





Student interns inspecting Tar Heel Road East detention basin

Hamilton Township (Mercer County) Stormwater Basin Assessment Summary Past Priority Addendum (Year 5B)

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

November 27, 2019

Acknowledgements

The Hamilton Township (Mercer County) Stormwater Basin Assessment Summary (Year 5) 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

During the summer of 2019, the Rutgers Cooperative Extension (RCE) Water Resources Program continued the assessment of Hamilton Township's stormwater management basins with a goal to reassess the basins owned by the township and reassess the basins that were determined to be high priority for addressing problems in the previous reports. This report is split into two volumes to provide Hamilton Township with a document that only includes basins owned by the township and maintain clarity between the two sets of basins. This volume includes reassessments of all the basins that were deemed high priority in previous reports and are not owned by Hamilton Township.

These assessments are needed to determine the overall state of existing stormwater infrastructure and to identify structural and maintenance problems. These regular inspections are also required by the New Jersey Department of Environmental Protection (NJDEP). Maintenance and inspection records must be submitted by the township for municipally owned basins, and the municipality must also submit evidence that privately owned basins are conducting regular maintenance and inspections as well. The goal of this volume is to show Hamilton's effort to follow up on previous assessments to ensure problems identified have been address by owners of the high priority basins, those that either had damaged outlet structures, standing water, or other major issues that needed to be addressed. Basins designated as priority in this report should be addressed by requesting that owners of the basins conducted the recommended maintenance.

A web tool built through the Epicollect App was used for identifying and recording key issues occurring within the existing stormwater basins. Year 5 efforts focused on using the same criteria as used in previous years to identify key structural integrity issues, maintenance deficiencies, and overall functionality of the reassessed basins within the township.

During August 2019, staff and students conducted assessments of 99 basins throughout Hamilton Township (Figure 1). Some basins with inadequate data were revisited in the fall of 2019. Of these basins, 49 were municipally owned, and an additional 50 were identified as high priority in previous reports. Those identified as high priority either had damaged outlet structures, standing water, or other major issues that needed to be addressed. Of the 50 basins, one was identified as not being a true basin as it is just an area that is not draining well, but should still be addressed.

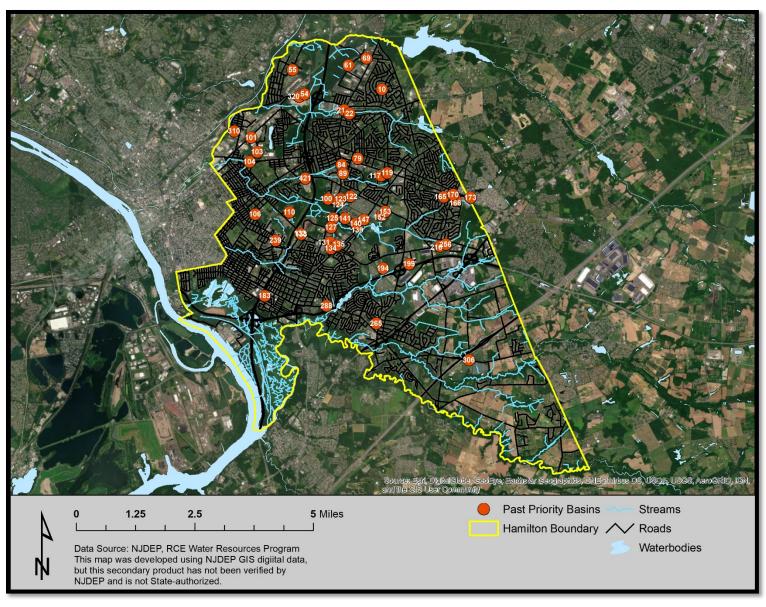


Figure 1: Past priority basins evaluated during 2019

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.

Basins That Require Cleaning or Maintenance

This map (Attachment 2A/2B) 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. This is divided into whether the basin has major ponding which poses a significant problem, ponding in the low flow channel, and other minor ponding identified in inlets, outlets, or other areas.

