



Student interns measure outlet structure at a Route 524 basin

**Hamilton Township (Mercer County)
Stormwater Basin Assessment Summary
Addendum (Year 4)**

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

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Acknowledgements

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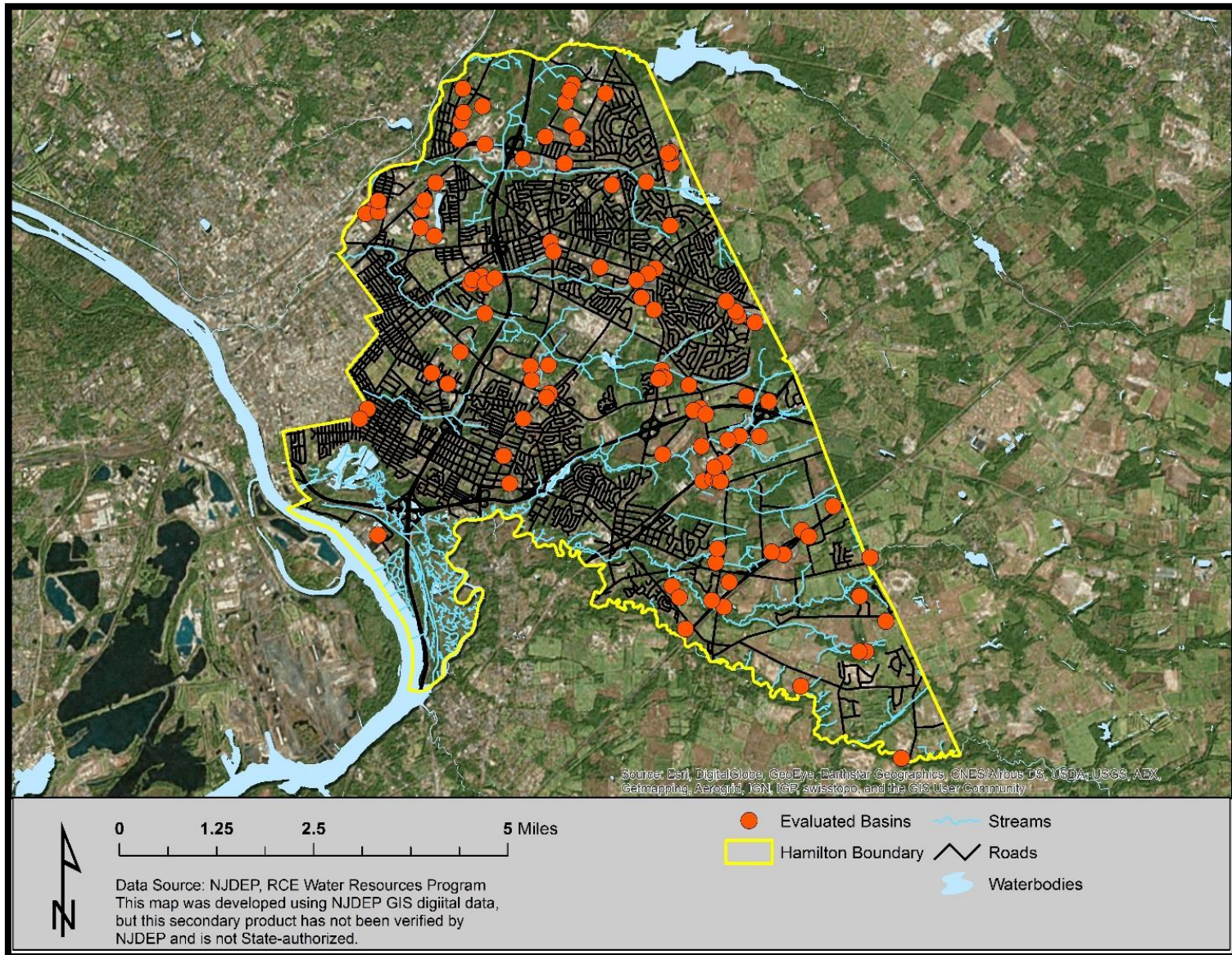
Funding for this project was generously provided by the **Township of Hamilton, Mercer County, NJ** and in part by the **New Jersey Agricultural Experiment Station** through the United States Department of Agriculture.

Introduction

During the summer of 2017, the Rutgers Cooperative Extension (RCE) Water Resources Program continued the assessment of Hamilton Township's stormwater management basins with a goal to assess the new or remaining basins throughout the Township. These assessments are needed to determine the overall state of existing stormwater infrastructure and to identify structural and maintenance problems. Once the problems have been identified, staff can begin designing and implementing solutions. A web tool built through the ESRI Collector App was used for identifying and recording key issues occurring within the existing stormwater basins. Year 4 efforts focused on using the same criteria as used in previous years to identify key structural integrity issues, maintenance deficiencies, and overall functionality in new basins within the Township.

During August 2017, staff and students conducted assessments of 105 basins throughout Hamilton Township (Figure 1). Many of the basins assessed were newly constructed since the previous years' assessments, while there were still many that had previously not been assessed. The basins to be assessed in Year 4 were identified by reviewing the New Jersey Hydrologic Modeling Database, compiled with New Jersey Soil Conservation District data, and through aerial imagery analysis.

Figure 1: Stormwater basins evaluated during the summer of 2017



Findings

Upon completion of the field visits and assessments, RCE Water Resources Program staff and students compiled the collected data to generate maps using Geographic Information System (GIS) databases highlighting results and locating priority basins in need of maintenance, repair, and further investigation. Each map is accompanied by a list of the basins identified in the map.

Maps in this report include:

Basins That Require Cleaning or Maintenance

This map (Attachment 2A) identifies stormwater basins that have components that need to be cleaned or maintained. Debris, leaves, trash, sediment, and/or grass clippings may be preventing the facility from functioning properly. The work needed to get the facility fully operational should be minimal. Site visits noted that little or no routine maintenance is being done at the facility, and/or vegetation and debris have compromised the integrity of the system. More effort is needed to ensure the facility is operating effectively, and a routine maintenance program should be implemented to keep the system functioning.

Basins That Require Repair

This map (Attachment 2C) identifies stormwater basins that have structural components that are broken, deteriorated, and/or missing. Major repairs are those that cause the system to no longer function as designed and may be a safety hazard. Immediate action is needed to make the facility operational and safe. Minor repairs are those that impede the functionality somewhat, but not completely. Action should be taken as quickly as possible to avoid further deterioration of the structure.

Basins with Standing Water

This map (Attachment 2D) identifies stormwater basins where evidence of standing water was noted during the site visit. Standing water in basins for a period longer than 72 hours after a storm event can present a serious health risk. Immediate action should be taken to further investigate these basins and determine the reason for water to remain in the systems. It is anticipated that repairs will be necessary in many of these facilities to drain and to ensure that the facility functions properly.

Priority Basins

This map (Attachment 2E) identifies stormwater basins where multiple issues were noted during the site visit. Basins were categorized from no priority with a score of zero (not shown on map) to high priority with a score of four, to organize the severity of repairs and maintenance needed. It is likely that multiple actions will be needed to get those facilities with a score of four fully operational and functioning as designed.

Basins Suitable for Water Quality and Infiltration Retrofits

This map (Attachment 2F) identifies stormwater basins where simple, cost-effective modifications to the facility could be made to increase the basin's ability to capture, filter, and infiltrate runoff during smaller storm events to protect water quality and promote groundwater recharge. Basins were selected in areas where available soils data indicate that infiltration is possible. When considering bioretention retrofits to improve infiltration (Map 2F), certain slope requirements must be achieved to ensure proper functionality. The soil groups can only be A and B for proper infiltration to occur. In addition, bioretention areas must be at least two (2) feet from the seasonal high water table. Areas of concern would be considered areas with a slope higher than 5%, hydrologic soil groups C and D, and depth to seasonal high groundwater table less than two (2) feet. Please refer to the "Hamilton Township Soil Suitability for Stormwater BMPs" report for more precise information regarding soil categorization.

Basins Maintained by New Jersey Turnpike Authority (NJTA) and No Access Basins

This map (Attachment 2G) identifies stormwater basins presumed to be maintained by the NJTA because of their lack of accessibility and location close to the Turnpike. Other non-accessible basins were noted and included in the database. These may have been non-accessible due to their location on private property, fencing, or other insurmountable conditions.

Summary and Conclusions

As the assessment process of the infrastructure network of Hamilton Township progresses forward, notable adverse trends among the stormwater management basins have become apparent. Proper

corrective action to rectify these issues among the basins, especially those that pose high risk for failure or have potential negative effects on the health, safety, and welfare of residents should be taken by the Township. Furthermore, educating the community on the vital role of stormwater management should be integrated into the repair and maintenance process of these basins. It is also important to remain observant for any opportunities where improvements can be made to increase infiltration rates and safeguard water quality.

Next Steps

Detention basins can often be improved upon with simple retrofits or alterations that improve the basin's ability to remove nonpoint source pollutants in a cost-effective manner. While improving water quality is a major goal associated with retrofits, increasing detention times and groundwater recharge rates will reduce runoff volumes entering local waterways, thereby reducing localized flooding. During the assessment process, staff and interns identified detention basins suitable for retrofits. These basins were evaluated to determine the most feasible retrofits based upon soil characteristics. Following is a list of the detention basins the RCE Water Resources Program recommends Hamilton Township consider as priority basins for repairs, retrofits, and modifications.

307. PITT OHIO Warehouse Basin



The detention basin located on the premises of the PITT OHIO Trucking Company Warehouse is in an area suitable for an infiltration retrofit. Currently, the outlet structure is covered by overgrown vegetation causing debris to collect at the grate on the outlet. The functionality of the basin is impaired because of these conditions. To improve infiltration, the retrofit could involve planting with native plants or allowing the basin to naturalize. The current vegetation should also be managed more frequently. This strategy will enhance the capture of debris entering the basin while simultaneously reducing pollutants before discharging downstream.

310. Sirius XM Radio Offices Basin



The basin near Sirius XM Radio on 1st Avenue is in need of repairs to remove the standing water from the basin. Evidence of excessive sediment accumulation at the inlets and low flow channel was noted during the assessment. Vegetation overgrowth was also noted at the inlet and should be regularly maintained to prevent the build up of sediment. This basin includes a concrete low flow channel, which could also be removed. Once removed, it could be replaced with a stone-lined feature to enhance stormwater infiltration, reduce pollutants, and improve water quality downstream.

315. Hobbs Road Neighborhood Basin



The basin located behind the houses on Hobbs Road off of Cypress Lane features low flow channels that lead to a catch basin. This site is a high priority candidate for transforming the existing overgrown detention basin into a planted bioswale. The detention basin is approximately 450 feet long by 20 feet wide at its widest point and located at the southeastern corner of neighborhood. The basin currently is a mown lawn with wooded trees surrounding the low flow channels. To retrofit the present condition, plans should include removing the concrete and 12-18 inches of soil/sediment from the low flow channels and backfilling with appropriate bioretention soil amendments. The swale can then be planted with a diverse mix of native plants and meadow grasses that will provide color and visual interest, treat water quality, and reduce flooding. In addition to the environmental benefits, with proper signage this bioswale retrofit would provide an opportunity to the public in learning about native plants, local wildlife habitat, and water resources issues in New Jersey.

317. St. George Greek Orthodox Church Basin



The detention basin located at the St. George Greek Orthodox Church is in an area suitable for an infiltration retrofit. At the time of assessment, the basin appeared to be well maintained but there was standing water present in the outlet structure. A simple retrofit design can improve its functioning to address water quality concerns and promote infiltration. Currently the basin has a 15-inch diameter outlet orifice that provides little or no stormwater detention during small rain events. To mitigate this issue, a steel restrictor plate with a 4-6 inch outlet orifice can be installed over the existing 13-inch outlet pipe. In addition, the entire low flow channel can be replaced with a 3-foot wide by 6-12 inch deep stream-bed feature. This will in turn slow the volume of runoff travelling through the basin as well as allow water to infiltrate back into the soil.

320. Hamilton Train Station Basin



The basin is located in the parking lot of the Hamilton train station and currently has an eroding inlet structures and outlet orifices clogged with sediment impeding their function. A viable retrofit for this basin would be to convert it to a swale-like feature with a stone lined channel. A vegetated swale would include removal of the concrete low flow channel and planting it with native plant species to improve infiltration and groundwater recharge. This mitigation strategy reduces total suspended solids while improving water quality and aesthetics.

333. Mercer Elementary School Basin



The basin located at the Mercer Elementary School occupies an area suitable for an infiltration retrofit. Considering that this basin has soils with good infiltration rates, a relatively inexpensive retrofit design would include removing all or one section of the concrete low flow channel and allowing naturalization of the basin bottom. Currently, smaller more frequent storm events are travelling directly from the inlets to the outlet without any treatment. With this retrofit, sediment, litter, and debris will settle out in the grassed areas as the stormwater infiltrates, in turn reducing localized flooding and nonpoint source pollutants. Leaving the gabion baskets around the outlet will also help to catch sediment and debris, and keep the outlet area easy to access for maintenance.

352. Himalaya International Basin



The detention basin located on the eastern side of the University Office Plaza II building is within an area suitable for an infiltration retrofit. Currently the basin is receiving excessive sediment loads from the parking lot. Sediment deposits have built-up in multiple locations restricting stormwater flow and causing erosion at the inlets and outlet. A retrofit plan is needed to alleviate the issue. First, removal of the sediment and existing concrete low flow channels from the basin should be done. A 12-18 inch deep, 3-4 foot wide stream-bed feature consisting of river stone can replace the concrete low flow channels and lead to a large rain garden near the outlet structure. Furthermore, planting and/or naturalizing the rain garden would contribute significantly to capturing and stabilizing the amount of sediment passing through the basin while improving water quality and enhancing aesthetics.

421. PSE&G Building Klockner Road Basin



The basin located in the front of the PSE&G building is considered in need of maintenance. It appears as though several trees were recently cut down from the center of this smaller sized basin. Standing water that is present at the basin appears to have been there for longer than 72 hours, due to the presence of algae in the water. The trees that were cut down are likely the cause for the lack of infiltration occurring in the basin. The basin is currently in need of cleaning and maintenance due to debris and water accumulated in the basin bottom. Naturalizing with woody vegetation will help to reduce standing water and increase the long term functionality of the basin. Routine scheduled maintenance of the inlet pipe is needed and will help to reduce labor and equipment costs without compromising the basin's functionality.

440. Great Oak Road Residential Basin



The basin behind the on Greak Oak Road is located in an area suitable for an infiltration retrofit. The preliminary step should involve removing excess sediment and debris from the inlets and outlet grate. A retrofit design could include transforming the existing basin into a naturalized meadow. The low flow channels can be removed and replaced with stone to allow for better infiltration. The basin bottom should then be left to naturalize or be planted with a meadow seed mix to establish plant growth with deep root systems to promote infiltration and reduce future clogging issues.

Attachment 1: Stormwater Basin Inspection Checklist



Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



GENERAL INFORMATION		Site ID:
Name(s) person inspecting the basin:		Date:
Location Address and Cross Streets:	Watershed:	
Name of Creek, Stream, or area into which the basin discharges:	Property Owner / Tax Parcel Block & Lot:	
Contact information:		
STRUCTURAL COMPONENTS		
Basin description, size and depth:	Is the basin accessible to maintain? Yes / No Is it maintained: Mowed, clear of woody plants, inlet/outlet blockages?	
Number of inlets:	Outlet diameter:	

GENERAL OBSERVATIONS	YES	NO	NOTES/REMARKS
1) Any reports on the basin not functioning?			
2) Are there any unauthorized or malfunctioning structures in the basin?			
3) Are there concrete low flow channels. Is the water entering the basin directly exiting the basin outlet without coming in contact with the basin bottom soil and vegetation?			
4) Is there standing water or evidence of standing water in the basin?			
INLET/S			
1) Signs of breakage, damage, corrosion or rusting of inlet structure/pipe?			
2) Debris or sediment accumulation in or around the inlet clogging the inlet opening/pipe?			
3) Signs of erosion, scour or gullies; rock or vegetation above or around the inlet structure?			
4) Tree roots, woody vegetation growing close to or through the inlet structure or a situation impacting the structure's integrity?			
5) If the inlet has a pretreatment structure (trash rack, forebay) is it filled w/ debris or sediment?			
BASIN			
1) Accumulation of debris or litter within basin?			
2) Exposed dirt or earth visible, are there areas without vegetation or where turf is damaged?			
3) Excess sediment accumulation in the basin?			
4) Basin walls/embankment eroded, slumping, caved or being undermined?			



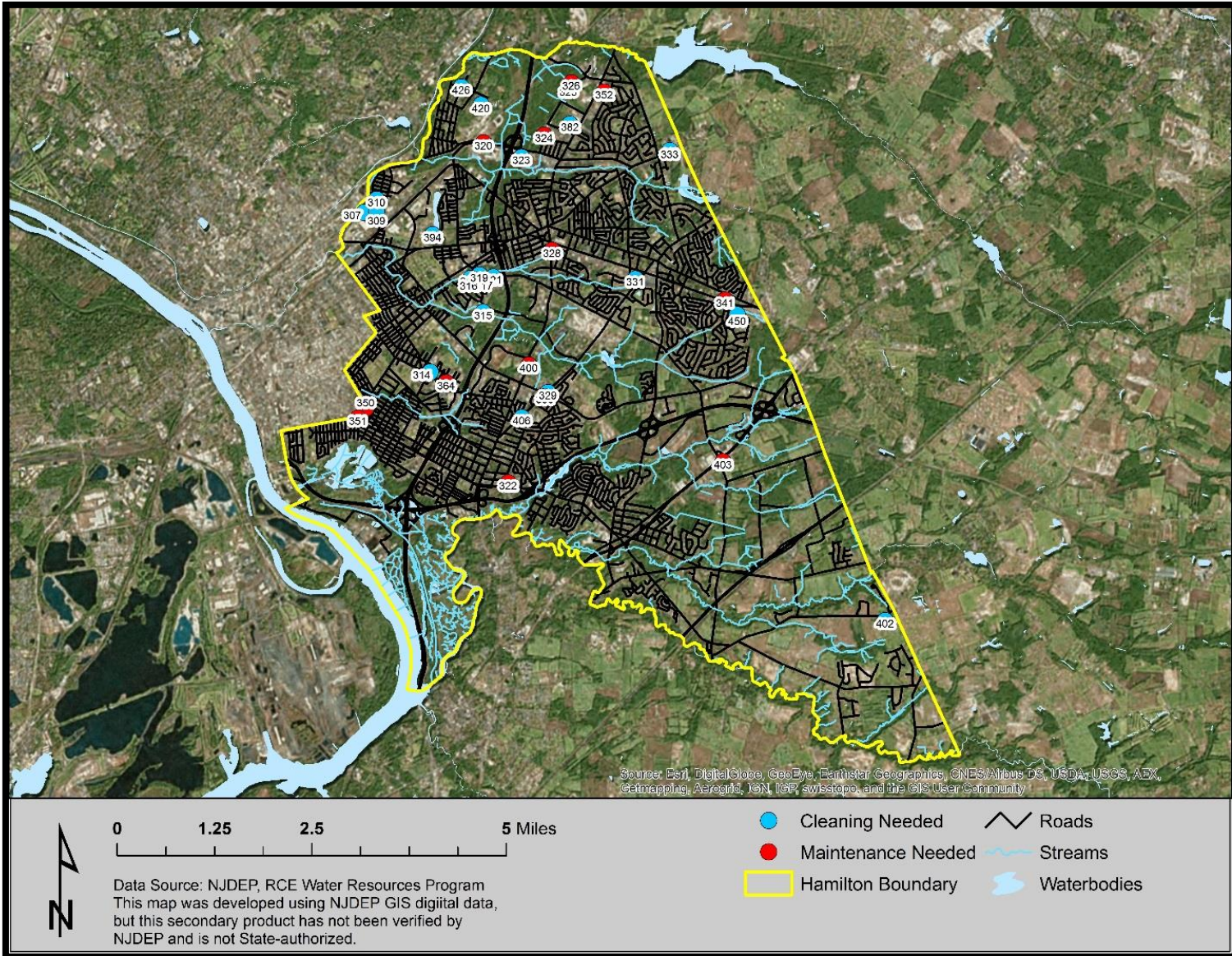
Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



OUTLET	YES	NO	NOTES/REMARKS
1) Breakage, damage, corrosion or rusting to outlet pipe or conveyance?			
2) Signs of erosion, scour or gullies; rock or vegetation above or around the outlet structure?			
3) Debris or sediment accumulation in or around the outlet pipe (i.e. debris or sediment)?			
4) Accumulation of debris or litter in or around outlet?			
5) Tree roots or woody vegetation impacting the outlet or causing potential damage to the structure?			
SECONDARY/EMERGENCY OVERFLOW SPILLWAY			
1) Are pipes, conduits, or conveyances free of debris, clogs and in good condition? (i.e. no visible cracks, breakage slumping)			
2) Large tree or root growth close to pipes or conveyances with the potential to crack structure or impede flow?			
3) Signs of erosion, scour or gullies; rock or vegetation above or around the spillway?			
BASIN OUTFALL AREA			
1) Signs of stormwater exiting the basin in an uncontrolled manner over or through wall or berm?			
2) Signs of erosion, scour or gullies; rock or vegetation at or down slope of the outfall?			
RECOMMENDATIONS FOR WATER QUALITY IMPROVEMENTS			
1) Reduce mowing 2) Plant buffers 3) Establish meadows 4) Retrofit with infiltration structures or other strategies 5) Other			
SUMMARY AND NOTES: Identify unique characteristics and/or opportunities			

Attachments 2A-2G: Evaluation Maps

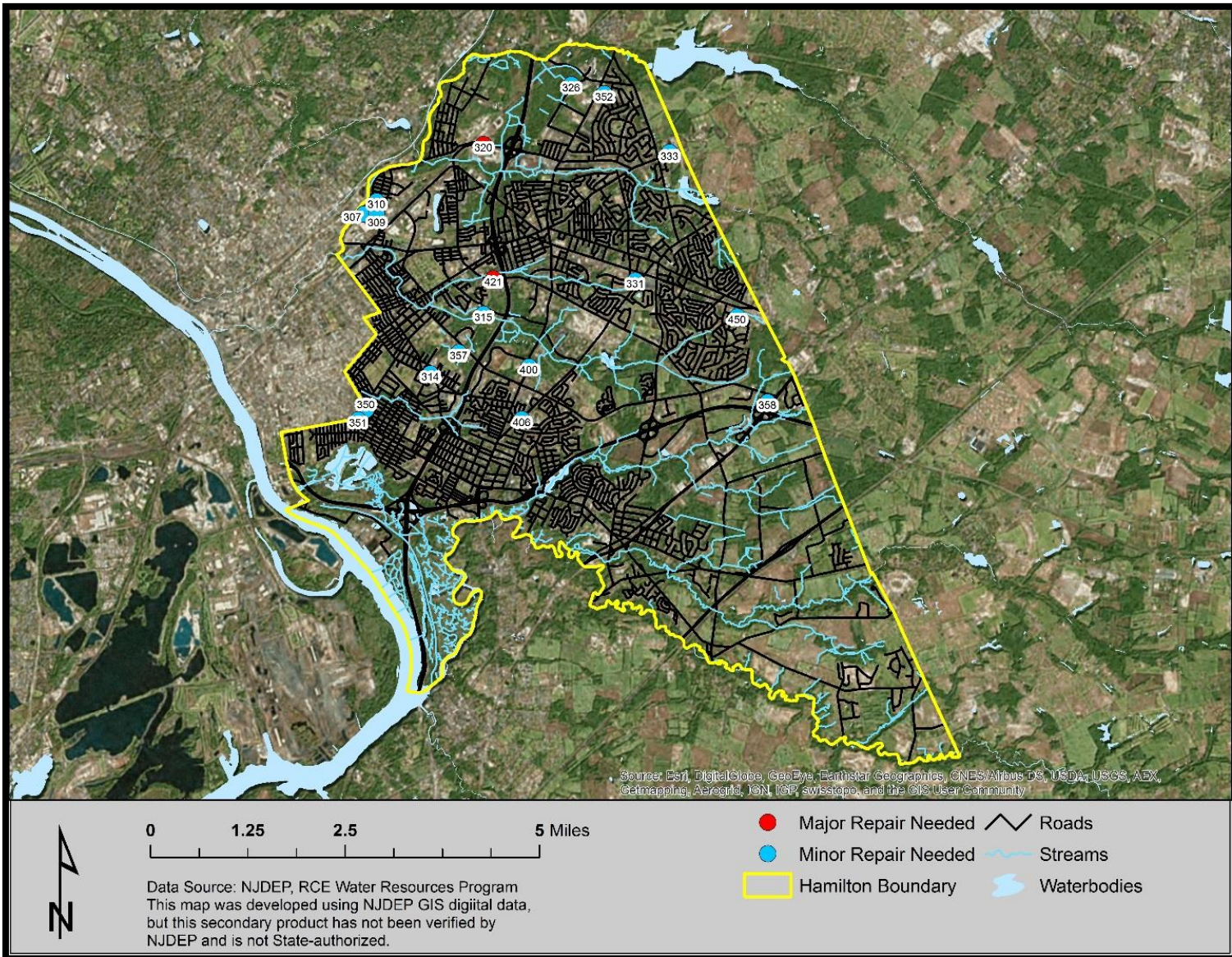
Attachment 2A: Basins in Hamilton that Require Cleaning or Maintenance



Basin ID	Type	Condition	WRPnotes
394	Retention	cleaning needed	
333	Detention	cleaning needed	Sediment in flow channels;Standing water in outlet
420	Retention	cleaning needed	
426	Detention	cleaning needed	
325	Detention	cleaning needed	
382	Detention	cleaning needed	Sediment in flow channels;
323	Retention	cleaning needed	
402	Detention	cleaning needed	Inlet and outlet need cleaning
406	Detention	cleaning needed	
319	Detention	cleaning needed	Vines growing on the outlet structure
315	Detention	cleaning needed	Flow channels flow to catch basin
316	Detention	cleaning needed	
318	Detention	cleaning needed	Sediment in flow channel
307	Detention	cleaning needed	Vegetation overgrowth at outlet
309	Infiltration	cleaning needed	
310	Detention	cleaning needed	Deep standing water;Sediment & Veg everywhere
317	Detention	cleaning needed	Standing water in outlet structure
421	Infiltration	cleaning needed	
314	Detention	cleaning needed	Outlet structure is falling apart
450	Detention	cleaning needed	Sediment accumulation;Standing water everywhere
329	Detention	cleaning needed	Outlet grate is clogged
330	Infiltration	cleaning needed	Sediment, water, and vegetation in flow channels
331	Detention	cleaning needed	No grate on top of outlet
324	Detention	maintenance needed	Sediment in flow channel
403	Detention	maintenance needed	Flow channels have sediment, water, plant growth
320	Detention	maintenance needed	Outlet completely clogged;Mosquitoes in water
326	Detention	maintenance needed	Outlet missing grate on top
352	Detention	maintenance needed	Inlets need major repair;Sediment in flow channels
350	Detention	maintenance needed	Sandy base of basin

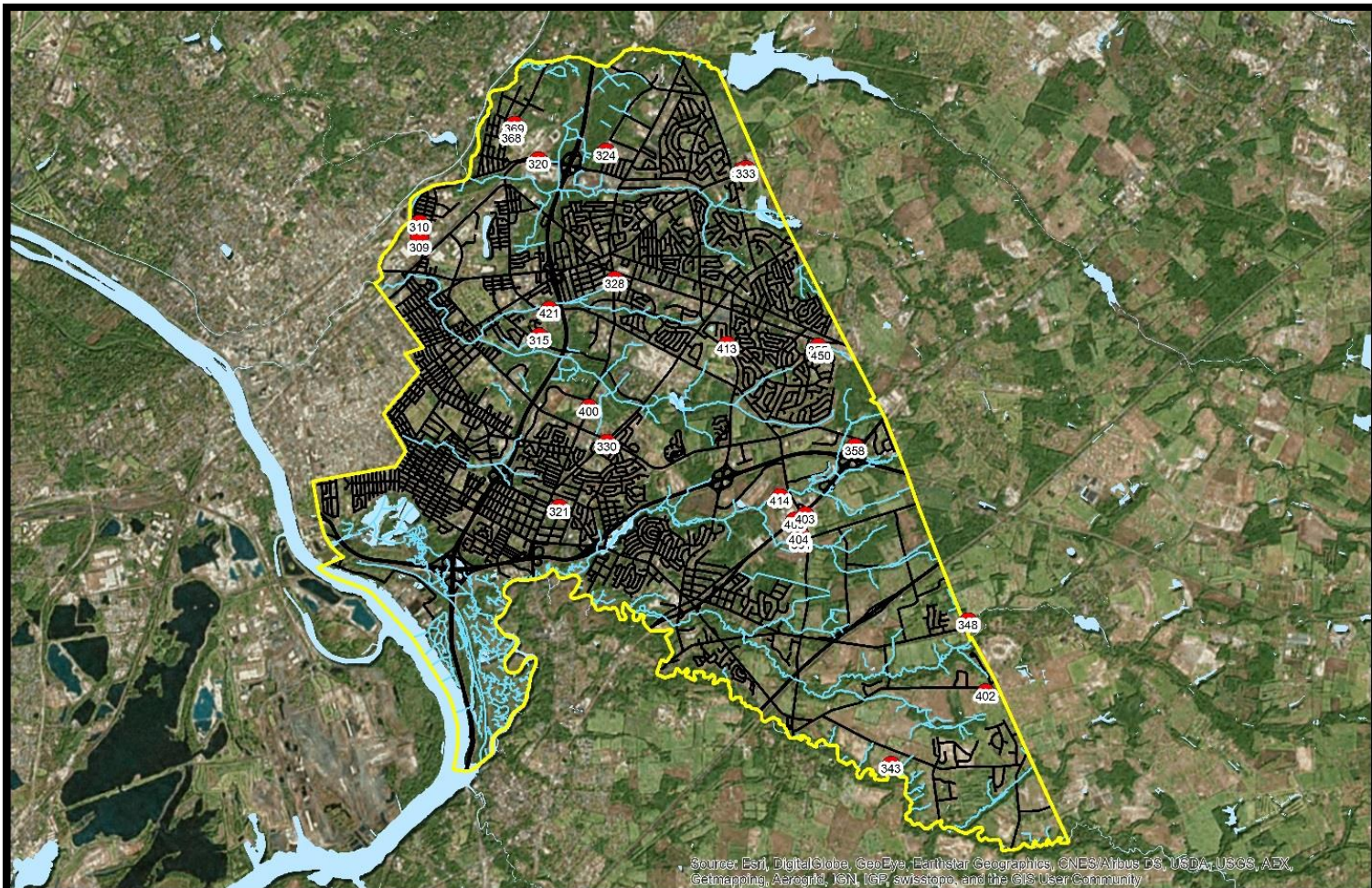
351	Detention	maintenance needed	Sandy base of basin
364	Detention	maintenance needed	One inlet is buried
400	Detention	maintenance needed	Sediment and water at inlet orifice
328	Detention	maintenance needed	Outlet clogged with sediment and vegetation
341	Detention	maintenance needed	Rocks have fallen into inlet
322	Detention	maintenance needed	Vegetation surrounding outlet

