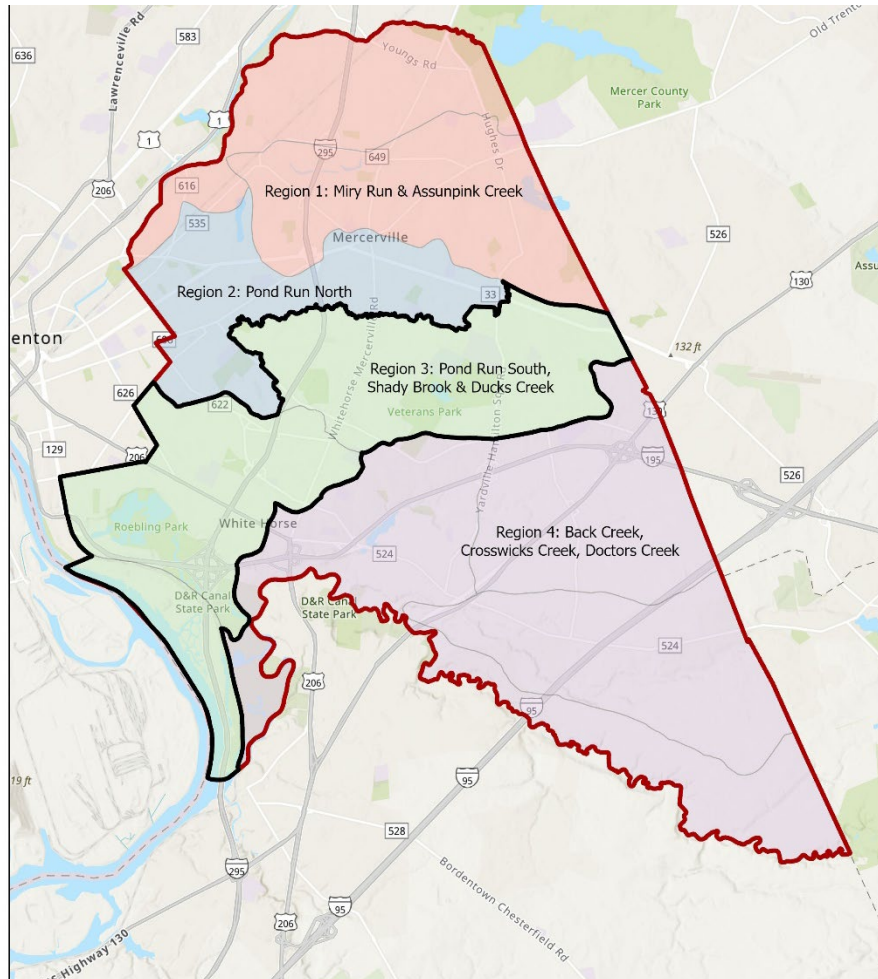




RUTGERS UNIVERSITY
Water Resources Program
New Jersey Agricultural Experiment Station



Hamilton Township (Mercer County)

Stormwater Outfall Assessment Summary

2024: South Pond Run (Region 3)

Developed by the Rutgers Cooperative Extension Water Resources Program
Funded by Hamilton Township, Mercer County, New Jersey
August 21, 2024

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Acknowledgements

The Hamilton Township (Mercer County) Stormwater Outfall Assessment has been produced by the **Rutgers Cooperative Extension (RCE) Water Resources Program**.

Funding for this project was generously provided by the **Township of Hamilton, Mercer County, New Jersey** and in part by the **New Jersey Agricultural Experiment Station** through the United States Department of Agriculture.

Introduction

Hamilton Township, located in Mercer County, New Jersey, owns and operates over 300 stormwater outfalls that drain directly into waterways. This is a summary of the outfall pipe inspection program conducted in 2024. The purpose of the program is to provide an assessment of existing conditions related to stream scouring at stormwater outfall discharge locations in streams and waterways as well as identify potential illicit discharge connections. This assessment evaluates the overall integrity of the outfall structures, erosion caused by the outfalls, and other factors that may identify potential illicit discharges.

The outfalls assessed were previously inspected in 2015, 2017, and 2019. All outfalls that are “owned and operated” by Hamilton Township per the municipal separate storm sewer system (MS4) permit from the New Jersey Department of Environmental Protection (NJDEP) are required to be inspected once every five years. Moving forward, one of four inspection zones will be inspected each year with the fifth year used to find outfalls missed during initial inspection rounds. Region 3 includes the south branch of the Pond Run watershed, Shady Brook watershed, and Ducks Creek watershed within Hamilton Township.

All efforts for this project were for the purpose of inspecting outfall pipes that discharge directly to mapped streams. It was not the intent of this program to be a complete and comprehensive inventory of all stormwater pipes in the municipal separate storm sewer system (MS4), but all effort has been made to identify and inspect those discharging near or directly to streams. The assessments were performed in June 2024 by the Rutgers Cooperative Extension (RCE) Water Resources Program.

Methods and Procedures

A multi-part approach was taken to assess stormwater outfalls that discharge directly to waterways in Hamilton Township. A geographic information system (GIS) was used to visualize the location of mapped outfall locations using existing data. A data collection layer was created using ArcGIS Pro to digitize the inspection forms provided by NJDEP: “Outfall Inspection Form” and “Illicit Connection Inspection Report Form” for easier data collection. Environmental Systems Research Institute’s (ESRI) Field Maps software was used as this

software allows for data collection using smart phones or tablets in the field even if internet connection is unavailable. This collected data can then be easily synced later to the main dataset without having to compile the data. The software allowed staff to photograph, record data, and update the geolocation of each stormwater outfall assessed. This collected data included information about the properties of the outfall (type, size, material, etc.), needs for maintenance or repair of outfall structures, presence of stream scouring, and the potential of an illicit discharge. This collected data was then processed and standardized as needed for consistency across the dataset.

A total of 86 outfalls were located and assessed following 72 hours of no rainfall* in 2024. There were 12 outfalls that were not found or inaccessible that were identified in previous inspection efforts. Of these, eight (8) could not be located, and the remaining four (4) could not be accessed or seen due to water levels in the stream being too high. There were five (5) outfalls from previous inspections that were reassessed as not being outfalls (culverts). There was one (1) outfall removed from the database because two adjacent outfall pipes on the same headwall are considered one outfall point. This leads to an updated total outfall number of 414 outfalls in Hamilton Township, 98 of which are located in Region 3 (i.e., the south branch of the Pond Run subwatershed, the Shady Brook subwatershed, and the Ducks Creek subwatershed).

The outfall ID numbers were also reassigned to align with the stormwater management goals more closely. The previous ID numbers used a grid that is not actively utilized, so an ID that includes the watershed abbreviation was used instead. The outfalls were renumbered with low values upstream and high values downstream. When new outfalls are identified or installed, they will be assigned the next number in the sequence. Outfall IDs will be reassigned each year as each round of inspections is completed to avoid disrupting the numbering scheme in the event outfalls are added or removed.

*Rainfall data from NJDEP's Rainfall Data Acquisition page for stations RA099, RA101, RA103, and RA107. No rainfall was considered if the average rainfall from these stations was 0.01 inch or less.

A prioritization was developed using the field data collected. Priority was given to outfalls that showed significant signs of deterioration, were causing downstream erosion, were unstable due to erosion, or showed signs of illicit connections. All outfalls were placed on a scale from 1 to 5 with 5 being the highest priority and needing immediate attention. Anything that has been assigned a priority level of 3 or higher should have action taken for maintenance or repair.

Summary of Key Findings

The following conclusions were formed after reviewing data for the 86 outfalls assessed. Out of the 86, a total of eight (8) of the assessed outfalls were designated as high priority (4 or 5), 25 were designated as medium priority (3), and 53 were designated as low to no priority (2 or 1). For scouring, three (3) have high, 15 have medium, 19 have low, and 49 have none. Action should be taken for any outfalls with high or medium levels of scour to prevent further erosion. The outfalls with low levels of erosion should be monitored for future issues. For maintenance, there were 17 outfalls in need of significant repair and 48 in need of maintenance either by clearing out sediment or patching cracking portions. For repair, there were five (5) outfalls with major cracking or corrosion in need of significant repair, and 18 with moderate cracking or corrosion and 36 outfalls with minor cracking or corrosion, in need of small repairs.

A total of 17 outfalls were suspected of illicit discharges during the initial investigation. Twelve out of seventeen outfalls will be investigated again during dry weather and sampled where possible to identify if these dry weather flows are potential illicit discharges. The results of the sampling will be summarized in an Illicit Discharge Detection Investigation 2024 report once completed.

Detailed information about each outfall assessed can be found in the Tabular Data section of this document. There are a series of tables highlighting each priority criteria. Summary maps of this information can be found in the [Summary Maps section](#). [The data with images](#) of the outfalls can also be viewed using the web map (<https://go.rutgers.edu/c1vplcv2>). This is presented instead of the individual outfall assessment pages that were provided in previous reports to allow a more interactable version of these pages.

Recommendations

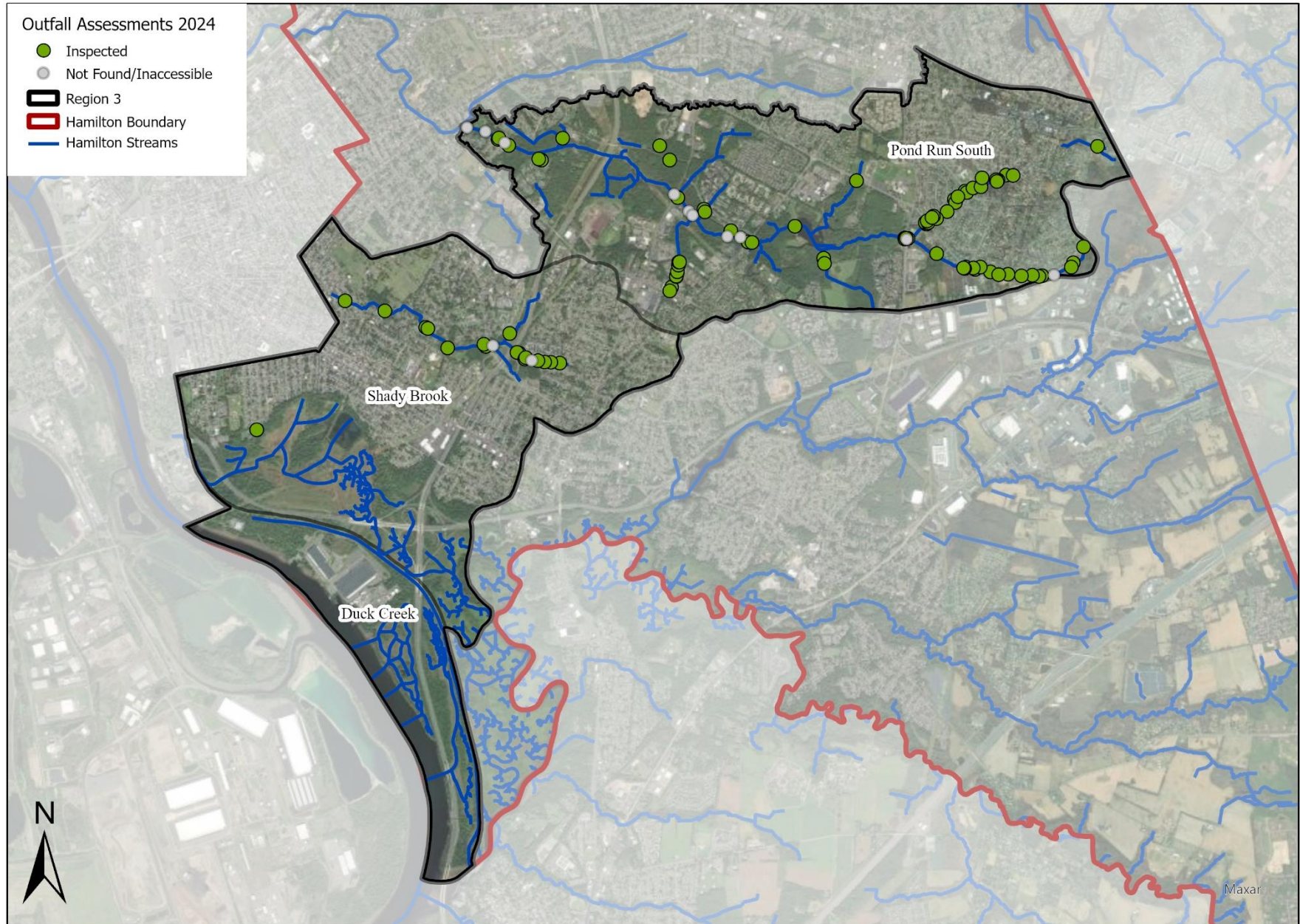
Based on the assessment and summary findings, recommendations are as follows:

1. The eight (8) outfalls identified as high priority should be visited by Hamilton Township personnel, and a plan and schedule should be developed to take the necessary corrective actions as soon as possible.
2. A complete maintenance plan and schedule should be developed for all stormwater outfalls in Region 3 to address the deficiencies noted in this assessment in a timely manner starting with those with highest priority.
3. Each year, subsequent Regions should be inspected (Region 4 in 2025).
4. In the fifth year (2026), effort should be made to inspect outfalls which were not found during the initial round of inspections.

This assessment was not intended to be a complete and comprehensive inventory of all stormwater outfalls in the MS4 system. Efforts for this project focused solely on mapping and inventorying known outfall pipes discharging directly to mapped streams. Other outfalls in the municipal separate storm sewer system (MS4) likely exist and should be identified and added to the database as found.