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 one (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. Refer to the "Hamilton Township Soil Suitability for Stormwater BMPs" report for more precise information regarding soil categorization.

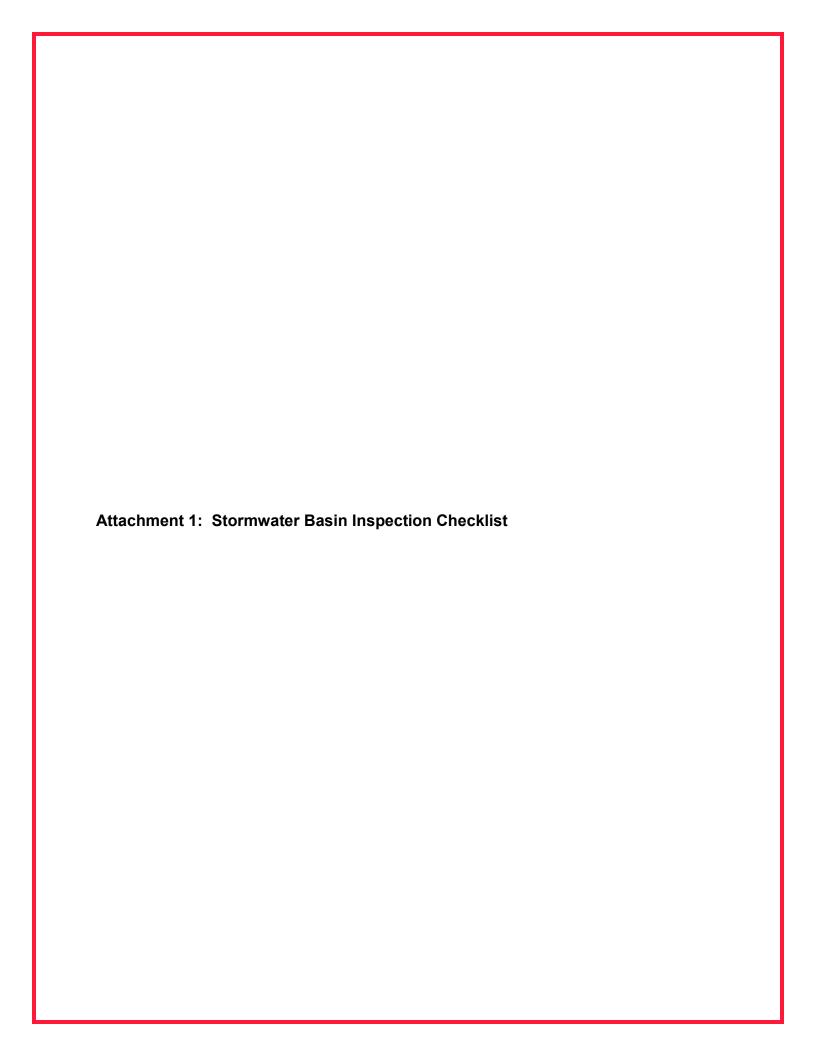
Summary and Conclusions

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. Of the 50 past priority basins assessed, 14 remain medium to high priority sites. This means many of the basins have improved from previous assessments, but some still require attention. Notable repeated observations during the assessment include sedimentation and vegetation restricted low flow channels which leads to standing water. These channels could be cleared, but a long term solution would be to remove these low flow channels and replace them

with stone lined channels or vegetated swales. A similar observation was excessive sediment accumulation near the inlet and outlet structures. These area should be regularly cleared to ensure the low flow orifice and pipes are not clogged or filled with sediment. Another common observation was outlets and inlets being covered in vegetation. These areas need to be cleared of vegetation to maintain function and accessibility to the key parts of the basin infrastructure. 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 opportunites 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 retrofit opportunities include reduced mowing, establishing meadows, removing low flow channels, naturalizing, and retrofitting into infiltration basins. These opportunities are highlighted in the assessment summaries in Attachment 3.





Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist



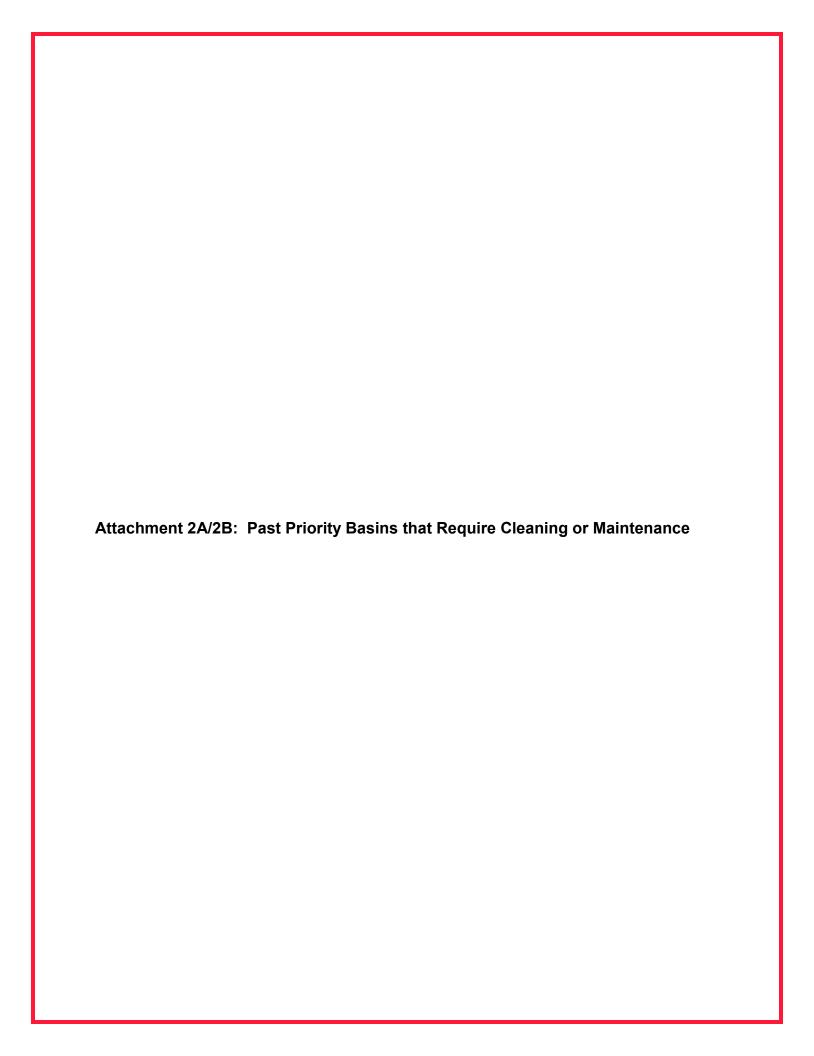
GENERAL INFORMATION				Site ID:
Name(s) person inspecting the basin:				Date:
Location Address and Cross Streets:			Watershed:	
Name of Creek, Stream, or area into which the basin	discharge	es:	Property Owner / Tax Parcel BI	ock & Lot:
Contact information:				
STRUCTURAL COMPONENTS				
Basin description, size and depth:			Is the basin accessible to maint	tain? 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?				

