr-11025 Academy Rd.	30"	NF	NS	NS	Sewage odor, possible cross connection.
W-076-03	05/13/2026	11:35	E. Glenroy Rd. & Lommond Lane.	24"	NF	NS	NS	No flow.
W-076-06	05/13/2026	11:55	NE of Summit Ave. & Cadillac Lane	18"	NF	NS	NS	No flow.
W-075-02	05/13/2026	12:15	NE of Seffert & Lawnton Sts.	27"	NF	NS	NS	No flow.
P-099-05	05/18/2026	08:22	NE of Horrocks & Strahle Sts.	42"	NF	NS	NS	Dry.
P-099-04	05/18/2026	09:05	SW of Evarts & Tolbut Sts.	36"	NF	NS	NS	Dry. New/replaced old. Construction site.
Q-110-07	05/18/2026	11:03	N. of Academy Rd & Chalfont Dr-11025 Academy Rd.	30"	20	1732900.00	0.67	Sewage.
Q-120-14	05/18/2026	11:23	W. of Bustleton on Laura Lane (East of D.R/W)	18"	NF	NS	NS	Outfall was wet but no flow, growing vegetation
Q-120-02	05/18/2026	11:49	S. of Bustleton Ave & Petoni Pl - 13550 Bustleton	66"	NF	NS	NS	Outfall was about 3/4 submerged. Excessive vegetation, Restricted access to the Outfall
Q-117-02	05/19/2026	10:47	Carosel Station Condominiums-301 Byberry Rd.	0"	NF	300.00	0.42	Outfall under culvert, Flow was significant, Chlorine Residue 0.09, Fingerlings swimming in the stream.
P-105-09	06/02/2026	09:00	SE of Grant Ave. & Blue Grass Rd.	21"	0.15	488.40	0.08	Path is overgrown, cannot get to outfall. Flow observed coming from the culvert. Concrete Structure on opposite side of the street leading to culvert cracked. Slight sudsing observed. Chlorine = 0.017mg/L Pink color change.
P-105-10	06/02/2026	09:00	SE of Grant Ave. & Blue Grass Rd.	24"	0.15	NS	NS	Path to outfall is overgrown. Outfall concrete structure is cracked/broken. Observed manhole P-105-10-0020, flow was shallow, not enough to get a sample.
W-067-01	06/02/2026	10:10	NE of Gorgas Lane & Lawnton St.	0"	44	NS	NS	Accompanied by John Hickey. Brown algae in plunge pool. Fluoride and fecal coliform samples collected and taken to BLS for analysis. Field kit Chlorine =0.10ppm. Flow method =Bucket (stopwatch used to see how long it took to fill the bucket)
W-067-01	06/03/2026	10:10	NE of Gorgas Lane & Lawnton St.	0"	NF	2820.00	0.10	
Q-101-04	06/05/2026	08:00	NE of Pearson Ave. & Crispin St.	42"	NF	NS	NS	Observed from above the outfall and from manhole Q-101-04-0010. No active flow was seen. However, there is a plunge pool where heavy scum, algae, bugs, fish and golf balls were seen. There was an odor.
Q-101-05	06/08/2026	08:30	E. of Grant & Fordham Rd.	54"	NF	NS	NS	Visited site with TB. No access to outfall from Grant Ave nor surrounding area. Observation was made from Bridge above outfall. Flow was observed from the outfall. Manhole Q-101-05-0010 was checked, very little flow observed-not enough to get a sample. Manhole Q-101-05-0075 was checked, moderate flow was seen. However, a sample was not taken since the manholes don't combine before reaching the outfall.