Attachment 1: Outfall Assessment Maps

2024 Hamilton Township Outfall Inspection Overview: Region 3



Hamilton Outfall Region 3: Overall Priority (Pond Run South)



Overall Priority in Pond Run South (1 of 7)

Hamilton Outfall Region 3: Overall Priority (Pond Run South)

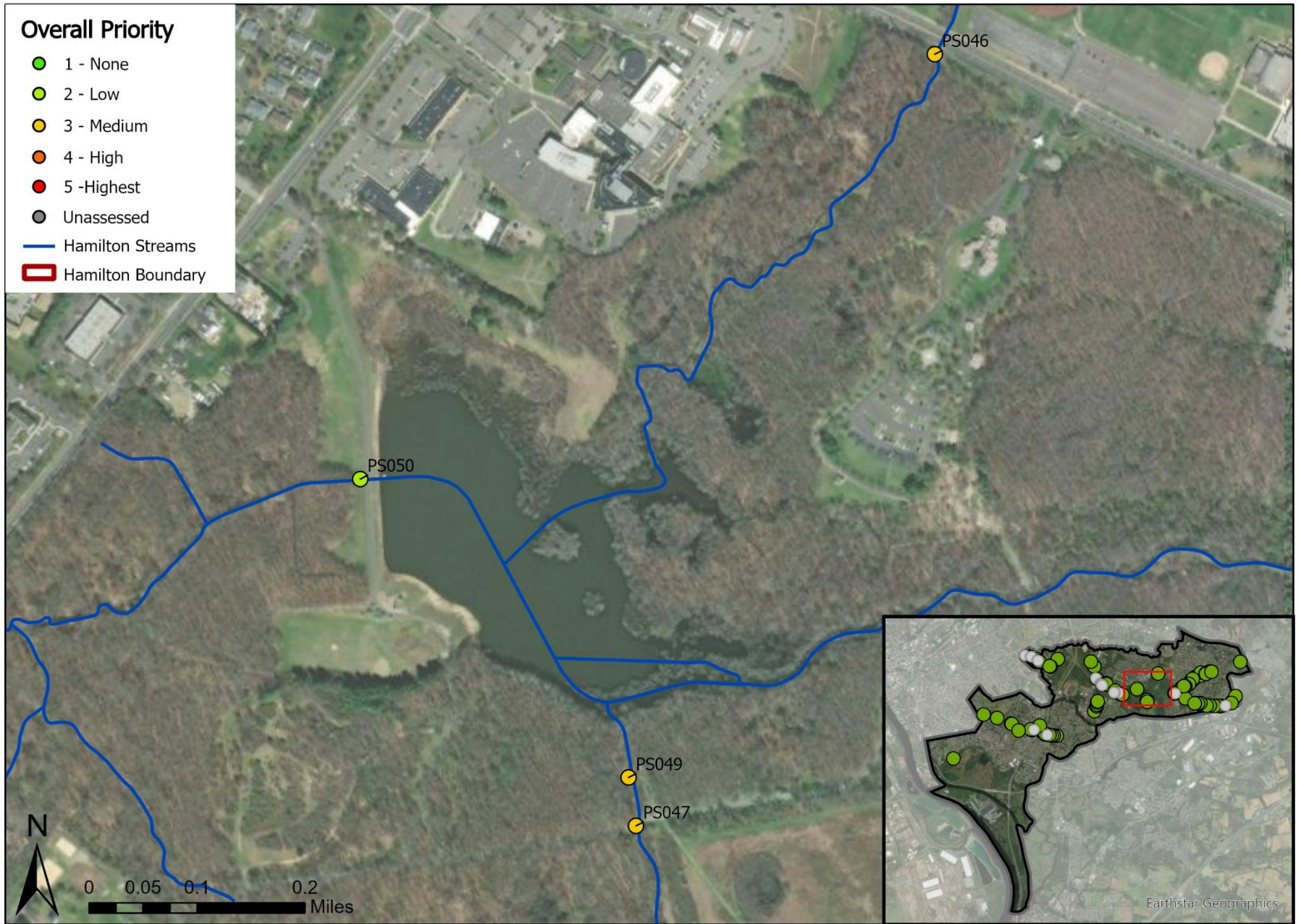


Hamilton Outfall Region 3: Overall Priority (Pond Run South)

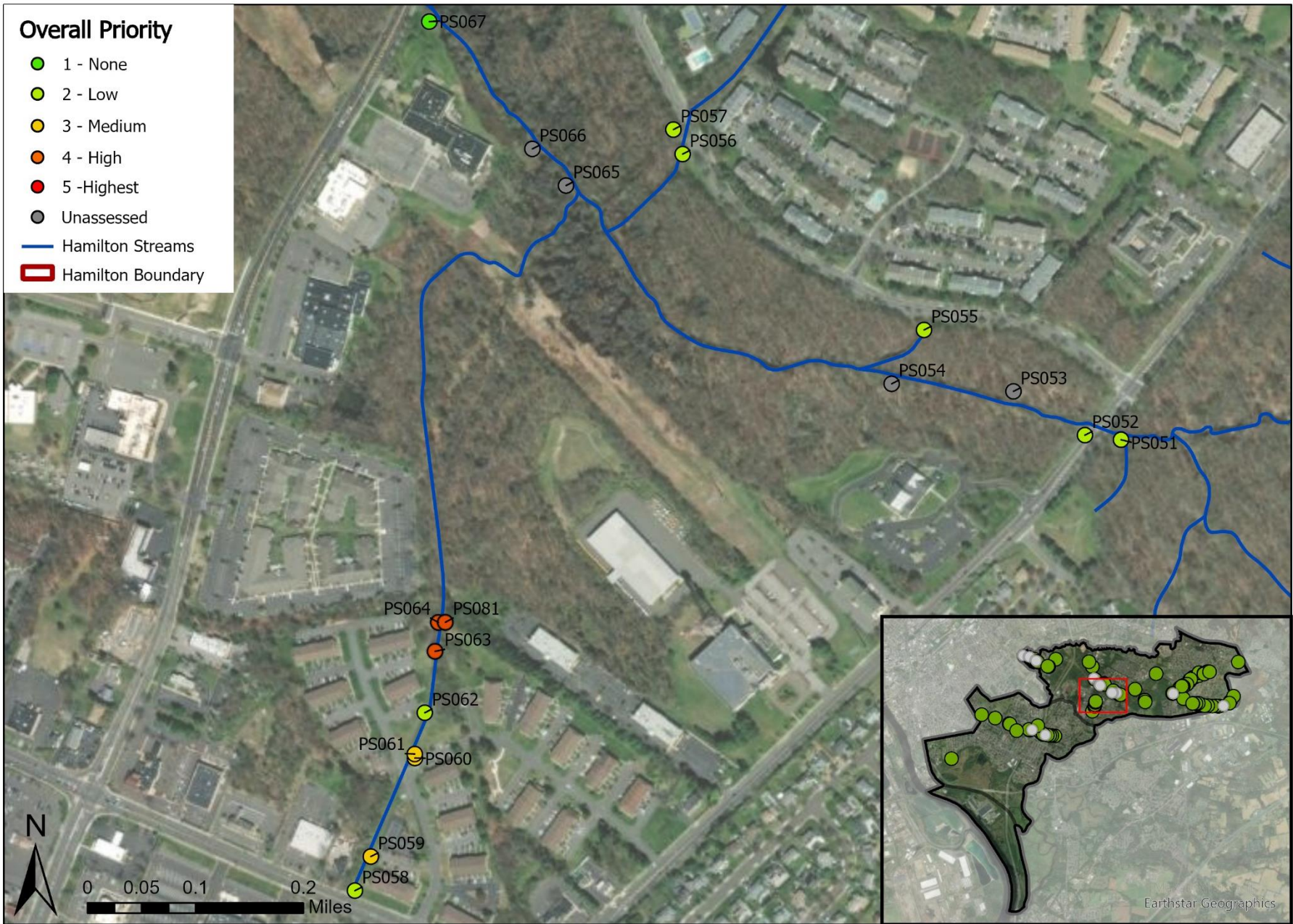


Overall Priority in Pond Run South (3 of 7)

Hamilton Outfall Region 3: Overall Priority (Pond Run South)

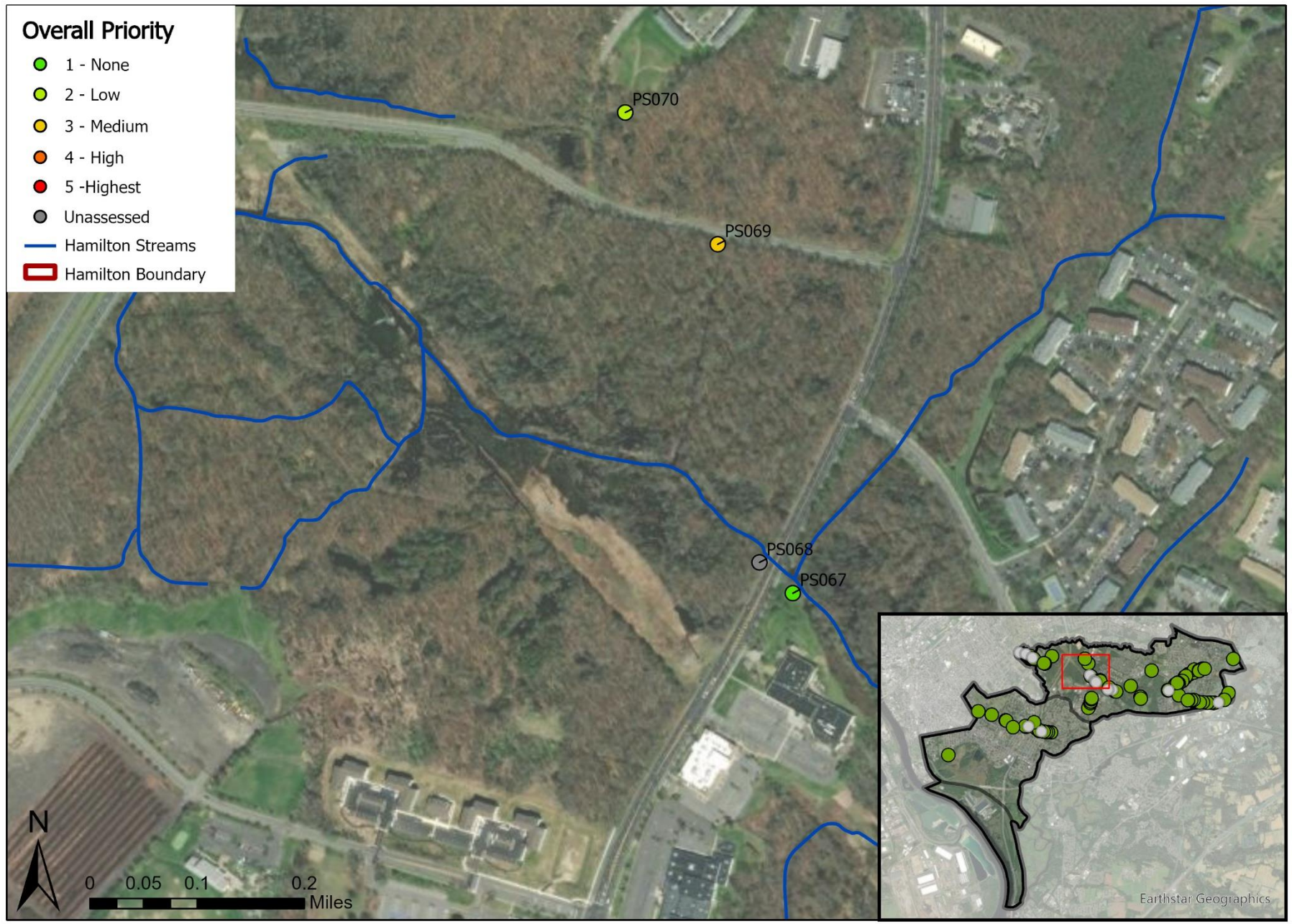


Hamilton Outfall Region 3: Overall Priority (Pond Run South)



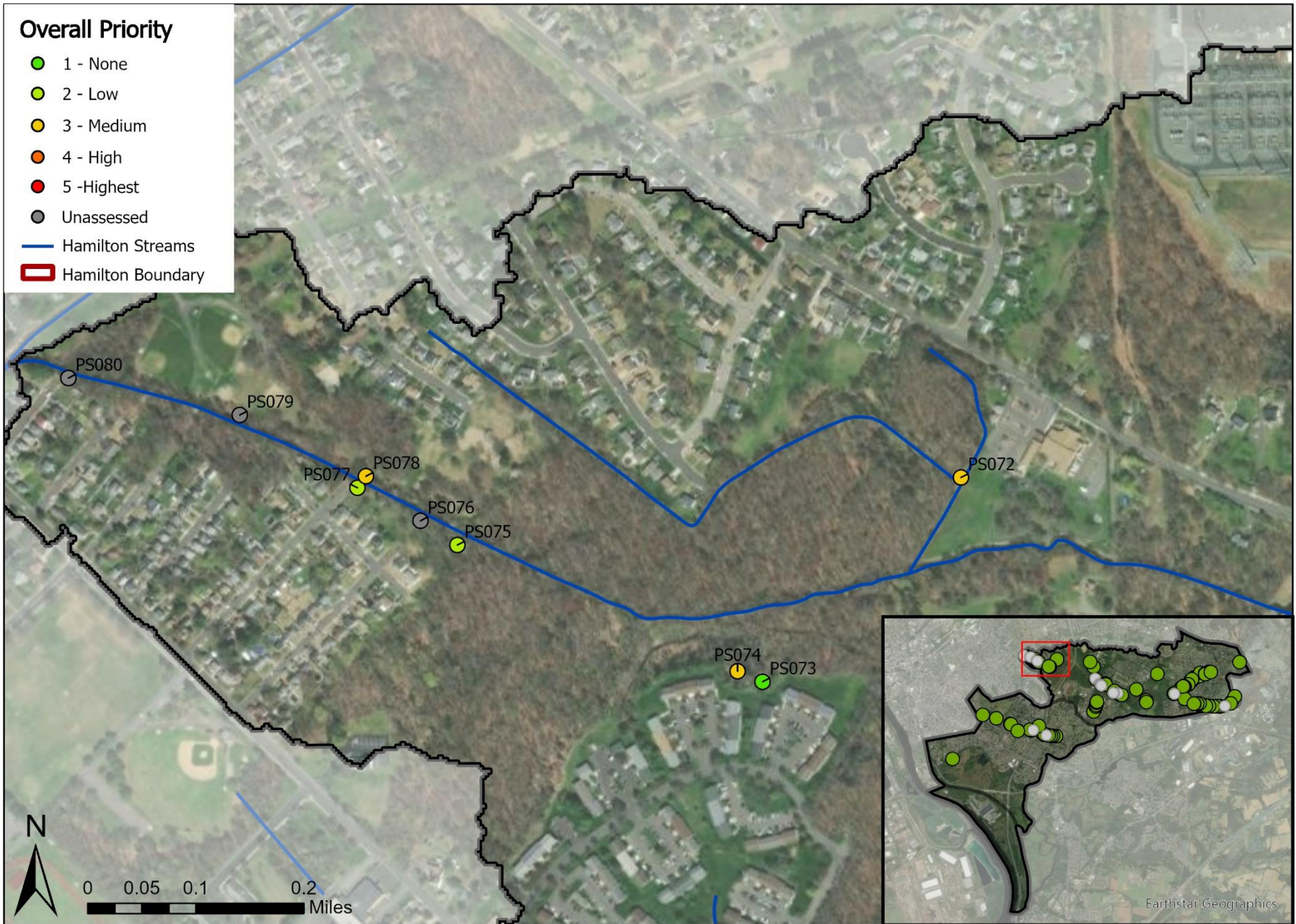
Overall Priority in Pond Run South (5 of 7)

Hamilton Outfall Region 3: Overall Priority (Pond Run South)



Overall Priority in Pond Run South (6 of 7)

Hamilton Outfall Region 3: Overall Priority (Pond Run South)



Overall Priority in Pond Run South (7 of 7)