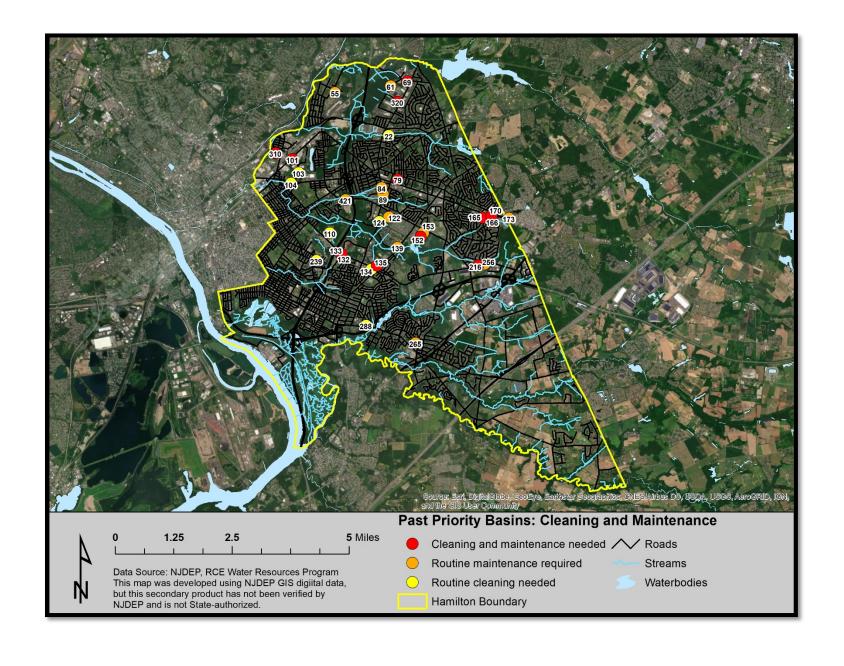


Hamilton Township Stormwater Infrastructure Assessment Program Stormwater Basin Inspection Checklist