Attachment 2C: Basins in Hamilton that Require Repair



Basin ID	Type	Repair	WRPnotes
320	Detention	major repair	Outlet completely clogged;Mosquitoes in water
421	Infiltration	major repair	
307	Detention	minor repair	Vegetation overgrowth at outlet
309	Infiltration	minor repair	
310	Detention	minor repair	Deep standing water;Sediment & Veg everywhere
314	Detention	minor repair	Outlet structure is falling apart
315	Detention	minor repair	Flow channels flow to catch basin
326	Detention	minor repair	Outlet missing grate on top
331	Detention	minor repair	No grate on top of outlet
333	Detention	minor repair	Sediment in flow channels;Standing water in outlet
350	Detention	minor repair	Sandy base of basin
351	Detention	minor repair	Sandy base of basin
352	Detention	minor repair	Inlets need major repair;Sediment in flow channels
357	Retention	minor repair	Erosion around outlet structure;3" water in outlet
358	Detention	minor repair	Water pools in areas because bottom isn't flat
400	Detention	minor repair	Sediment and water at inlet orifice
406	Detention	minor repair	
450	Detention	minor repair	Sediment accumulation;Standing water everywhere

Attachment 2D: Basins in Hamilton With Standing Water



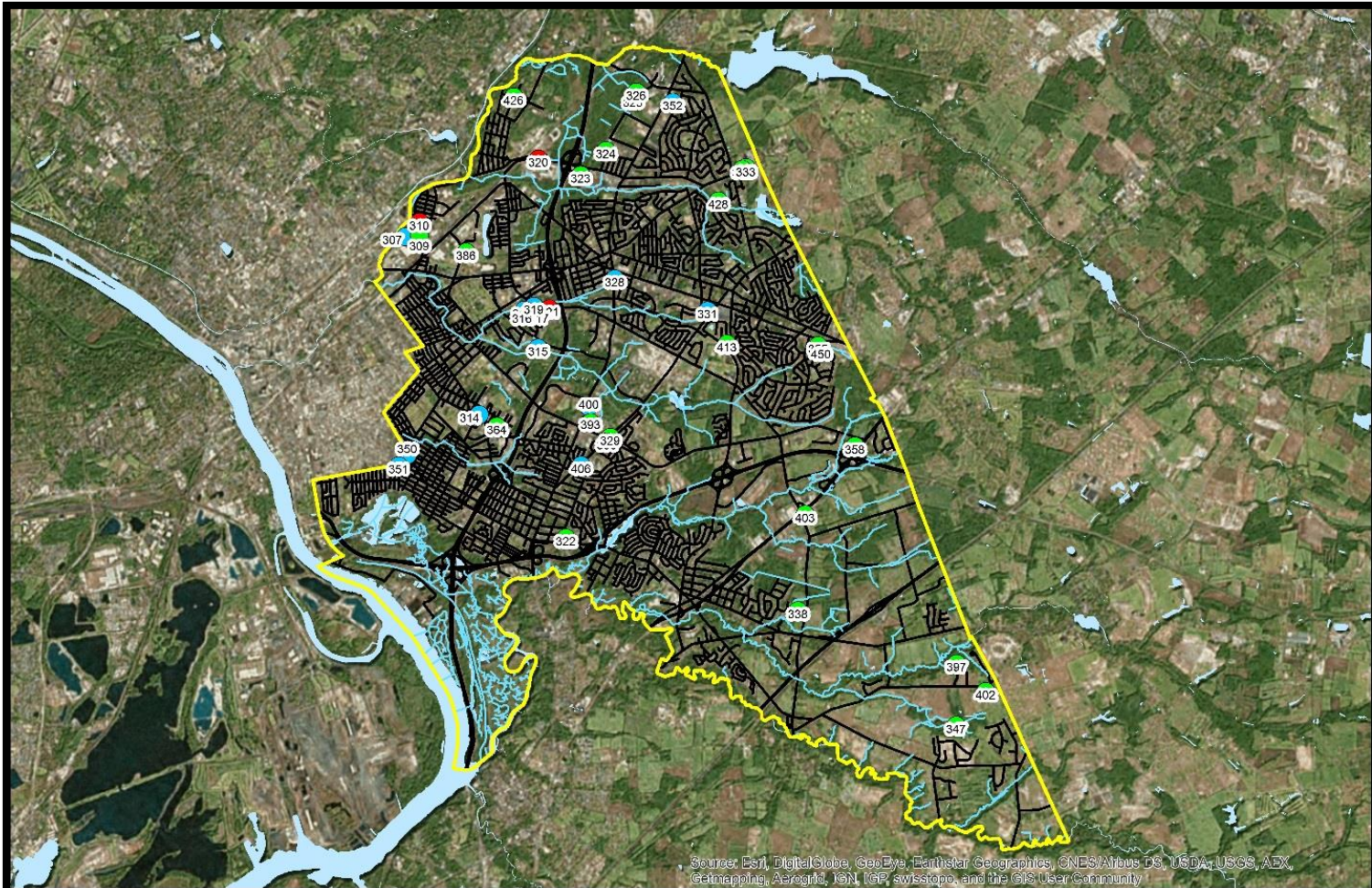
0 1.25 2.5 5 Miles

Data Source: NJDEP, RCE Water Resources Program
This map was developed using NJDEP GIS digital data,
but this secondary product has not been verified by
NJDEP and is not State-authorized.

- Standing Water Present
- ▭ Hamilton Boundary
- ▬ Roads
- ~ Streams
- ☑ Waterbodies

Basin ID	Type	StandingWater	WRPnotes
324	Detention	present	Sediment in flow channel
403	Detention	present	Flow channels have sediment, water, plant growth
413	Detention	present	mosquitoes present in outlet
414	Detention	present	sediment and plants accumulating at an inlet
343	Detention	present	
321	Infiltration - no outlets	present	
333	Detention	present	Sediment in flow channels;Standing water in outlet
320	Detention	present	Outlet completely clogged;Mosquitoes in water
368	Detention	present	
369	Detention	present	
332	Detention	present	
348	Detention	present	
402	Detention	present	Inlet and outlet need cleaning
315	Detention	present	Flow channels flow to catch basin
309	Infiltration	present	
310	Detention	present	Deep standing water;Sediment & Veg everywhere
421	Infiltration	present	
450	Detention	present	Sediment accumulation;Standing water everywhere
400	Detention	present	Sediment and water at inlet orifice
330	Infiltration	present	Sediment, water, and vegetation in flow channels
328	Detention	present	Outlet clogged with sediment and vegetation
355	Detention	present	
404	Detention	present	Some standing water in basin
361	Detention	present	
405	Detention	present	Standing water in flow channel
358	Detention	present	Water pools in areas because bottom isn't flat

Attachment 2E: Priority Basins in Hamilton



0 1.25 2.5 5 Miles

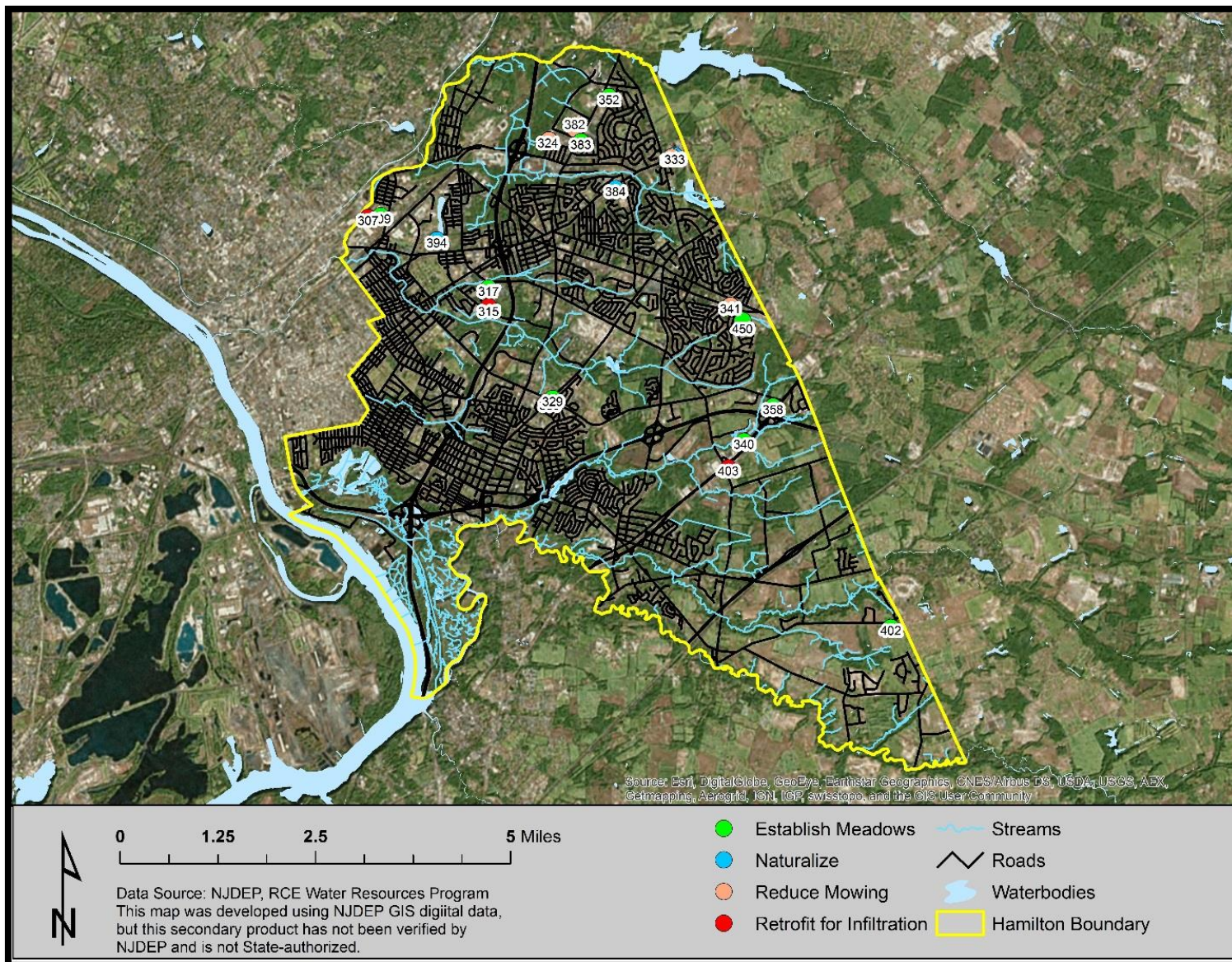
Data Source: NJDEP, RCE Water Resources Program
 This map was developed using NJDEP GIS digital data,
 but this secondary product has not been verified by
 NJDEP and is not State-authorized.

- Low Priority (2)
- Medium Priority (3)
- High Priority (4)
- Hamilton Boundary
- Streams
- Roads
- Waterbodies

Basin ID	Type	Priority	Notes
324	Detention	2	Sediment in flow channel
403	Detention	2	Flow channels have sediment, water, plant growth
413	Detention	2	mosquitoes present in outlet
428	Detention	2	
426	Detention	2	
326	Detention	2	Outlet missing grate on top
325	Detention	2	
332	Detention	2	
323	Retention	2	
338	Detention	2	Vegetation around outlet is overgrown
402	Detention	2	Inlet and outlet need cleaning
347	Retention	2	Phragmites (invasive species) are present
397	Retention	2	Aquatic plants growing
386	Detention	2	
316	Detention	2	
309	Infiltration	2	
364	Detention	2	One inlet is buried
393	Detention	2	
329	Detention	2	Outlet grate is clogged
330	Infiltration	2	Sediment, water, and vegetation in flow channels
355	Detention	2	
358	Detention	2	Water pools in areas because bottom isn't flat
322	Detention	2	Vegetation surrounding outlet
333	Detention	3	Sediment in flow channels;Standing water in outlet
352	Detention	3	Inlets need major repair;Sediment in flow channels
350	Detention	3	Sandy base of basin
351	Detention	3	Sandy base of basin
406	Detention	3	
319	Detention	3	Vines growing on the outlet structure

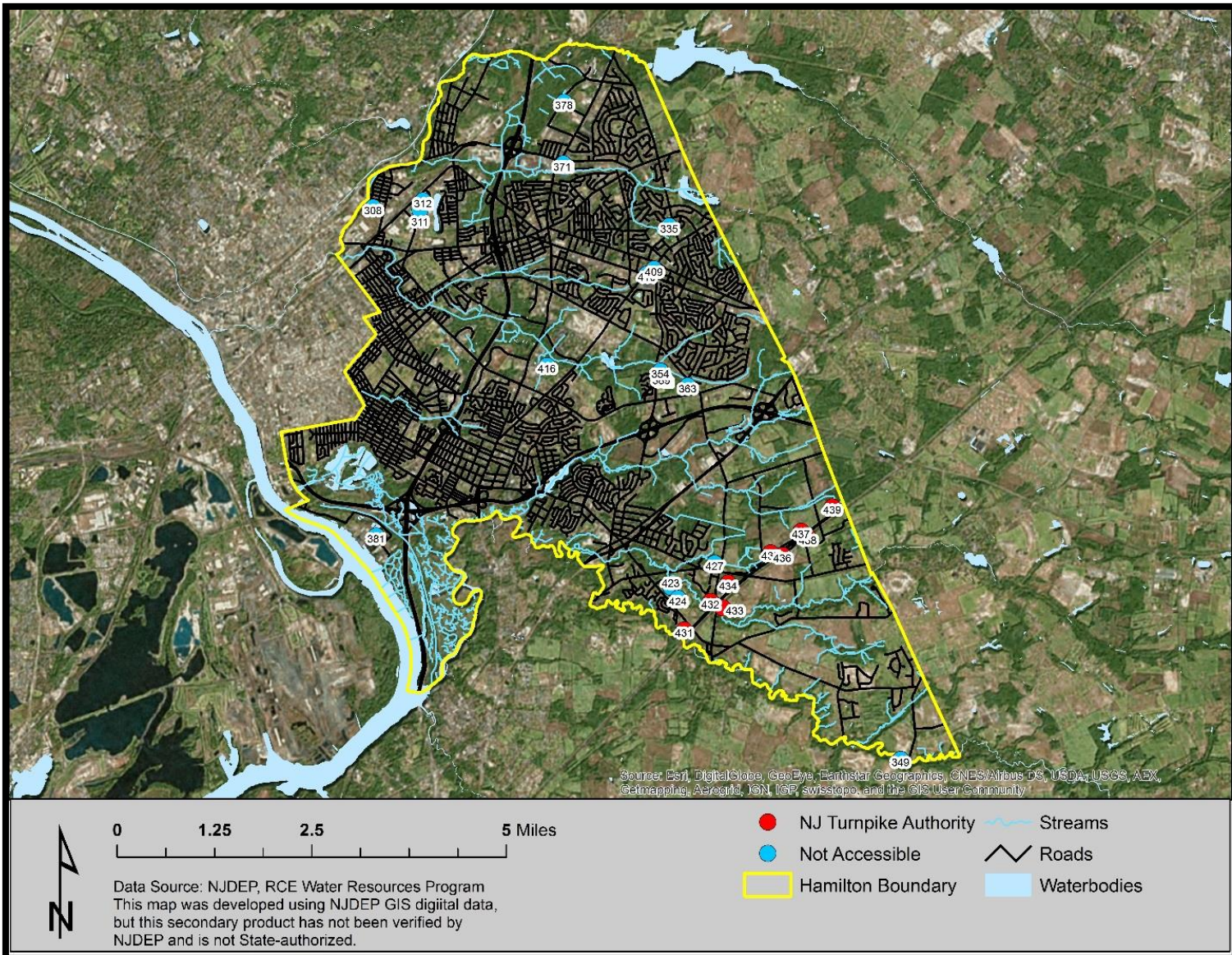
315	Detention	3	Flow channels flow to catch basin
318	Detention	3	Sediment in flow channel
307	Detention	3	Vegetation overgrowth at outlet
317	Detention	3	Standing water in outlet structure
314	Detention	3	Outlet structure is falling apart
450	Detention	3	Sediment accumulation;Standing water everywhere
400	Detention	3	Sediment and water at inlet orifice
328	Detention	3	Outlet clogged with sediment and vegetation
331	Detention	3	No grate on top of outlet
320	Detention	4	Outlet completely clogged;Mosquitoes in water
310	Detention	4	Deep standing water;Sediment & Veg everywhere
421	Infiltration	4	

Attachment 2F: Basins in Hamilton Suitable for Retrofits



Basin ID	Type	Retrofit	WRPnotes
340	Infiltration	establish meadows	No outlet structure
352	Detention	establish meadows	Inlets need major repair;Sediment in flow channels
383	Infiltration	establish meadows	
402	Detention	establish meadows	Inlet and outlet need cleaning
309	Infiltration	establish meadows	
317	Detention	establish meadows	Standing water in outlet structure
450	Detention	establish meadows	Sediment accumulation;Standing water everywhere
329	Detention	establish meadows	Outlet grate is clogged
330	Infiltration	establish meadows	Sediment, water, and vegetation in flow channels
358	Detention	establish meadows	Water pools in areas because bottom isn't flat
394	Retention	naturalize	
384	Infiltration - no outlets	naturalize	Sandy base of basin
324	Detention	reduce mowing	Sediment in flow channel
333	Detention	reduce mowing	Sediment in flow channels;Standing water in outlet
382	Detention	reduce mowing	Sediment in flow channels;
332	Detention	reduce mowing	
341	Detention	reduce mowing	Rocks have fallen into inlet
315	Detention	retrofit for infiltration	Flow channels flow to catch basin
403	Detention	retrofit for infiltration	Flow channels have sediment, water, plant growth
307	Detention	retrofit for infiltration	Vegetation overgrowth at outlet

Attachment 2G: Basins in Hamilton Maintained by NJTA or Not Accessible



Basin ID	Notes
436	NJ Turnpike Authority
439	NJ Turnpike Authority
437	NJ Turnpike Authority
438	NJ Turnpike Authority
434	NJ Turnpike Authority
433	NJ Turnpike Authority
432	NJ Turnpike Authority
431	NJ Turnpike Authority
435	NJ Turnpike Authority
308	Not Accessible
311	Not Accessible
312	Not Accessible
349	Not Accessible
354	Not Accessible
335	Not Accessible
363	Not Accessible
371	Not Accessible
372	Not Accessible
378	Not Accessible
381	Not Accessible
389	Not Accessible
392	Not Accessible
409	Not Accessible
410	Not Accessible
416	Not Accessible
423	Not Accessible
424	Not Accessible
427	Not Accessible

Attachment 3: Stormwater Basin Assessments



ID#	Location	ID#	Location	ID#	Location
307.	199 Whitehead Road	331.	284 Herbert Road	363.	3530 Klockner Road
308.	265 Whitehead Road	332.	99 Robin Drive	364.	150 Toronita Avenue
309.	245 Whitehead Road	333.	1031 Mercerville Edinburg Road	365.	401 Cabot Drive
310.	5 1st Avenue	335.	233 Hughes Drive	366.	Klockner and Kuser Roads
311.	2 Sculptors Way	338.	4201 Crosswicks Hamilton Square Road	367.	Klockner and Kuser Roads
312.	3 Fairgrounds Road	339.	750 US-130	368.	227 Princeton Avenue
314.	125 Hovey Avenue	340.	780 US-130	369.	15 Princeton Avenue
315.	390 Cypress Lane	341.	2150 Route 33	371.	3161 Quakerbridge Road
316.	8 Lori Court	342.	800 Marketplace Boulevard	372.	3161 Quakerbridge Road
317.	1200 Klockner Road	346.	10 Jeremy Place	377.	2297 Route 33
318.	2147 Hamilton Avenue	347.	3 Jeremy Place	378.	5 Nami Lane
319.	1058 Klockner Road	348.	1248 Yardville Allentown Road	379.	633 Route 130
320.	720 Sloan Avenue	350.	Chambers Street & Cedar Lane	381.	1463 Lambertson Road
321.	1900 Arena Drive	351.	Chambers Street & Cedar Lane	382.	7 Quakerbridge Plaza Drive
322.	151 Gropp Avenue	352.	3710 Quakerbridge Road	383.	3469 Mercerville-Quakerbridge Road
323.	325 Sloan Avenue	354.	1760 Yardville-Hamilton Square Road	384.	677 Edinburg Road
324.	10 Quakerbridge Plaza	355.	2265 NJ Route 33	386.	17-19 Fairgrounds Road
325.	49 Thomas J. Rhodes Industrial Drive	356.	3666 Klockner Road	390.	1712 Yardville Hamilton Square Road
326.	49 Thomas J. Rhodes Industrial Drive	357.	4 Sundance Drive	393.	1155 Whitehorse Mercerville Road
327.	200 NJ-33	358.	Kuser Road & Route 130	394.	1700 Nottingham Way
328.	2382 Whitehorse Mercerville Road	360.	655 Route 130	397.	395 Old York Road
329.	1130 Whitehorse Hamilton Square Road	361.	655 Route 130	400.	1245 Whitehorse Mercerville Road
330.	1801 Kuser Road	362.	9 Rose Everett Court	402.	501 Old York Road



ID#	Location
403.	Route 130 and Crosswicks Hamilton Square Road
404.	655 Route 130
405.	655 Route 130
406.	817 Whitehorse Hamilton Square Road
407.	4 Black Forest Road
412.	2 Sparrow Drive
413.	2244 Yardville Hamilton Road
414.	1 Back Creek Way
416.	1300 Whitehorse Hamilton Square Road
419.	Carlisle Avenue & Princeton Avenue
420.	900 Grand Central Drive
421.	1325 Klockner Road
423.	5443 South Broad Street
424.	5443 South Broad Street
426.	Laura & Evelyn Avenue
427.	4371 Crosswicks Hamilton Square Road
428.	21 Dogwood Lane
429.	2485 East State Street
430.	811 Route 33
431.	5600 South Broad Steet
432.	4641 Crosswicks Hamilton Square Road

ID#	Location
433.	4745 Crosswicks Hamilton Square Road
434.	4511 Crosswicks Hamilton Square Road
435.	130 Uncle Pete's Road
436.	75 Merrick Road
437.	200 Uncle Pete's Road
438.	89 Merrick Road
439.	210 Merrick Road
440.	28 Great Oak Road

Hamilton Township
Stormwater Basin Assessment
307. PITT OHIO Logistics Basin

Address:
199 Whitehead Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
307. PITT OHIO Logistics Basin

Address:
199 Whitehead Road
Hamilton Township, NJ 08610



Inlet



Outlet

Notes:

- Excess sediment and woody vegetation near outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
308. George Dapper Bus Inc. Basin

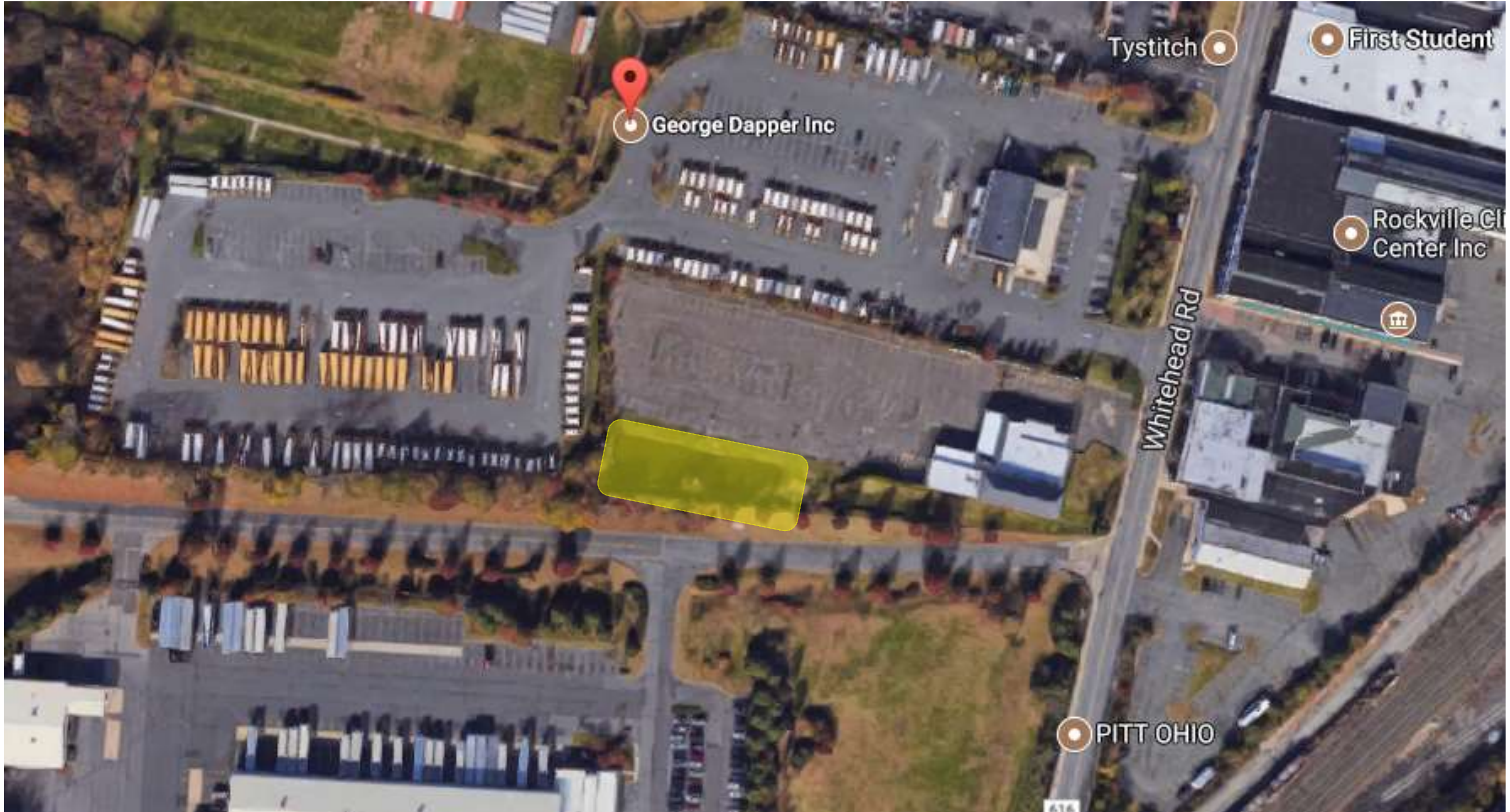
Address:
265 Whitehead Road
Hamilton Township, NJ 08610



No access to basin

Hamilton Township
Stormwater Basin Assessment
309. 245 Whitehead Road Basin

Address:
245 Whitehead Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
309. 245 Whitehead Road Basin

Address:
245 Whitehead Road
Hamilton Township, NJ 08610



Notes:

- Some cleaning of garbage and debris needed
- Receives runoff from adjacent parking lot
- Overall well maintained retention basin

Hamilton Township
Stormwater Basin Assessment

310. Sirius XM Radio Basin

Address:
5 1st Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
310. Sirius XM Radio Basin