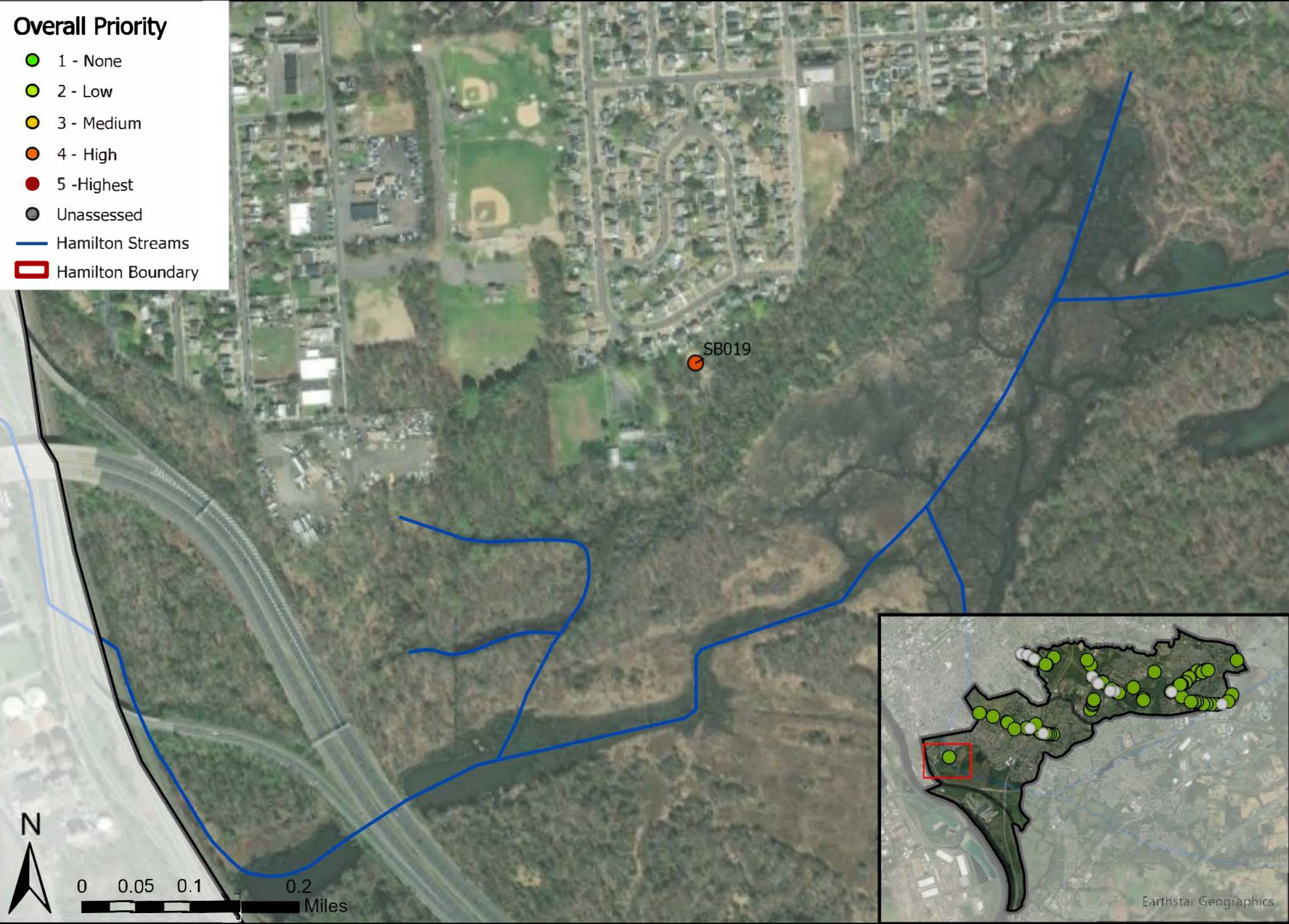
Hamilton Outfall Region 3: Overall Priority (Shady Brook)



Hamilton Outfall Region 3: Overall Priority (Shady Brook)

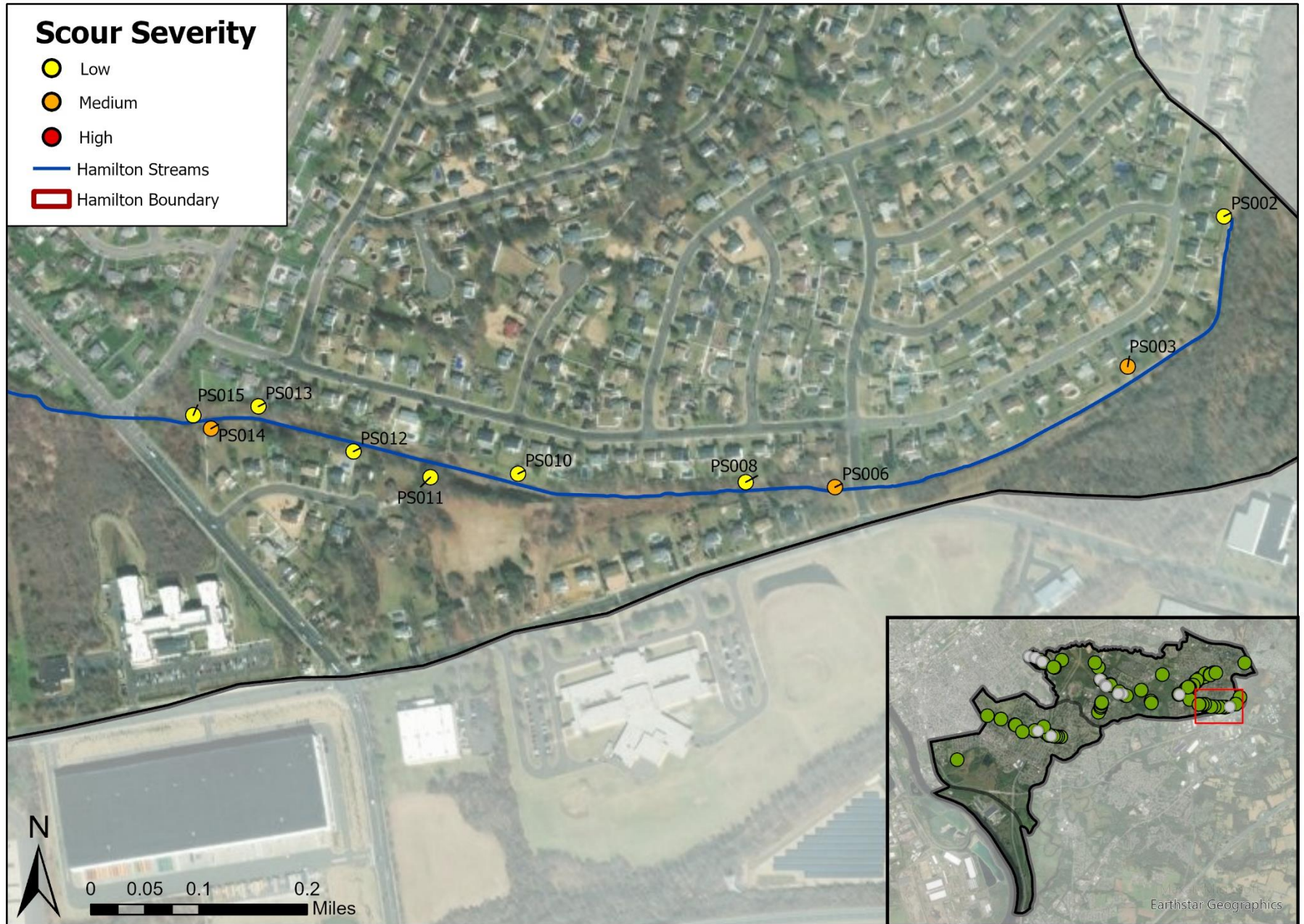


Hamilton Outfall Region 3: Overall Priority (Shady Brook)



Overall Priority in Shady Brook (3 of 3)

Hamilton Outfall Region 3: Erosion (Pond Run South)

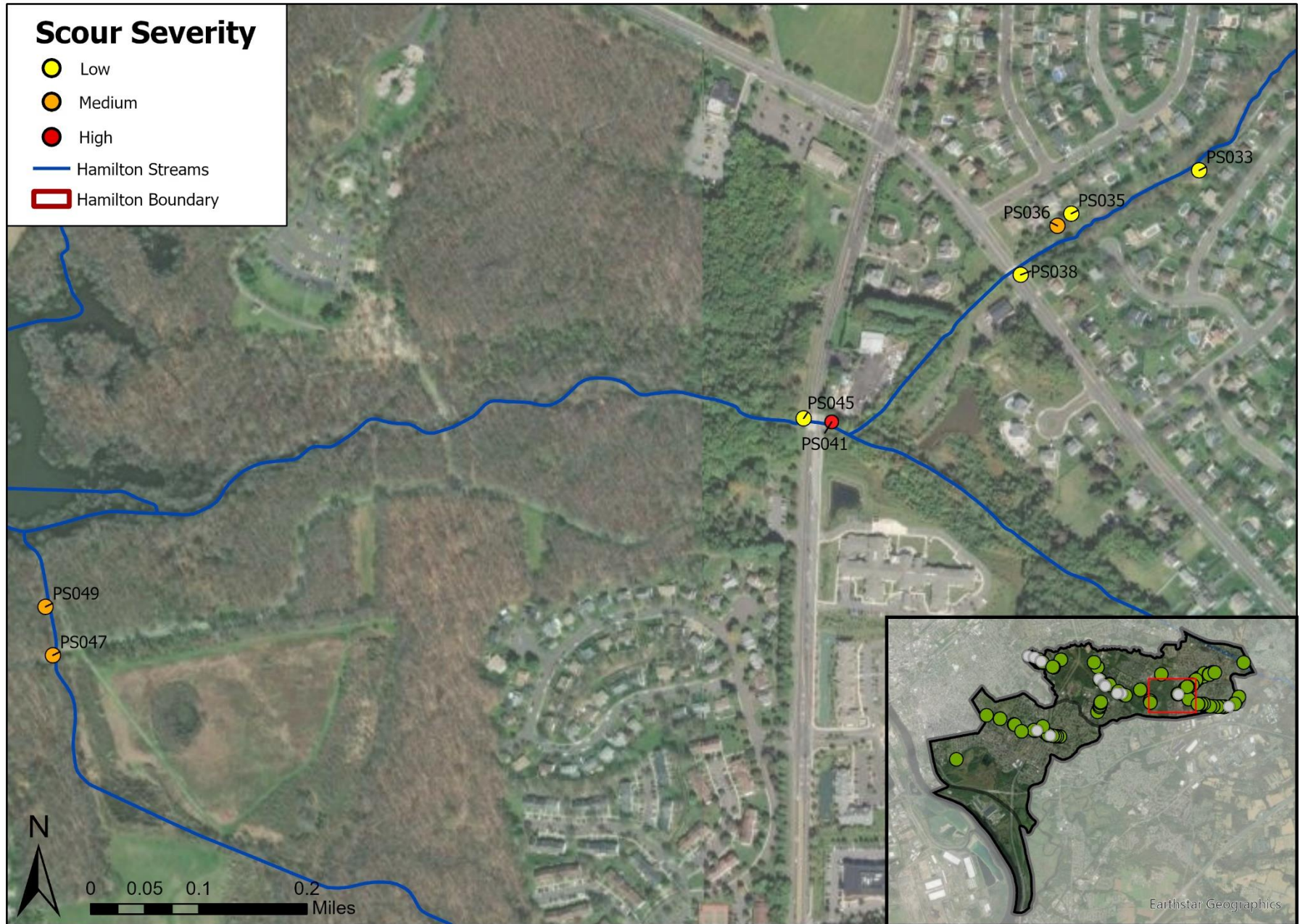


Scour Severity in Pond Run South (1 of 6)

Hamilton Outfall Region 3: Erosion (Pond Run South)



Hamilton Outfall Region 3: Erosion (Pond Run South)



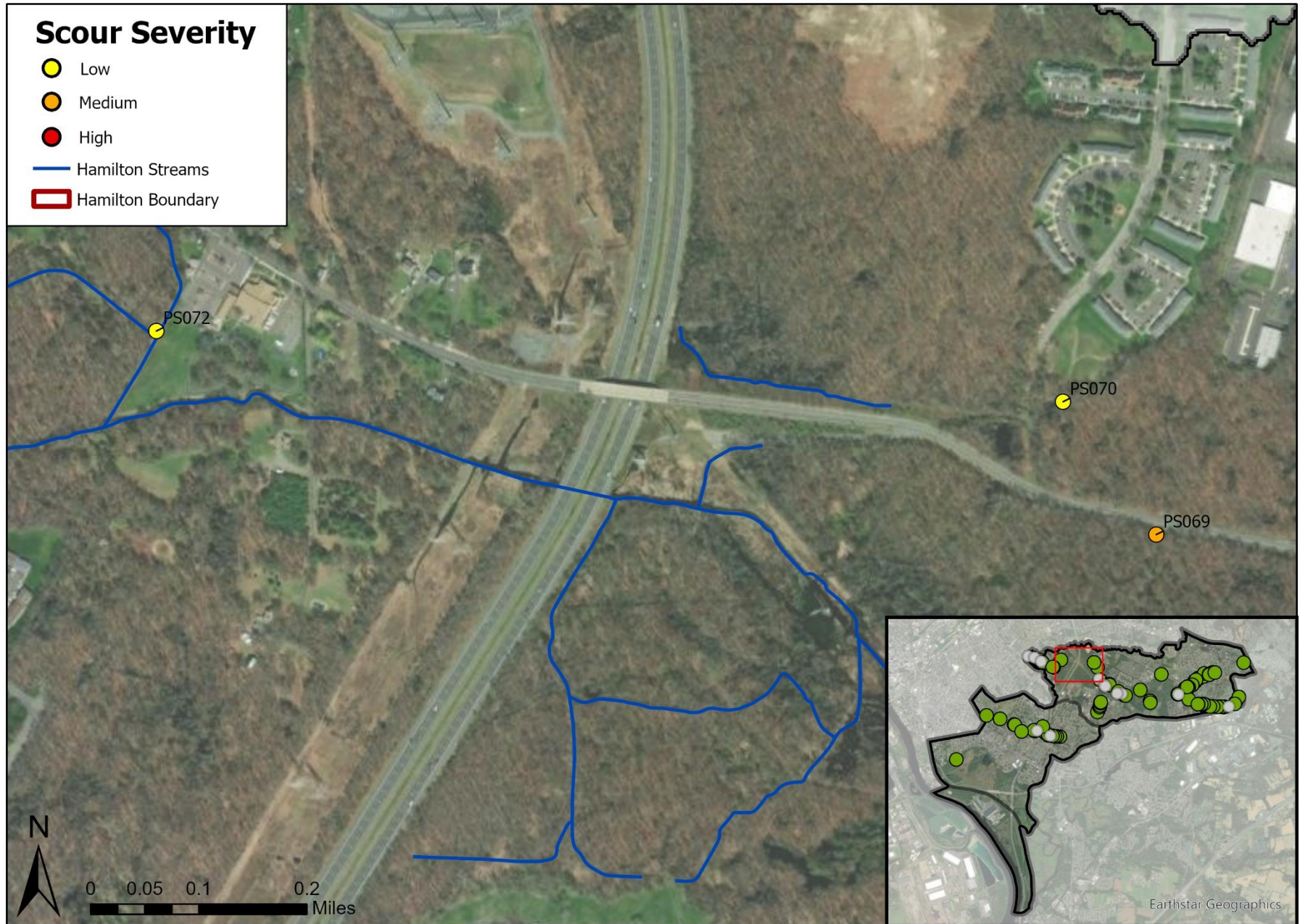
Scour Severity in Pond Run South (3 of 6)

Hamilton Outfall Region 3: Erosion (Pond Run South)