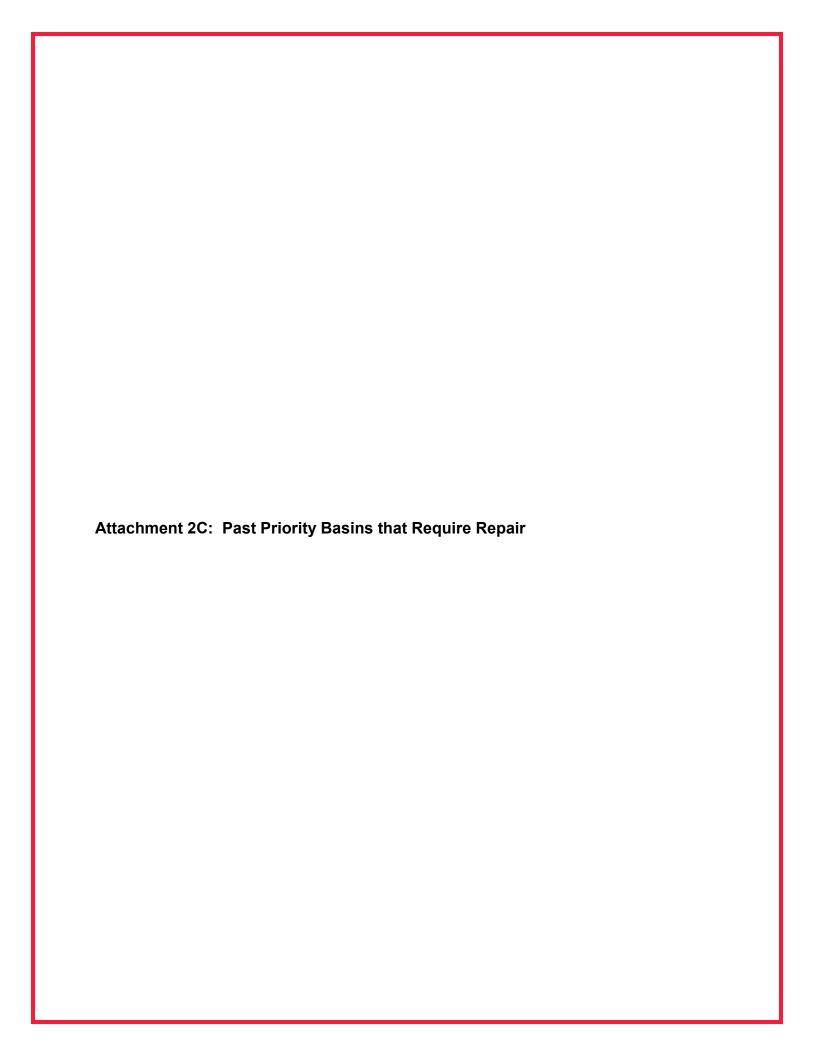


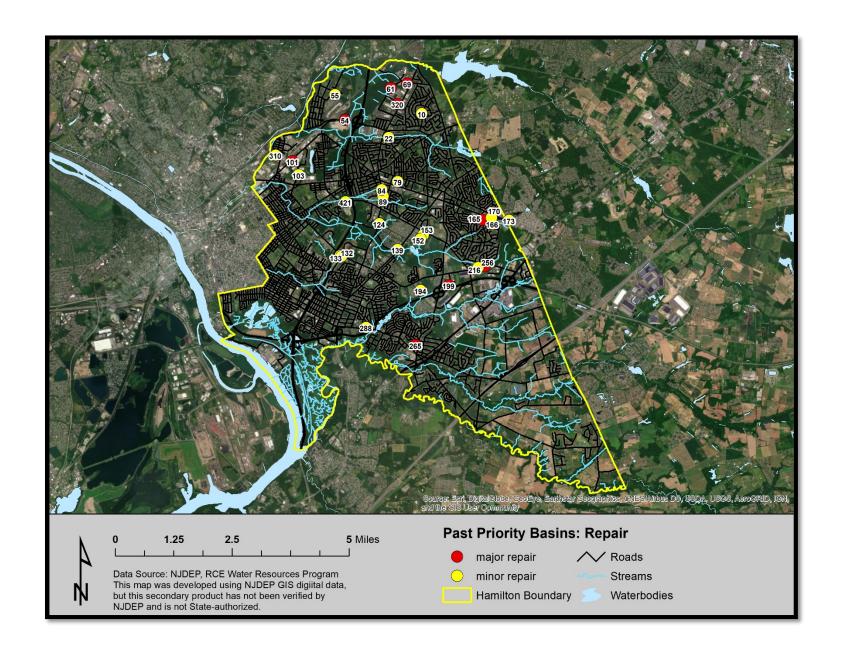
OUTLET	YES	NO	NOTES/REMARKS
1) Breakage, damage, corrosion or rusting to outlet			
pipe or conveyance?			
2) Signs of erosion, scour or gullies; rock or			
vegetation above or around the outlet structure?			
3) Debris or sediment accumulation in or around			
the outlet pipe (i.e. debris or sediment)?	1		
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 OVERFLO	W SPIL	LWAY	
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		<u> </u>	
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 O	UALITY	' IMPR	OVEMENTS
1) Reduce mowing			
2) Plant buffers			
3) Establish meadows			
4) Retrofit with infiltration structures or other			
strategies			
5) Other			
SUMMARY AND NOTES: Identify uni	que cha	aracter	istics and/or opportunities