Address:
5 1st Avenue
Hamilton Township, NJ 08610



Overview of basin



Outlet

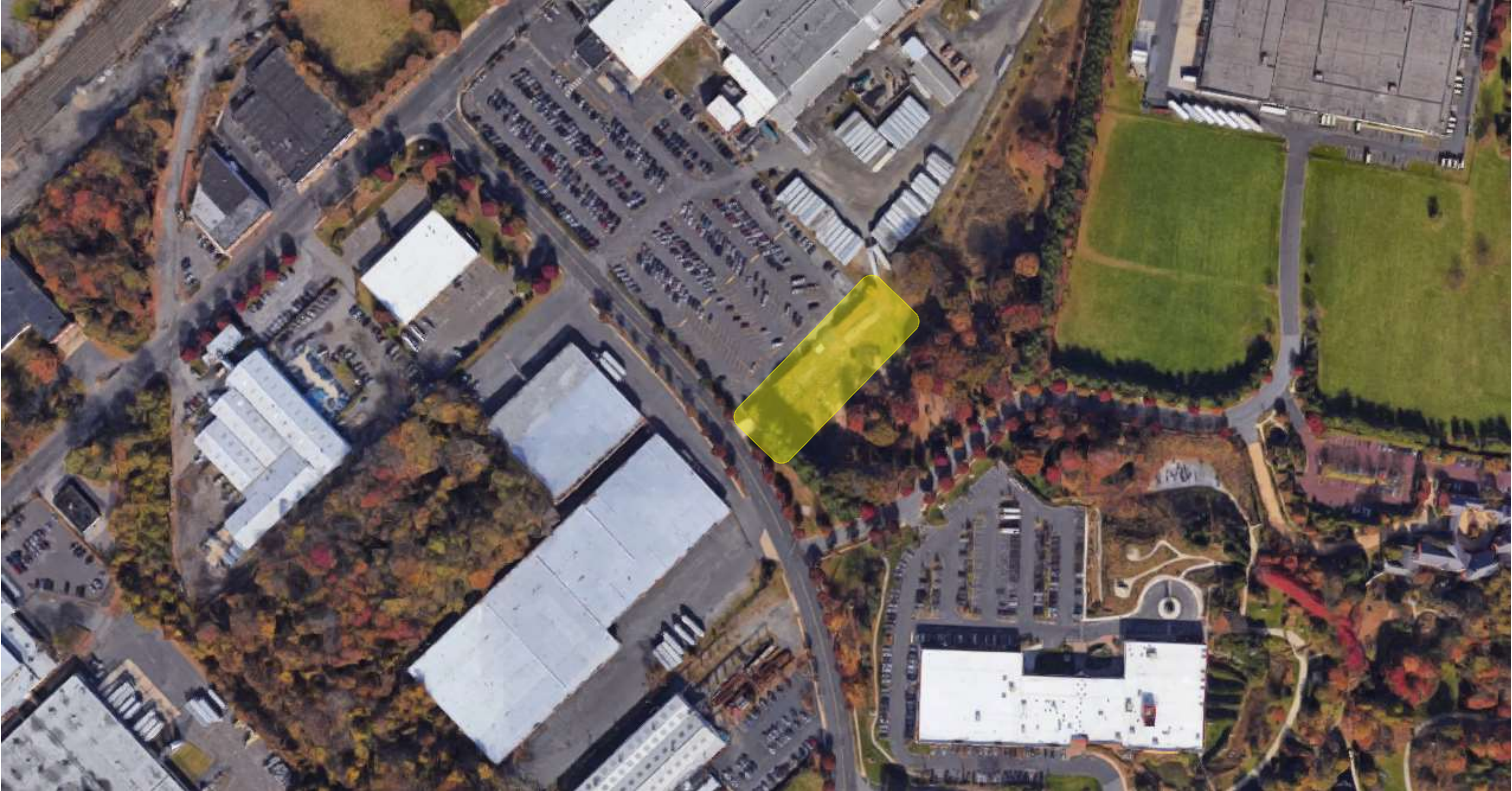
Notes:

- Low flow channels had standing water present and stagnant
- Outlet structure may need to be replaced in near future
- Woody plants growing near outlet structure
- Stone lined channel can be used to replace low flow channel

Hamilton Township
Stormwater Basin Assessment

311. Trane Building Basin

Address:
2 Sculptors Way
Hamilton Township, NJ 08610



No access to basin

Hamilton Township
Stormwater Basin Assessment

312. Ingersoll Rand Building Basin

Address:
3 Fairgrounds Road
Hamilton Township, NJ 08610



No access to basin

Hamilton Township
Stormwater Basin Assessment

314. Princeton Fuel Oil Basin

Address:
125 Hovey Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
314. Princeton Fuel Oil Basin

Address:
125 Hovey Avenue
Hamilton Township, NJ 08610



Overview of basin



Inlet

Notes:

- Stone lined flow channel
- Outlet structure needs to be repaired
- Overall well maintained besides outlet

Hamilton Township
Stormwater Basin Assessment
315. Hobbs Road Residential Basin

Address:
390 Cypress Lane
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
315. Hobbs Road Residential Basin

Address:
390 Cypress Lane
Hamilton Township, NJ 08610



Low flow channel leading to catch basin



Clean out in low flow channel



Outlet structure

Notes:

- Two low flow channels lead to a catch basin
- Basin can be naturalized using a stone lined channel to replace the low flow channel
- Reduce mowing and raise catch basin at the end of the low flow channels to allow better infiltration

Hamilton Township
Stormwater Basin Assessment

316. Lori Court Residential Basin

Address:
8 Lori Court
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
316. Lori Court Residential Basin

Address:
8 Lori Court
Hamilton Township, NJ 08610



Low flow channel



Outlet



Sediment in outlet

Notes:

- Replace low flow channels with stone to allow better infiltration
- Sediment in low flow channel and outlet

Hamilton Township
Stormwater Basin Assessment

317. St. George Greek Orthodox Church Basin

Address:
1200 Klockner Road
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment

317. St. George Greek Orthodox Church Basin



Address:
1200 Klockner Road
Hamilton Township, NJ 08610



Overview of Basin



Outlet



Low flow channel

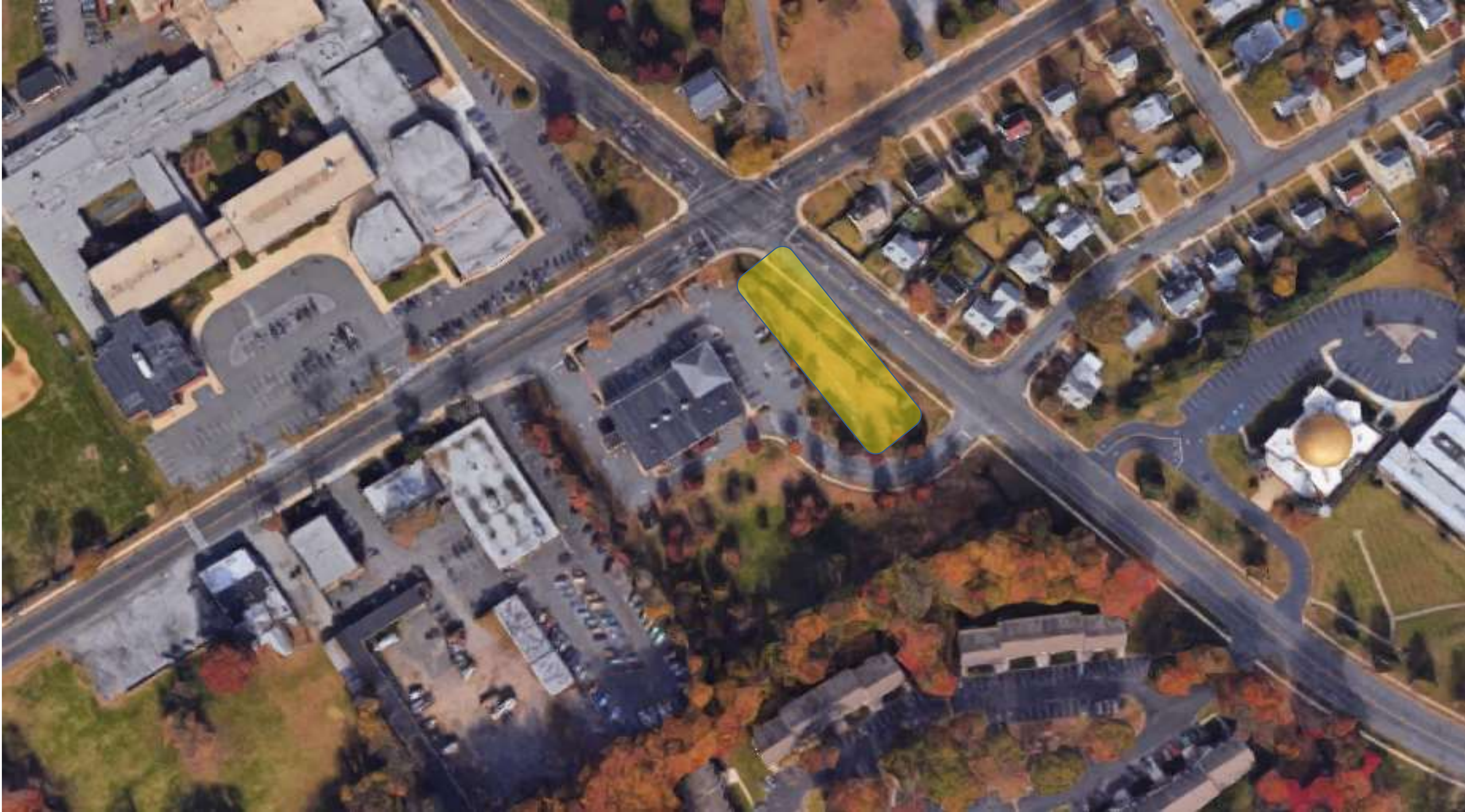
Notes:

- Standing water in outlet structure
- Establish meadows to provide habitat and enhance infiltration
- Replace low flow channels with stone channel for better infiltration
- Sediment in low flow channel and outlet

Hamilton Township
Stormwater Basin Assessment

318. CVS Basin

Address:
2147 Hamilton Avenue
Trenton, NJ 08619



Hamilton Township Stormwater Basin Assessment

318. CVS Basin

Address:
2147 Hamilton Avenue
Hamilton Township, NJ 08610



Overview of Basin



Outlet



Low flow channel

Notes:

- Sediment in low flow channel and outlet
- Establish meadows to improve habitat and infiltration
- Overall well maintained beside sediment buildup

Hamilton Township
Stormwater Basin Assessment

319. Mercer County Technical School Basin

Address:
1058 Klockner Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
319. Mercer County Technical School Basin

Address:
1058 Klockner Road
Hamilton Township, NJ 08610



Overview of Basin



Outlet



Sediment accumulation

Notes:

- Lots of sediment in low flow channels
- Replace low flow channel with stone channel to allow for infiltration
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

320. Hamilton Train Station Basin

Address:
720 Sloan Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
320. Hamilton Train Station Basin



Address:
720 Sloan Avenue
Hamilton Township, NJ 08610



Overview of basin



Outlet



Erosion of inlet

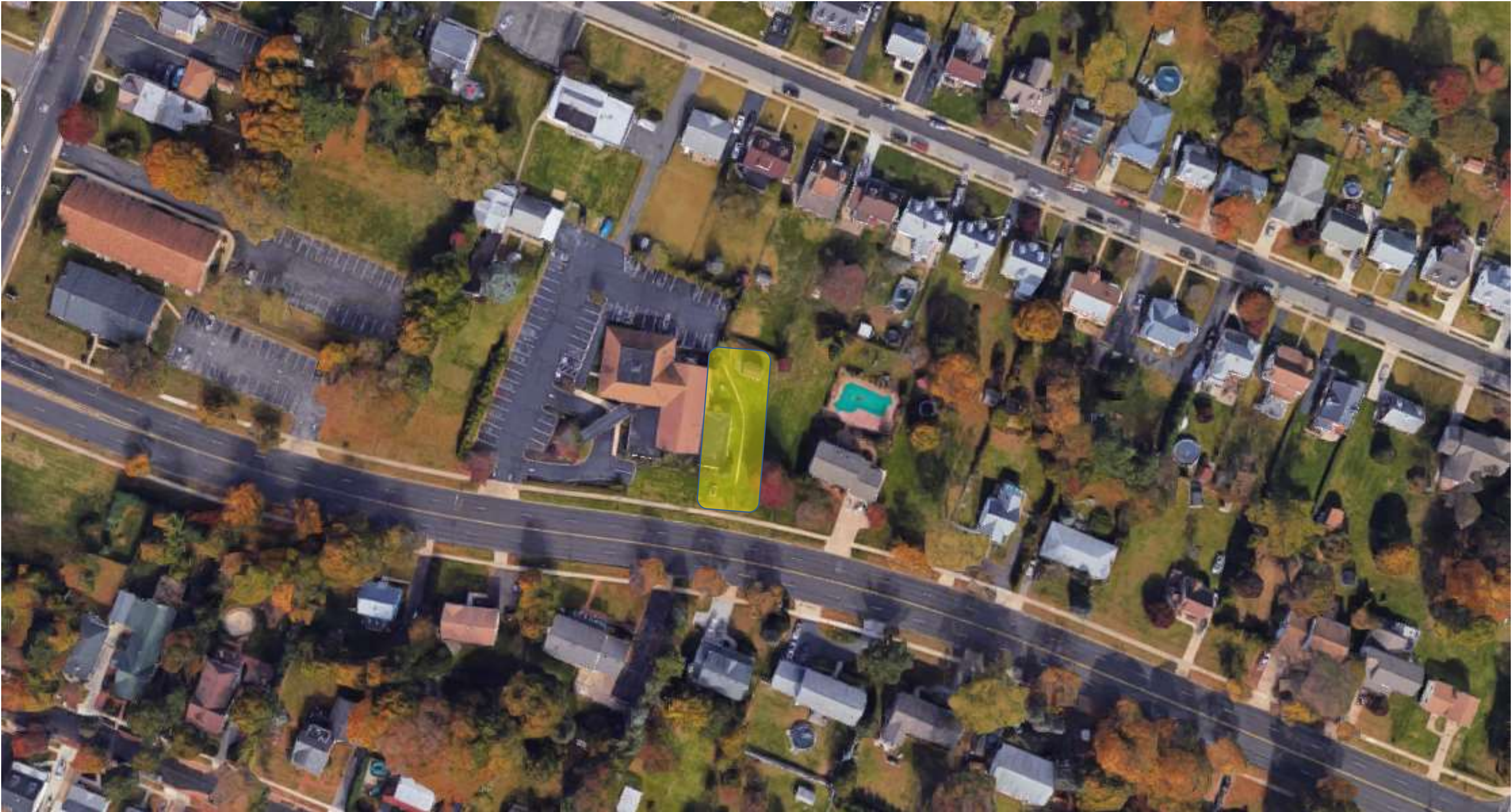
Notes:

- Sediment and litter inside and surrounding outlet
- Erosion of all inlet structures
- Retrofit low flow channels with stone channels and reduce mowing to allow for better infiltration

Hamilton Township
Stormwater Basin Assessment

321. Hamilton Physical Therapy Services Basin

Address:
1900 Arena Drive
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

321. Hamilton Physical Therapy Services Basin

Address:
1900 Arena Drive
Hamilton Township, NJ 08610



Stone lined infiltration channel



Overview of channel



Downspout Inlet

Notes:

- Infiltration channel for Physical Therapy Services building
- Channel has minimal amounts of sediment
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

322. Rosa's Pizzeria & Restaurant Basin

Address:
151 Gropp Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment

322. Rosa's Pizzeria & Restaurant Basin

Address:
151 Gropp Avenue
Hamilton Township, NJ 08610



Outlet



Sediment in low flow channel

Notes:

- Vegetation overgrowing around outlet
- Replace low flow channel with stone lined outlet
- Remove weeds to promote naturalization with native plants

Hamilton Township
Stormwater Basin Assessment

323. AMC Hamilton 24

Address:
325 Sloan Avenue
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment

323. AMC Hamilton 24

Address:
325 Sloan Avenue
Hamilton Township, NJ 08690



Notes:

- Retention Basin
- No outlets apparent
- Some floating garbage that should be removed

Hamilton Township
Stormwater Basin Assessment

324. Administrative Law Office Building Basin

Address:
10 Quakerbridge Plaza
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment

324. Administrative Law Office Building Basin

Address:
10 Quakerbridge Plaza
Hamilton Township, NJ 08690



Inlet



Outlet



Overview of basin

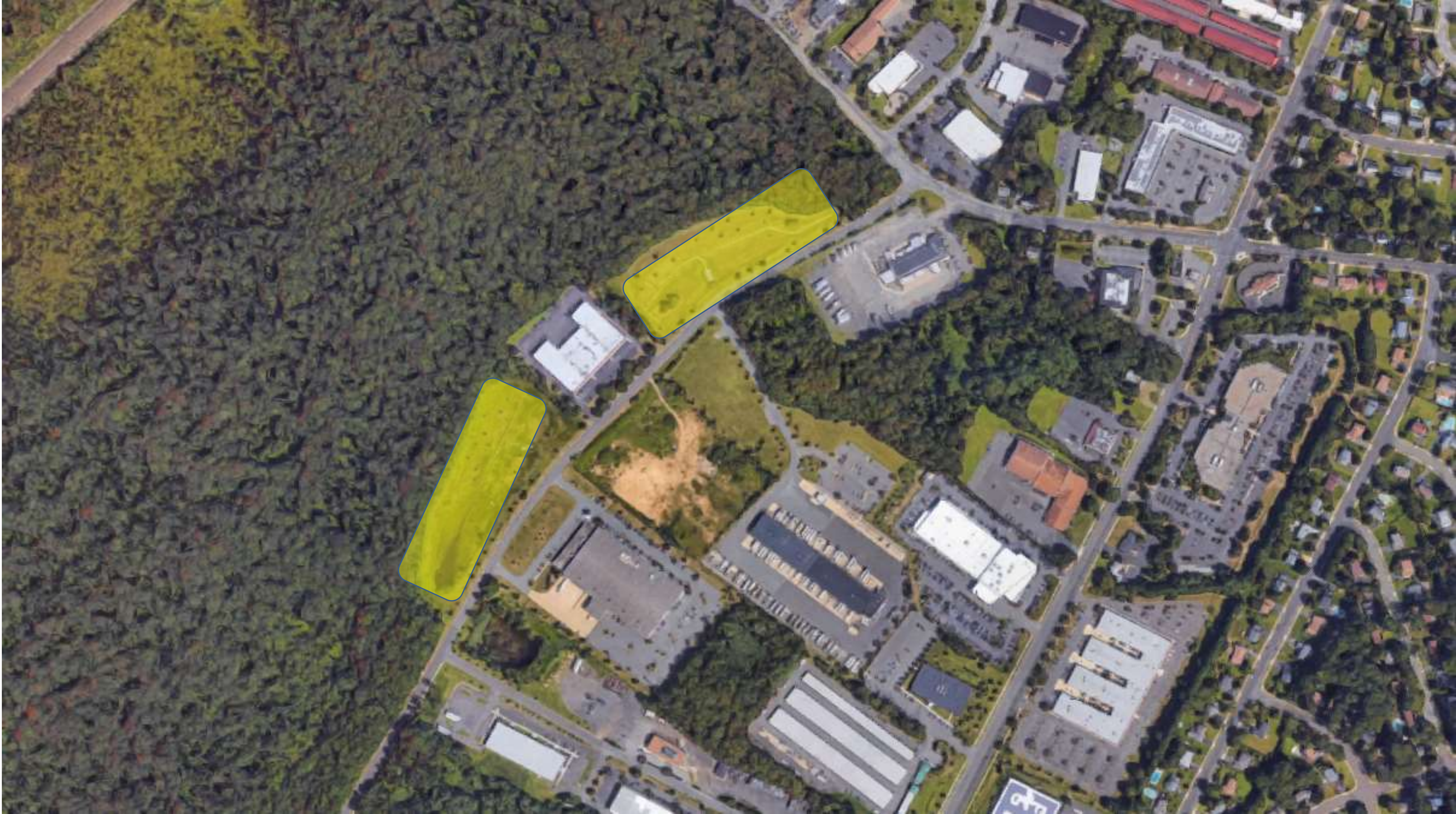
Notes:

- Grass clippings and sediment accumulating in low flow channel, inlet, and outlet structures
- Otherwise well maintained

Hamilton Township
Stormwater Basin Assessment

325. & 326. Medical Indicators Inc. Basins

Address:
49 Thomas J. Rhodes
Industrial Drive
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
325. & 326. Medical Indicators Inc. Basins

Address:
49 Thomas J. Rhodes
Industrial Drive
Hamilton Township, NJ 08690



Naturalized southern basin



Low flow channel



Front view of outlet



Inlet

Notes:

- Southern basin has established meadows and is inaccessible
- Northern basin has woody vegetation
- Outlet in northern basin is uncovered
- Sediment accumulation in low flow channels
- Naturalize northern basin like southern basin
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

327. CVS Basin

Address:
200 NJ-33
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
327. CVS Basin

Address:
200 NJ-33
Hamilton Township, NJ 08610



Inlet and low flow channel



Outlet grate

Notes:

- Minimal amounts of sediment near inlet and outlet structures
- Overall in good condition

Hamilton Township
Stormwater Basin Assessment

328. Applebee;s Parking Lot Basin

Address:
333 NJ-33
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
328. Applebee's Parking Lot Basin

Address:
333 NJ-33
Hamilton Township, NJ 08610



Sediment in low flow channel



Overview of basin



Sediment in outlet

Notes:

- Inlet channel brings water directly from parking lot
- Excess sediment in low flow channel is restricting water flow
- Create stone lined channel to improve infiltration and reduce sediment accumulation at outlet

Hamilton Township
Stormwater Basin Assessment

*329. & 330. Kuser Road and Whitehorse Hamilton
Square Road Basins*

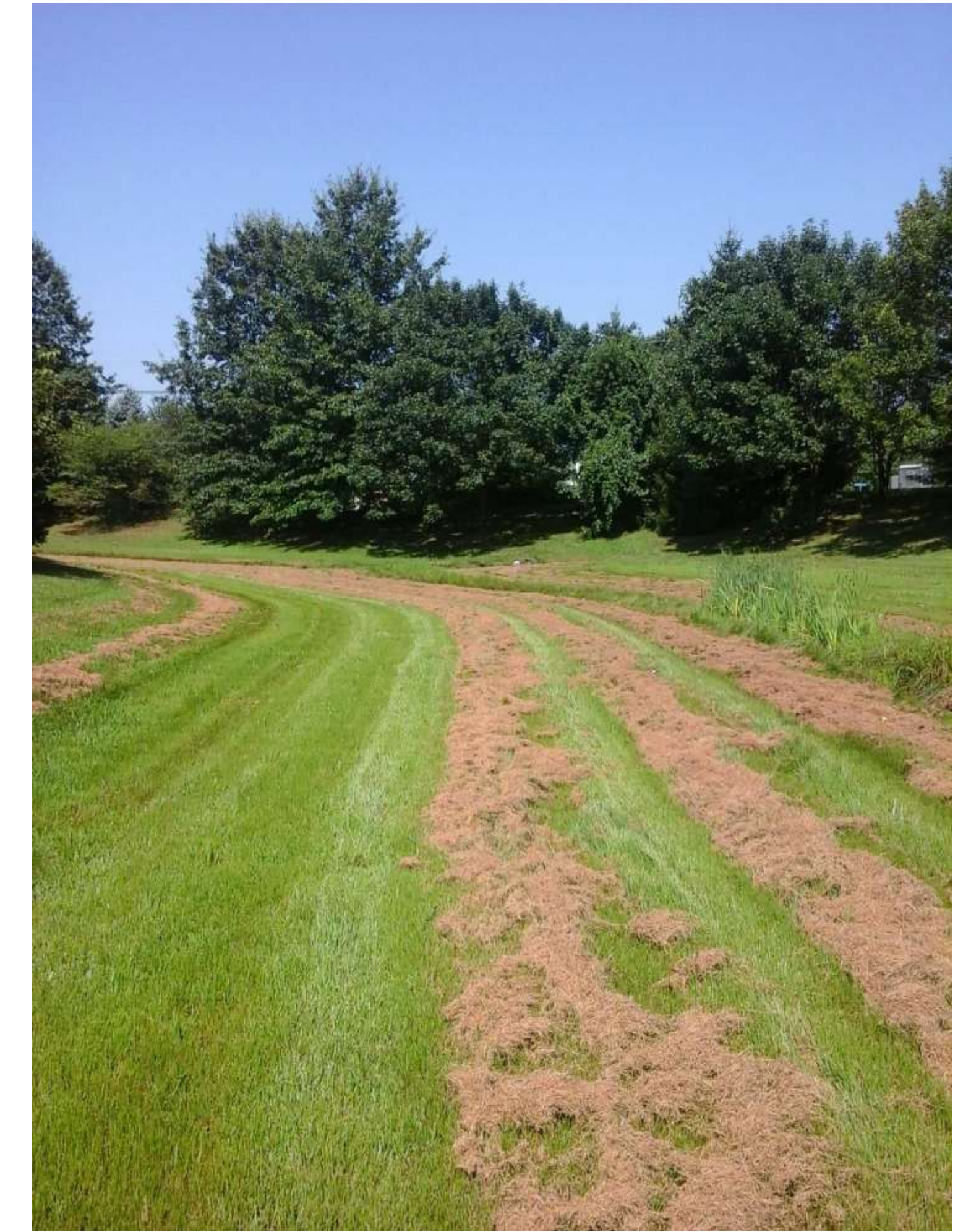
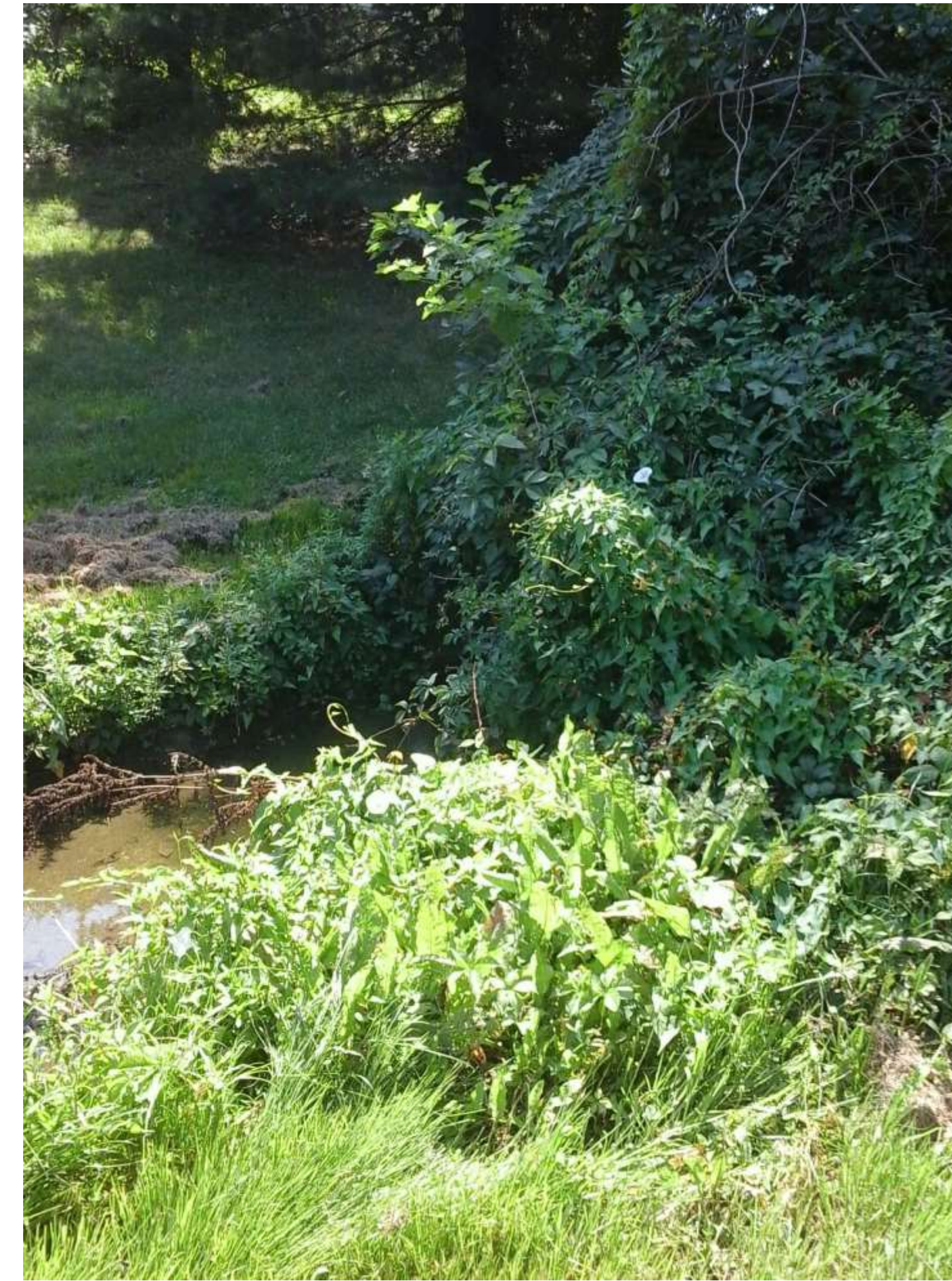
Address:
1870 Kuser Road
Hamilton Township, NJ 08610



Hamilton Township Stormwater Basin Assessment

*329. & 330. Kuser Road and Whitehorse Hamilton
Square Road Basins*

Address:
1870 Kuser Road
Hamilton Township, NJ 08610



Overview of southern basin and basin outlet

Inlet vegetation and overview of northern basin

Notes:

- Sediment accumulation at outlets and in low flow channels for both basins
- Vegetation overgrowth at northern basin
- Reduce mowing and establish meadows to improve infiltration

Hamilton Township
Stormwater Basin Assessment

331. Fulton Bank of New Jersey Basin

Address:
284 Herbert Road
Hamilton Township, NJ 08610

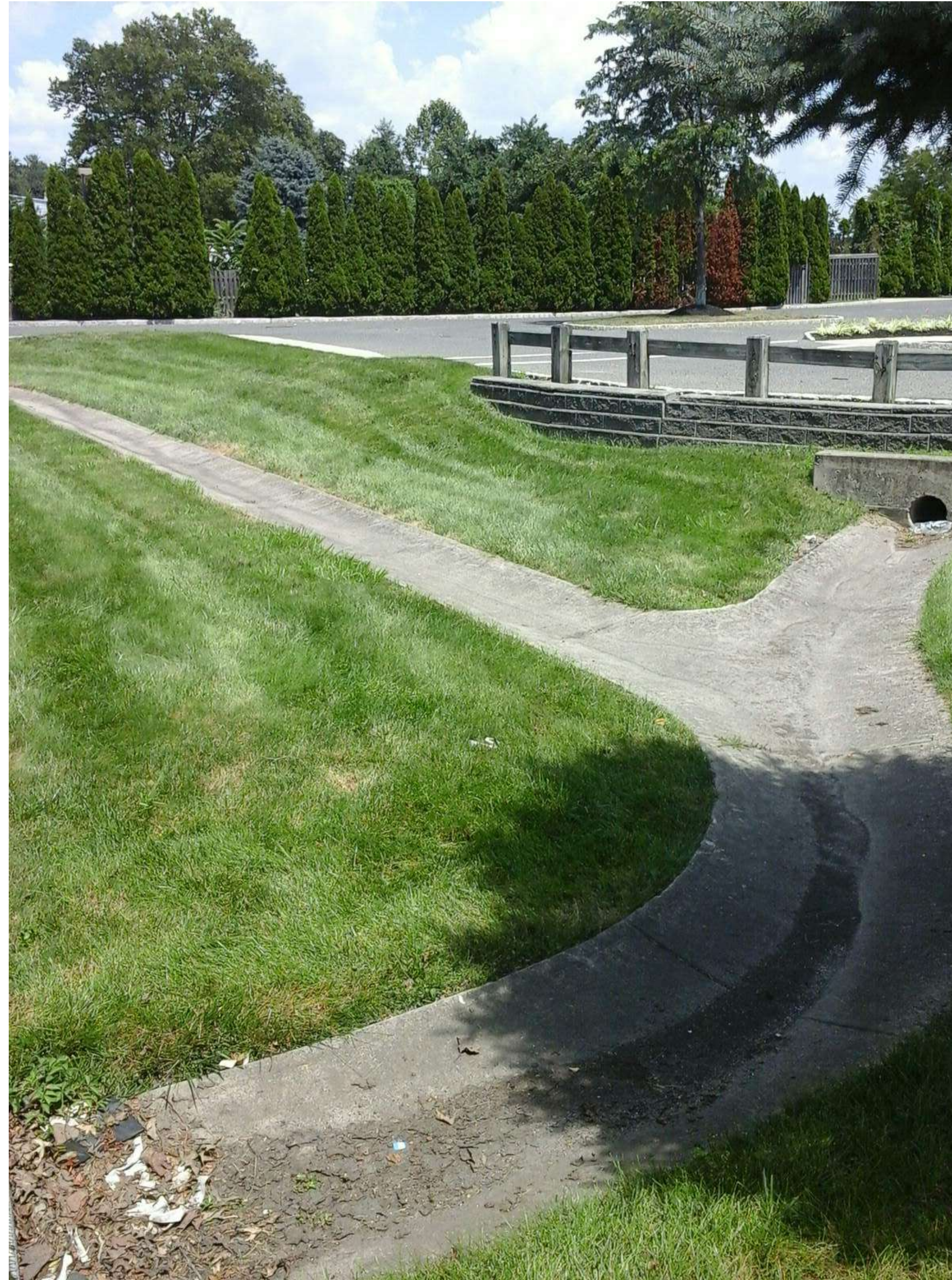


Hamilton Township
Stormwater Basin Assessment
331. Fulton Bank of New Jersey Basin

Address:
284 Herbert Road
Hamilton Township, NJ 08610



Outlet structure



Overview of basin

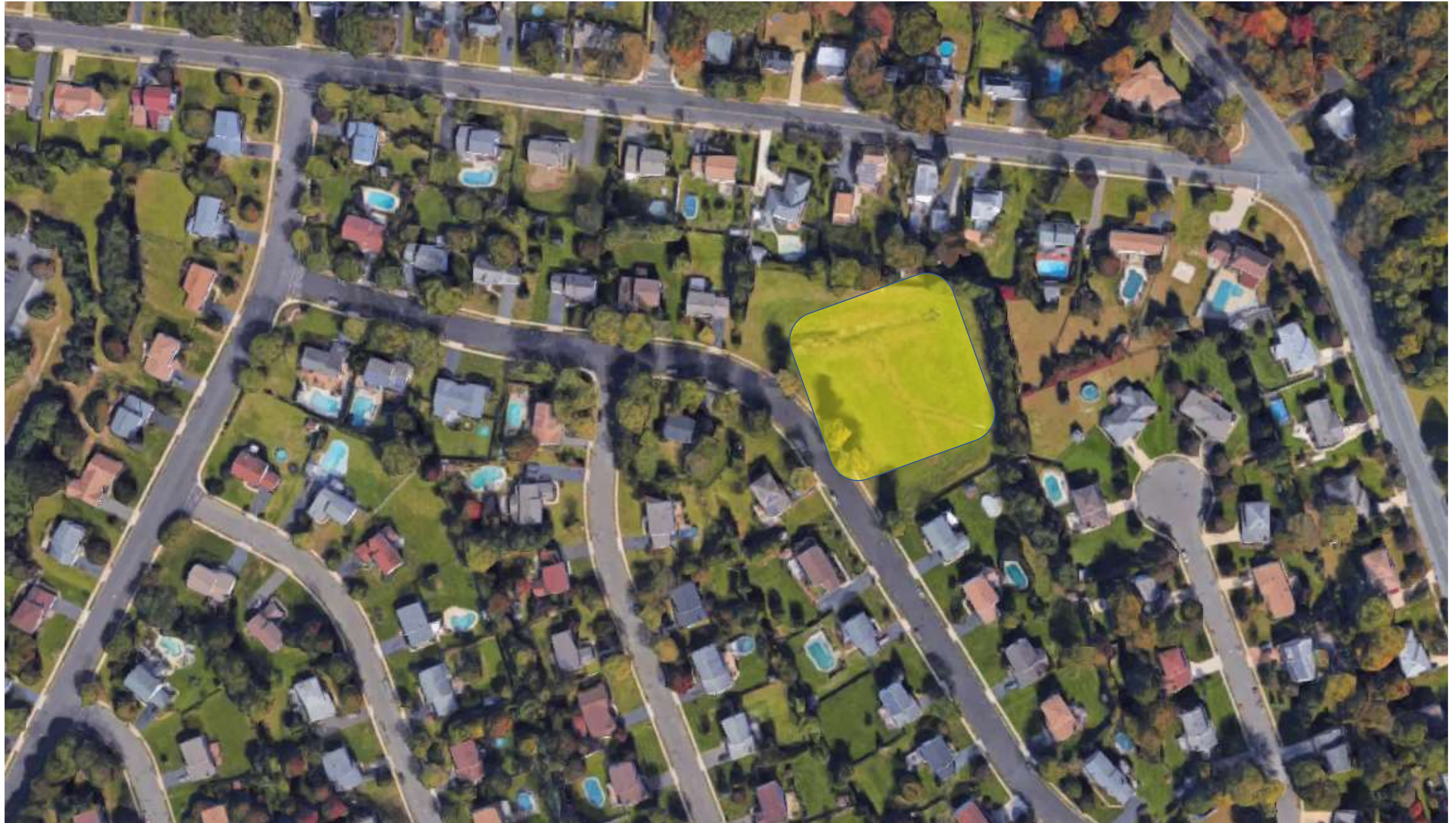
Notes:

- Sediment and trash accumulation at outlet
- Outlet structure missing cover
- Replace low flow channel with stone lined channel to increase infiltration

Hamilton Township
Stormwater Basin Assessment

332. Robin Drive Residential Basin

Address:
101 Robin Drive
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
332. Robin Drive Residential Basin

Address:
101 Robin Drive
Hamilton Township, NJ 08610



Basin overview



Basin overview



Outlet structure

Notes:

- Basin is partly naturalized
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

333. Mercer Elementary School Basin

Address:
1031 Mercerville – Edinburg Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
333. Mercer Elementary School

Address:
1031 Mercerville – Edinburg Road
Hamilton Township, NJ 08691



Overview of basin



Outlet with gabion baskets



Inlet structure

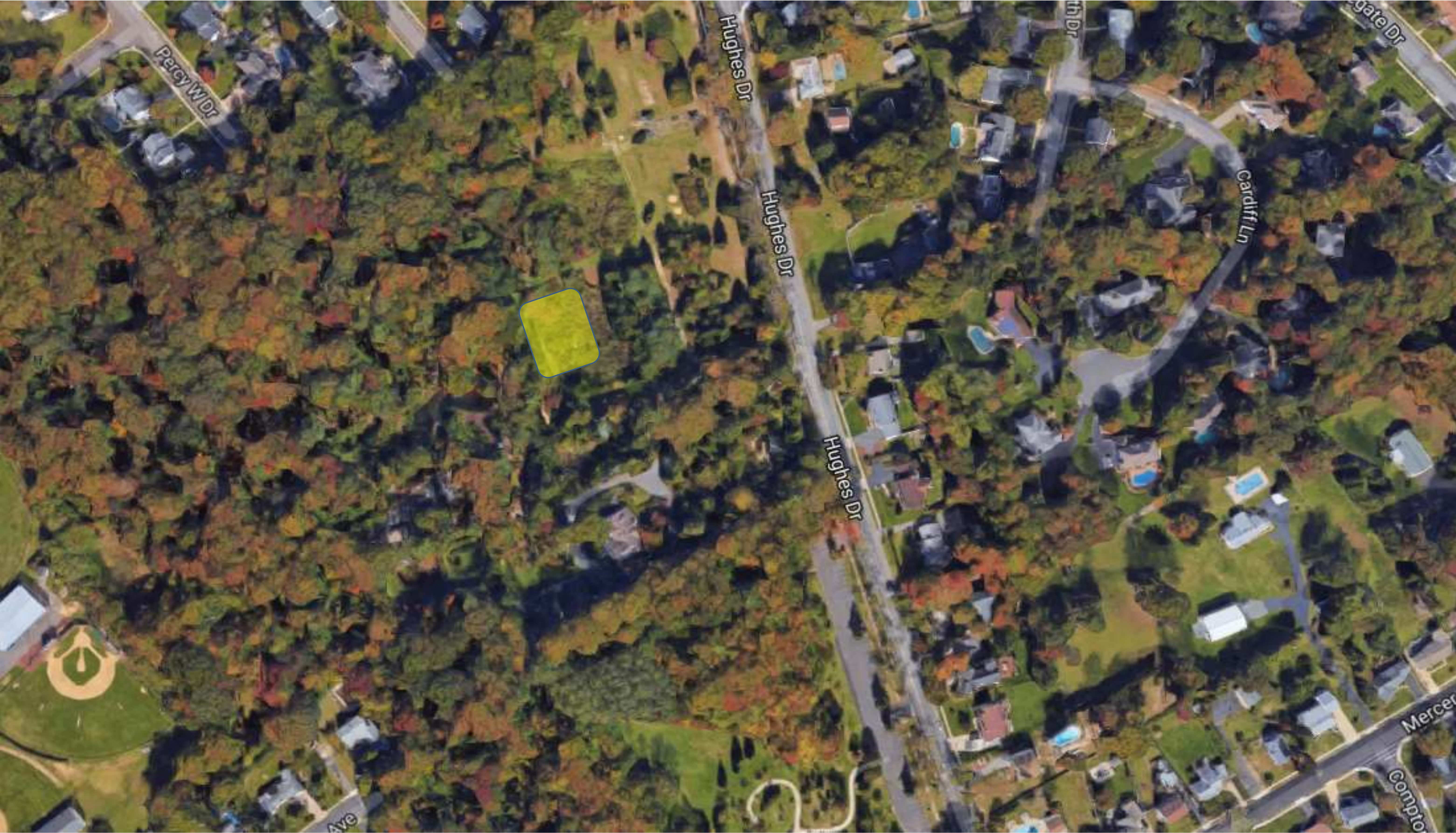
Notes:

- Large volume of standing water in outlet structure
- Some sediment accumulation in low flow channels
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

335. Residential Basin

Address:
233 Hughes Road
Hamilton Township, NJ 08690



Basin not accessible

Hamilton Township
Stormwater Basin Assessment

338. Hamilton Township Fire District No. 9 Basin

Address:
4201 Crosswicks Hamilton
Square Road
Hamilton Township, NJ 08690



Hamilton Township Stormwater Basin Assessment

338. Hamilton Township Fire District No. 9 Basin

Address:
4201 Crosswicks Hamilton
Square Road
Hamilton Township, NJ 08690



Basin overview looking south

Notes:

- Standing water is present and can be prevented if naturalized into a meadow for better infiltration
- Vegetation overgrowth at outlet structure



Inlet



Outlet

Hamilton Township
Stormwater Basin Assessment

339. The Home Depot Basin

Address:
750 US-130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
339. The Home Depot Basin

Address:
750 US-130
Hamilton Township, NJ 08691



Outlet structure



Standing water in basin bottom

Notes:

- Basin largely naturalized
- Vegetation overgrowth around inlet and outlet

Hamilton Township
Stormwater Basin Assessment

340. Hilton Garden Inn Hamilton Basin

Address:
780 US-130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

340. Hilton Garden Inn Hamilton Basin

Address:
780 US-130
Hamilton Township, NJ 08691



Inlet



Inlet

Notes:

- Some sediment accumulation near inlet structure
- Overall well maintained

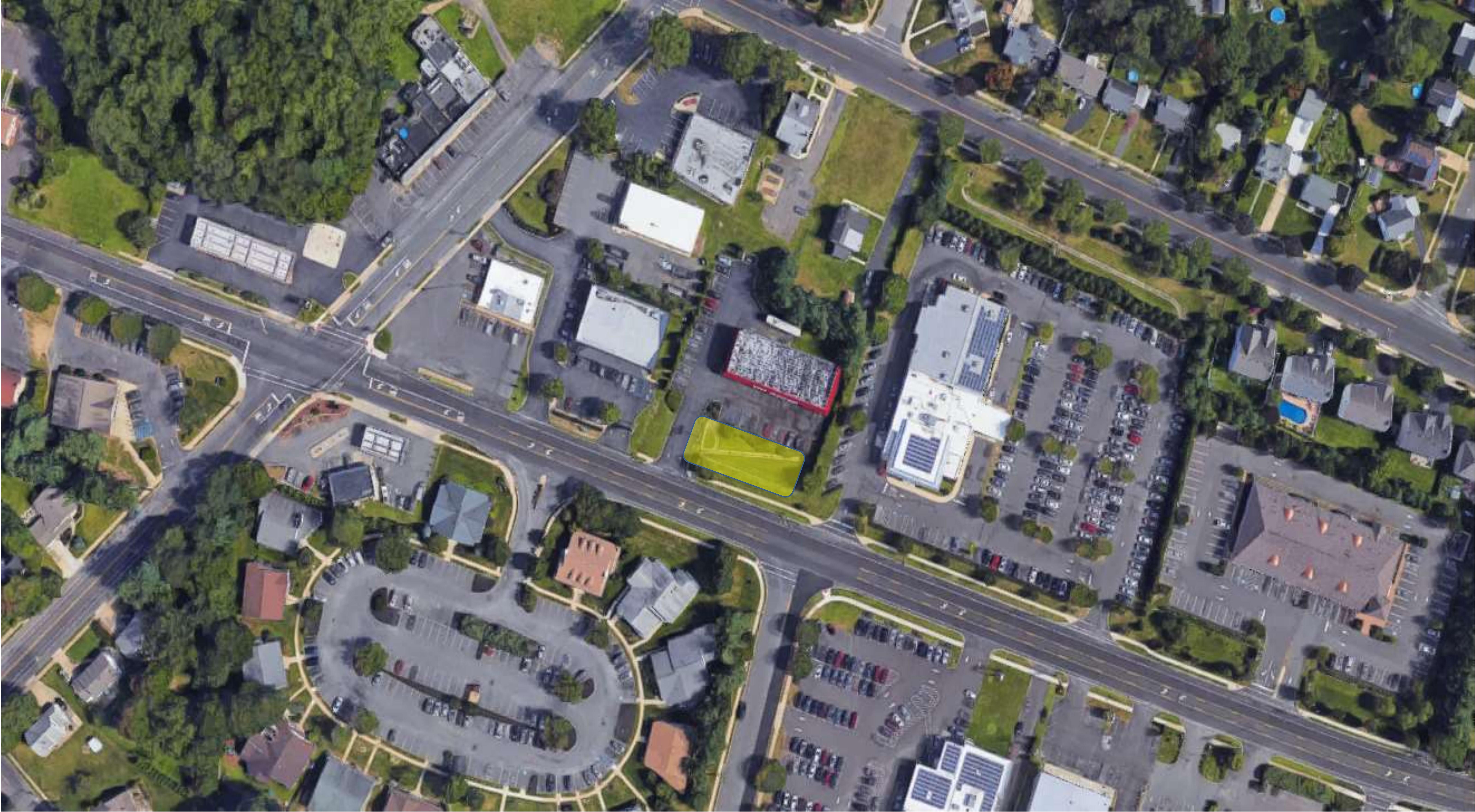


Basin overview

Hamilton Township
Stormwater Basin Assessment

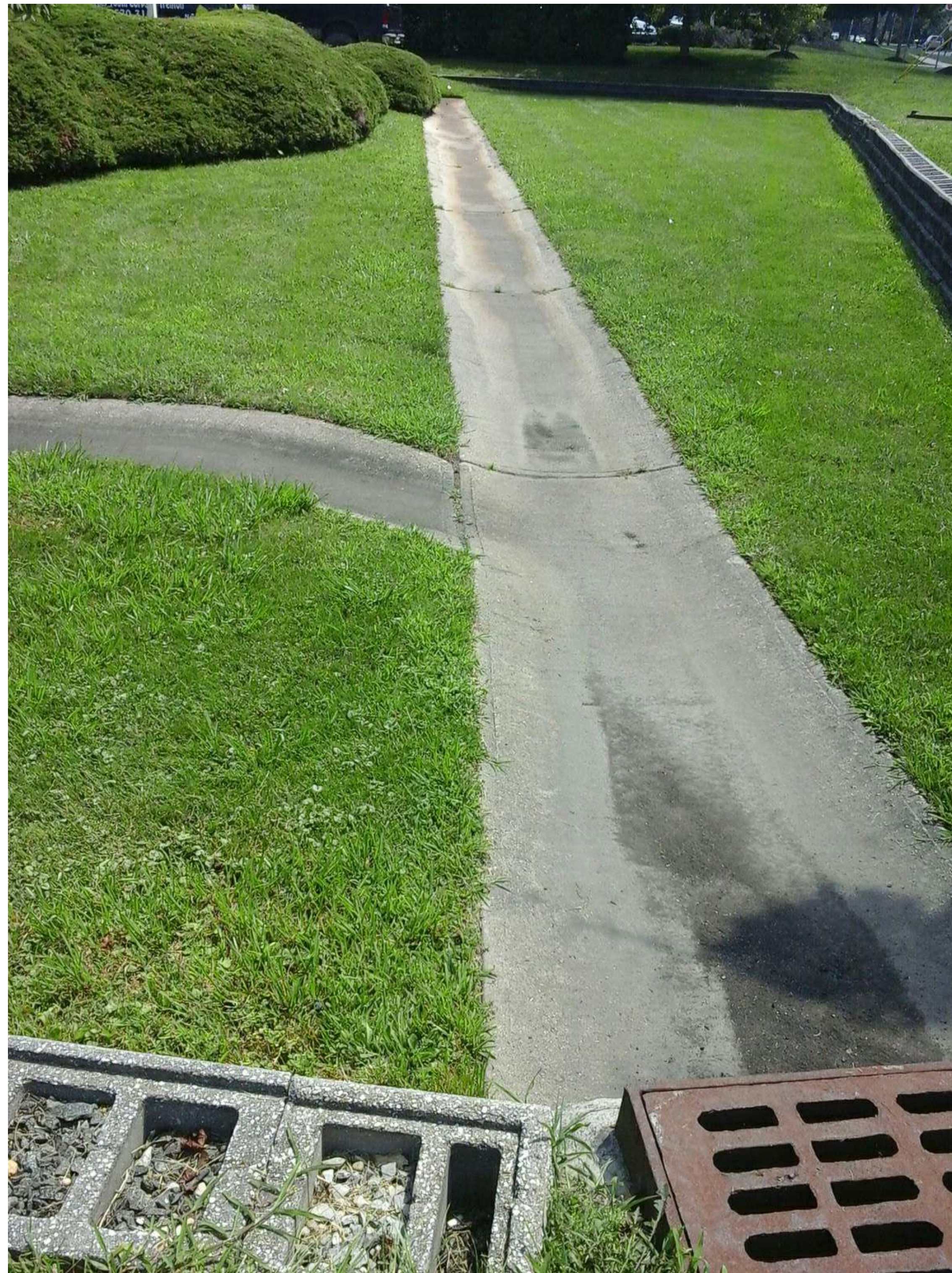
341. Mavis Discount Tire Basin

Address:
2150 Route 33
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
341. Mavis Discount Tire Basin

Address:
2150 Route 33
Hamilton Township, NJ 08690



Basin overview



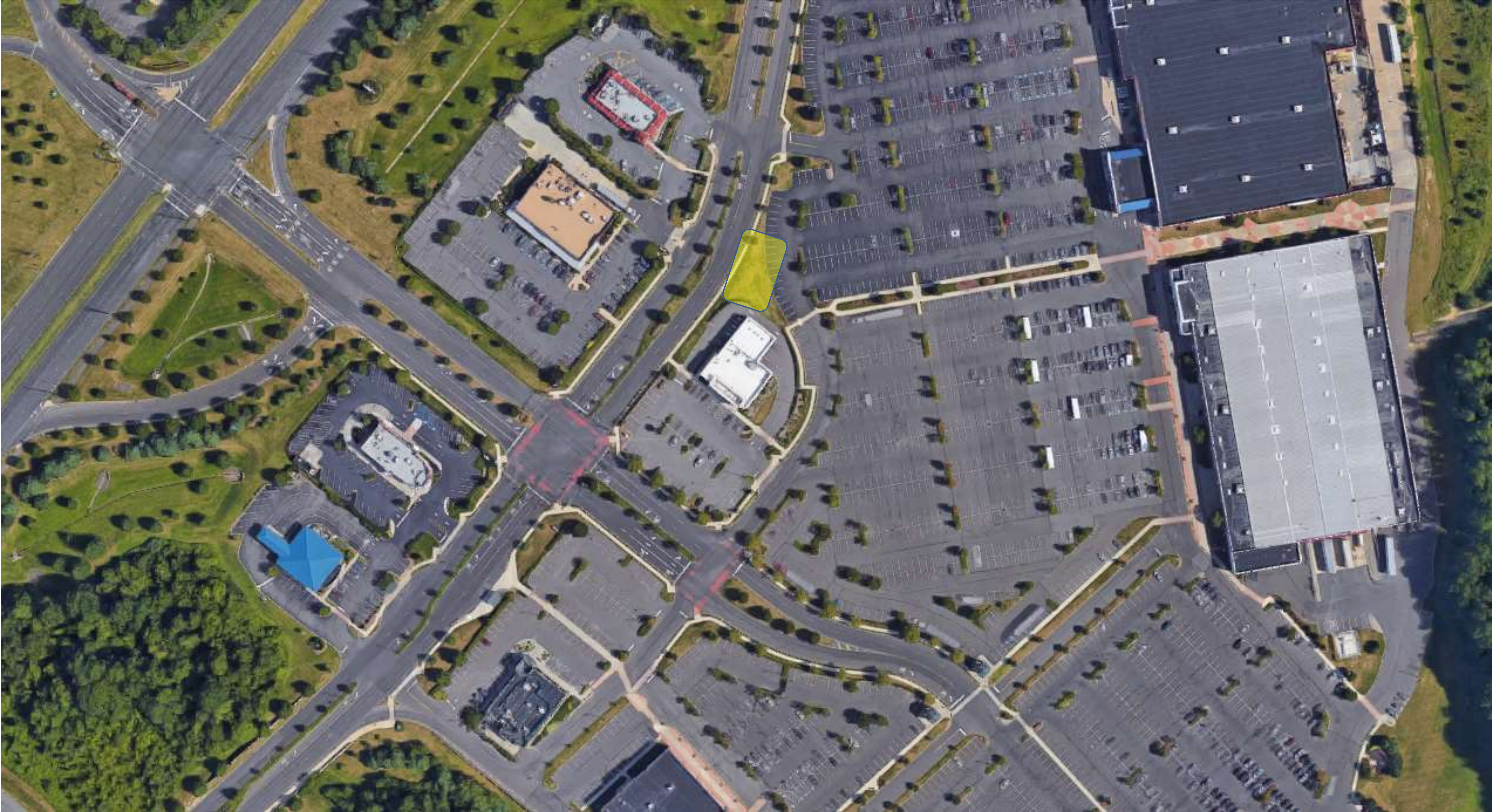
Outlet structure

Notes:

- Rocks have fallen into the inlet
- Reduce mowing and replace low flow channel with stone lined channel to improve infiltration
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
342. Bank of America Basin

Address:
800 Market Place Boulevard
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
342. Bank of America Basin

Address:
800 Market Place Boulevard
Hamilton Township, NJ 08691



Overview of basin



Inlet from adjacent parking lot

Notes:

- Some debris has accumulated in stone lined channel
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

346. & 347. Jeremy Place Residential Basins

Address:
10 Jeremy Place
Trenton, NJ 08620



Hamilton Township
Stormwater Basin Assessment
346. Jeremy Place Residential Basin (West)

Address:
10 Jeremy Place
Trenton, NJ 08620



Basin Overview



Outlet structure



Fish in outlet structure

Notes:

- Dead fish in outlet structure
- Otherwise well maintained
- Retention basin

Hamilton Township
Stormwater Basin Assessment
347. Jeremy Place Residential Basin (North)

Address:
10 Jeremy Place
Trenton, NJ 08620



Basin Overview



Outlet structure

Notes:

- Invasive phragmites growing in retention pond
- Otherwise well maintained



Invasive vegetation growth

Hamilton Township
Stormwater Basin Assessment

348. Cayman Pools & Spas Basin

Address:
1248 Yardville Allentown Road
Allentown, NJ 08501



Hamilton Township
Stormwater Basin Assessment
348. Cayman Pools & Spas Basin

Address:
1248 Yardville Allentown Road
Allentown, NJ 08501



Inlet



Inspecting outlet structure

Notes:

- Infiltration basin with some natural vegetation growing
- Some standing water present
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

350. & 351. Panfili Lane Residential Basins

Address:
Chambers Street &
Cedar Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
350. Panfili Lane Residential Basin (East)

Address:
Chambers Street &
Cedar Avenue
Hamilton Township, NJ 08610



Inlet



Overview of basin



Inlet

Notes:

- Newly constructed basin
- Sandy bottom likely to improve infiltration
- Some standing water in outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
350. Panfili Lane Residential Basin (West)



Address:
Chambers Street &
Cedar Avenue
Hamilton Township, NJ 08610



Inlet



Outlet



Inlet

Notes:

- Newly constructed basin
- Sandy bottom likely to improve infiltration
- Some debris accumulated
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

352. Himalaya International Basin

Address:
3705 Quakerbridge Road
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
352. Himalaya International Basin

Address:
3705 Quakerbridge Road
Hamilton Township, NJ 08619



Outlet



Overview of basin



Inlet

Notes:

- Sediment accumulating at outfall structure
- Concrete pads at some inlets are broken
- Replace channel with stone lined channel and reduce mowing to increase infiltration
- Otherwise well maintained

Hamilton Township
Stormwater Basin Assessment
354. Connor Court Residential Basin