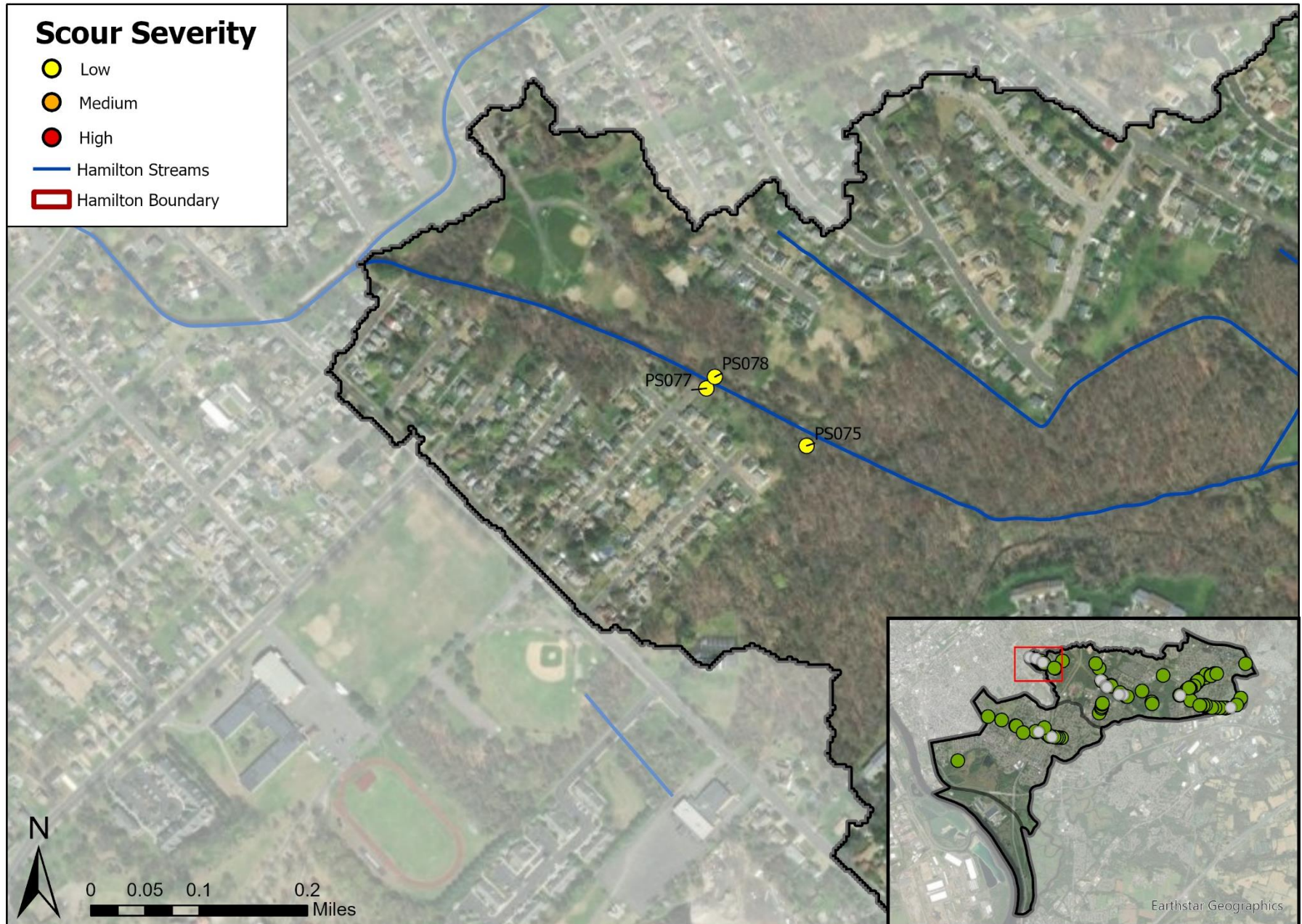
Scour Severity in Pond Run South (4 of 6)

Hamilton Outfall Region 3: Erosion (Pond Run South)



Scour Severity in Pond Run South (5 of 6)

Hamilton Outfall Region 3: Erosion (Pond Run South)



Scour Severity in Pond Run South (6 of 6)

Hamilton Outfall Region 3: Erosion (Shady Brook)



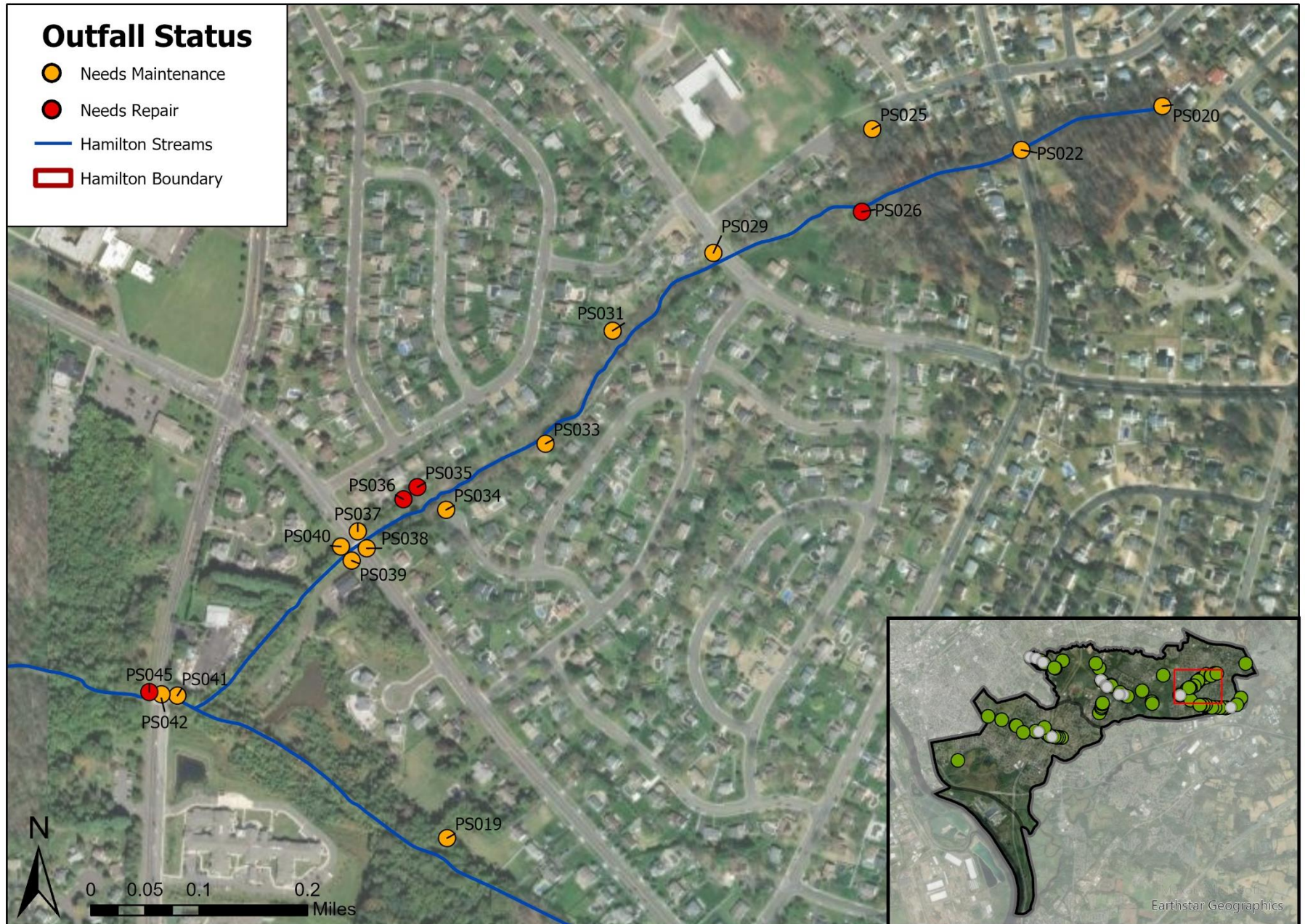
Scour Severity in Shady Brook (1 of 1)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)

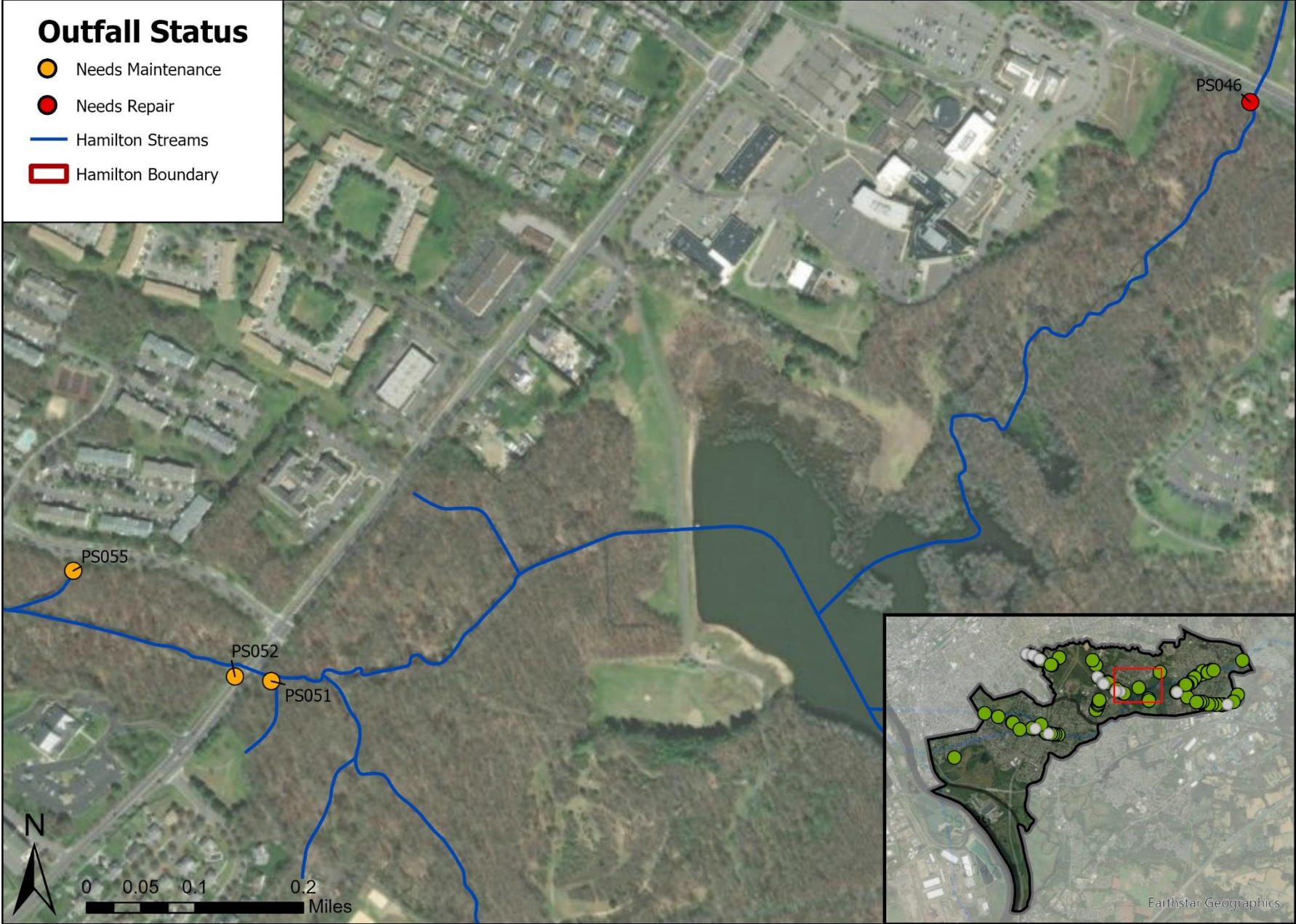


Outfall Status in Pond Run South (1 of 6)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)

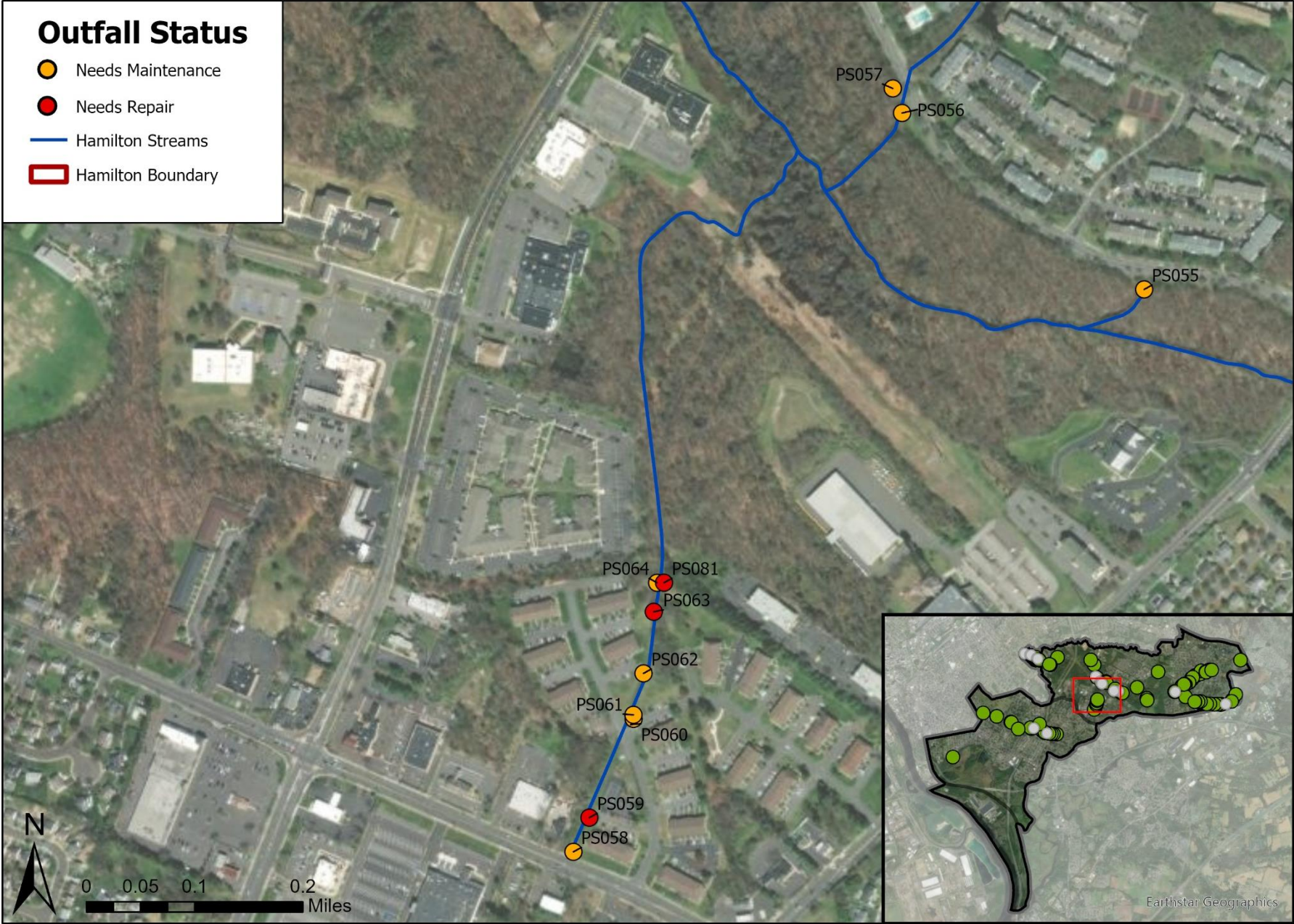


Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)