P-091-06	06/08/2026	09:30	W. of Holme & Winchester Aves.	0"	NR	NS	NS	Visited site with TB, flow was observed coming from the outfall, water level was too high to reach the outfall via foot even with waders, outfall was inaccessible. Manhole P-091-06 -0015 was checked, moderate flow was observed using a flashlight to look through hole in the cover, however we could not open the manhole.
P-091-07	06/08/2026	09:30	W. of Holme & Winchester Aves.	54"	NF	NS	NS	Visited site with TB, outfall was partially submerged at time of inspection so flow could not be seen. Manhole P-091-07 -0015 was checked, trickle flow was observed, not enough to get a sample.
Q-115-01	06/09/2026	10:11	NE of Dunks Ferry & Secane Rds.	54"	15	NS	NS	Initially observed 5/5/26. Returned w/ Bridgette Campbell for samples.
Q-101-09	06/09/2026	11:08	E. of Ditman & Edens Sts. (4611 Eden St)	0"	10	290900.00	0.53	3 closest stormwater manholes dry. 0.01 mg/L Cl2.
Q-102-04	06/17/2026	09:52	N. of Grant Ave. & James St.	30"	NF	NS	NS	Dry.
Q-114-15	06/17/2026	10:54	NE. of Roosevelt Blvd. & Bennett Rd.	30"	NF	NS	NS	Dry.
Q-114-16	06/17/2026	10:55	NE of Roosevelt Blvd. & Bennett Rd.	30"	NF	NS	NS	Damp.
Q-115-19	06/17/2026	11:35	NE of Dunksferry & Mechanicsville	30"	NF	547.50	0.25	Clear. 0.01 mg/L Cl2.

PHILADELPHIA WATER DEPARTMENT

Table 3
DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties				
Address	**Outfall Code**	**Complete Date**	**Admin Action**	**Comment**
5905 Weymouth St	T-080-02	12/13/2025		
5912 Weymouth St	T-080-02	12/06/2025		
5928 Weymouth St	T-080-02	12/02/2025		
238 Parker Ave	S-059-01	09/10/2025		
240 Parker Ave	S-059-01	09/18/2025		
8009 Elberon Ave	P-090-02	03/15/2025		
5905 Newtown Ave	T-080-02	03/08/2025		
7949 Ridge Ave	W-076-13	03/12/2025		
3331 Sheffield Ave	P-091-08	05/03/2025		
1819 Fox Chase Rd	P-099-03	06/22/2024		
1920 Afton St	P-090-02	04/13/2024		
1902 Afton St	P-090-02	02/27/2024		
2124 Afton St	P-090-02	02/23/2024		
7714 Matthias St	W-076-13	10/04/2023		
5801 Newtown Ave	T-080-03	09/05/2023		
5836 Weymouth St	T-080-03	11/18/2023		
5822 Newtown Ave	T-080-03	06/24/2023		
5830 Newtown Ave	T-080-03	08/05/2023		
5833 Reach St	T-080-03	08/19/2023		
5839 Weymouth St	T-080-03	07/31/2023		
5843 Weymouth St	T-080-03	07/29/2023		
5848 Weymouth St	T-080-03	08/03/2023		
101 E Mermaid La	W-086-01	02/13/2023		
2216 Emerson St	P-091-06	03/22/2021		
3617 Midvale Ave	S-052-04	06/02/2021		
2128 Emerson St	P-091-06	10/24/2020		
2320 Benson St	P-091-06	01/06/2020		
1441 E Hunting Park Ave	R18	02/29/2020		
2623 W Allegheny Ave	S-046-06	10/05/2019		
4014 Castor Ave	R18	10/08/2019		
4024 Castor Ave	R18	09/17/2019		
1431 E Lycoming St	R18	11/02/2019		

PHILADELPHIA WATER DEPARTMENT

DEFECTIVE LATERAL SYSTEM
NOD - Over 120 Days Report

Status of Properties

Address	Outfall Code	Complete Date	Admin Action	Comment
4143 M St	R18	09/21/2019		
1409 E Lycoming St	R18	08/13/2019		
1447 E Lycoming St	R18	08/26/2019		
4122 Markland St	R18	08/05/2019		
4245 Ormond St	R18	06/08/2019		
4219 Castor Ave	R18	05/02/2019		
3023 Comly Rd	Q-110-09	03/12/2019		
4249 Neilson St	R18	05/04/2019		
4250 Neilson St	R18	04/25/2019		
3454 W Penn St	S-052-04	10/24/2018		
4456 Riverview La	S-052-03	09/26/2018		
3469 W Queen La	S-052-04	07/17/2018		
3317 W Penn St	S-052-04	06/02/2018		
3340 W Penn St	S-052-04	03/03/2018		
3425 Conrad St	S-052-04	03/01/2018		
3424 W Penn St	S-052-04	02/17/2018		
220 Rock St	S-052-05	08/19/2016		