Address:
1760 Yardville – Hamilton
Square Road
Hamilton Township, NJ 08691

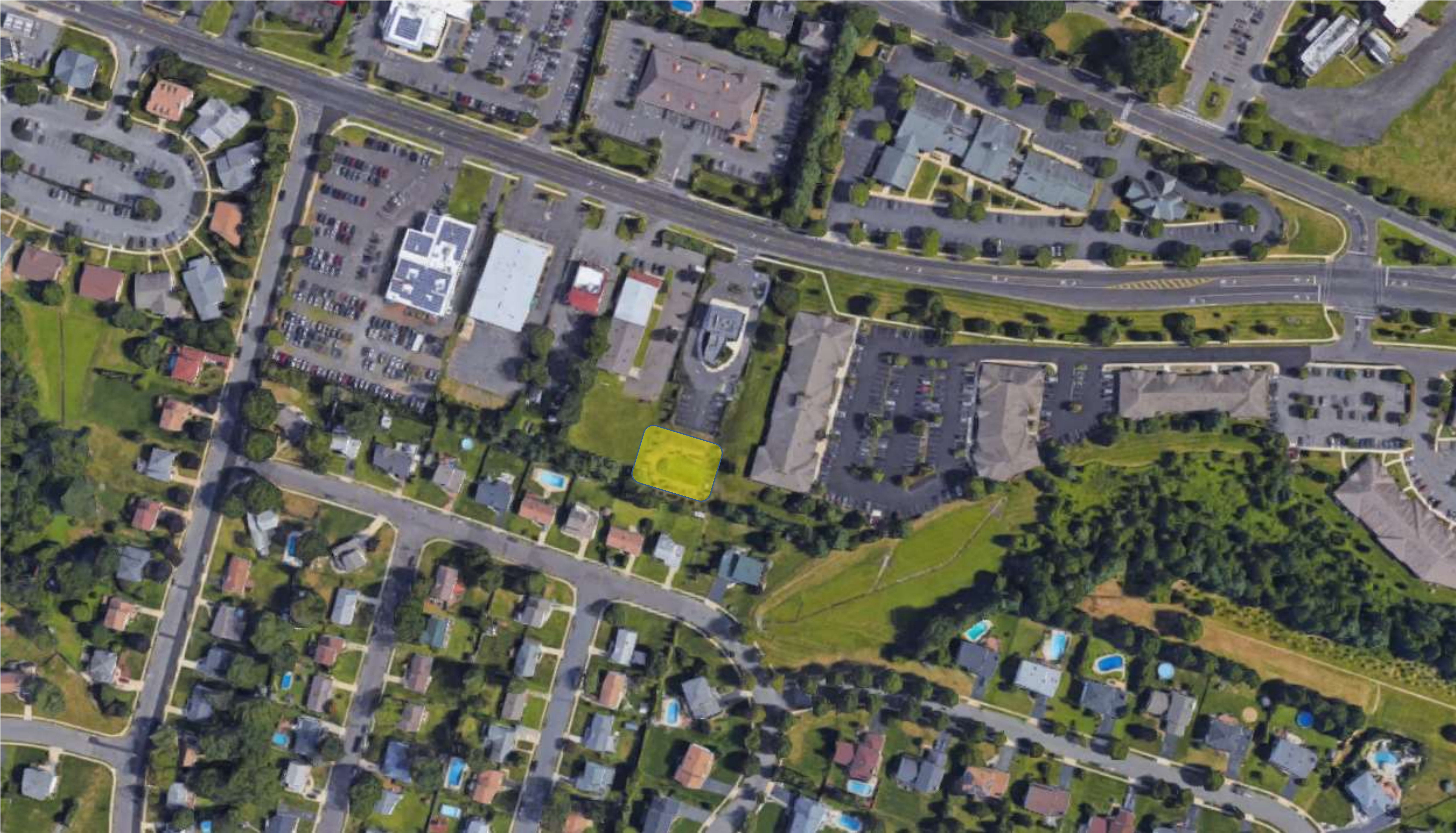


Basin not accessible – fenced off residential basin

Hamilton Township
Stormwater Basin Assessment

355. Grand Bank Basin

Address:
2265 NJ Route 33
Hamilton Township, NJ 08690

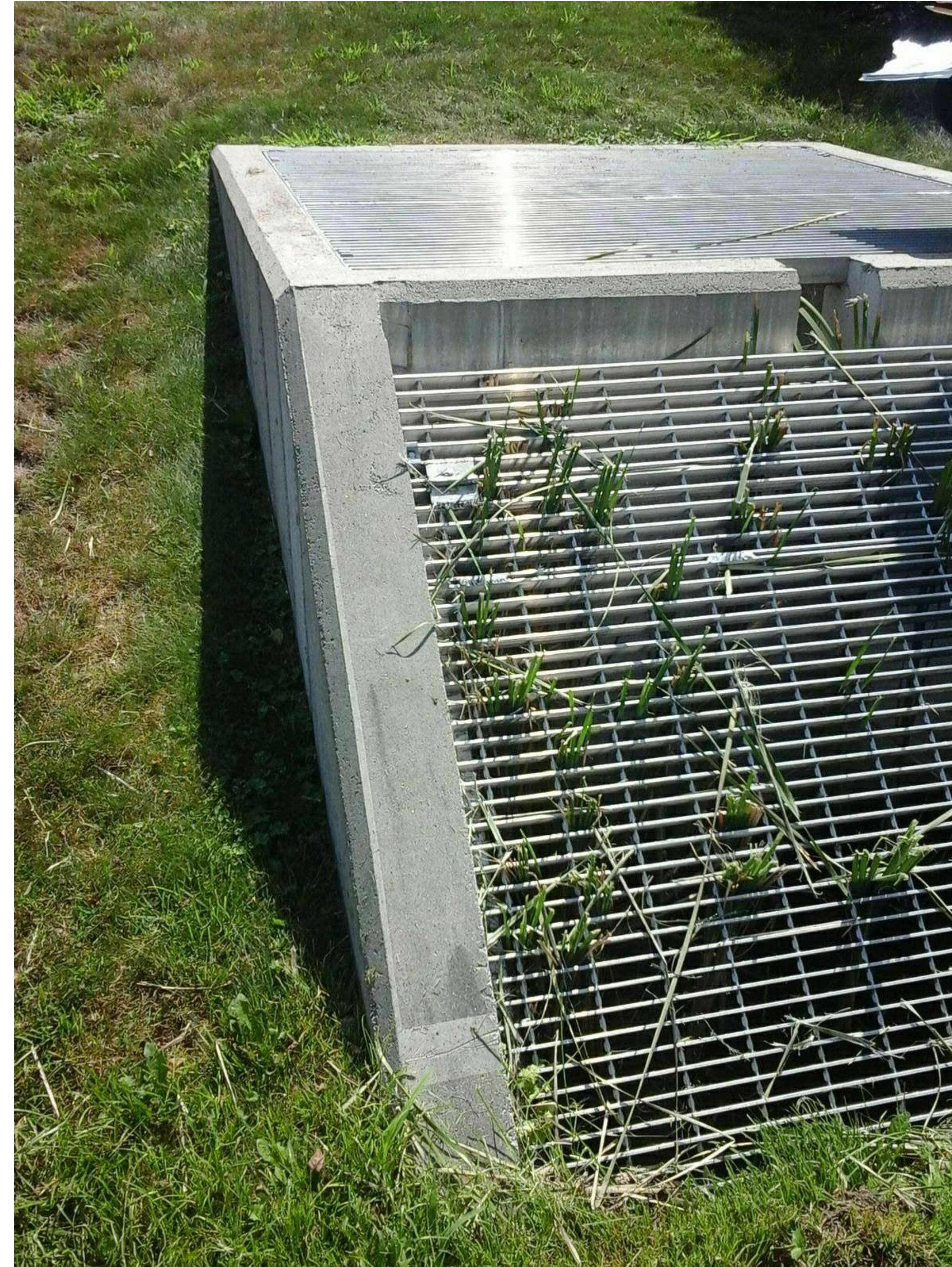


Hamilton Township
Stormwater Basin Assessment
355. Grand Bank Basin

Address:
2265 NJ Route 33
Hamilton Township, NJ 08690



Overview of basin



Outlet

Notes:

- Some vegetation growing in outlet
- Reduce mowing to increase infiltration and improve habitat
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

356. City Auto Center II Basin

Address:
3666 Klockner Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
356. City Auto Center II Basin

Address:
3666 Klockner Road
Hamilton Township, NJ 08691



Overview of basin



Overview of basin



Inlet from parking lot

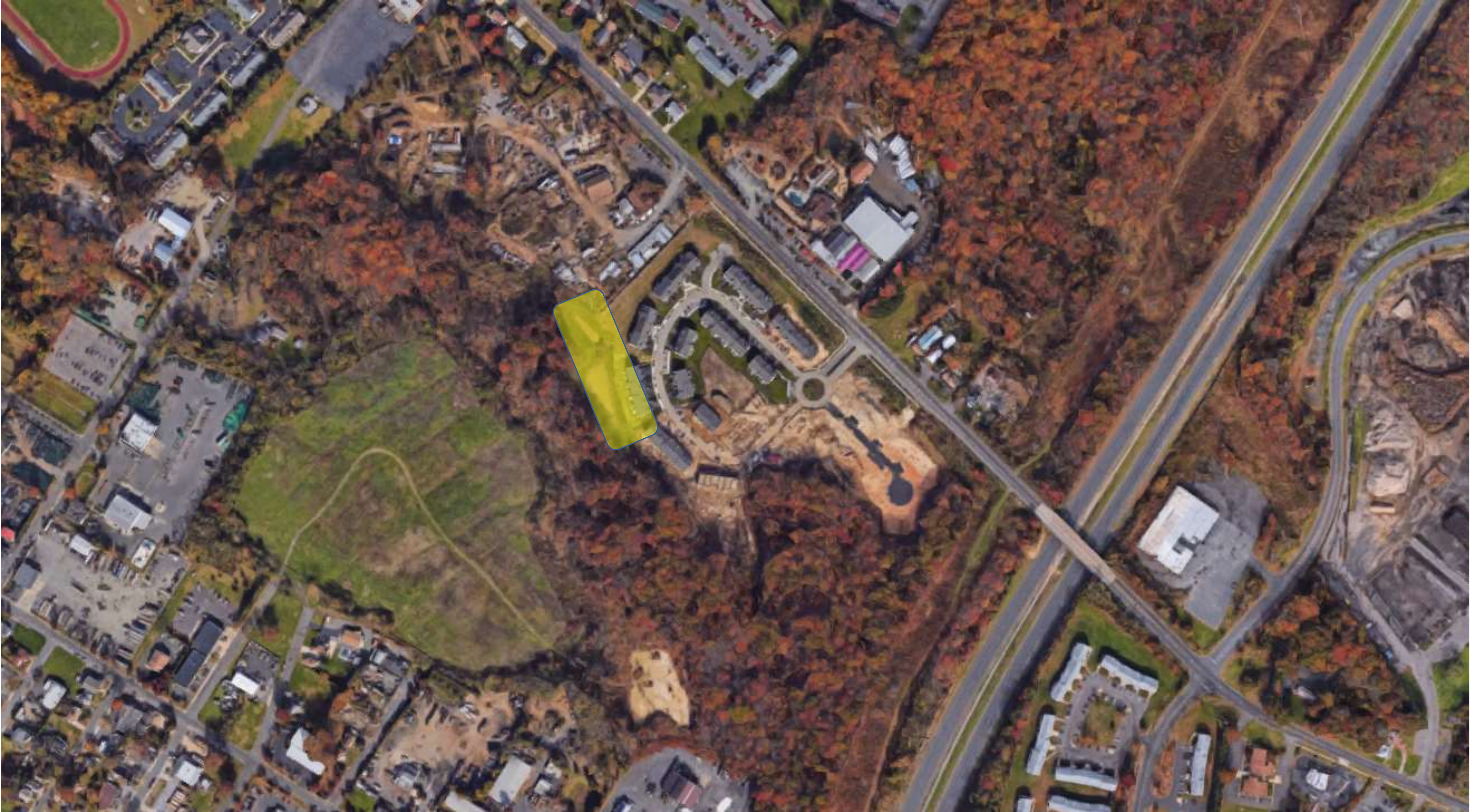
Notes:

- Catches runoff from business parking lot
- Infiltration basin
- Debris accumulation
- Establish meadows to improve habitat
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

357.Ryan Homes as Hamilton Chase Residential Basin

Address:
4 Sundance Drive
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment

357.Ryan Homes as Hamilton Chase Residential Basin

Address:
4 Sundance Drive
Hamilton Township, NJ 08619



Weir between retention basins



Inlet



Overview of retention pond



Outlet structure

Notes:

- System of two retention basins separated by a weir
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

358. Homewood Suites by Hilton Hamilton Basin

Address:
Kuser Road & Route 130
Hamilton, NJ 08690



Hamilton Township
Stormwater Basin Assessment

358. Homewood Suites by Hilton Hamilton Basin

Address:
Kuser Road & Route 130
Hamilton, NJ 08690



Inlet



Inlet

Notes:

- Standing water present
- Reduce mowing and establish meadows, or plant more woody vegetation, to improve infiltration
- Otherwise well maintained

Hamilton Township
Stormwater Basin Assessment
360. Frank's Nursery Crafts Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
360. Frank's Nursery Crafts Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Overview of outlet

Notes:

- Building appears to be abandoned
- Meadows growing in basin bottom near all inlet structures
- Naturalized with woody plants

Hamilton Township
Stormwater Basin Assessment
361. Hamilton Honda Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
361. Hamilton Honda Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Outlet



Overview of basin

Notes:

- Naturalized with herbaceous plants
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

362. Rose Everett Court Residential Basin

Address:
9 Rose Everett Court
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
362. Rose Everett Court Residential Basin

Address:
9 Rose Everett Court
Hamilton Township, NJ 08691



Riparian buffer



Water feature



Outlet

Notes:

- Retention basin
- Naturalized with herbaceous and woody plants
- Outlet structure missing grate on top

Hamilton Township
Stormwater Basin Assessment
363. Klockner Road Woods Basin

Address:
3530 Klockner Road
Hamilton Township, NJ 08691

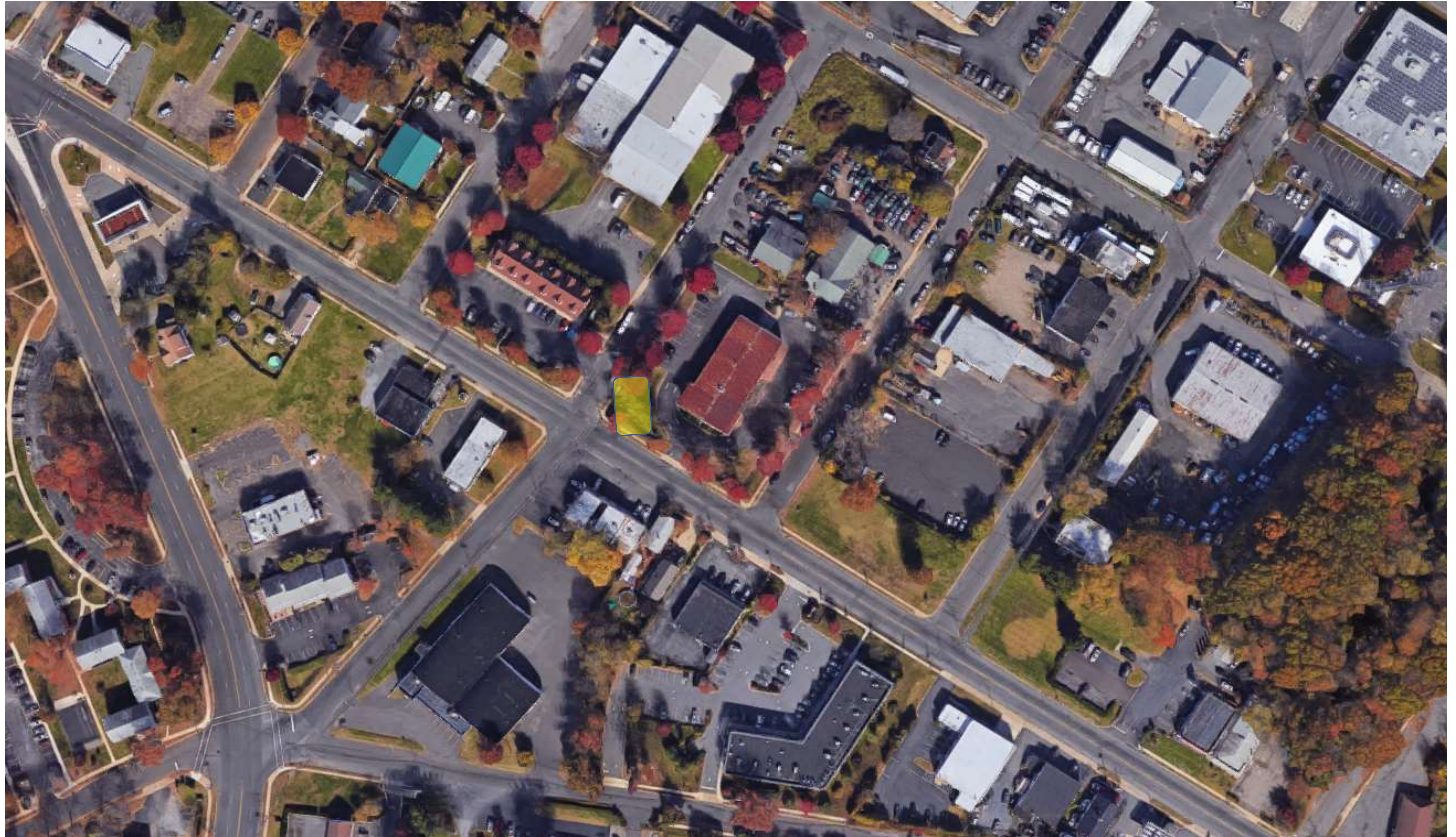


Basin not accessible

Hamilton Township
Stormwater Basin Assessment

364. Goodyear Mr. Tire Service Center Basin

Address:
150 Toronita Avenue
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
364. Goodyear Mr. Tire Service Center Basin

Address:
150 Toronita Avenue
Hamilton Township, NJ 08610



Outlet and overview of basin



Buried inlet

Notes:

- One inlet is buried
- Otherwise well maintained

Hamilton Township
Stormwater Basin Assessment

365. Colgate/Palmolive Basin

Address:
401 Cabot Drive
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
365. Colgate/Palmolive Basin

Address:
401 Cabot Drive
Hamilton Township, NJ 08691



Overview of basin

Notes:

- Retention basin
- Well maintained

Hamilton Township
Stormwater Basin Assessment

366. & 377. R&D Offices Basins

Address:
Klockner and Kuser Roads
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
366. & 367. R&D Offices Basins

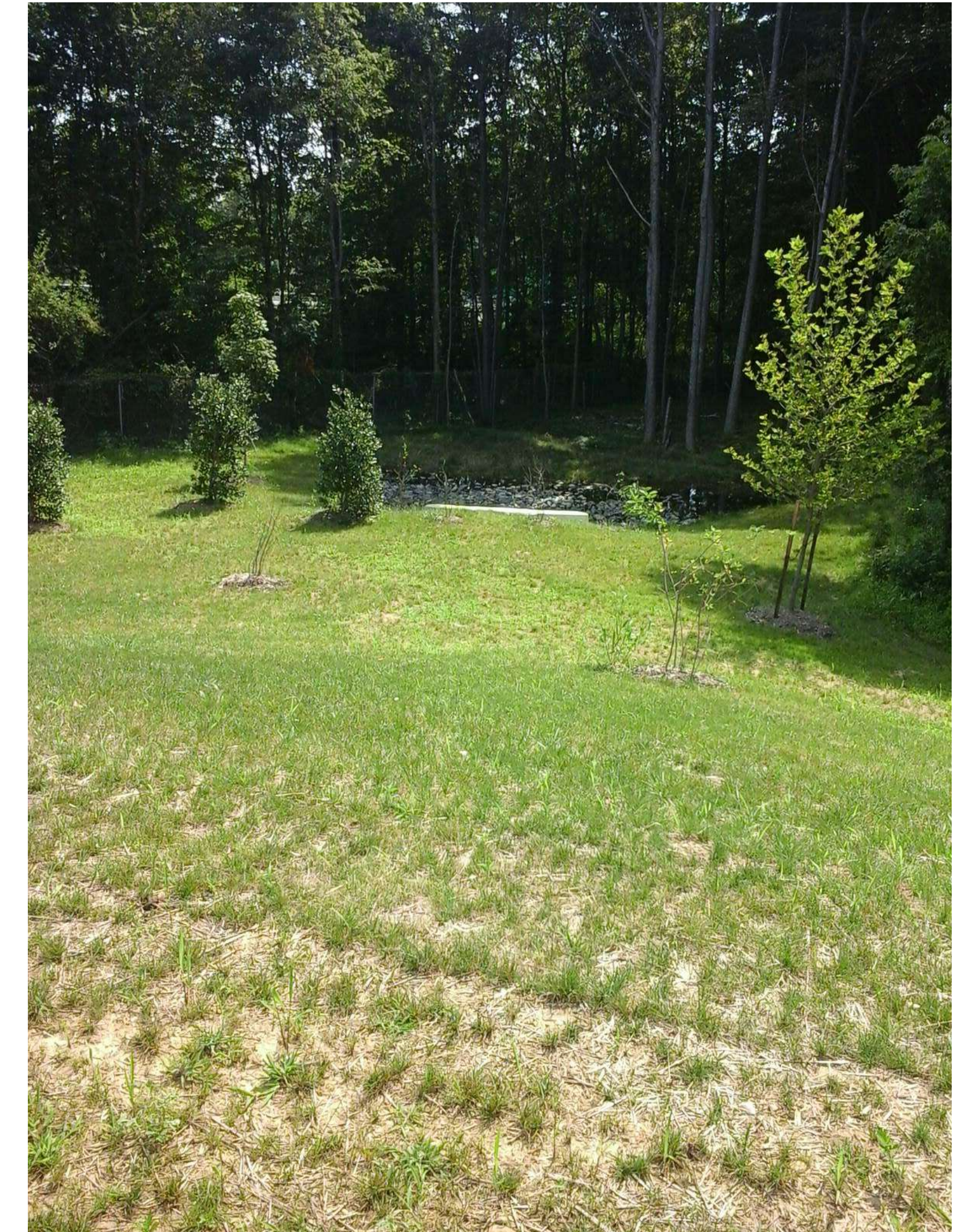
Address:
Klockner and Kuser Roads
Hamilton Township, NJ 08691



Outlet and overview of west basin



Outlet and overview of east basin



East basin spillway out to woods

Notes:

- Both basins (east and west) are retention basins
- Geese present
- Increase riparian buffer to deter geese
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

368. & 369. The Crossings at Hamilton Station Basins

Address:
1175 Sierra Drive
Hamilton Township, NJ 08619



Hamilton Township Stormwater Basin Assessment

368. & 369. The Crossings at Hamilton Station Basins

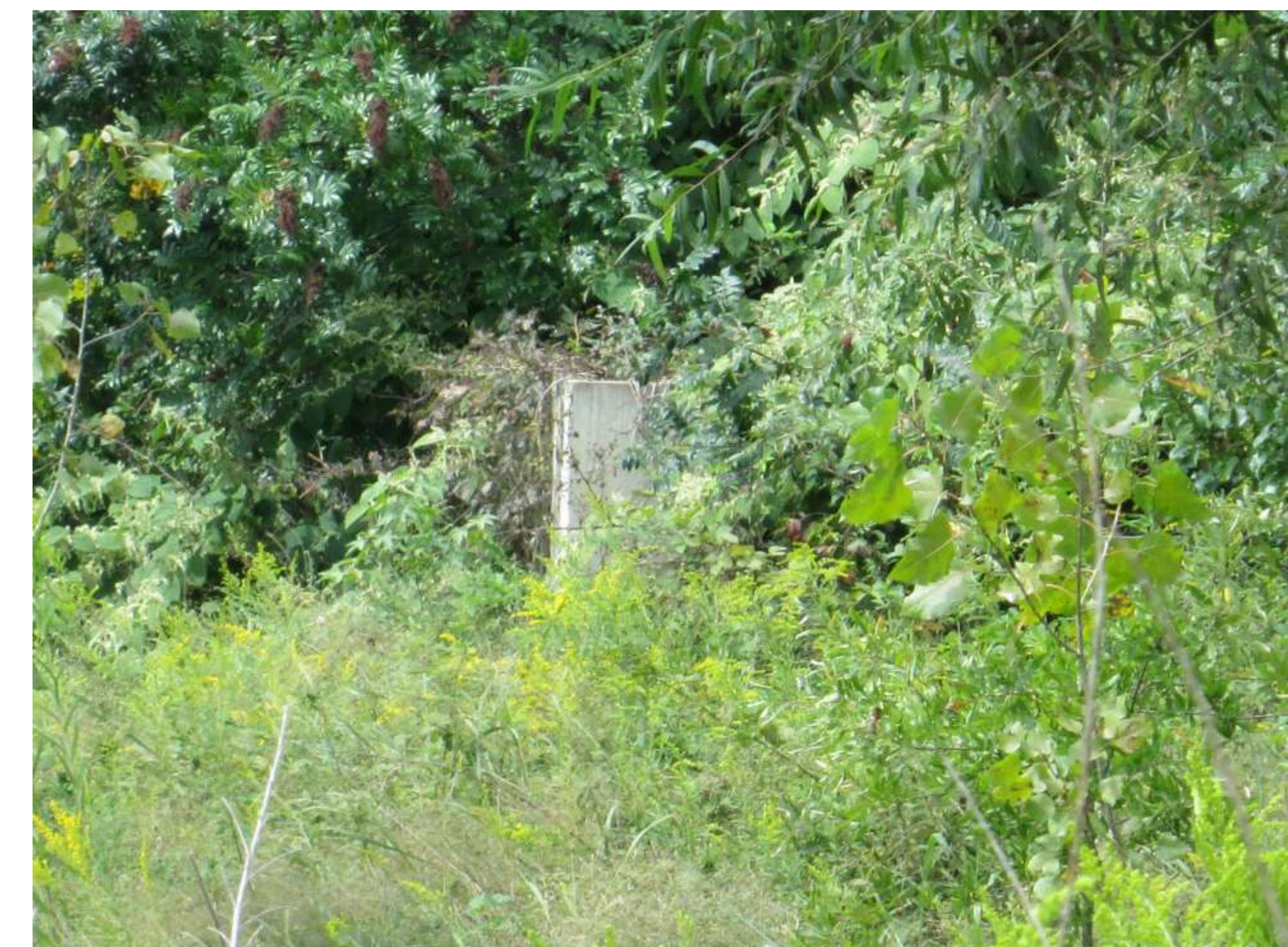
Address:
1175 Sierra Drive
Hamilton Township, NJ 08619



Southern basin overview and outlet structure

Notes:

- Both basins have been left to fully naturalize
- Outlet structures are difficult to find and access
- Access to inlet and outlet structure should be mown once or twice a year



Northern basin overview and outlet structure

Hamilton Township
Stormwater Basin Assessment

371. & 327. JB Tire & Auto Center, Brookwood Café Basins

Address:
3161 Quakerbridge Road
Hamilton Township, NJ 08691



Hamilton Township Stormwater Basin Assessment

371. & 327. JB Tire & Auto Center, Brookwood Café Basins

Address:
3161 Quakerbridge Road
Hamilton Township, NJ 08691



371 (northern basin) overview



Outlet of 371 (northern basin)



372 (southern basin) overview



Inlet and low flow channel

Notes:

- Sediment accumulation in 371 low flow channel
- 371 outlet is covered with sediment
- Erosion around 372 outlet structure causing a dangerous hole, impairing the function of the outlet
- Reduce mowing and replace low flow channel with stone lined channel to improve infiltration



Outlet of 372 (southern basin) broken

Hamilton Township
Stormwater Basin Assessment

377. Grand Bank Basin

Address:
2297 NJ-33
Hamilton Township, NJ 08690



Google

Hamilton Township
Stormwater Basin Assessment
377. Grand Bank Basin

Address:
2297 NJ-33
Hamilton Township, NJ 08690



Basin overview



Naturalization



Natural channel

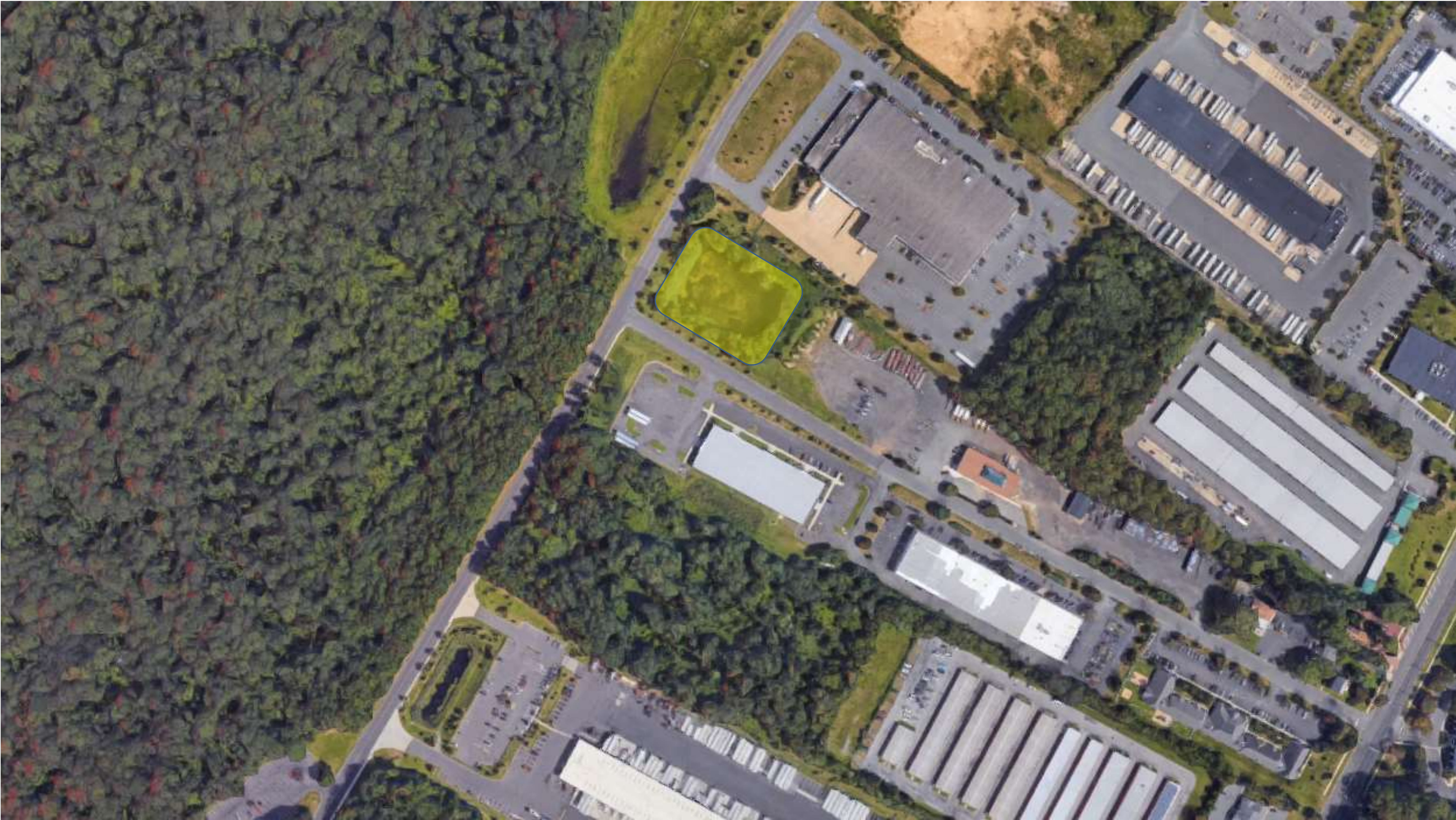
Notes:

- Naturalized basin
- No visible outlet structure
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

378. Fed-Ex Basin

Address:
5 Nami Lane
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
378. Fed-Ex Basin

Address:
5 Nami Lane
Hamilton Township, NJ 08690



Overview



Overview

Notes:

- Naturalized infiltration basin
- Standing water in basin bottom
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

379. Patient First Basin

Address:
633 Route 130
Robbinsville, NJ 08691



Hamilton Township
Stormwater Basin Assessment

379. Patient First Basin

Address:
633 Route 130
Robbinsville, NJ 08691



Outlet



Overviews of basin

- Notes:**
- Fenced off from surrounding areas
 - Naturalized basin
 - Overall well maintained

Hamilton Township
Stormwater Basin Assessment

381. Duck Island Terminal Basin

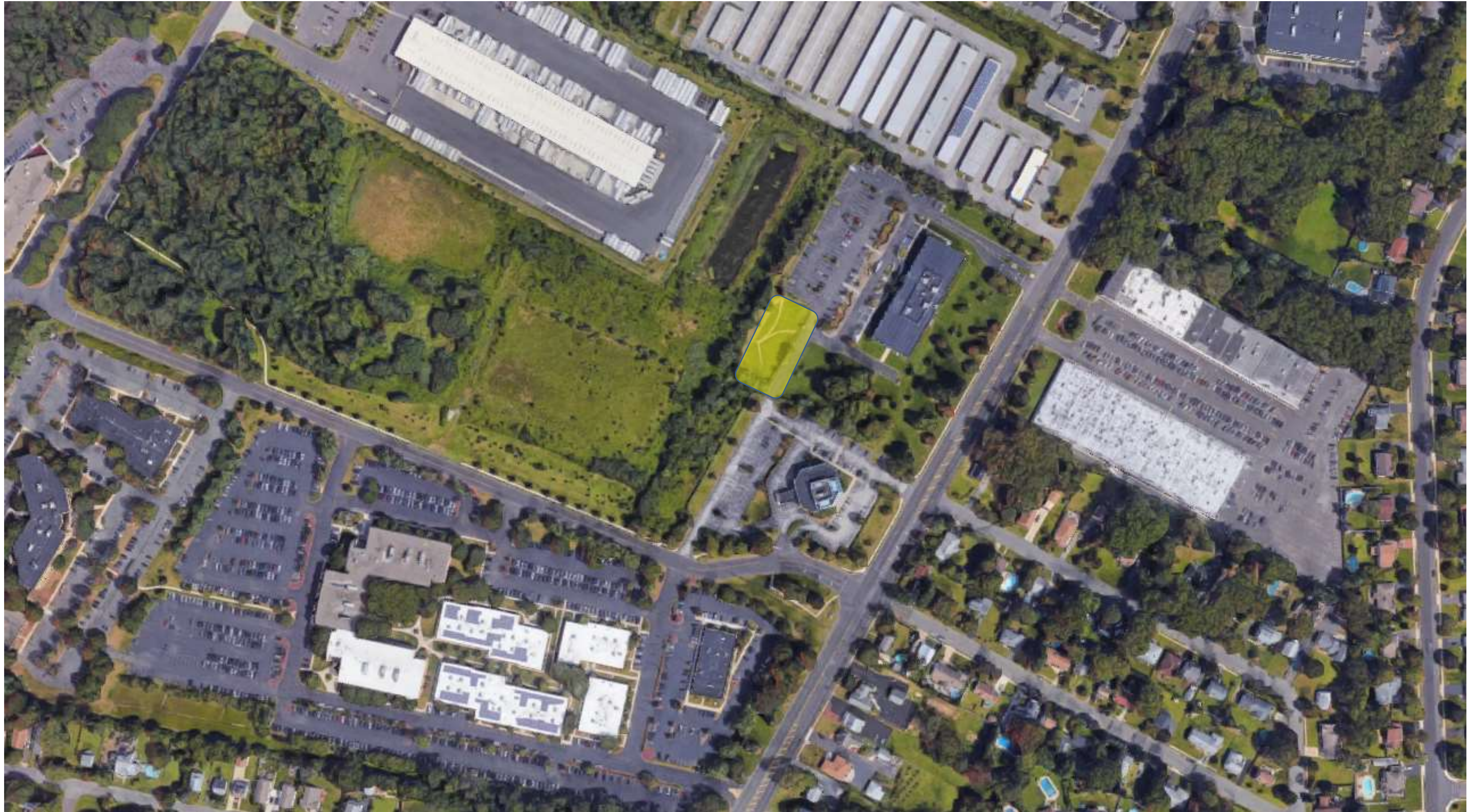
Address:
1463 Lambertson Road
Robbinsville, NJ 08691



Basin not accessible

Hamilton Township
Stormwater Basin Assessment
382. TD Bank Basin

Address:
3469 Mercerville-Quakerbridge Road
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
382. TD Bank Basin

Address:
3469 Mercerville-Quakerbridge Road
Hamilton Township, NJ 08620



Outlet



Basin overview



Basin overview

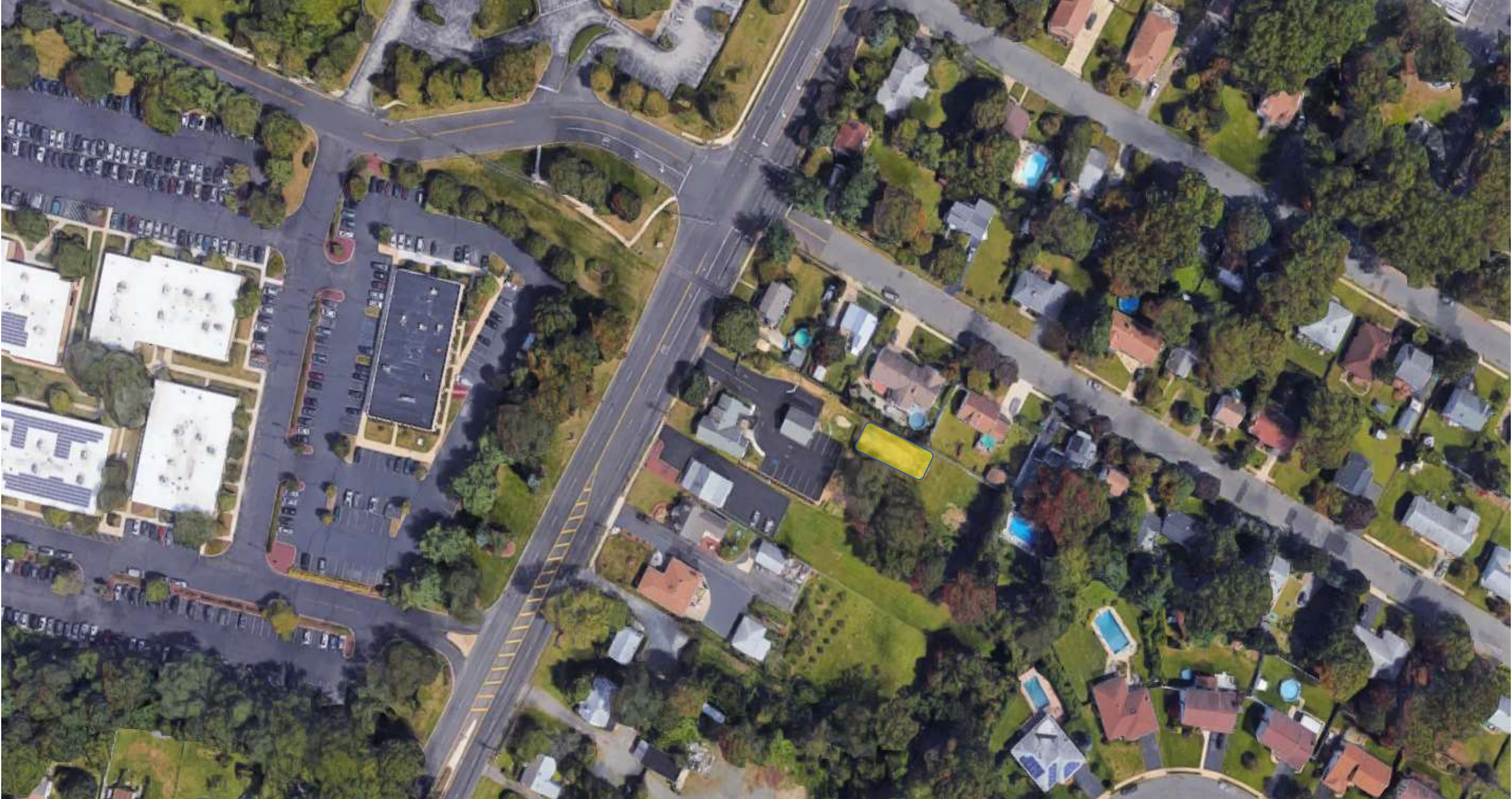
Notes:

- Sediment accumulation in low flow channels
- Some cleaning needed
- Replace low flow channels with stone lined channels to promote infiltration

Hamilton Township
Stormwater Basin Assessment

383. Residential Basin

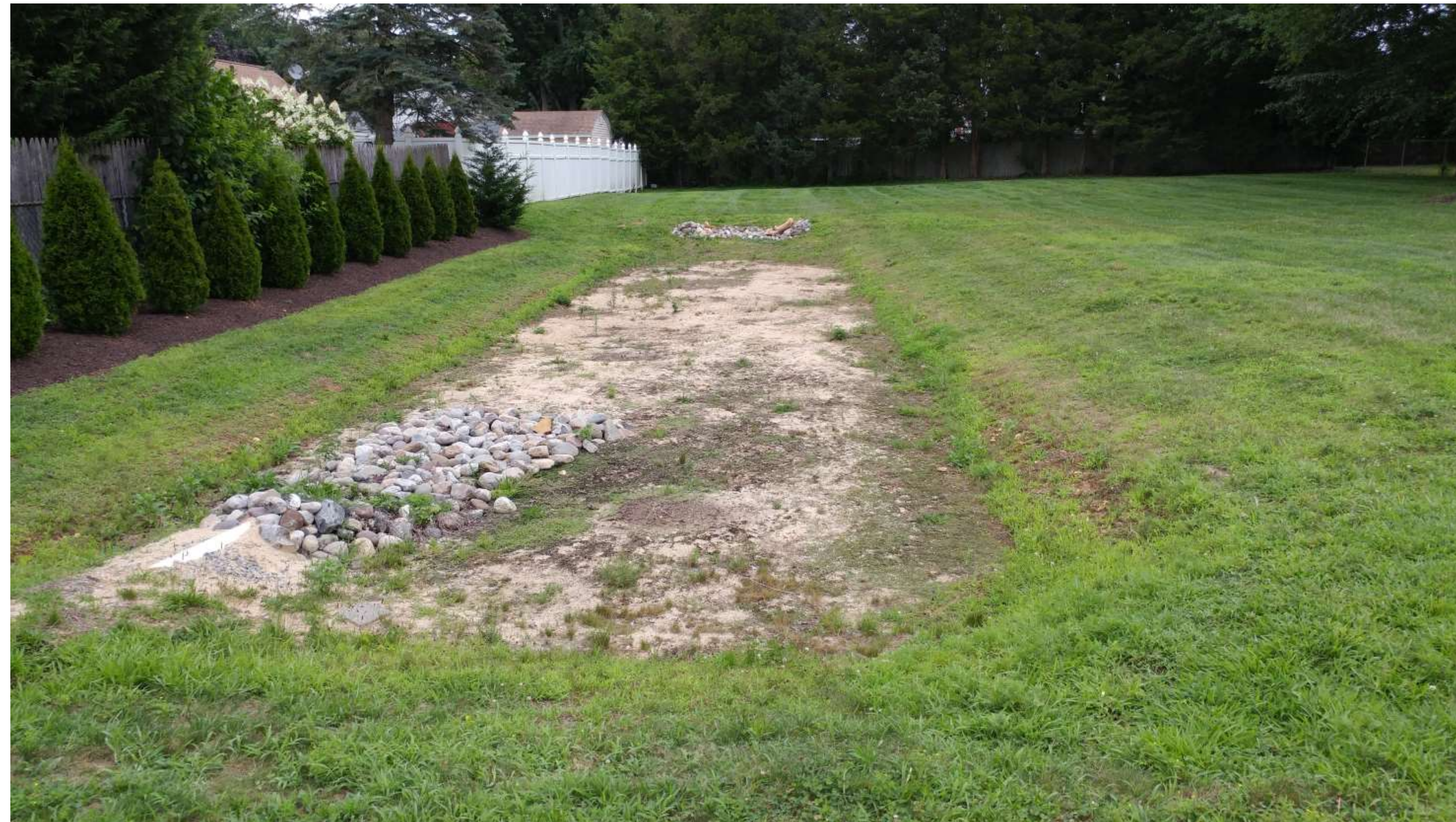
Address:
3469 Mercerville –
Quakerbridge Road
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

383. Residential Basin

Address:
3469 Mercerville –
Quakerbridge Road
Hamilton Township, NJ 08620



Outlet



Basin overview



Spillway

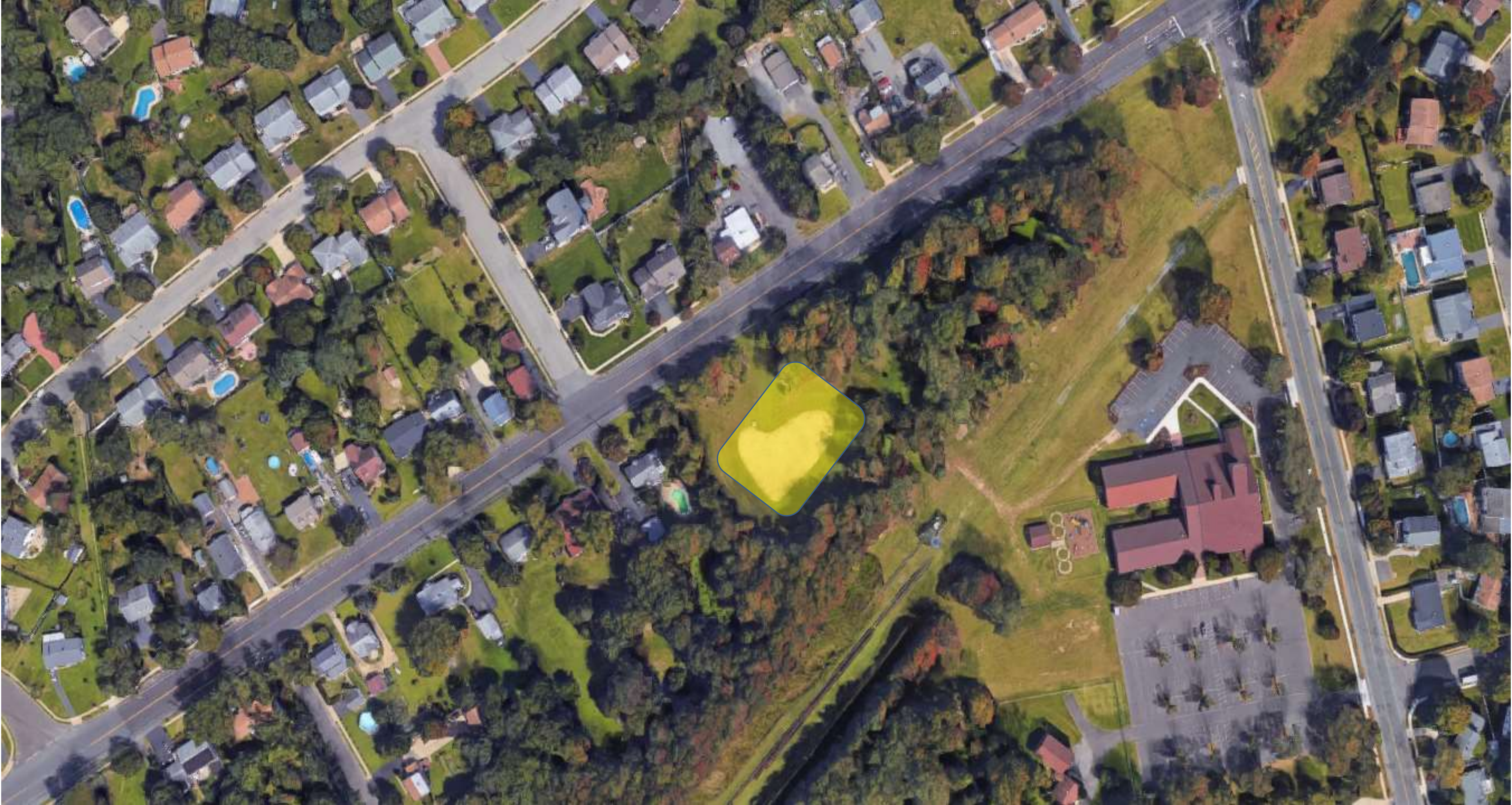
Notes:

- Infiltration basin
- Can be naturalized with plants
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

384. Edinburgh Road Residential Basin

Address:
677 Edinburgh Road
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment
384. Edinburgh Road Residential Basin

Address:
677 Edinburgh Road
Hamilton Township, NJ 08620



Basin overview



Outlet



Inlet with rip rap

Notes:

- Sandy bottom, infiltration basin
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
386. Grounds for Sculpture Basin

Address:
19 Fairgrounds Way
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
386. Grounds for Sculpture Basin

Address:
19 Fairgrounds Way
Hamilton Township, NJ 08619



Outlet structure



Outlet structure

Notes:

- Naturalized basin
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment
390. Twin Ponds Boulevard Basin

Address:
1712 Yardville Hamilton Square Road
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
390. Twin Ponds Boulevard Basin

Address:
1712 Yardville Hamilton Square Road
Hamilton Township, NJ 08690



Basin overview



Outlet structure

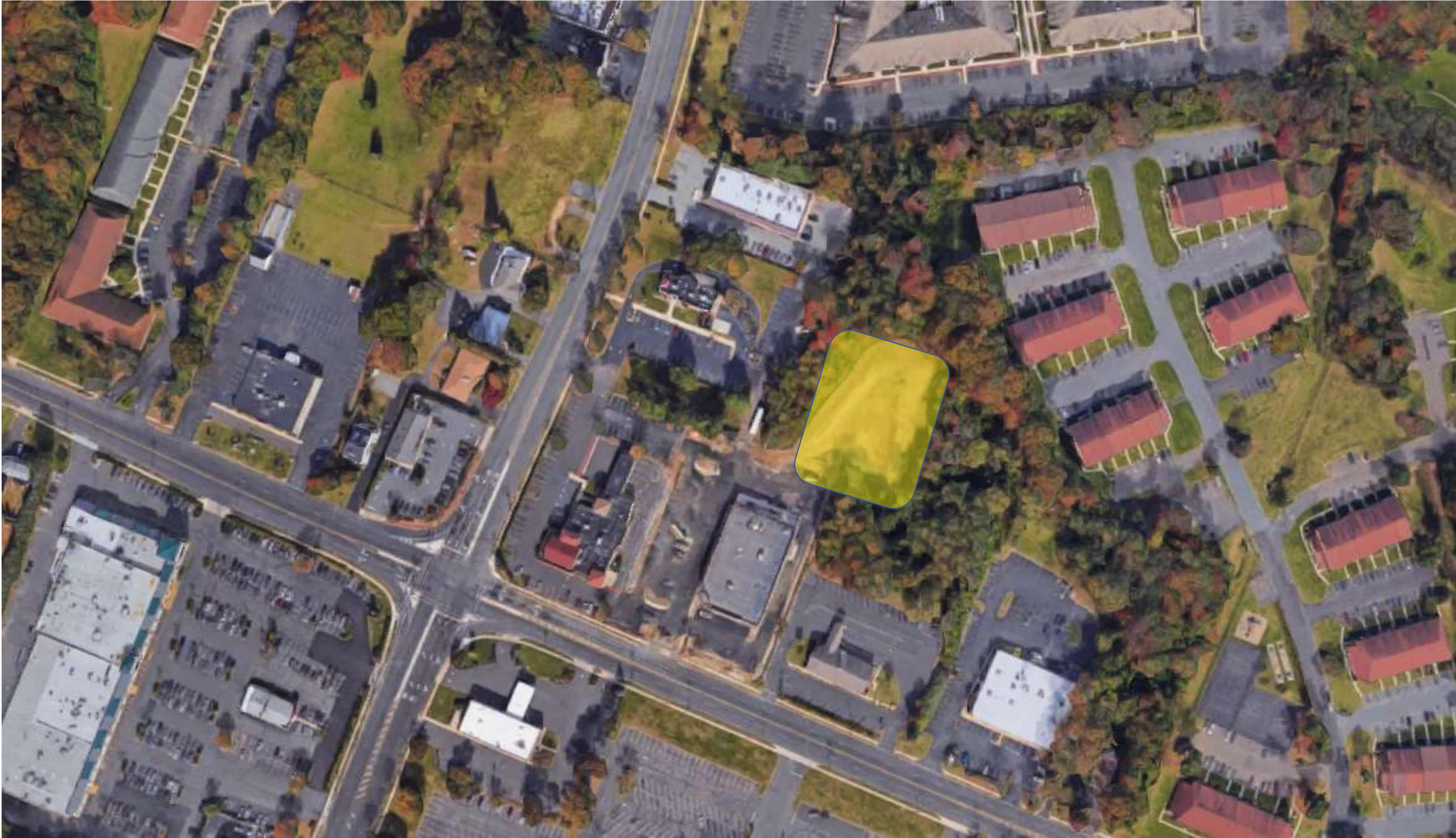
Notes:

- Vegetation covering outlets
- Naturalized retention basin

Hamilton Township
Stormwater Basin Assessment

393. Walgreens Basin

Address:
1155 Whitehorse Mercerville Road
Hamilton Township, NJ 08620

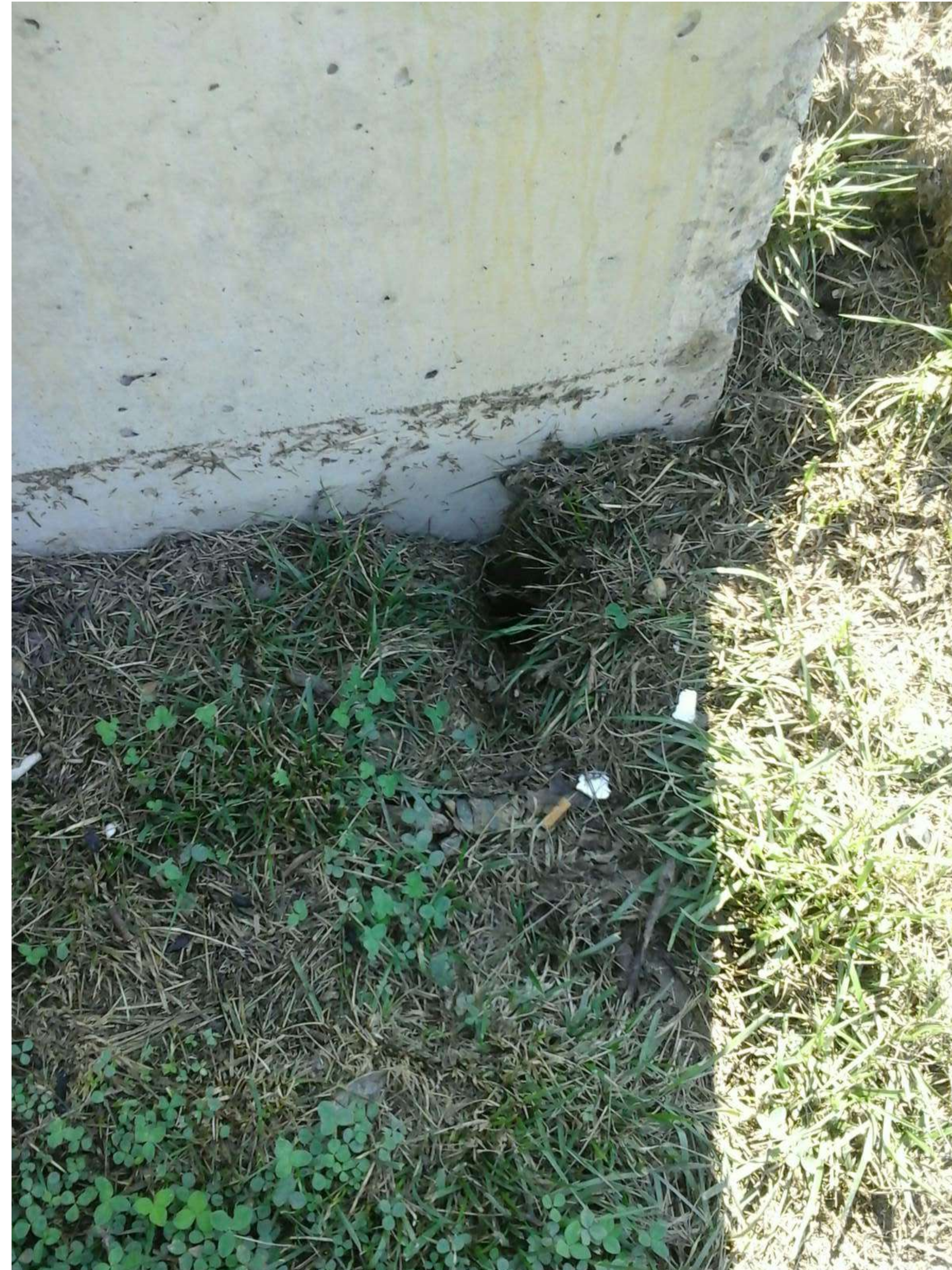


Hamilton Township
Stormwater Basin Assessment
393. Walgreens Basin

Address:
1155 Whitehorse Mercerville Road
Hamilton Township, NJ 08620



Overview of basin



Some erosion at outlet

Notes:

- Some erosion around outlet structure base
- Reduce mowing for better infiltration

Hamilton Township
Stormwater Basin Assessment

394. Walmart Basin

Address:
1700 Nottingham Way
Hamilton Township, NJ 08619



Hamilton Township Stormwater Basin Assessment

394. Walmart Basin

Address:
1155 Whitehorse Mercerville Road
Hamilton Township, NJ 08620



Basin overview



Inlet structure



Notes:

- Retention basin
- Reduce mowing for less aquatic pollution

Hamilton Township
Stormwater Basin Assessment

397. Creamery Road Residential Basin

Address:
395 Old York Road
Hamilton Township, NJ 08610



Basin not accessible

Hamilton Township
Stormwater Basin Assessment

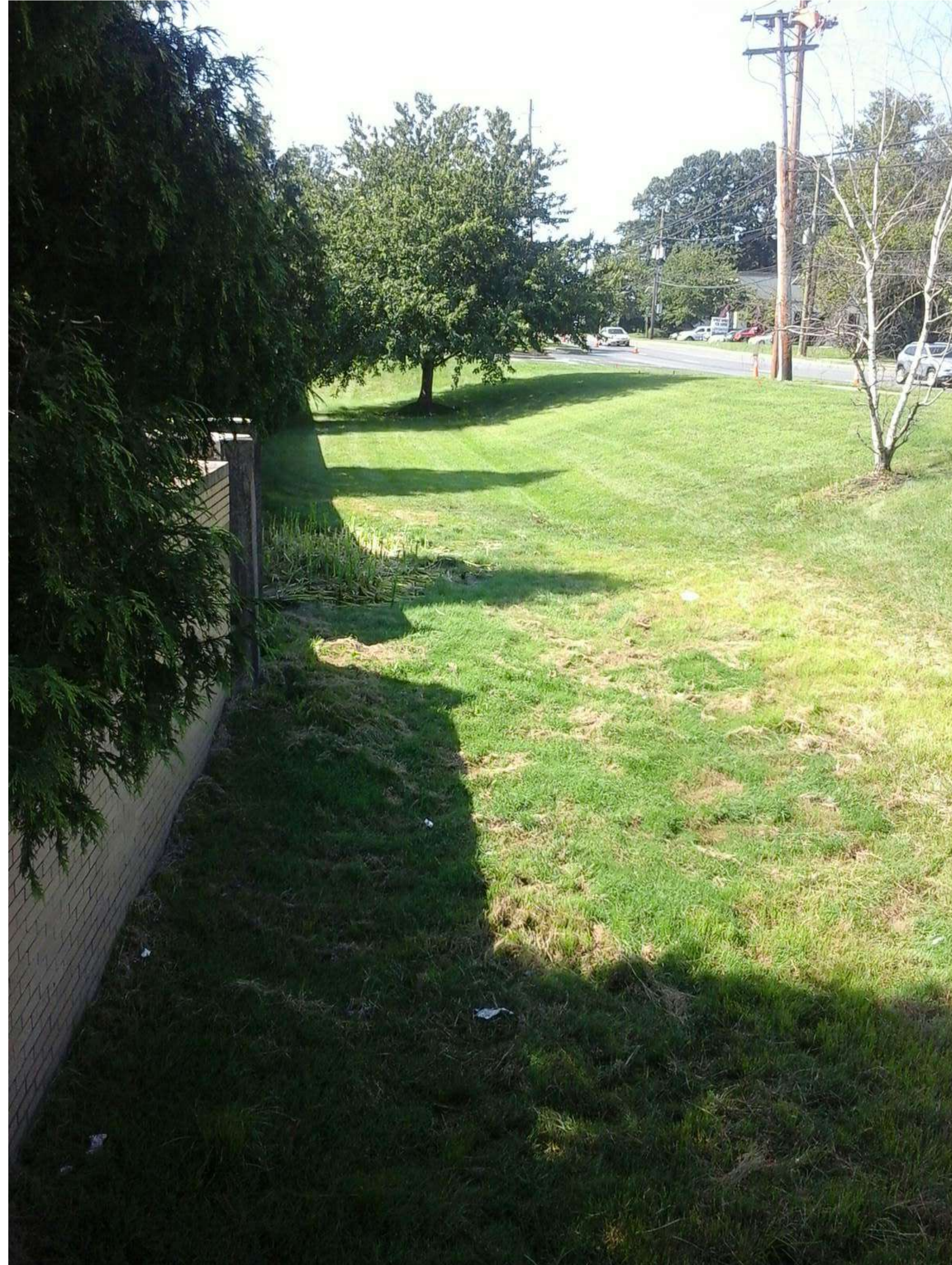
400. LabCorp Offices Basin

Address:
1245 Whitehorse Mercerville Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
400. LabCorp Offices Basin

Address:
1245 Whitehorse Mercerville Road
Hamilton Township, NJ 08610



Basin overview



Outlet structure

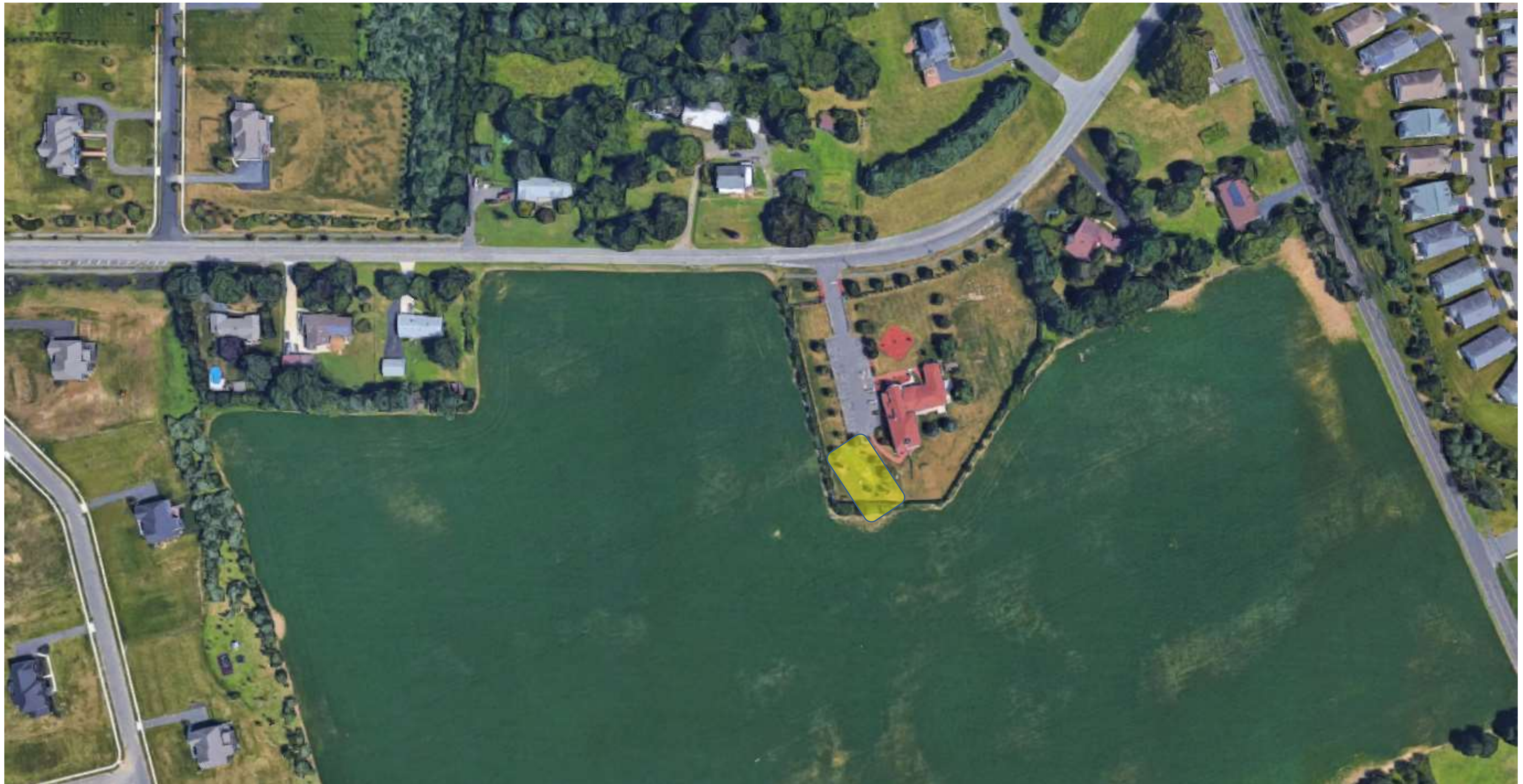
Notes:

- Minor sediment accumulation near inlet
- Reduce mowing and establish meadows to allow for better infiltration

Hamilton Township
Stormwater Basin Assessment

402. Shri Paramhans Advait Mat Temple Basin

Address:
501 Old York Road
Hamilton Township, NJ 08620



Hamilton Township
Stormwater Basin Assessment

402. Shri Paramhans Advait Mat Temple Basin

Address:
501 Old York Road
Hamilton Township, NJ 08620



Basin overview



Outlet structure



Inlet

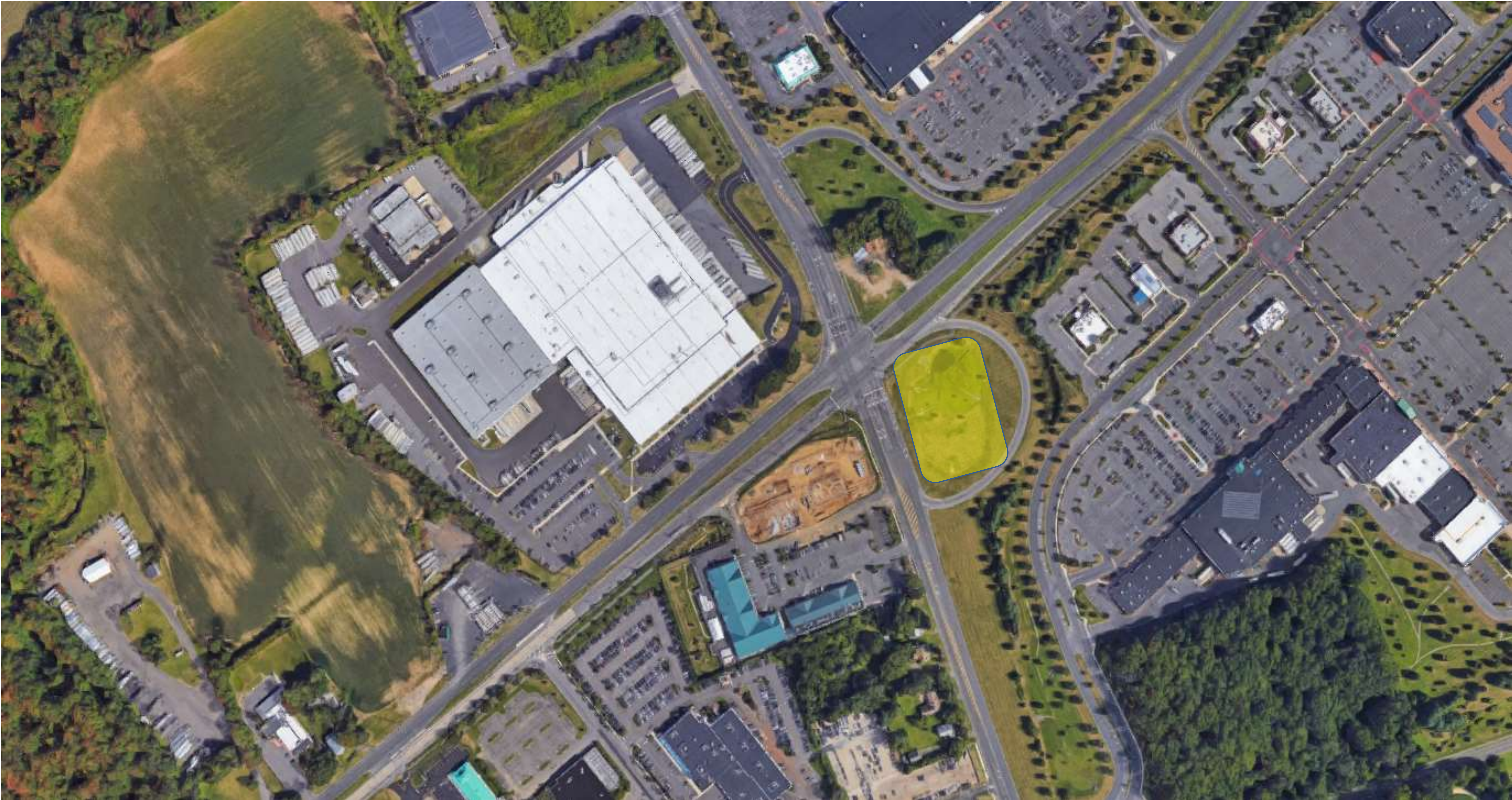
Notes:

- Sediment and standing water at inlet grate
- Some debris present, needs cleaning
- Reduce mowing to allow for better infiltration

Hamilton Township
Stormwater Basin Assessment

403. Route 130 and Klockner Road Basin

Address:
Route 130 & Klockner Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
403. Route 130 and Klockner Road Basin

Address:
Route 130 & Klockner Road
Hamilton Township, NJ 08691



Inlet



Overview of basin



Low flow channels



Outlet

Notes:

- Sediment accumulation at inlets and low flow channels
- Standing water in low flow channels and outlet
- Remove low flow channels and replace with stone lined channels to improve infiltration
- Reduce mowing to improve infiltration

Hamilton Township
Stormwater Basin Assessment

404. Hamilton Honda Basin

Address:
655 Route 130
Hamilton Township, NJ 08691

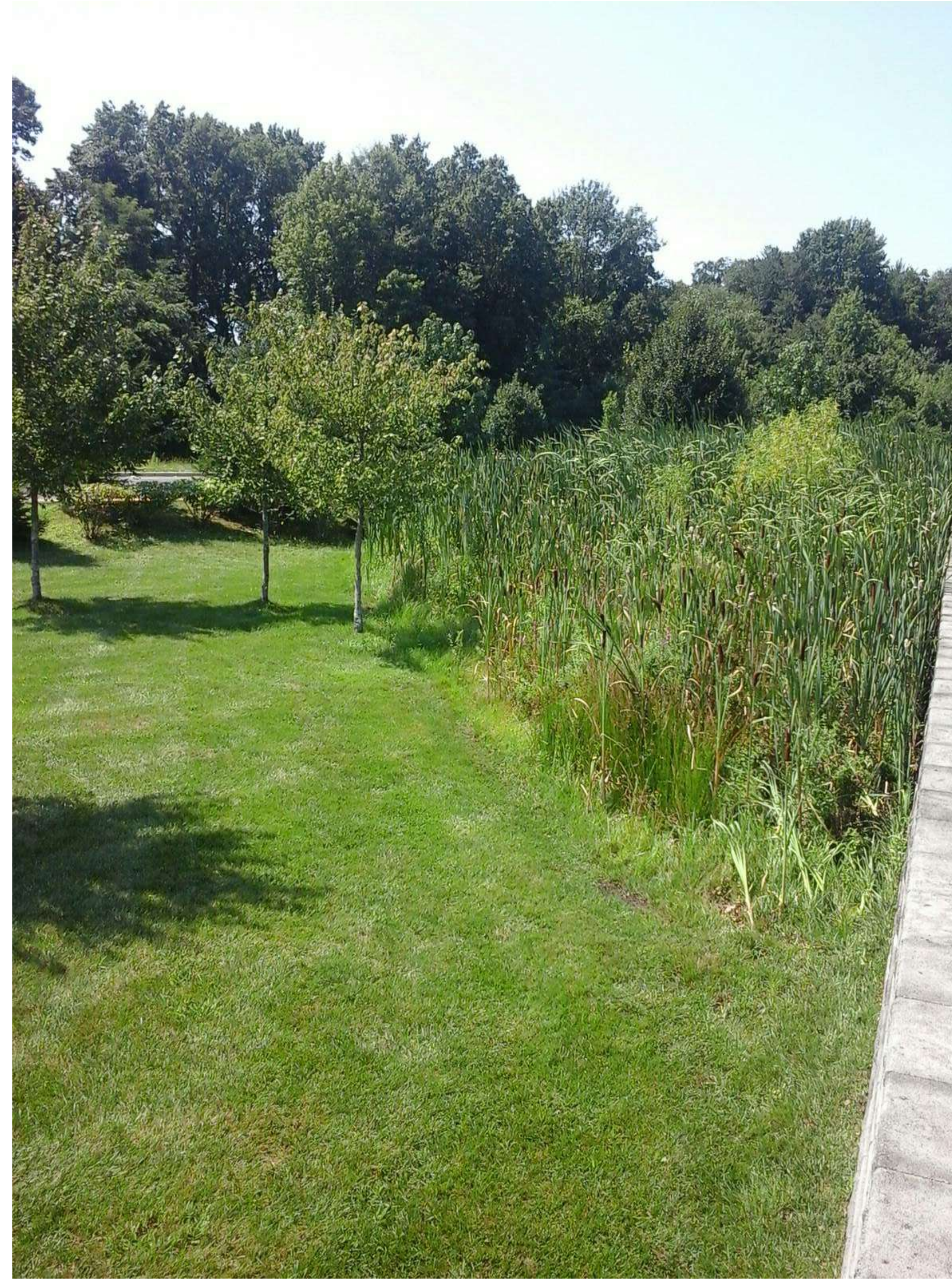


Hamilton Township
Stormwater Basin Assessment
404. Hamilton Honda Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Inlet



Overview of basin

Notes:

- Naturalized basin
- Some standing water present in basin bottom
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

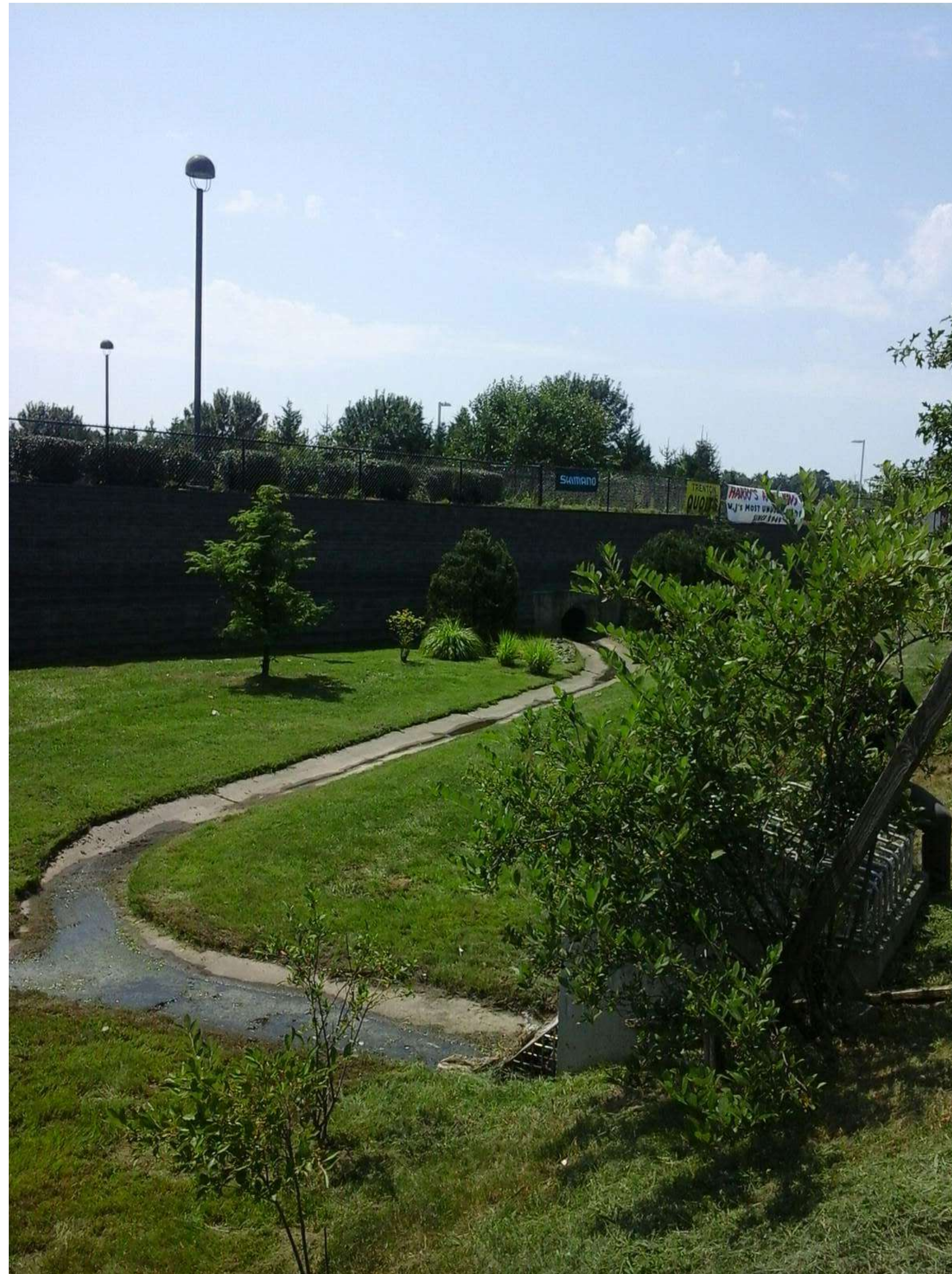
405. Wawa Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
405. Wawa Basin

Address:
655 Route 130
Hamilton Township, NJ 08691



Outlet

Notes:

- Some standing water in low flow channel
- Replace low flow channels with stone lined channel to improve infiltration
- Reduce mowing to improve infiltration

Hamilton Township
Stormwater Basin Assessment

406. Montessori School of Hamilton

Address:
817 Whitehorse Hamilton
Square Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
406. Montessori School of Hamilton

Address:
817 Whitehorse Hamilton
Square Road
Hamilton Township, NJ 08610



Basin bottom



Outlet

Notes:

- Large woody vegetation in basin
- Accumulation of sediment and leaves at outlet
- Some cleaning needed

Hamilton Township
Stormwater Basin Assessment

407. Black Forest Road Commercial Basin

Address:
4 Black Forest Road
Trenton, NJ 08691



Hamilton Township
Stormwater Basin Assessment
407. Black Forest Road Commercial Basin

Address:
4 Black Forest Road
Hamilton Township, NJ 08610



Basin bottom and outlet

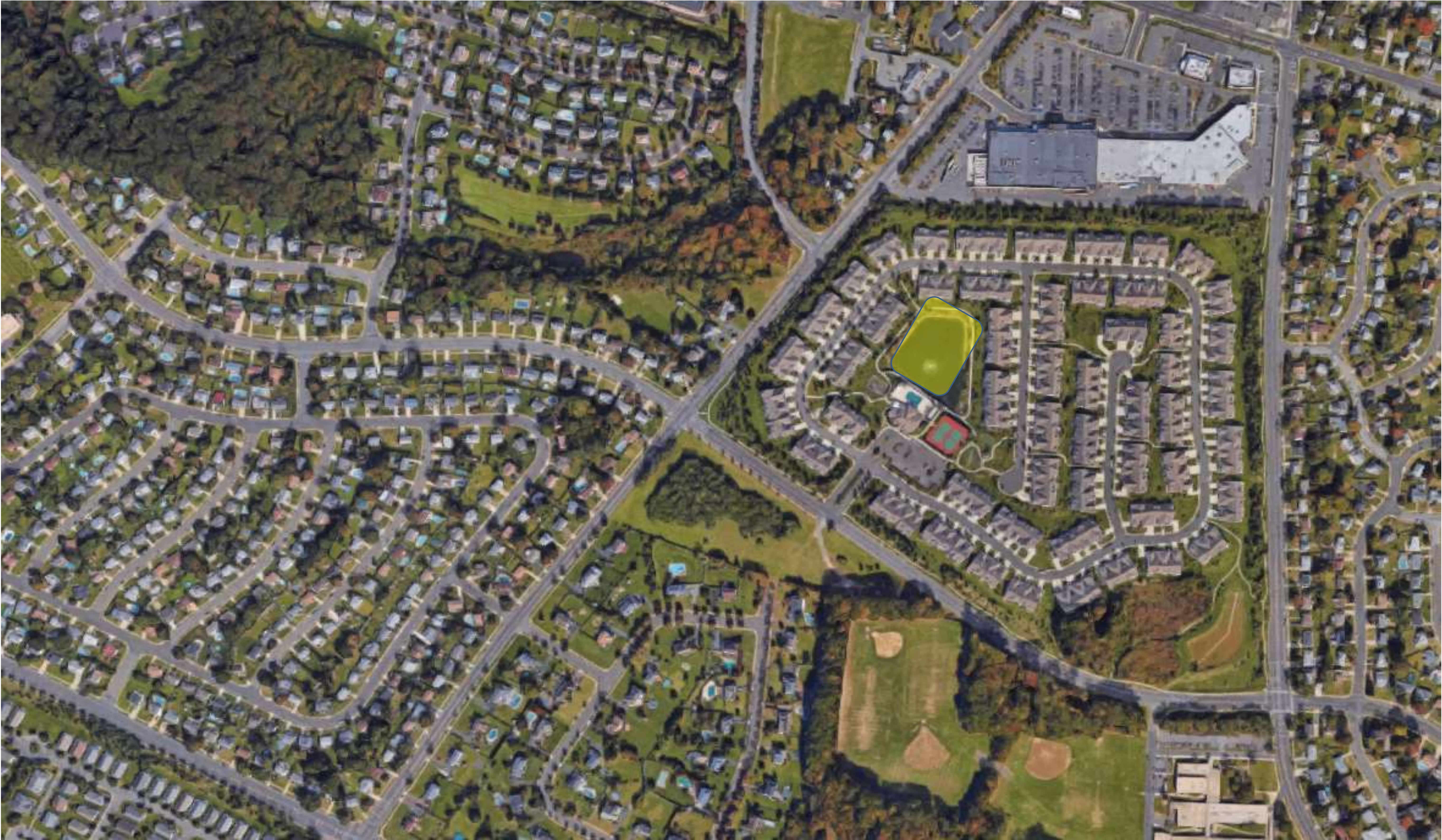
Notes:

- Infiltration basin
- Reduce mowing to improve habitat and reduce erosion

Hamilton Township
Stormwater Basin Assessment

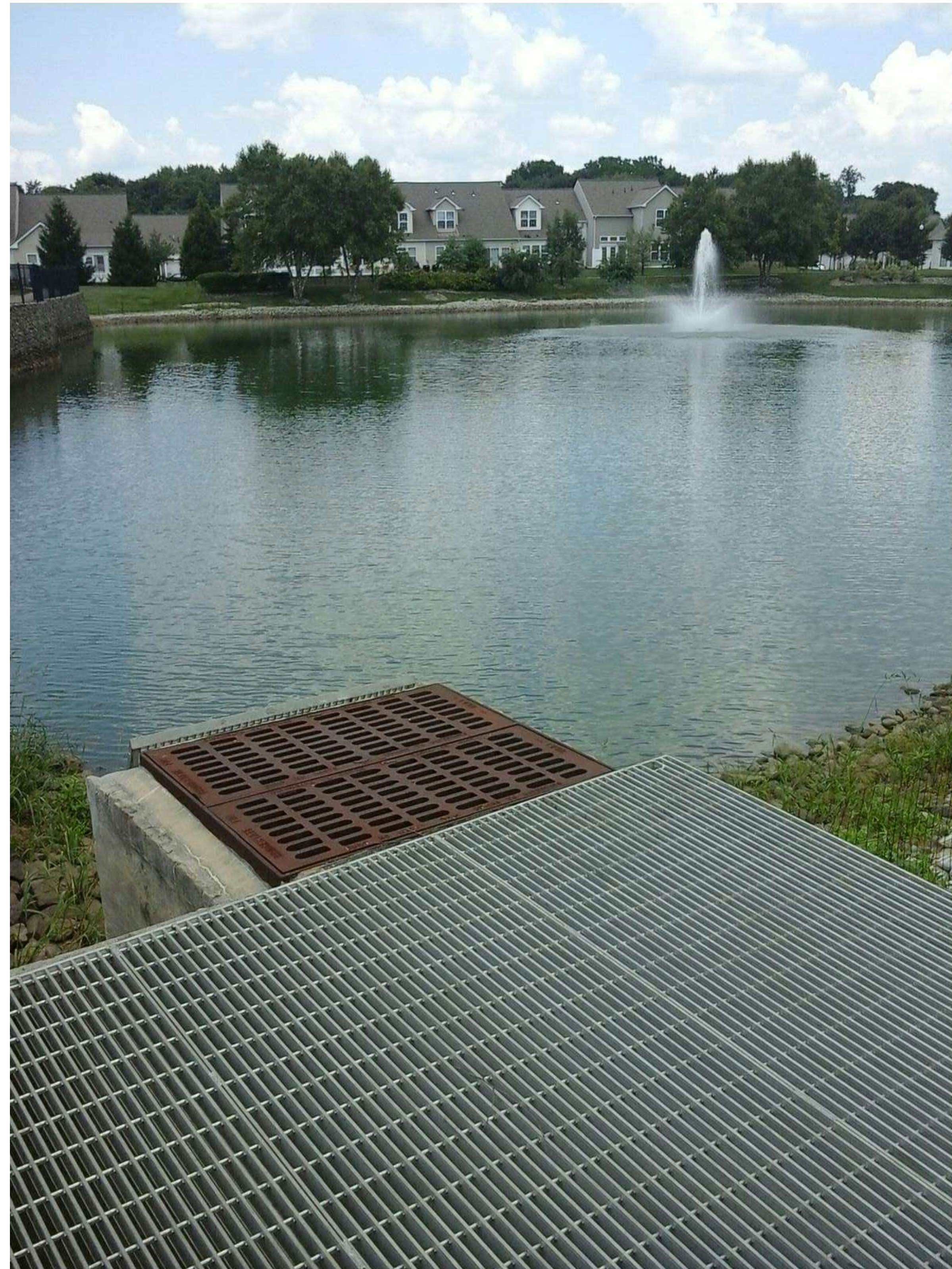
412. Sparrow Drive Residential Basin

Address:
2 Sparrow Drive
Trenton, NJ 08690



Hamilton Township
Stormwater Basin Assessment
412. Sparrow Drive Residential Basin

Address:
2 Sparrow Drive
Trenton, NJ 08690



Basin and outlet



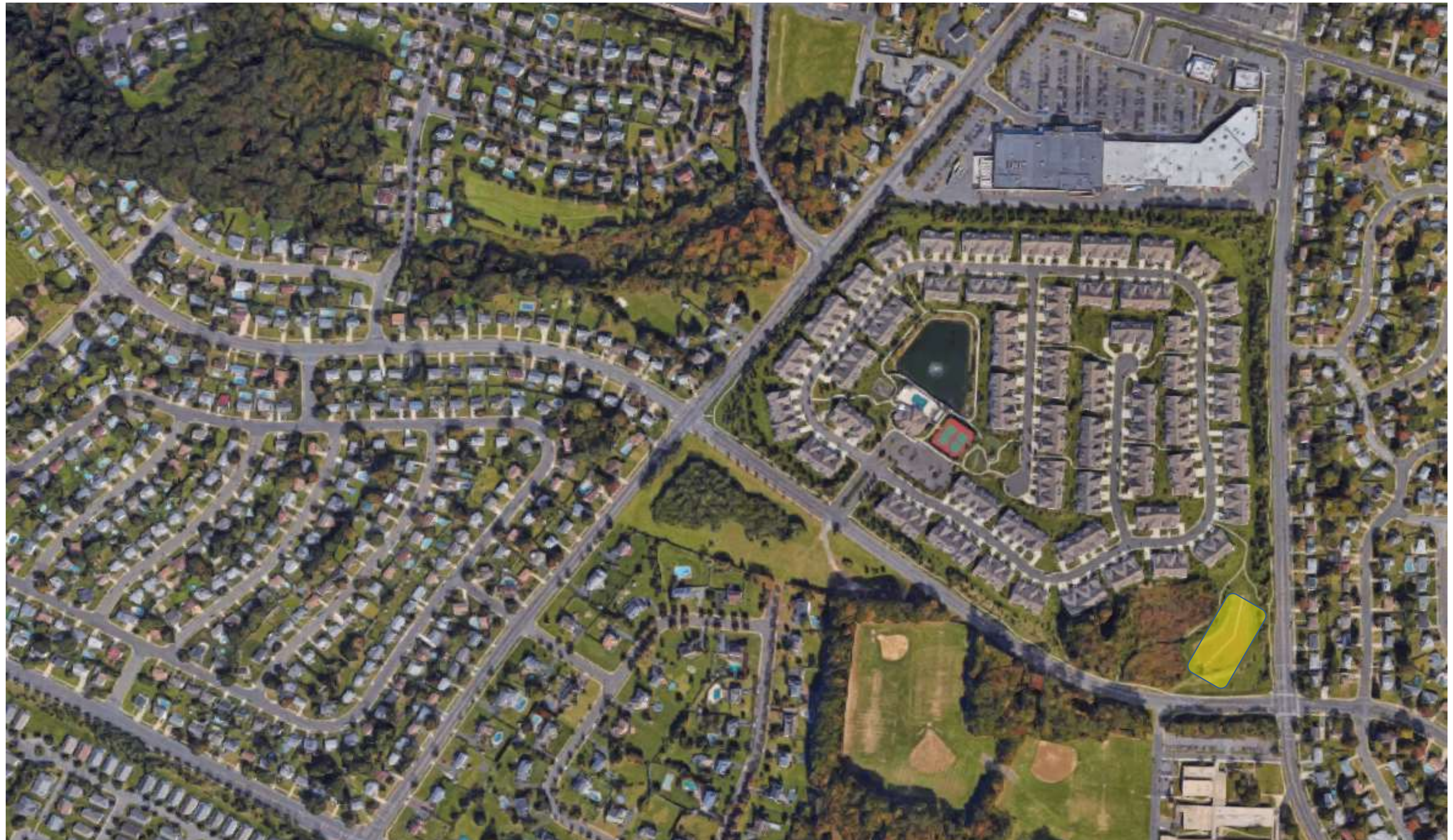
Outlet

Notes:

- Retention basin
- Establish riparian buffer to reduce geese presence.