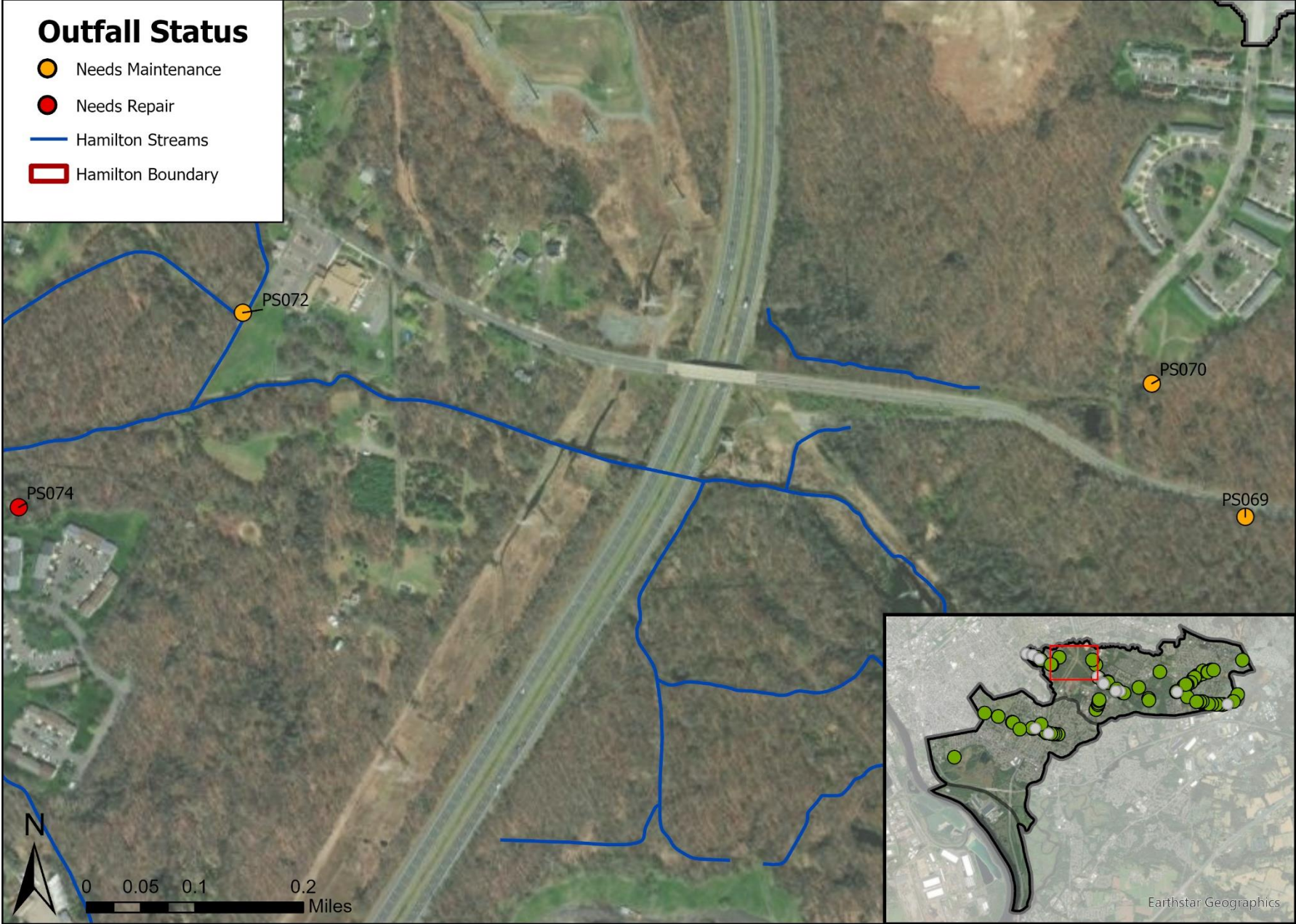
Outfall Status in Pond Run South (3 of 6)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)



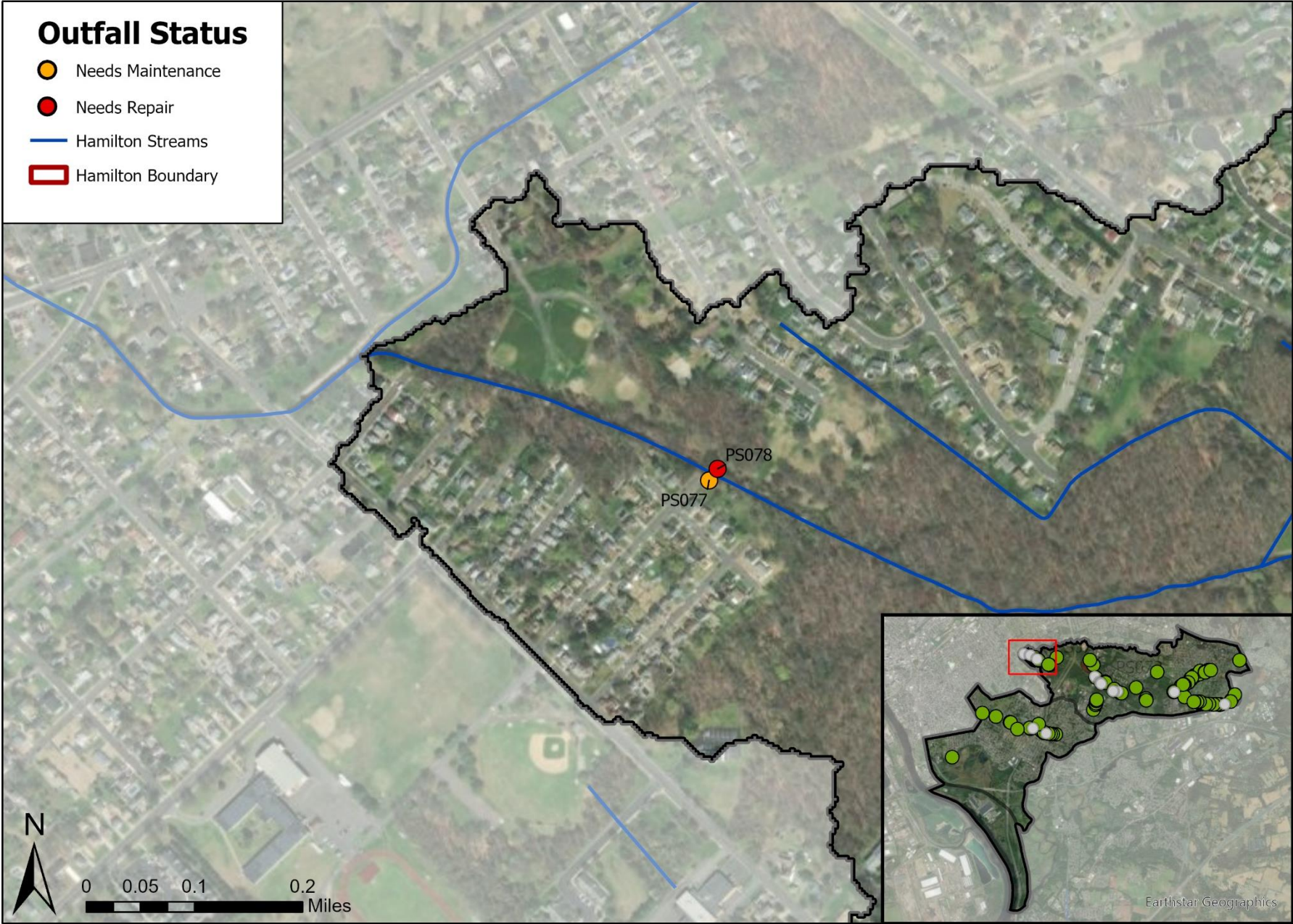
Outfall Status in Pond Run South (4 of 6)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)



Outfall Status in Pond Run South (5 of 6)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Pond Run South)

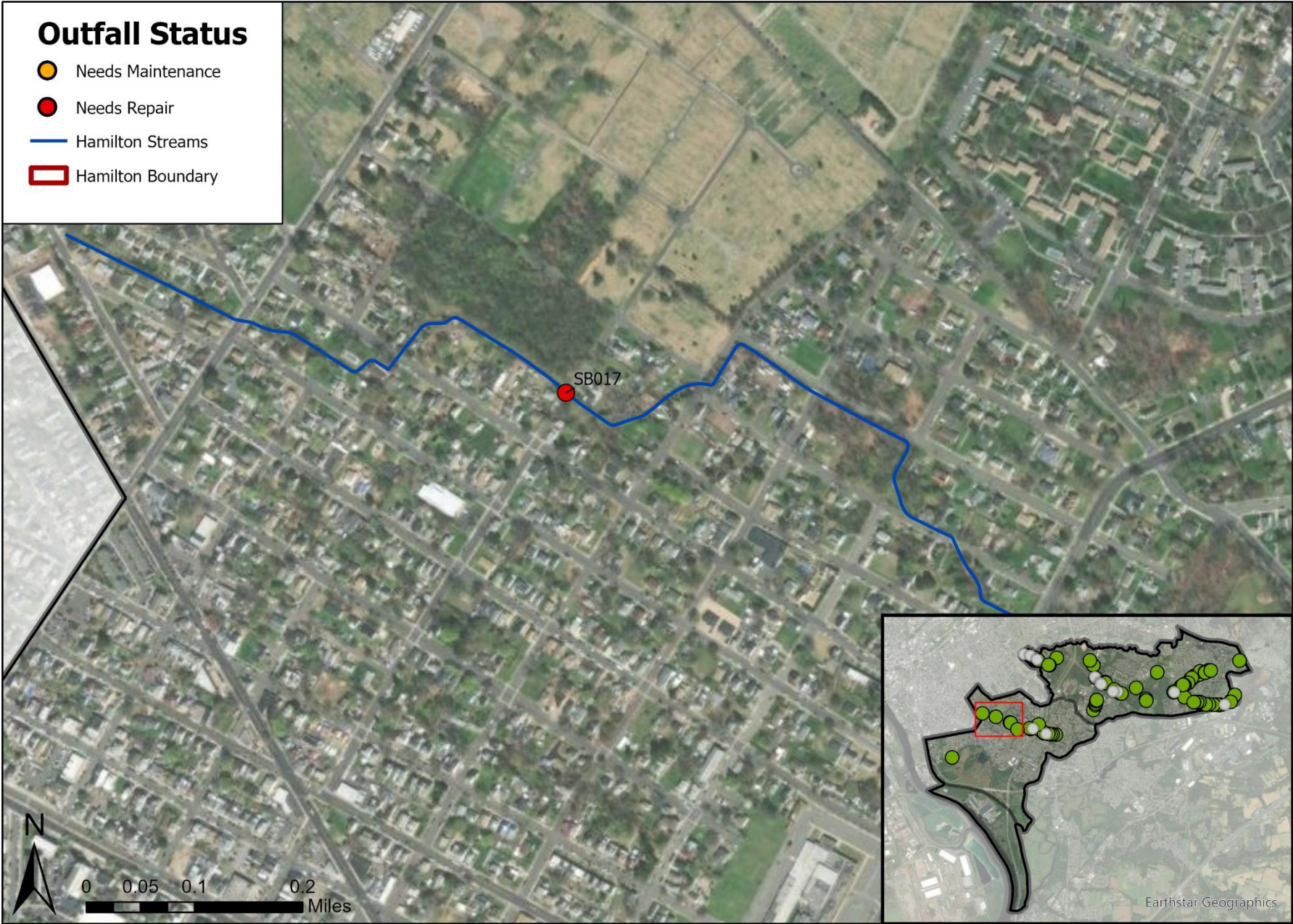


Hamilton Outfall Region 3: Outfall Maintenance & Repair (Shady Brook)



Outfall Status in Shady Brook (1 of 3)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Shady Brook)

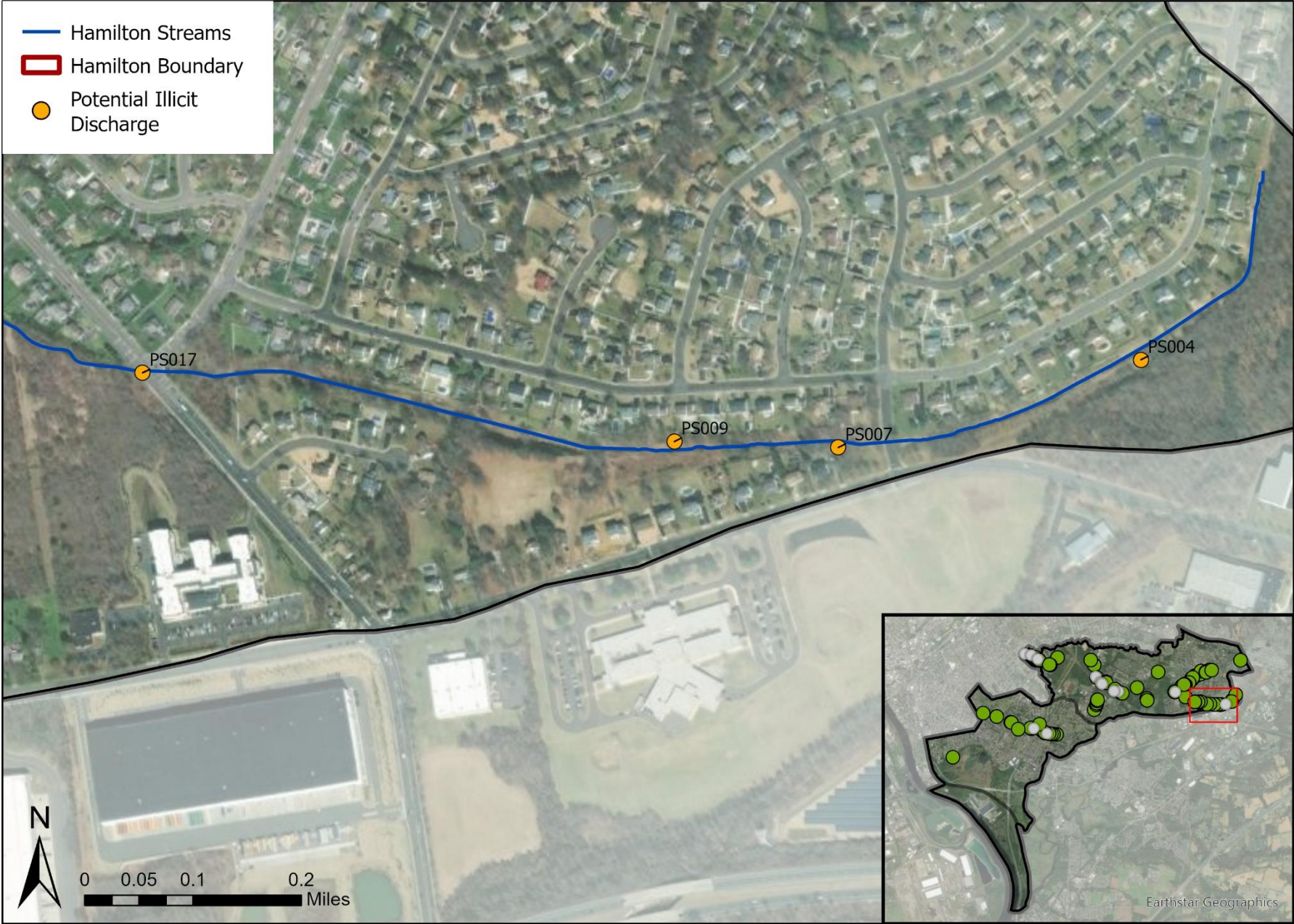


Outfall Status in Shady Brook (2 of 3)