Table 4
Spills to Storm Sewers and/or Receiving Waters
April 1, 2026 to June 30, 2026

Date	Outfall	Address	Source Code	Material Involved	Completion Date	Remarks
4/10/2026	Q-101-19	4611 Eden St.	3011	Sewage	N/A	Discoloration of stream water noted at the outfall during dry weather.
4/14/2026	P-113-04	10763 Bustleton Ave.	3008	Sewage	4/14/2026	A slight sanitary sewer choke was found and cleared by a flusher. No signs of discharge into the storm sewer were found. The area was cleaned up by WRT.
5/13/2026	W-067-05	6200 Lawnton St.	3009	Sewage	N/A	Sewage deposits without active discharge found in storm sewer.
5/27/2026	Q-110-07	Academy Rd. and Chalfont Dr.	3011	Sewage	5/27/2026	A blockage in the sanitary sewer caused by grease buildup. A flusher was used to open the sanitary sewer and relieve the choke, stopping the spill to the stream. Area was cleaned up by WRT.
6/3/2026	Q-107-02	12012 Knights Rd.	3009	Sewage	6/3/2026	A blockage in the sanitary sewer caused by grease buildup. A flusher was used to open the sanitary sewer and relieve the choke, stopping the spill to the storm sewer. Area was cleaned up by WRT.
6/9/2026	Q-109-07	Haldeman Ave. and Barlow St.	3009	Sewage	6/9/2026	A blockage in the sanitary sewer caused by grease buildup. A flusher was used to open the sanitary sewer and relieve the choke, stopping the spill to the storm sewer. Area was cleaned up by WRT.
6/10/2026	Q-115-01	12345 Dunks Ferry Rd.	3009	Sewage	6/10/2026	A blockage in the sanitary sewer caused by grease buildup. A flusher was used to open the sanitary sewer and relieve the choke, stopping the spill to the storm sewer. Area was cleaned up by WRT.
6/19/2026	D-092-05	9200 N Delaware Ave.	3008	Sewage	6/19/2026	Crew found sewage overtopping a manhole and spilling onto pavement due to a blockage. No sewage went into the storm sewer. A flusher was used to clear the blockage, and the pavement was disinfected.

Source Codes:

3008 - Spill to Ground Only
3009 - Spill to Storm Sewer
3010 - Spill to Sanitary Sewer
3011 - Spill to Receiving Stream

Appendix O – Ecological Restoration Projects

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
Status: **Complete**		
Saylor Grove	150 acres	• First stormwater wetland constructed by PWD in the fall of 2005. The one-acre wetland treats ~70 million gallons of urban stormwater a year before it reaches the Monoshone Creek. • This project is now monitored regularly through a formal inspection protocol. Monitoring efforts at this site are now included in the Wissahickon TMDL monitoring efforts • Maintenance dredging occurred in the Fall 2020.
Cathedral Run Stormwater Wetland	90 acres	• Cathedral Run Wetland is a stormwater management facility that is about an acre in area and treats ~90 acres of drainage area. • The wetland removes sediment and nutrients from storm runoff while helping reduce the peak volume reaching Cathedral Run and Wissahickon Creek. • Maintenance dredging and replanting was conducted in Fall 2021.
Marshall Road Stream Restoration	900 feet	• Goal was to stabilize an exposed section of the Cobbs Creek Interceptor. • Through funding from a Growing Greener Grant in 2003, PWD embarked on full scale stream restoration design to stabilize the 900 ft segment of the Creek. • Construction was completed in 2006. • PWD has maintained an active role in seasonal and annual monitoring of the restoration site and continually evaluates the long-term success of the project.
Whitaker Ave Stream Restoration	2200 feet	• 2,200-foot stretch of the Tacony Creek main stem that begins 500 feet downstream of the Whitaker Avenue bridge and ends about 800 feet upstream of the Fishers Lane bridge. • PWD, in partnership with the USACE – Philadelphia District, bid and constructed this project which was completed in November 2010. • PWD began its monitoring program at this site in spring 2011.
Indian Creek CSO Storage and Daylighting	2100 feet	• Located within the Cobbs Creek Watershed at the confluence of the East and West branches of Indian Creek in Morris Park, Philadelphia, Pennsylvania. • Included the construction of a new stream channel by removing approximately 700 ft. of the West Branch Indian Creek from a brick culvert. Also included bank stabilization of the existing creek and the associated forested riparian buffer around the new channel. The new stream channel reconnects the West Branch to the East Branch of Indian Creek.