Hamilton Township
Stormwater Basin Assessment
413. Sparrow Drive Residential Basin

Address:
2244 Yardville Hamilton Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
413. Sparrow Drive Residential Basin

Address:
2 Sparrow Drive
Trenton, NJ 08690



Notes:

- Establish meadows to improve infiltration
- Mosquito eggs in standing water in outlet

Basin overview

Inlets

Hamilton Township
Stormwater Basin Assessment

414. AR&C Self Storage Basin

Address:
1 Back Creek Way
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
414. AR&C Self Storage Basin

Address:
1 Back Creek Way
Hamilton Township, NJ 08691



Overview



Overview

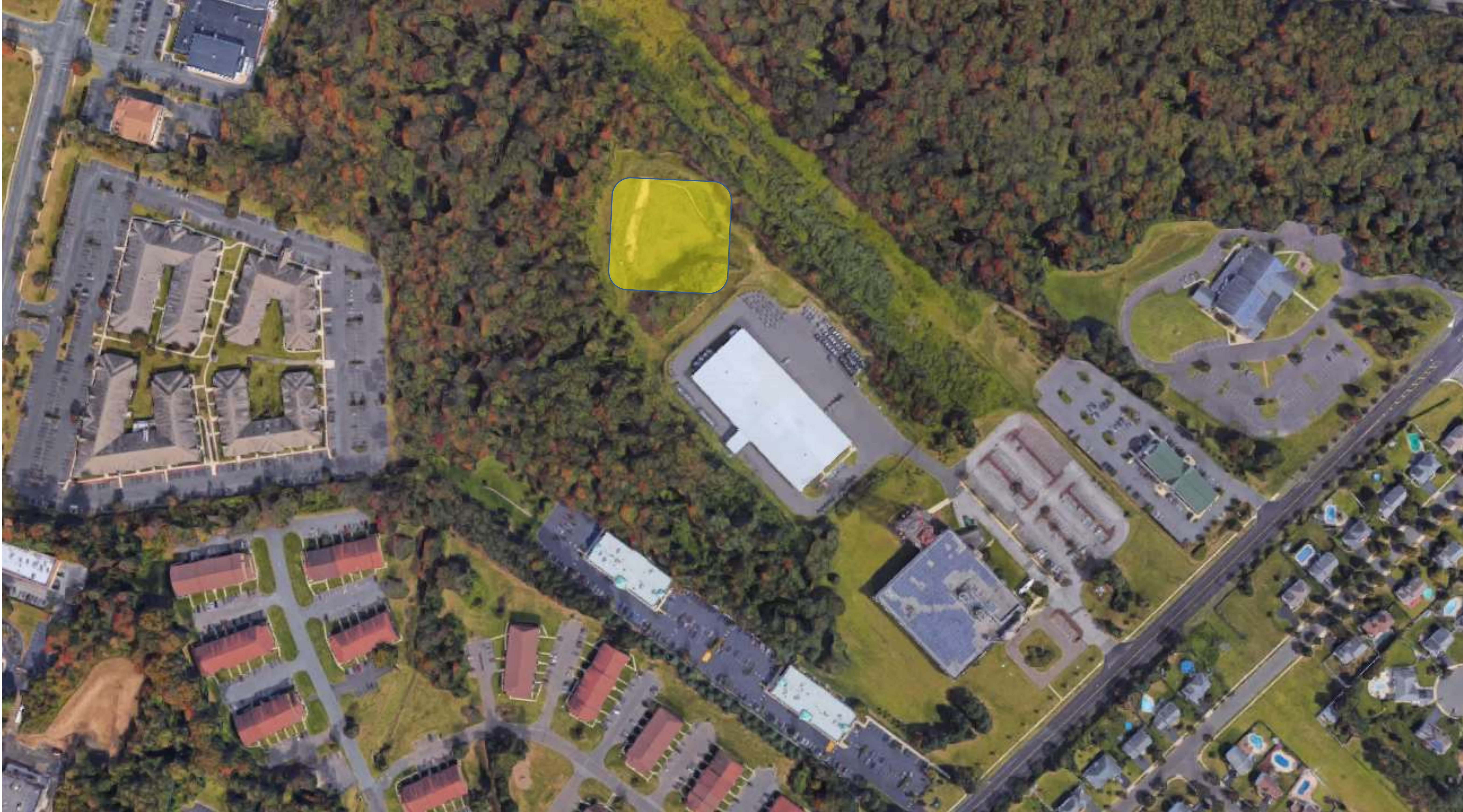
Notes:

- Completely naturalized basin
- Inlets and outlets not visible or accessible

Hamilton Township
Stormwater Basin Assessment

416. AT&T and Verizon Buildings Basin

Address:
1300 Whitehorse Hamilton
Square Road
Hamilton Township, NJ 08691



Basin not accessible

Hamilton Township
Stormwater Basin Assessment

419. American Metro Boulevard Basins

Address:
Carlisle Avenue & Princeton Avenue
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
419. American Metro Boulevard Basins

Address:
Carlisle Avenue & Princeton Avenue
Hamilton Township, NJ 08619



Notes:

- Enhance riparian buffers to improve water quality and reduce geese presence
- Otherwise well maintained



Basin and outlet

Hamilton Township
Stormwater Basin Assessment
420. Apartment Clubhouse Basin

Address:
900 Grand Central Drive
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
420. Apartment Clubhouse Basin

Address:
900 Grand Central Drive
Hamilton Township, NJ 08691



Inlet



Overview of Basin

Notes:

- Retention pond
- Some debris needs to be cleaned out

Hamilton Township
Stormwater Basin Assessment

421. Industrial Basin

Address:
1325 Klockner Road
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
421. Industrial Basin

Address:
1325 Klockner Road
Hamilton Township, NJ 08610



Overview of basin



Intlet pipe from road



Standing water

Notes:

- Standing water present
- Basin near environmental clean up site
- Amend soil to improve infiltration and reduce standing water
- Plant with woody vegetation to improve infiltration

Hamilton Township
Stormwater Basin Assessment

423. & 424. Yardville Solar Farm Basins

Address:
5443 South Broad Street
Hamilton Township, NJ 08620



Basins not accessible

Hamilton Township
Stormwater Basin Assessment

426. Gres Court Residential Basin

Address:
Laura & Evelyn Avenue
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
426. Gres Court Residential Basin

Address:
Laura & Evelyn Avenue
Hamilton Township, NJ 08619



Overview of basin



Outlet structure



Outlet structure



Inlet

Notes:

- Stone lined flow channel
- Some vegetation overgrowth around inlet and outlet
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

427. Faith Baptist Church Basin

Address:
4371 Crosswicks Hamilton Square Road
Hamilton Township, NJ 08610



Basin not accessible

Hamilton Township
Stormwater Basin Assessment

428. Dogwood Lane Residential Basin

Address:
21 Dogwood Lane
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
428. Dogwood Lane Residential Basin

Address:
21 Dogwood Lane
Hamilton Township, NJ 08610



Inlet



Basin overview

Notes:

- Two part basin system
- Reduce mowing to improve infiltration
- Overall well maintained



Inlet



Outlet

Hamilton Township
Stormwater Basin Assessment
429. Tri-Trenton Asphalt Basin

Address:
2485 East State Street
Hamilton Township, NJ 08619



Hamilton Township
Stormwater Basin Assessment
429. Tri-Trenton Asphalt Basin

Address:
2485 East State Street
Hamilton Township, NJ 08619



Basin overview



Inlet



Inlet



Basin overview

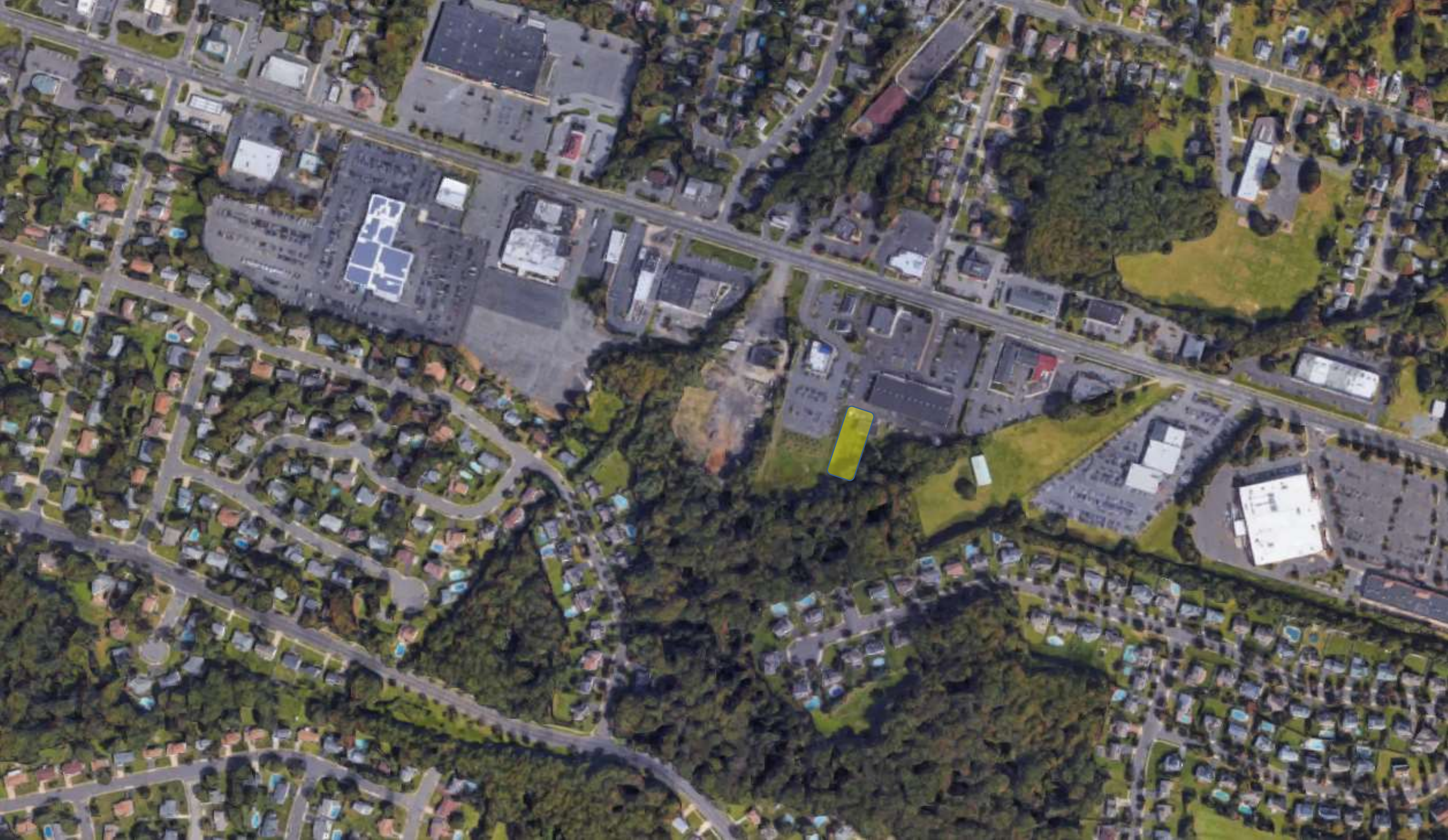
Notes:

- Outlet is clogged by grass clippings
- Replace low flow channels with stone lined channels
- Overall well maintained

Hamilton Township
Stormwater Basin Assessment

430. Block Plaza Basin

Address:
811 Route 33
Hamilton Township, NJ 08610



Hamilton Township
Stormwater Basin Assessment
430. Block Plaza Basin

Address:
811 Route 33
Hamilton Township, NJ 08610



Outlet



Basin overview



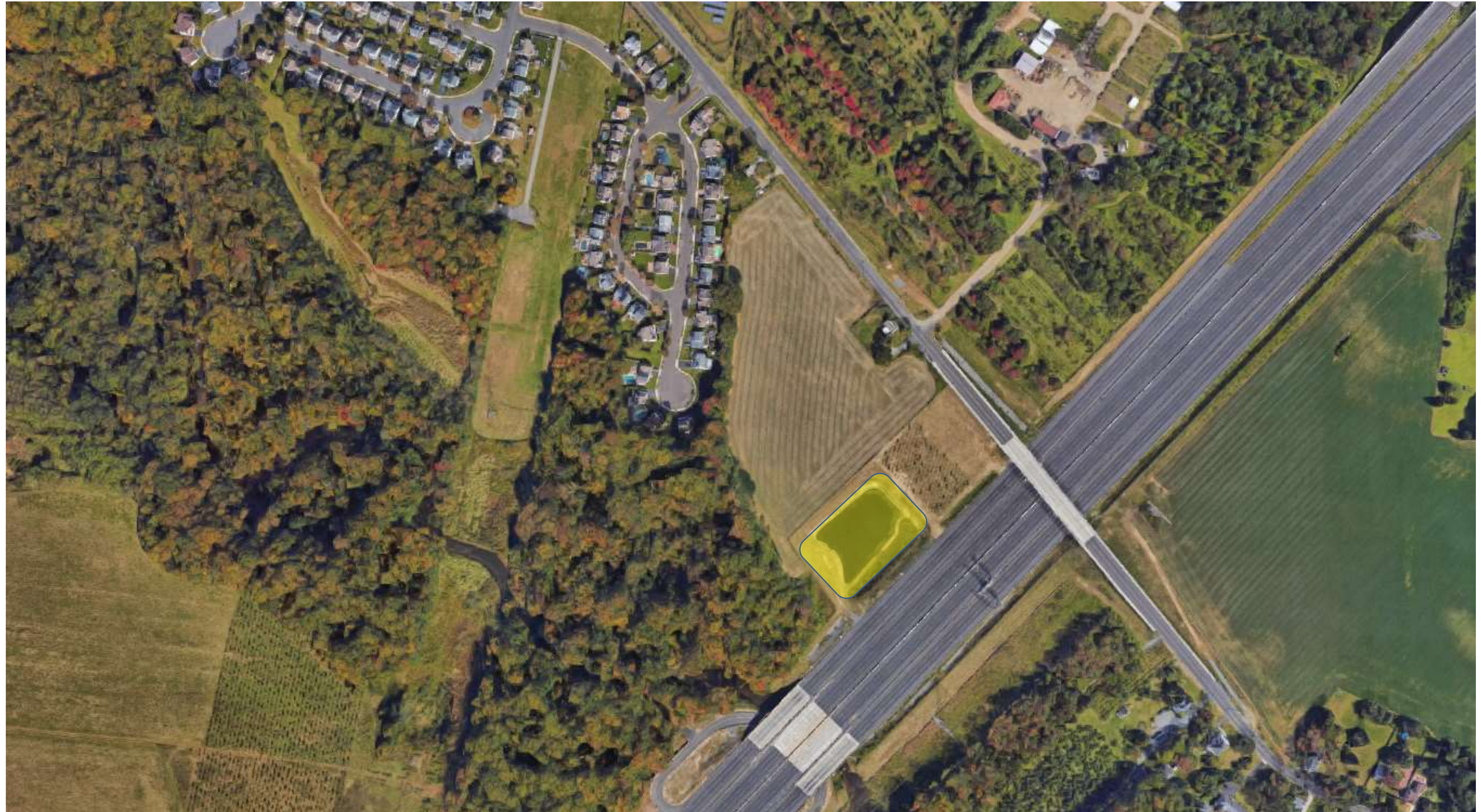
Basin overview

Notes:

- Infiltration basin
- Excess sediment and debris accumulated near outlet

Hamilton Township
Stormwater Basin Assessment
431. NJ Turnpike Authority

Address:
5600 South Broad Street
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
432. NJ Turnpike Authority

Address:
4641 Crosswicks Hamilton Square Road
Hamilton Township, NJ 08691



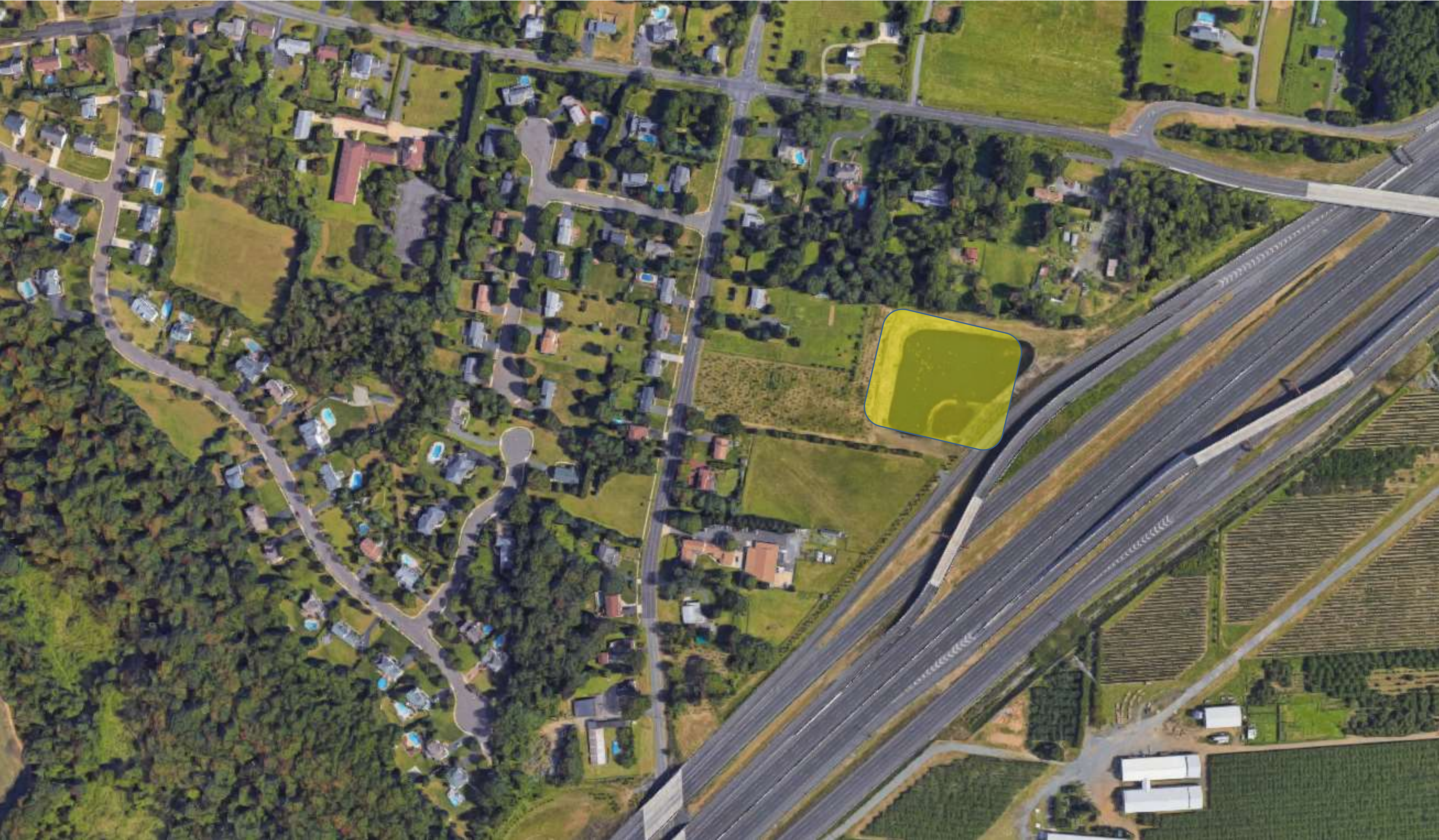
Hamilton Township
Stormwater Basin Assessment
433. NJ Turnpike Authority

Address:
4745 Crosswicks Hamilton Square Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
434. NJ Turnpike Authority

Address:
4511 Crosswicks Hamilton Square Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
435. NJ Turnpike Authority

Address:
130 Uncle Pete's Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
436. NJ Turnpike Authority

Address:
75 Merrick Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
437. NJ Turnpike Authority

Address:
200 Uncle Pete's Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

438. NJ Turnpike Authority

Address:
89 Merrick Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment
439. NJ Turnpike Authority

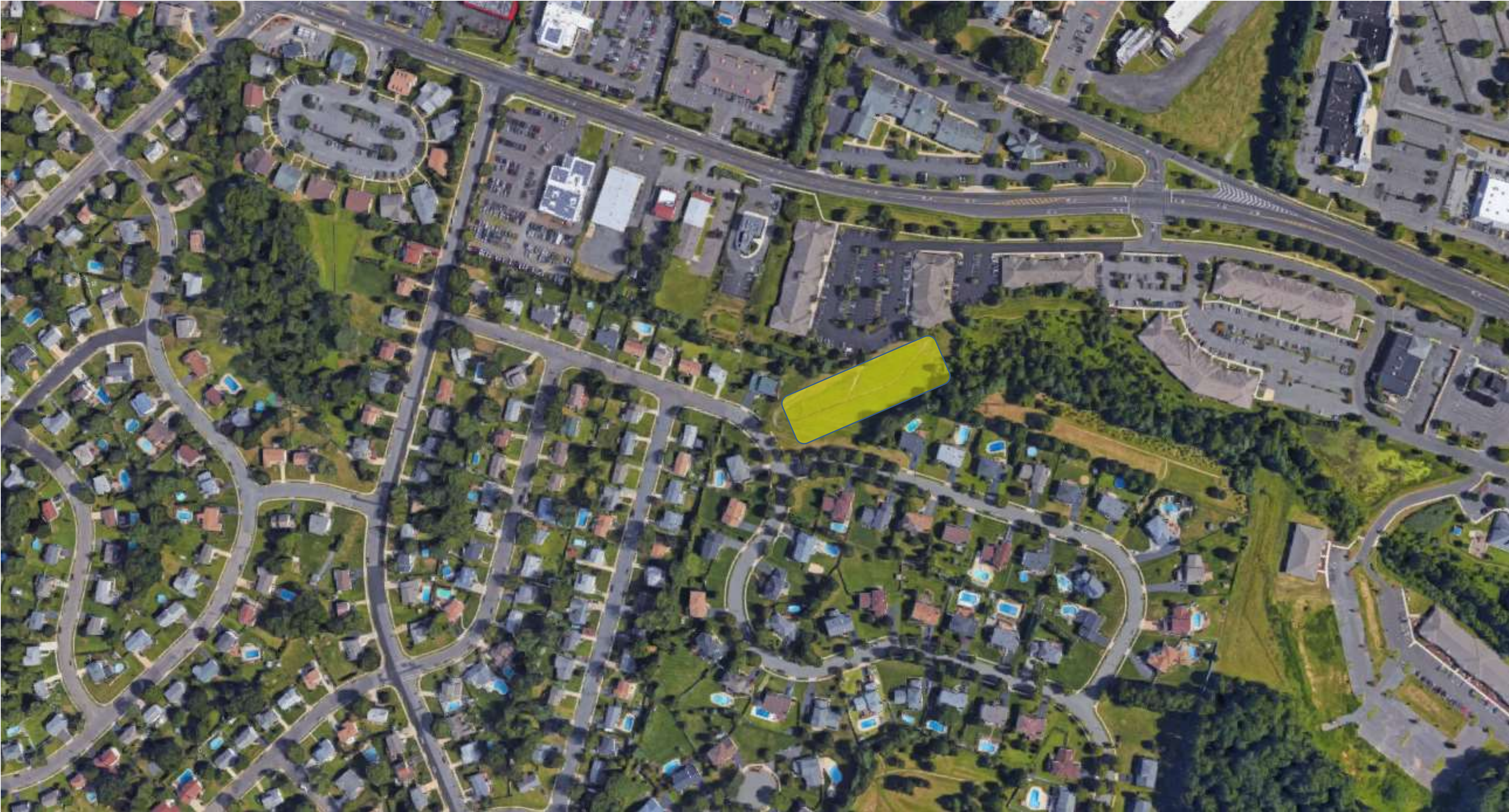
Address:
210 Merrick Road
Hamilton Township, NJ 08691



Hamilton Township
Stormwater Basin Assessment

440. Great Oak Road Residential Basin

Address:
28 Great Oak Road
Hamilton Township, NJ 08690



Hamilton Township
Stormwater Basin Assessment
440. Great Oak Road Residential Basin

Address:
28 Great Oak Road
Hamilton Township, NJ 08690



Overview of basin



Notes:

- Sediment and debris accumulation at outlet grate
- Standing water noted in basin bottom and outlet
- Use stone lined channels to increase infiltration



Outlet



Retention Ponds:

ID#	Location
309.	245 Whitehead Road Basin
323.	AMC Hamilton 24
346.	Jeremy Place Residential Basin (West)
347.	Jeremy Place Residential Basin (North
357.	Ryan Homes as Hamilton Chase Residential Basin
362.	Rose Everett Court Residential Basin
365.	Colgate/Palmolive Basin
366. & 367.	R&D Offices Basins
390.	Twin Ponds Boulevard Basin
394.	Walmart Basin
412.	Sparrow Drive Residential Basin
420.	Apartment Clubhouse Basin

Not Accessible Basins:

ID#	Location
308.	George Dapper Bus Inc. Basin
311.	Trane Building Basin
312.	Ingersoll Rand Building Basin
325.	Medical Indicators Inc. Basins
335.	Residential Basin
354.	Connor Court Residential Basin
363.	Klockner Road Woods Basin
381.	Duck Island Terminal Basin
397.	Creamery Road Residential Basin
416.	AT&T and Verizon Buildings Basin
423. & 424.	Yardville Solar Farm Basins
427.	Faith Baptist Church Basin

Maintained by New Jersey Department of Transportation:

ID#	Location
431.	5600 South Broad Steet
432.	4641 Crosswicks Hamilton Square Road
433.	4745 Crosswicks Hamilton Square Road
434.	4511 Crosswicks Hamilton Square Road
435.	130 Uncle Pete's Road
436.	75 Merrick Road
437.	200 Uncle Pete's Road
438.	89 Merrick Road
439.	210 Merrick Road

2014
Hamilton Township
Stormwater Basin Assessment