Hamilton Outfall Region 3: Outfall Maintenance & Repair (Shady Brook)



Hamilton Outfall Region 3: Potential Illicit Discharges in Pond Run South



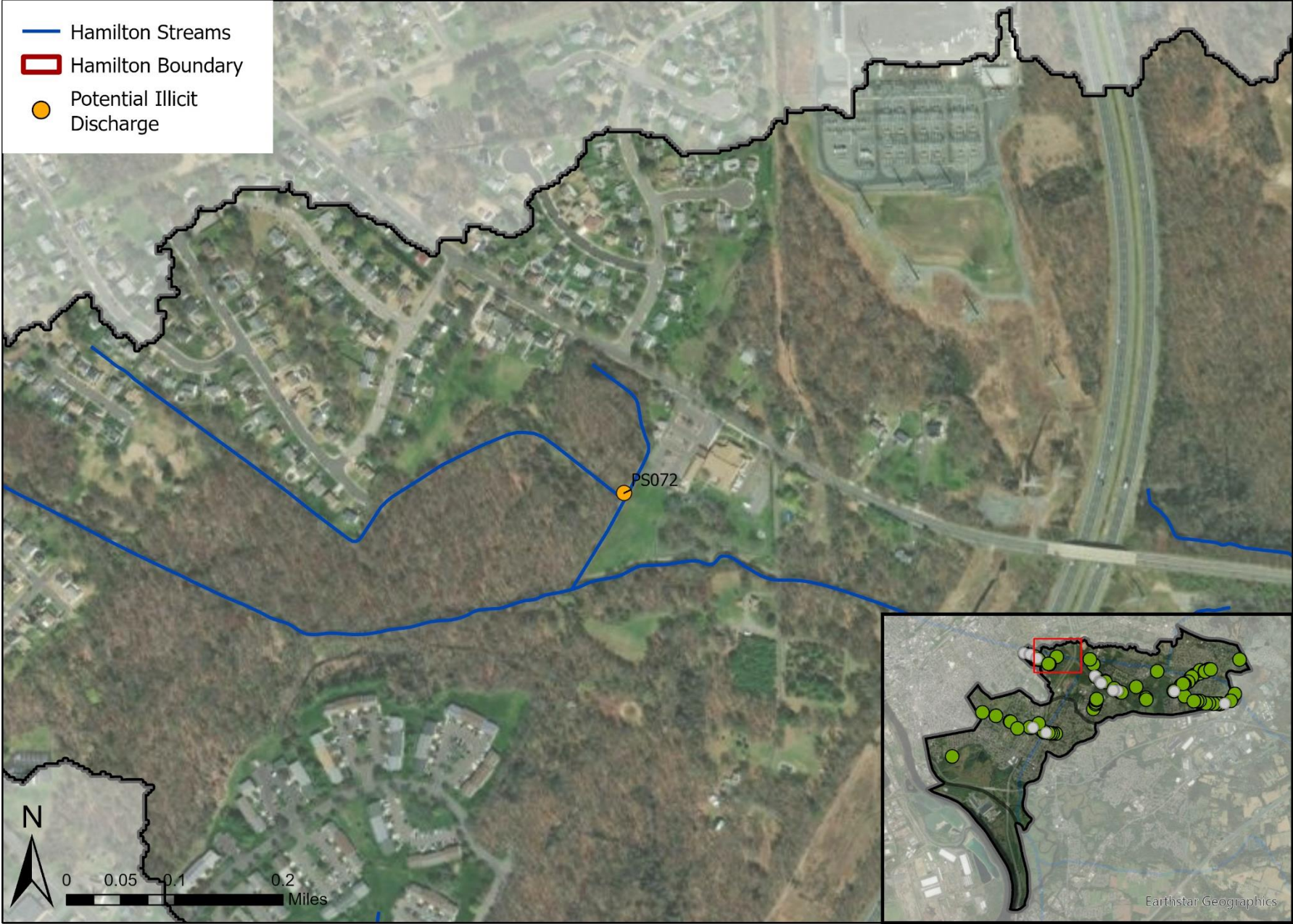
Hamilton Outfall Region 3: Potential Illicit Discharges in Pond Run South



Hamilton Outfall Region 3: Potential Illicit Discharges in Pond Run South



Hamilton Outfall Region 3: Potential Illicit Discharges in Pond Run South



Potential Illicit Discharge in Pond Run South (4 of 4)

Hamilton Outfall Region 3: Potential Illicit Discharges in Shady Brook



Potential Illicit Discharge in Shady Brook (1 of 1)

Attachment 2: Outfall Assessment Tables

General Color-Coding Key
Severe Issues
Significant Issues
Moderate Issues
Minor Issues
No Problems
Not Inspected

All Outfall Data

Outfall ID	OLD ID	Subwatershed	Is the discharge coming directly from a pipe?	Pipe Diameter [in] (if applicable)	Pipe Material	Reinspected	Date of Inspection	Is the pipe fully or partially submerged?	Are there known non-stormwater discharges?	Outfall Condition	Bank Stability	Outfall Damage	Year Asses Previous
PS001		Pond Run	Y	22	Concrete	Y	6/18/2024	N	Unknown	Proper condition	Good	1 - Minor Cracking or Corrosion	
PS002	B0503	Pond Run	Y	30	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS003	B0502	Pond Run	Y	24	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	No Damages	2015
PS004		Pond Run	Y		Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	
PS005	B0501	Pond Run			Concrete	Not Found/Inaccessible			Unknown				2015
PS006	B0504	Pond Run	Y	48	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	No Damages	2015
PS007	B0505	Pond Run	Y	16	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS008	B0506	Pond Run	Y	24	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	No Damages	2015
PS009	B0507	Pond Run	Y	48	Concrete	Y	6/10/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
PS010	B0508	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
PS011		Pond Run	Y		Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	No Damages	
PS012	B0509	Pond Run	Y	16	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	2015
PS013		Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS014	B0510	Pond Run	Y	20	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS015		Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS016	B0511	Pond Run	Y	32	Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	1 - Minor Cracking or Corrosion	2015
PS017		Pond Run	Y	22	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	No Damages	
PS018		Pond Run	Y	24	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS019		Pond Run	Y	12	Plastic: HDPE	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	No Damages	
PS020		Pond Run	Y	16	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS021	B0409	Pond Run	Y	54	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS022	B0410	Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS023	B0412	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS024	B0411	Pond Run	Y	32	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Fair	No Damages	2015
PS025	B0407	Pond Run	Y	76	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS026	B0406	Pond Run	Y		Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	3 - Major Cracking or Corrosion	2015
PS027	B0405	Pond Run	Y	24	Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS028	B0402	Pond Run	Y	16	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS029	B0401	Pond Run	Y	40	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS030		Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	
PS031	B0403	Pond Run	Y	8	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS032	B0404	Pond Run	Y	16	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Proper condition	Fair	No Damages	2015
PS033		Pond Run	Y	30	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS034		Pond Run	Y	25	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Fair	No Damages	
PS035		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	
PS036		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	
PS037	C0404	Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
PS038	C0403	Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
PS039	C0401	Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
PS040	C0402	Pond Run	Y	24	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS041	C0408	Pond Run	Y	12	Metal	Y	6/14/2024	N	Unknown	Needs Maintenance	Needs Stabilization	1 - Minor Cracking or Corrosion	2015
PS042	C0409	Pond Run	Y	18	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS043	C0407	Pond Run		18	Metal	Not Found/Inaccessible			Unknown				2015
PS044	C0406	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS045	C0405	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Needs Repair	Good	3 - Major Cracking or Corrosion	2015
PS046	C0410	Pond Run	Y	28	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
PS047		Pond Run	Y		Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	
PS049		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	
PS050	D0417	Pond Run	Y	36	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Proper condition	Good	No Damages	2015

All Outfall Data

Outfall ID	Rainfall Last 72hrs?	Dry Weather Flow?	Illicit Discharge Suspected?	Odor	Color	Turbidity	Floatables	Deposits or Stains	Adjacent Vegetation (compared to other areas)	Stream Scour Present?	Scour Severity	Scour Extent	Notes	Overall Priority
PS001	N	N	N							Y	Low	Under 10 ft	Excessive mud/sediment in front of the outfall	2 - Low
PS002	N	N	N							Y	Low	Under 10 ft	Very overgrown vegetation	2 - Low
PS003	N	N	N							Y	Medium	10-100 ft	Overgrown Vegetation, short channel of erosion	3 - Medium
PS004	N	N	Y	None	Brown	Cloudy	Other	White crystalline	normal	N			White crystalline discharge and cracking around the outfall pipe.	2 - Low
PS005													Too much vegetation so couldn't find, past inspection notes pipe buried, could be underground at this point.	
PS006	N	N	N							Y	Medium	Under 10 ft	Short scour channel from sediment accumulation	3 - Medium
PS007	N	Y	Y	None	Clear	Clear	None	None	normal	N			Repaired w/ riprap, [Sampled]	2 - Low
PS008	N	N	N							Y	Low	Under 10 ft	Sediments acculturating around and the outfall can be cleared and could use some maintenance.	2 - Low
PS009	N	Y	Y	None	Clear	Clear	None	None	normal	N			The head wall attachment is started to crumble and crack.	3 - Medium
PS010	N	N	N							Y	Low	Under 10 ft	Cracks/structural damage & inappropriate use of storage on concrete	3 - Medium
PS011	N	N	N							Y	Low	10-100 ft	Hard to access surrounded by vegetation, diameter unable to measure	2 - Low
PS012	N	N	N							Y	Low	Under 10 ft		2 - Low
PS013	N	N	N							Y	Low	Under 10 ft		2 - Low
PS014	N	N	N							Y	Medium	10-100 ft	Cracking around top outflow hole	3 - Medium
PS015	N	N	N							Y	Low	Under 10 ft	Cracking around the concrete head. Erosion in the stream. Some overgrown vegetation	2 - Low
PS016	N	N	N							N			Remnants of dry weather flow that is dried up, orange in color	1 - None
PS017	N	Y	Y	None	Brown	Opaque	None	Other	normal	N			An orange discharge coming out from the outfall	3 - Medium
PS018	N	N	N							N			There is left over residue from old dry weather flow, orange in color.	2 - Low
PS019	N	N	N							N			Long channel leading down to stream, sediment could be removed from pipe	2 - Low
PS020	N	N	N							N				2 - Low
PS021	N	N	N							N			2 outlet pipes	1 - None
PS022	N	Y	Y	None	Clear	Clear	None	None	normal	N			Blocked off by bricks, water still flowing through.	2 - Low
PS023	N	Y	Y	None	Clear	Clear	None	Other	excessive growth or algal	N			Orange algae at the base of the outfall	3 - Medium
PS024	N	Y	Y	None	Clear	Clear	None	None	normal	Y	Medium	Under 10 ft	Pipe starting to be undermined from erosion	3 - Medium
PS025	N	Y	Y	None	Clear	Cloudy	None	Other	normal	Y	Medium	Under 10 ft		3 - Medium
PS026	N	N	N							Y	High	10-100 ft	Outfall is completely destroyed and is blocked with sediment	5 - Highest
PS027	N	N	N							Y	High	10-100 ft		3 - Medium
PS028	N	Y	N							N				1 - None
PS029	N	Y	Y	None	Clear	Cloudy	None	None	normal	N				2 - Low
PS030	N	N	N							N				1 - None
PS031	N	N	N							N			Sediment accumulation should be cleaned from outfall	2 - Low
PS032	N	N	N							N			Vegetation is overgrown	2 - Low
PS033	N	N	N							Y	Low	Under 10 ft	Piece of concrete structure has broken off	2 - Low
PS034	N	N	N							N			Path to River appears to be obstructed by a mound of soil	2 - Low
PS035	N	N	N							Y	Low	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS036	N	N	N							Y	Medium	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS037	N	N	N							N				2 - Low
PS038	N	N	N							Y	Low	Under 10 ft		2 - Low
PS039	N	N	N							N				2 - Low
PS040	N	N	N							N				2 - Low
PS041	N	N	N							Y	High	10-100 ft	Extremely overgrown with thorn bushes	3 - Medium
PS042	N	N	N							N			Three outfalls under bridge, all same diameter, recorded as one point	2 - Low
PS043													Locations in this area, unclear where this is at all???	
PS044	N	Y	Y	None	Clear	Clear	None	None	normal	N				2 - Low
PS045	N	Y	Y	None		Clear	None	None	normal	Y	Low	Under 10 ft	Major crack in bottom of pipe, needs repair	4 - High
PS046	N	N	N							Y	Medium	Under 10 ft	3 outfalls: 35 inches, 59 inches, 43 inches. Walls on the side of bank to prevent scouring. Sediment buildup in the pipe	3 - Medium
PS047	N		N							Y	Medium	10-100 ft	Sediment buildup in front of outfall is preventing water from flowing freely	3 - Medium
PS049	N	N	N							Y	Medium	10-100 ft	Debris blocking water flow, deleted adjacent point because both outflow pipes on the same headwall and considered one outfall point	3 - Medium
PS050	N	N	N							Y	Medium	10-100 ft	Outfall from lake	2 - Low