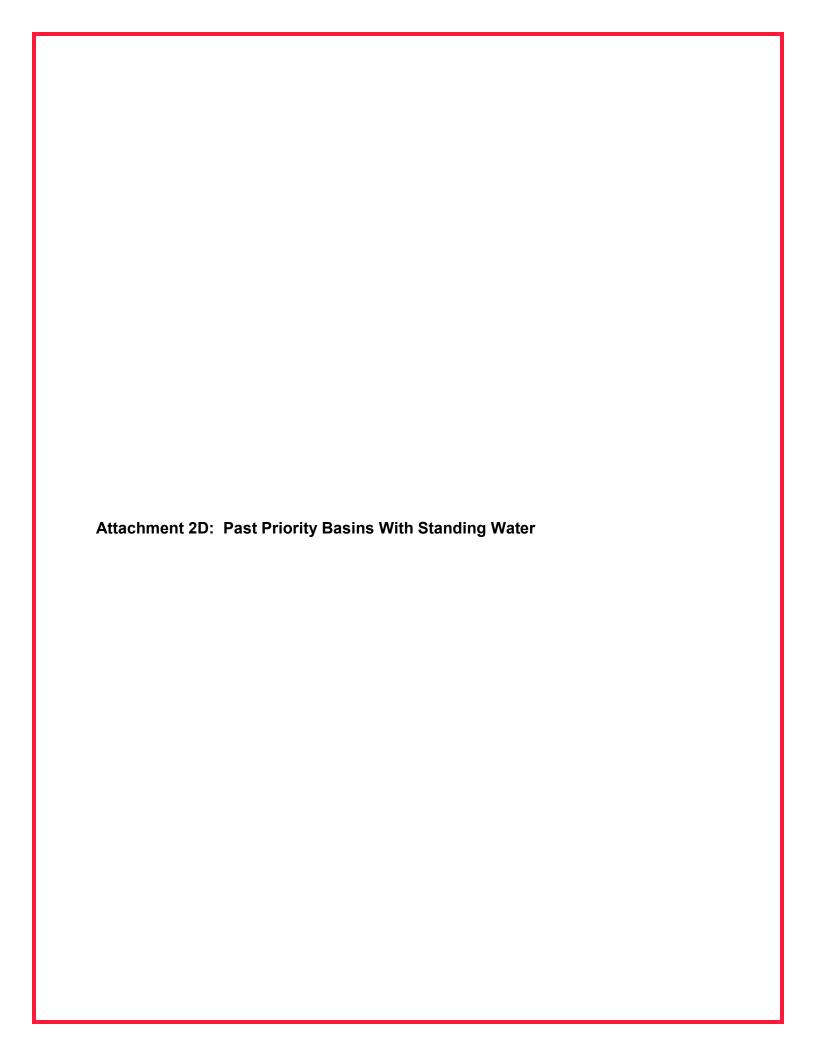


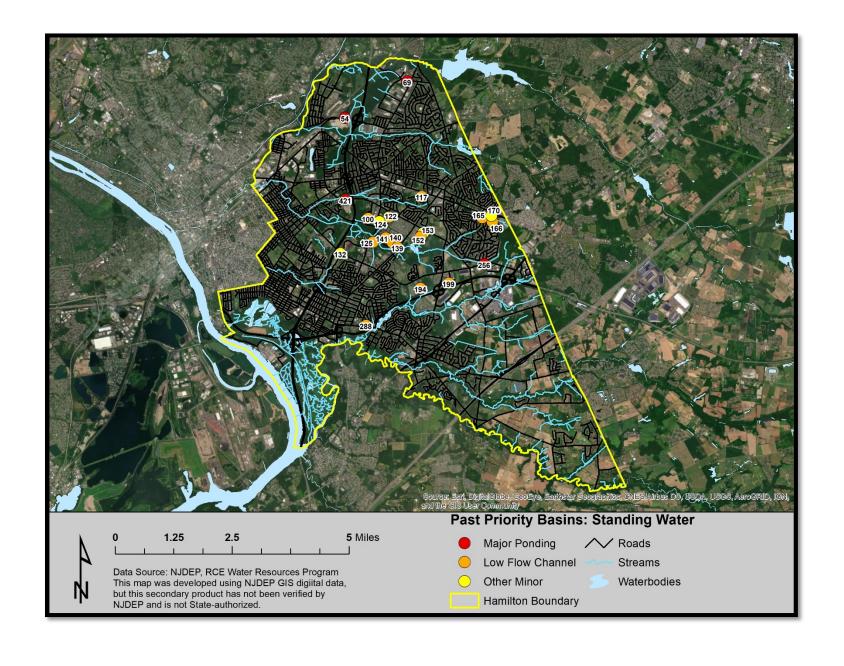
Basin ID	Basin Type	Condition	Overall Priority
69	Infiltration	Cleaning and maintenance needed	4
79	Detention	Cleaning and maintenance needed	2
101	Detention	Cleaning and maintenance needed	3
132	Detention	Cleaning and maintenance needed	1
133	Detention	Cleaning and maintenance needed	1
135	Detention	Cleaning and maintenance needed	1
152	Detention	Cleaning and maintenance needed	2
165	Detention	Cleaning and maintenance needed	4
166	Detention	Cleaning and maintenance needed	3
170	Detention	Cleaning and maintenance needed	3
216	Detention	Cleaning and maintenance needed	2
310	Detention	Cleaning and maintenance needed	3
320	Detention	Cleaning and maintenance needed	3
55	Detention	Routine maintenance required	1
61	Detention	Routine maintenance required	3
84	Infiltration	Routine maintenance required	2
89	Detention	Routine maintenance required	1
122	Detention	Routine maintenance required	2
139	Detention	Routine maintenance required	2
153	Detention	Routine maintenance required	2
173	Detention	Routine maintenance required	3
256	Detention	Routine maintenance required	4
265	Detention	Routine maintenance required	2
421	Other	Routine maintenance required	2
22	Detention	Routine cleaning needed	2
103	Detention	Routine cleaning needed	2
104	Detention	Routine cleaning needed	1
110	Infiltration	Routine cleaning needed	1
124	Detention	Routine cleaning needed	3
134	Detention	Routine cleaning needed	2
239	Detention	Routine cleaning needed	1
288	Detention	Routine cleaning needed	3