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
		• The existing brick culvert was converted into temporary storage for Combined Sewer Overflow (CSO) during wet weather events reducing the total CSO discharges into the Cobbs Creek Watershed. Estimated removal of approximately 2 million gallons of combined sewage discharge to Indian Creek annually.
Wises Mill Stream Restoration	1000 feet	• 1st/2nd order tributary to the Wissahickon Creek • Stream was fully assessed and determined to be a significant source of sediment to Wissahickon Creek through bank erosion and sediment transport processes. • The project is currently in the project monitoring phase.
Bells Mill Stream Restoration	5100 feet	• This 2nd order tributary to the Wissahickon Creek arises from an outfall near the intersection of Lykens Lane and Bells Mill Roads. It then travels through a wooded area parallel to Bells Mill Road for approximately 5,100 ft before reaching the confluence with the Wissahickon Creek. • Energy dissipating structures such as rock vanes and channel-spanning boulder step structures were installed. • Follow up maintenance activities were performed in 2014.
Gorgas Run Stream Restoration	2100 feet	• Gorgas Run is a steep headwater tributary to the Wissahickon Creek with a drainage area of 499 acres. • High peak stormwater flows have severely degraded Gorgas Run • PWD used NSCD principles to restore the 1,800 feet of stream channel that encompasses Gorgas Run and another 300 feet of tributary to Gorgas Run. • Rehabilitation of the stream corridor included in-stream stabilization structures, repairs and protection for PWD and Fairmount Park infrastructure, stabilization of stormwater gullies below Henry Avenue and park trail enhancements.
Wissahickon Creek Ridge Ave 2nd Dam	200 feet	• Bank restoration around exposed manhole at the dam on Wissahickon Creek upstream of the Ridge Ave culvert. • The project restored approximately 200 feet of stream bank.
Paul's Run Stream Restoration	500 feet	• Approximately 350 feet of stream restoration along Paul's Run, tributary to Pennypack Creek to protect an exposed sanitary sewer and stabilize the stream channel.
Wises Mill Wetland	92 acres	• System of 3 stormwater wetlands with total surface area of approximately 2 acres • Manages stormwater from a 92-acre drainage area. • PWD monitoring sediment accumulation and vegetation within the wetlands.

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
		• PWD has conducted site maintenance recently including construction of an armored channel between the wetlands to fix gully erosion, repairs to a berm that separates the wetland from the Wises Mill Run stream channel, and installation of a larger outlet inflow pipe for proper drainage of the wetlands.
Carpenters Woods	600 feet	• Project addressed significant gully erosion downstream of 3 outfalls. • Included construction of channel bed armoring, bank revetments, and vegetation to stabilize the channels and enhance the forest off Mount Pleasant Rd in northwest Philadelphia.
Cathedral Run Stream Restoration	300 feet	• The culvert below Forbidden Drive trail had become clogged with debris and the banks upstream of the structure had eroded and bed downgraded. • The project constructed bank and bed stabilization structures in the area just upstream of the culvert
Rex Ave	300 feet	• Project included stabilization of a portion of the stream channel parallel to Rex Avenue.
Cresheim Creek St. Martins	450 feet	• Construction of 3 grade control structures (cross-vanes) and bank revetments on both sides of the stream channel below the pedestrian bridge off St. Martins Road. • Stream work was conducted in conjunction with a bridge and sewer replacement.
Hartwell Lane	300 feet	• Restoration of the stream channel upstream of a culvert structure that conveys PWD's Wissahickon High Level Interceptor. • Includes 3 cross vanes for grade control and bank revetments on both sides of Hartwell Run. • Bank revetments and scour protection downstream of the culvert. • Masonry repairs were made to the culvert structures.
Cresheim Creek Interceptor and Outfall	200 feet	• Project goals include reconfiguration of the intercepting sewer crossing between the two culverts near Woodbrook Lane, replacement of a deteriorated outfall, and installation of bank stabilization and grade control features in the stream channel. • Construction was substantially completed in FY23.
Millbourne Cobbs Creek Bank Stabilization	500 feet	• The project goals include protection of a 3'-6" brick sewer exposed near the channel downstream of Millbourne Dam and stabilization of two separate portions of the downstream left side of Cobbs Creek. • The design includes concrete encasement and boulder toe revetments to protect the existing brick sewer and the access roadway, replacement of an undersized and collapsed corrugated metal pipe with a larger RCP culvert, and removal of the compromised stormwater conduit to promote proper drainage beneath the sewer maintenance access road. • Construction was substantially completed in FY23.