All Outfall Data

Outfall ID	OLD ID	Subwatershed	Is the discharge coming directly from a pipe?	Pipe Diameter [in] (if applicable)	Pipe Material	Reinspected	Date of Inspection	Is the pipe fully or partially submerged?	Are there known non-stormwater discharges?	Outfall Condition	Bank Stability	Outfall Damage	Year Asses Previous
PS051	D0415	Pond Run	Y	18	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS052	D0414	Pond Run	Y	35	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	2015
PS053	D0409	Pond Run			Clay	Not Found/Inaccessible	6/18/2024		Unknown				2015
PS054	D0413	Pond Run			Clay	Not Found/Inaccessible	6/18/2024		Unknown				2015
PS055	D0410	Pond Run	Y	28	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS056	D0408	Pond Run	Y	36	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS057	D0407	Pond Run	Y	10	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS058		Pond Run	Y		Concrete	Y	6/18/2024		Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS059		Pond Run	Y		Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	
PS060		Pond Run	Y		Concrete	Y	6/18/2024	Y (Fully Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS061		Pond Run	Y		Concrete	Y	6/18/2024	Y (Fully Submerged)	Unknown	Needs Maintenance	Fair	2 - Moderate Cracking or Corrosion	
PS062		Pond Run	Y	16	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS063		Pond Run	Y	20	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Fair	3 - Major Cracking or Corrosion	
PS064		Pond Run	Y	20	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	
PS065	D0406	Pond Run			Clay	Not Found/Inaccessible	6/18/2024		Unknown				2015
PS066	D0405	Pond Run			Clay	Not Found/Inaccessible	6/18/2024		Unknown				2015
PS067	D0401	Pond Run	Y	26	Concrete	Y	6/18/2024	Y (Fully Submerged)	Unknown	Proper condition	Fair	No Damages	2015
PS068	D0402	Pond Run			Clay	Not Found/Inaccessible	6/18/2024		Unknown				2015
PS069	D0416	Pond Run	Y	29	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	2015
PS070		Pond Run	Y		Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS072		Pond Run	Y	36	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	
PS073		Pond Run	Y	24	Concrete	Y	6/18/2024	N	Unknown	Proper condition	Good	No Damages	
PS074		Pond Run	Y	16	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	
PS075	E0332	Pond Run	Y	22	Concrete	Y	6/20/2024	Y (Partially Submerged)	Unknown	Proper condition	Good	No Damages	2015
PS076	E0331	Pond Run			Concrete	Not Found/Inaccessible			Unknown				2015
PS077	E0329	Pond Run	Y	24	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS078	E0330	Pond Run	Y	30	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
PS079	E0328	Pond Run		24	Concrete	Not Found/Inaccessible			Unknown				2015
PS080	F0301	Pond Run			Clay	Not Found/Inaccessible			Unknown				2015
PS081		Pond Run	Y	12	Concrete	Y	8/14/2024	N	Unknown	Needs Repair	Needs Stabilization	3 - Major Cracking or Corrosion	
SB001	F04 01	Shady Brook/Spring Lake/Rowan Lake	Y	44	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
SB002	F0402	Shady Brook/Spring Lake/Rowan Lake	Y	36	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
SB003	F0403	Shady Brook/Spring Lake/Rowan Lake	Y	18	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	3 - Major Cracking or Corrosion	2015
SB004	F0404	Shady Brook/Spring Lake/Rowan Lake	Y	12	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	2015
SB005	F0405	Shady Brook/Spring Lake/Rowan Lake		20	Concrete	Not Found/Inaccessible			Unknown				2015
SB006		Shady Brook/Spring Lake/Rowan Lake	Y	18	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
SB007	F0408	Shady Brook/Spring Lake/Rowan Lake	Y	26	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
SB008	F0406	Shady Brook/Spring Lake/Rowan Lake	Y	15	Concrete	Y	6/20/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
SB009	F0407	Shady Brook/Spring Lake/Rowan Lake	Y	16	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
SB010		Shady Brook/Spring Lake/Rowan Lake	Y	24	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Proper condition	Good	No Damages	
SB011	F0411	Shady Brook/Spring Lake/Rowan Lake			Concrete	Not Found/Inaccessible			Unknown				2015
SB012	F0409	Shady Brook/Spring Lake/Rowan Lake	Y	41	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
SB013	F0410	Shady Brook/Spring Lake/Rowan Lake	Y	13	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	No Damages	2015
SB014		Shady Brook/Spring Lake/Rowan Lake	Y	32	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
SB015	G0405	Shady Brook/Spring Lake/Rowan Lake	Y	15	Plastic	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	2015
SB016	G0404	Shady Brook/Spring Lake/Rowan Lake	Y	15	Plastic	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	2015
SB017		Shady Brook/Spring Lake/Rowan Lake	Y	60	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Needs Stabilization	2 - Moderate Cracking or Corrosion	
SB018		Shady Brook/Spring Lake/Rowan Lake	Y	17	Plastic: HDPE	Y	6/18/2024	N	Unknown	Proper condition	Good	No Damages	
SB019		Shady Brook/Spring Lake/Rowan Lake	Y	18	Concrete	Y	6/20/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	

All Outfall Data

Outfall ID	Rainfall Last 72hrs?	Dry Weather Flow?	Illicit Discharge Suspected?	Odor	Color	Turbidity	Floatables	Deposits or Stains	Adjacent Vegetation (compared to other areas)	Stream Scour Present?	Scour Severity	Scour Extent	Notes	Overall Priority
PS051	N	N	N							N				2 - Low
PS052	N	N	N							N			Algal looking substance floating on surface of water directly from the pipe, maybe farm runoff	2 - Low
PS053														
PS054														
PS055	N	Y	Y	None	Other	Clear	Other	Oily residues	normal	Y	Low	Under 10 ft	White/silver sheen floating on surface directly from pipe	2 - Low
PS056	N	N	N							N				2 - Low
PS057	N	N	N							N				2 - Low
PS058	N	N	N							N			Two adjacent outfalls	2 - Low
PS059	N	N	N							N			Cracking at base and wire showing at top	3 - Medium
PS060	N	N	N							N			Fully submerged - sediment accumulated to nearly top of pipe	3 - Medium
PS061	N	N	N							N			Submerged partially with water and sediment	3 - Medium
PS062	N	N	N							N				2 - Low
PS063	N	Y	Y	None	Other	Cloudy	Other	Other	normal	Y	Medium	10-100 ft	Buildup of orange textured floatables	4 - High
PS064	N	Y	Y	None	Yellow	Cloudy	Suds	Other	normal	Y	Medium	Under 10 ft	Yellow/orange staining and suds	4 - High
PS065													Area flooded, trees underwater making outfall inaccessible.	
PS066													Area flooded, trees underwater making outfall inaccessible.	
PS067	N	N	N							N			Water level is really high, very nearly fully submerged	1 - None
PS068													Suspected to be submerged beneath bridge as shown in picture	
PS069	N	N	N							Y	Medium	10-100 ft	Filthy, red/orange water	3 - Medium
PS070	N	N	N							Y	Low	Under 10 ft		2 - Low
PS072	N	N	Y	None	Clear	Clear	None	Excessive sediments	normal	Y	Low	10-100 ft	Sediment build up in the pipe and in front of outfall. Outfall head can be seen separating from the pipe	3 - Medium
PS073	N	N	N							N				1 - None
PS074	N	N	N							N			Exposed rebar around pipe	3 - Medium
PS075	N	N	N							Y	Low	10-100 ft	Excessive sediment buildup inside the pipe	2 - Low
PS076													Stream inaccessible	
PS077	N	N	N							Y	Low	10-100 ft		2 - Low
PS078	N	N	N							Y	Low	10-100 ft	Erosion between pipe and outfall head	3 - Medium
PS079													Might be submerged. Can not see the pipe through vegetation and sediment	
PS080													Pipe is not accessible because stream is blocked, scour and excessive vegetation	
PS081	N	N	N							Y	Medium	10-100 ft	Outfall has broken into two pieces	4 - High
SB001	N	N	N							Y	Low	Under 10 ft		2 - Low
SB002	N	N	N							N				2 - Low
SB003	N	N	N							N			The outfall pipe looks disconnected from the outlet	4 - High
SB004	N	N	N							N			Looks like a piece broke off, part of concrete pipe submerged in the water	3 - Medium
SB005														
SB006	N	Y	Y	Sulfide	Clear	Clear	None	None	normal	N			Cracking/erosion under outfall pipe; there is a pipe next to outfall that is continuously spewing water	2 - Low
SB007	N	N	Y	None	Clear	Clear	None	None	normal	N				2 - Low
SB008	N	N	N							Y	Medium	10-100 ft	Sediment buildup at the bottom of the pipe and in front. Pipe is spalling.	3 - Medium
SB009	N	N	N							N			Inside of pipe corroded	2 - Low
SB010	N	N	N							N			Needs to be cleaned. a lot of sediment build up. pipe above outfall	2 - Low
SB011														
SB012	N	N	N							N			Crack/structural damage in connection joint inside pipe	2 - Low
SB013	N	N	N							N			Sediment has filled the outfall	2 - Low
SB014	Y	Y	N							N			Cracking above/under and around pipe - eroded at bottom	2 - Low
SB015	N	N	N							N				1 - None
SB016	N	N	N							N				1 - None
SB017	N	N	N							N			Cracking and erosion within pipe	4 - High
SB018	N	N	N							N			Sediment buildup on the bottom of the channel	2 - Low
SB019	N	N	N							N			Pipe is detaching from outfall exit	4 - High

Priority Outfalls

Outfall ID	OLD ID	Subwatershed	Is the discharge coming directly from a pipe?	Pipe Diameter [in] (if applicable)	Pipe Material	Reinspected	Date of Inspection	Is the pipe fully or partially submerged?	Are there known non-stormwater discharges?	Outfall Condition	Bank Stability	Outfall Damage	Year Asses Previous
PS026	B0406	Pond Run	Y		Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	3 - Major Cracking or Corrosion	2015
PS045	C0405	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Needs Repair	Good	3 - Major Cracking or Corrosion	2015
PS063		Pond Run	Y	20	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Fair	3 - Major Cracking or Corrosion	
PS064		Pond Run	Y	20	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	
PS081		Pond Run	Y	12	Concrete	Y	8/14/2024	N	Unknown	Needs Repair	Needs Stabilization	3 - Major Cracking or Corrosion	
SB003	F0403	Shady Brook/Spring Lake/Rowan Lake	Y	18	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	3 - Major Cracking or Corrosion	2015
SB017		Shady Brook/Spring Lake/Rowan Lake	Y	60	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Needs Stabilization	2 - Moderate Cracking or Corrosion	
SB019		Shady Brook/Spring Lake/Rowan Lake	Y	18	Concrete	Y	6/20/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	
PS003	B0502	Pond Run	Y	24	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	No Damages	2015
PS006	B0504	Pond Run	Y	48	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	No Damages	2015
PS009	B0507	Pond Run	Y	48	Concrete	Y	6/10/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
PS010	B0508	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	2015
PS014	B0510	Pond Run	Y	20	Concrete	Y	6/10/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS017		Pond Run	Y	22	Concrete	Y	6/14/2024	N	Unknown	Needs Maintenance	Good	No Damages	
PS023	B0412	Pond Run	Y	36	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS024	B0411	Pond Run	Y	32	Concrete	Y	6/10/2024	N	Unknown	Proper condition	Fair	No Damages	2015
PS025	B0407	Pond Run	Y	76	Concrete	Y	6/10/2024	N	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	2015
PS027	B0405	Pond Run	Y	24	Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	2015
PS035		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	
PS036		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	
PS041	C0408	Pond Run	Y	12	Metal	Y	6/14/2024	N	Unknown	Needs Maintenance	Needs Stabilization	1 - Minor Cracking or Corrosion	2015
PS046	C0410	Pond Run	Y	28	Concrete	Y	6/14/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
PS047		Pond Run				Y	6/14/2024		Unknown	Proper condition	Good	No Damages	
PS049		Pond Run	Y	36	Concrete	Y	6/14/2024	N	Unknown	Proper condition	Good	No Damages	
PS059		Pond Run	Y		Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	
PS060		Pond Run	Y		Concrete	Y	6/18/2024	Y (Fully Submerged)	Unknown	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	
PS061		Pond Run	Y		Concrete	Y	6/18/2024	Y (Fully Submerged)	Unknown	Needs Maintenance	Fair	2 - Moderate Cracking or Corrosion	
PS069	D0416	Pond Run	Y	29	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	2015
PS072		Pond Run	Y	36	Concrete	Y	6/18/2024	N	Unknown	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	
PS074		Pond Run	Y	16	Concrete	Y	6/18/2024	N	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	
PS078	E0330	Pond Run	Y	30	Concrete	Y	6/18/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015
SB004	F0404	Shady Brook/Spring Lake/Rowan Lake	Y	12	Concrete	Y	6/14/2024	Y (Partially Submerged)	Unknown	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	2015
SB008	F0406	Shady Brook/Spring Lake/Rowan Lake	Y	15	Concrete	Y	6/20/2024	Y (Partially Submerged)	Unknown	Needs Repair	Good	2 - Moderate Cracking or Corrosion	2015

Priority Outfalls

Outfall ID	Rainfall Last 72hrs?	Dry Weather Flow?	Illicit Discharge Suspected?	Odor	Color	Turbidity	Floatables	Deposits or Stains	Adjacent Vegetation (compared to other areas)	Stream Scour Present?	Scour Severity	Scour Extent	Notes	Overall Priority
PS026	N	N	N							Y	High	10-100 ft	Outfall is completely destroyed and is blocked with sediment	5 - Highest
PS045	N	Y	Y	None		Clear	None	None	normal	Y	Low	Under 10 ft	Major crack in bottom of pipe, needs repair	4 - High
PS063	N	Y	Y	None	Other	Cloudy	Other	Other	normal	Y	Medium	10-100 ft	Buildup of orange textured floatables	4 - High
PS064	N	Y	Y	None	Yellow	Cloudy	Suds	Other	normal	Y	Medium	Under 10 ft	Yellow/orange staining and suds	4 - High
PS081	N	N	N							Y	Medium	10-100 ft	Outfall has broken into two pieces	4 - High
SB003	N	N	N							N			The outfall pipe looks disconnected from the outlet	4 - High
SB017	N	N	N							N			Cracking and erosion within pipe	4 - High
SB019	N	N	N							N			Pipe is detaching from outfall exit	4 - High
PS003	N	N	N							Y	Medium	10-100 ft	Overgrown Vegetation, short channel of erosion	3 - Medium
PS006	N	N	N							Y	Medium	Under 10 ft	Short scour channel from sediment accumulation	3 - Medium
PS009	N	Y	Y	None	Clear	Clear	None	None	normal	N			The head wall attachment is started to crumble and crack.	3 - Medium
PS010	N	N	N							Y	Low	Under 10 ft	Cracks/structural damage & inappropriate use of storage on concrete	3 - Medium
PS014	N	N	N							Y	Medium	10-100 ft	Cracking around top outflow hole	3 - Medium
PS017	N	Y	Y	None	Brown	Opaque	None	Other	normal	N			An orange discharge coming out from the outfall	3 - Medium
PS023	N	Y	Y	None	Clear	Clear	None	Other	excessive growth or algal growth	N			Orange algae at the base of the outfall	3 - Medium
PS024	N	Y	Y	None	Clear	Clear	None	None	normal	Y	Medium	Under 10 ft	Pipe starting to be undermined from erosion	3 - Medium
PS025	N	Y	Y	None	Clear	Cloudy	None	Other	normal	Y	Medium	Under 10 ft		3 - Medium
PS027	N	N	N							Y	High	10-100 ft		3 - Medium
PS035	N	N	N							Y	Low	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS036	N	N	N							Y	Medium	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS041	N	N	N							Y	High	10-100 ft	Extremely overgrown with thorn bushes	3 - Medium
PS046	N	N	N							Y	Medium	Under 10 ft	3 outfalls: 35 inches, 59 inches, 43 inches. Walls on the side of bank to prevent scouring. Sediment buildup in the pipe	3 - Medium
PS047	N		N							Y	Medium	10-100 ft	Sediment buildup in front of outfall is preventing water from flowing freely	3 - Medium
PS049	N	N	N							Y	Medium	10-100 ft	Debris blocking water flow, deleted adjacent point because both outflow pipes on the same headwall and considered one outfall point	3 - Medium
PS059	N	N	N							N			Cracking at base and wire showing at top	3 - Medium
PS060	N	N	N							N			Fully submerged - sediment accumulated to nearly top of pipe	3 - Medium
PS061	N	N	N							N			Submerged partially with water and sediment	3 - Medium
PS069	N	N	N							Y	Medium	10-100 ft	Filthy, red/orange water	3 - Medium
PS072	N	N	Y	None	Clear	Clear	None	Excessive sediments	normal	Y	Low	10-100 ft	Sediment build up in the pipe and in front of outfall. Outfall head can be seen separating from the pipe	3 - Medium
PS074	N	N	N							N			Exposed rebar around pipe	3 - Medium
PS078	N	N	N							Y	Low	10-100 ft	Erosion between pipe and outfall head	3 - Medium
SB004	N	N	N							N			Looks like a piece broke off, part of concrete pipe submerged in the water	3 - Medium
SB008	N	N	N							Y	Medium	10-100 ft	Sediment buildup at the bottom of the pipe and in front. Pipe is spalling.	3 - Medium