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
Cardone Outfall Bank Stabilization at Rock Run	350 feet	• A stormwater outfall owned by the adjacent Cardone Factory and draining its parking lot has been collapsing into the stream due in part to its location directly across from the Rock Run regulator. • The regulator's flows have also resulted in about 70 LF of active bank erosion downstream of the outfall. • This project aims to stabilize the outfall structure, protect the eroded bank with a new boulder wall tying in to an existing bank stabilization, and enhance the stream channel upstream of the outfall using an engineered riffle with riprap bank protection.
Park Line Dr Interceptor - Gorgas Chute and Outfall	250 feet	• Project work is to occur across three sites. • Site 1 includes stabilization and structural repairs to the interceptor crossing and installation of a plunge pool and stream bank stabilization structures at the sewer crossing down the trail from the intersection of Park Line Dr and Hortter St. • Site 2 includes repairs to the concrete chute that conveys storm runoff flows to Gorgas Run from the outfall near Fountain St. • Site 3 includes the installation of new pipe from the collapsed outfall off of Henry Ave that has created a large gully crossing the Yellow Trail and a new outfall structure discharging under the trail into Gorgas Run.
Flat Rock Dam Flow Diversion	TBD	• Project goals include improving flow to the Manayunk Canal by effectively diverting more flow through the canal and remove the dam designation from the City owned portion of the dam. • Work associated with the project is focused on the headworks of the Manayunk Canal but will improve conditions along length of the canal.
Status: **In Construction**		
Mount Moriah Streambank and Cobbs Creek Interceptor Stabilization	500 feet	• Located along Cobbs Creek in the area adjacent to Mt. Moriah Cemetery, about 350 ft of a 5'-0" brick interceptor and its manholes are exposed along the left bank in multiple areas of the reach. • Work will focus on protecting the sewer in-place using bank protection structures while also employing stream restoration principles to optimize the compromised flow pattern through the three bridges.
Benton Brook Stream Restoration	1200 feet	• The project will address streambank erosion and exposed infrastructure along Benton Brook in the Pennypack Creek Watershed.
Sandy Run Stream Restoration, Infrastructure Protection and Stormwater Wetland	1500 feet	• The objective of the design will relocate a sewer crossing downstream of the Ryan Avenue Bridge and include related stream restoration elements such as floodplain reconnection.
Status: **In Design**		