Outfall Damage

Outfall ID	OLD ID	Is the discharge coming directly from a pipe?	Pipe Diameter [in] (if applicable)	Pipe Material	Date of Inspection	Outfall Condition	Bank Stability	Outfall Damage	Notes	Overall Priority
PS026	B0406	Y		Concrete	6/14/2024	Needs Repair	Fair	3 - Major Cracking or Corrosion	Outfall is completely destroyed and is blocked with sediment	5 - Highest
PS045	C0405	Y	36	Concrete	6/10/2024	Needs Repair	Good	3 - Major Cracking or Corrosion	Major crack in bottom of pipe, needs repair	4 - High
PS063		Y	20	Concrete	6/18/2024	Needs Repair	Fair	3 - Major Cracking or Corrosion	Buildup of orange textured floatables	4 - High
PS081		Y	12	Concrete	8/14/2024	Needs Repair	Needs Stabilization	3 - Major Cracking or Corrosion	Outfall has broken into two pieces	4 - High
SB003	F0403	Y	18	Concrete	6/14/2024	Needs Repair	Good	3 - Major Cracking or Corrosion	The outfall pipe looks disconnected from the outlet	4 - High
PS039	C0401	Y	24	Concrete	6/10/2024	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion		2 - Low
PS038	C0403	Y	24	Concrete	6/10/2024	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion		2 - Low
PS037	C0404	Y	24	Concrete	6/10/2024	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion		2 - Low
SB017		Y	60	Concrete	6/18/2024	Needs Repair	Needs Stabilization	2 - Moderate Cracking or Corrosion	Cracking and erosion within pipe	4 - High
SB019		Y	18	Concrete	6/20/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Pipe is detaching from outfall exit	4 - High
PS009	B0507	Y	48	Concrete	6/10/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	The head wall attachment is started to crumble and crack.	3 - Medium
PS010	B0508	Y	36	Concrete	6/10/2024	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion	Cracks/structural damage & inappropriate use of storage on concrete	3 - Medium
SB001	F04 01	Y	44	Concrete	6/14/2024	Needs Maintenance	Good	2 - Moderate Cracking or Corrosion		2 - Low
SB007	F0408	Y	26	Concrete	6/14/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Cracking/erosion under outfall pipe; there is a pipe next to outfall that is continuously spewing water	2 - Low
PS035		Y	36	Concrete	6/14/2024	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	Sediment buildup outside outlet	3 - Medium
PS036		Y	36	Concrete	6/14/2024	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	Sediment buildup outside outlet	3 - Medium
PS046	C0410	Y	28	Concrete	6/14/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	3 outfalls: 35 inches, 59 inches, 43 inches. Walls on the side of bank to prevent scouring. Sediment buildup in the pipe	3 - Medium
PS059		Y		Concrete	6/18/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Cracking at base and wire showing at top	3 - Medium
PS061		Y		Concrete	6/18/2024	Needs Maintenance	Fair	2 - Moderate Cracking or Corrosion	Submerged partially with water and sediment	3 - Medium
PS074		Y	16	Concrete	6/18/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Exposed rebar around pipe	3 - Medium
PS078	E0330	Y	30	Concrete	6/18/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Erosion between pipe and outfall head	3 - Medium
SB004	F0404	Y	12	Concrete	6/14/2024	Needs Repair	Fair	2 - Moderate Cracking or Corrosion	Looks like a piece broke off, part of concrete pipe submerged in the water	3 - Medium
SB008	F0406	Y	15	Concrete	6/20/2024	Needs Repair	Good	2 - Moderate Cracking or Corrosion	Sediment buildup at the bottom of the pipe and in front. Pipe is spalling.	3 - Medium
PS057	D0407	Y	10	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS056	D0408	Y	36	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS055	D0410	Y	28	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	White/silver sheen floating on surface directly from pipe	2 - Low
PS052	D0414	Y	35	Concrete	6/18/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	Algal looking substance floating on surface of water directly from the pipe, maybe farm runoff	2 - Low
PS051	D0415	Y	18	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS040	C0402	Y	24	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS042	C0409	Y	18	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Three outfalls under bridge, all same diameter, recorded as one point	2 - Low
PS064		Y	20	Concrete	6/18/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	Yellow/orange staining and suds	4 - High
PS002	B0503	Y	30	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Very overgrown vegetation	2 - Low
PS012	B0509	Y	16	Concrete	6/10/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion		2 - Low
PS016	B0511	Y	32	Concrete	6/14/2024	Proper condition	Good	1 - Minor Cracking or Corrosion	Remnants of dry weather flow that is dried up, orange in color	1 - None
PS029	B0401	Y	40	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS031	B0403	Y	8	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Sediment accumulation should be cleaned from outfall	2 - Low
PS022	B0410	Y	24	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Blocked off by bricks, water still flowing through.	2 - Low
PS014	B0510	Y	20	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Cracking around top outflow hole	3 - Medium
SB002	F0402	Y	36	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS025	B0407	Y	76	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		3 - Medium
SB009	F0407	Y	16	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Inside of pipe corroded	2 - Low
SB012	F0409	Y	41	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Crack/structural damage in connection joint inside pipe	2 - Low
PS077	E0329	Y	24	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS004		Y		Concrete	6/10/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	White crystalline discharge and cracking around the outfall pipe.	2 - Low
PS020		Y	16	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS033		Y	30	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Piece of concrete structure has broken off	2 - Low
PS013		Y	24	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS015		Y	36	Concrete	6/10/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Cracking around the concrete head. Erosion in the stream. Some overgrown vegetation	2 - Low
PS018		Y	24	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	There is left over residue from old dry weather flow, orange in color.	2 - Low
SB006		Y	18	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS041	C0408	Y	12	Metal	6/14/2024	Needs Maintenance	Needs Stabilization	1 - Minor Cracking or Corrosion	Extremely overgrown with thorn bushes	3 - Medium
SB014		Y	32	Concrete	6/14/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Cracking above/under and around pipe - eroded at bottom	2 - Low
PS060		Y		Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Fully submerged - sediment accumulated to nearly top of pipe	3 - Medium
PS070		Y		Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS058		Y		Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion	Two adjacent outfalls	2 - Low
PS069	D0416	Y	29	Concrete	6/18/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	Filthy, red/orange water	3 - Medium
PS072		Y	36	Concrete	6/18/2024	Needs Maintenance	Fair	1 - Minor Cracking or Corrosion	Sediment build up in the pipe and in front of outfall. Outfall head can be seen separating from the pipe	3 - Medium
PS062		Y	16	Concrete	6/18/2024	Needs Maintenance	Good	1 - Minor Cracking or Corrosion		2 - Low
PS001		Y	22	Concrete	6/18/2024	Proper condition	Good	1 - Minor Cracking or Corrosion	Excessive mud/sediment in front of the outfall	2 - Low

Scouring

Outfall ID	OLD ID	Date of Inspection	Outfall Condition	Bank Stability	Stream Scour Present?	Scour Severity	Scour Extent	Notes	Overall Priority
PS026	B0406	6/14/2024	Needs Repair	Fair	Y	High	10-100 ft	Outfall is completely destroyed and is blocked with sediment	5 - Highest
PS027	B0405	6/14/2024	Proper condition	Good	Y	High	10-100 ft		3 - Medium
PS041	C0408	6/14/2024	Needs Maintenance	Needs Stabilization	Y	High	10-100 ft	Extremely overgrown with thorn bushes	3 - Medium
PS003	B0502	6/10/2024	Needs Maintenance	Fair	Y	Medium	10-100 ft	Overgrown Vegetation, short channel of erosion	3 - Medium
PS006	B0504	6/10/2024	Needs Maintenance	Good	Y	Medium	Under 10 ft	Short scour channel from sediment accumulation	3 - Medium
PS014	B0510	6/10/2024	Needs Maintenance	Good	Y	Medium	10-100 ft	Cracking around top outflow hole	3 - Medium
PS024	B0411	6/10/2024	Proper condition	Fair	Y	Medium	Under 10 ft	Pipe starting to be undermined from erosion	3 - Medium
PS025	B0407	6/10/2024	Needs Maintenance	Good	Y	Medium	Under 10 ft		3 - Medium
PS036		6/14/2024	Needs Repair	Fair	Y	Medium	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS046	C0410	6/14/2024	Needs Repair	Good	Y	Medium	Under 10 ft	3 outfalls: 35 inches, 59 inches, 43 inches. Walls on the side of bank to prevent scouring. Sediment buildup in the pipe	3 - Medium
PS047		6/14/2024	Proper condition	Good	Y	Medium	10-100 ft	Sediment buildup in front of outfall is preventing water from flowing freely	3 - Medium
PS049		6/14/2024	Proper condition	Good	Y	Medium	10-100 ft	Debris blocking water flow, deleted adjacent point because both outflow pipes on the same headwall and considered one outfall point	3 - Medium
PS050	D0417	6/14/2024	Proper condition	Good	Y	Medium	10-100 ft	Outfall from lake	2 - Low
PS063		6/18/2024	Needs Repair	Fair	Y	Medium	10-100 ft	Buildup of orange textured floatables	4 - High
PS064		6/18/2024	Needs Maintenance	Fair	Y	Medium	Under 10 ft	Yellow/orange staining and suds	4 - High
PS069	D0416	6/18/2024	Needs Maintenance	Fair	Y	Medium	10-100 ft	Filthy, red/orange water	3 - Medium
PS081		8/14/2024	Needs Repair	Needs Stabilization	Y	Medium	10-100 ft	Outfall has broken into two pieces	4 - High
SB008	F0406	6/20/2024	Needs Repair	Good	Y	Medium	10-100 ft	Sediment buildup at the bottom of the pipe and in front. Pipe is spalling.	3 - Medium
PS001		6/18/2024	Proper condition	Good	Y	Low	Under 10 ft	Excessive mud/sediment in front of the outfall	2 - Low
PS002	B0503	6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft	Very overgrown vegetation	2 - Low
PS008	B0506	6/10/2024	Needs Maintenance	Fair	Y	Low	Under 10 ft	Sediments acculturating around and the outfall can be cleared and could use some maintenance.	2 - Low
PS010	B0508	6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft	Cracks/structural damage & inappropriate use of storage on concrete	3 - Medium
PS011		6/10/2024	Needs Maintenance	Good	Y	Low	10-100 ft	Hard to access surrounded by vegetation, diameter unable to measure	2 - Low
PS012	B0509	6/10/2024	Needs Maintenance	Fair	Y	Low	Under 10 ft		2 - Low
PS013		6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft		2 - Low
PS015		6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft	Cracking around the concrete head. Erosion in the stream. Some overgrown vegetation	2 - Low
PS033		6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft	Piece of concrete structure has broken off	2 - Low
PS035		6/14/2024	Needs Repair	Fair	Y	Low	Under 10 ft	Sediment buildup outside outlet	3 - Medium
PS038	C0403	6/10/2024	Needs Maintenance	Good	Y	Low	Under 10 ft		2 - Low
PS045	C0405	6/10/2024	Needs Repair	Good	Y	Low	Under 10 ft	Major crack in bottom of pipe, needs repair	4 - High
PS055	D0410	6/18/2024	Needs Maintenance	Good	Y	Low	Under 10 ft	White/silver sheen floating on surface directly from pipe	2 - Low
PS070		6/18/2024	Needs Maintenance	Good	Y	Low	Under 10 ft		2 - Low
PS072		6/18/2024	Needs Maintenance	Fair	Y	Low	10-100 ft	Sediment build up in the pipe and in front of outfall. Outfall head can be seen separating from the pipe	3 - Medium
PS075	E0332	6/20/2024	Proper condition	Good	Y	Low	10-100 ft	Excessive sediment buildup inside the pipe	2 - Low
PS077	E0329	6/18/2024	Needs Maintenance	Good	Y	Low	10-100 ft		2 - Low
PS078	E0330	6/18/2024	Needs Repair	Good	Y	Low	10-100 ft	Erosion between pipe and outfall head	3 - Medium
SB001	F04 01	6/14/2024	Needs Maintenance	Good	Y	Low	Under 10 ft		2 - Low

Illicit Discharge Suspected

Outfall ID	OLD ID	Subwatershed	Date of Inspection	Is the pipe fully or partially submerged?	Are there known non-stormwater discharges?	Rainfall Last 72hrs?	Dry Weather Flow?	Illicit Discharge Suspected?	Odor	Color	Turbidity	Floatables	Deposits or Stains	Adjacent Vegetation (compared to other areas)	Notes	Overall Priority
PS004		Pond Run	6/10/2024	Y (Partially Submerged)	Unknown	N	N	Y	None	Brown	Cloudy	Other	White crystalline	normal	White crystalline discharge and cracking around the outfall pipe.	2 - Low
PS007	B0505	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	None	normal	Repaired w/ riprap. [Sampled]	2 - Low
PS009	B0507	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	None	normal	The head wall attachment is started to crumble and crack.	3 - Medium
PS017		Pond Run	6/14/2024	N	Unknown	N	Y	Y	None	Brown	Opaque	None	Other	normal	An orange discharge coming out from the outfall	3 - Medium
PS022	B0410	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	None	normal	Blocked off by bricks, water still flowing through.	2 - Low
PS023	B0412	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	Other	excessive growth or algal growth	Orange algae at the base of the outfall	3 - Medium
PS024	B0411	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	None	normal	Pipe starting to be undermined from erosion	3 - Medium
PS025	B0407	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Cloudy	None	Other	normal		3 - Medium
PS029	B0401	Pond Run	6/10/2024	Y (Partially Submerged)	Unknown	N	Y	Y	None	Clear	Cloudy	None	None	normal		2 - Low
PS044	C0406	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None	Clear	Clear	None	None	normal		2 - Low
PS045	C0405	Pond Run	6/10/2024	N	Unknown	N	Y	Y	None		Clear	None	None	normal	Major crack in bottom of pipe, needs repair	4 - High
PS055	D0410	Pond Run	6/18/2024	Y (Partially Submerged)	Unknown	N	Y	Y	None	Other	Clear	Other	Oily residues	normal	White/silver sheen floating on surface directly from pipe	2 - Low
PS063		Pond Run	6/18/2024	N	Unknown	N	Y	Y	None	Other	Cloudy	Other	Other	normal	Buildup of orange textured floatables	4 - High
PS064		Pond Run	6/18/2024	N	Unknown	N	Y	Y	None	Yellow	Cloudy	Suds	Other	normal	Yellow/orange staining and suds	4 - High
PS072		Pond Run	6/18/2024	N	Unknown	N	N	Y	None	Clear	Clear	None	Excessive sediments	normal	Sediment build up in the pipe and in front of outfall. Outfall head can be seen separating from the pipe	3 - Medium
SB006		Shady Brook/Spring Lake/Rowan Lake	6/14/2024	N	Unknown	N	Y	Y	Sulfide	Clear	Clear	None	None	normal		2 - Low
SB007	F0408	Shady Brook/Spring Lake/Rowan Lake	6/14/2024	N	Unknown	N	N	Y	None	Clear	Clear	None	None	normal	Cracking/erosion under outfall pipe; there is a pipe next to outfall that is continuously spewing water	2 - Low