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
Cresheim Creek Outlet Tunnel	300 feet	• The end of the culvert tunnel has degraded and the stream banks and bed around the culvert have significantly eroded. The erosion has exposed a 36-inch water main that was previously in the bank next to the culvert. The water main passes through the culvert, creating blockage for water flow through the culvert. • The project will relocate the water main below the culvert, repair and/or rebuild storm and sanitary infrastructure, and stabilize stream banks downstream of the culvert exit.
Neill Drive Stream Corridor Restoration	1600 feet	• The stream channel parallels sewer gravity and force mains and is deeply entrenched and eroding. There is a significant amount of exposed and vulnerable PWD infrastructure including sanitary sewers, a sanitary force main, a water main crossing, and damaged stormwater outfalls. • The project will protect the vital infrastructure and stabilize eroding streambanks and streambed.
Pennypack Corridor Improvement Project at Holme Ave	1500 feet	• Two sanitary sewer crossings are exposed in the mainstem of the Pennypack Creek between Holme Ave and Axe Factory Run. Increased widening and downcutting of the channel over time has destabilized the banks and stranded a manhole. • Project design consists of installing grade control measures to protect the assets in-place, removing the manhole, stabilizing banks to prevent further erosion and widening, and increasing floodplain connectivity along this reach to the maximum extents possible.
Roosevelt Blvd Dam Removal	1000 feet	• This project will lower the existing dam by 4 feet and stabilize the walls protecting the trail by installing bank protection measures. • Periodic flooding and erosion of the adjacent Pennypack Trail surface will be reduced through the lowering of the dam crest elevation. • A culvert conveying a tributary will be repaired as it has collapsed and is causing further damage on the trail. • A rock ramp will be constructed to promote fish passage.
Tacony Creek - Reach 6 (Juniata Dam Removal)	1000 feet	• Project will improve water quality and aquatic habitat and provide fish passage. • The Juniata dam is on the Tacony Creek, approximately 700-feet upstream from the Castor Ave. bridge. The dam is in good condition however, much of the upstream impoundment was filled by sediment. • The combination of the reduced flow velocity and nutrient-rich sediment supply are suspected of reducing the available dissolved oxygen in the water column. • The height of the dam also presents a complete barrier to fish passage during the majority of flow conditions.

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
Tacony Creek – Reaches 4-5	1700 feet	• This project entails the restoration of Tacony Creek Reaches 4 and 5 as identified by the Tacony Creek Restoration and Ecosystem Enhancement Program, 4/28/2010. • Objective: restore ~1700 feet of stream channel, enhancement of floodplain wetlands, improvement of the riparian buffer, and the completion of a paved Fairmount Park trail connection from Tabor Road to I and Ramona Sts • This project will connect with the existing Whitaker Avenue stream rehabilitation project.
East Branch Indian Creek Stream Restoration and Infrastructure Protection	TBD	• Project will address areas of significant bank erosion and protect critical riparian sewer infrastructure • Aquatic habitat will be improved through reduced sedimentation of the creek bed
Pennypack Outfalls at Upstream Rhawn Crossing	1200 feet	• Project will address areas of significant erosion downstream of three outfalls and protect critical riparian sewer infrastructure • Aquatic habitat will be improved through reduced sedimentation of the creek bed
Outfall Stabilization at Ryerson Road	940 feet	• Project will replace collapsed outfall, apron, and pipe segments, reorient an outfall endwall to ensure the discharge follows the contour slope into the stream channel, protect sewer crossing, and install scour protection.
Sedden's Run Stream Restoration and Infrastructure Protection	2118 feet	• Project will repair outfall endwall and apron, repair, armor, line, and potentially relocate sewer crossing, repair, armor, line, and potentially relocate sewer parallel. • Project will regrade floodplain to allow for easier access for the stream, enhance the stream corridor through armoring and other stabilizing implementations to protect repaired infrastructure and to prevent further scour and erosion and as a preventative measure for the sewer located near the confluence of the mainstem at the meander bend.
Cathedral Run and Kitchen's Lane Outfalls Repair	189 feet	• The project will rehabilitate and replace the existing outfall to address undermining and clogging issues.

Project Name	Stream Length (ft)| Drainage Area (acres)	Description
Byberry Creek Restoration at Red Lion Rd	2965 feet	• The project will address collapsed stormwater outfalls and pipe segments along the stream and include bank stabilization measures to prevent further scour and erosion.
Status: **On Hold**		
Woodland Dam Removal	TBD	• Will investigate, select, design and construct the best alternative to reestablish fish passage along Cobbs Creek. • After selection of a recommended type of fish passage design, concurred by both the Corps and PWD, the project will progress to plans and specifications, and construction contingent on the availability of funds. • During FY24, project stakeholders convened to discuss resuming the project.
Green Tree Run Outfall Stabilization	300 feet	• Objective: stabilize the stream channel around the 54-inch outfall just off Shawmont Ave at Minerva Rd. The gabion baskets have collapsed into the stream channel and the banks continue to erode. • The private property owner signed an easement agreement with Streets when the outfall was originally installed and has complained about the discharge from the outfall causing the erosion of the stream channel.