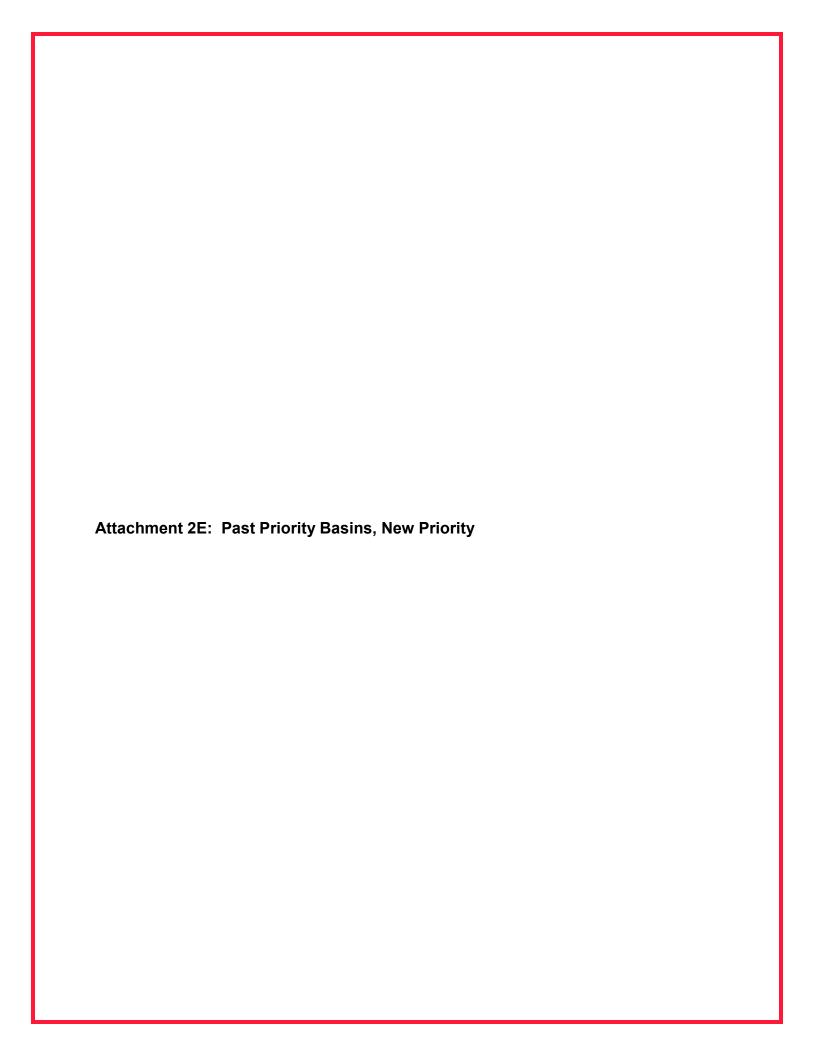


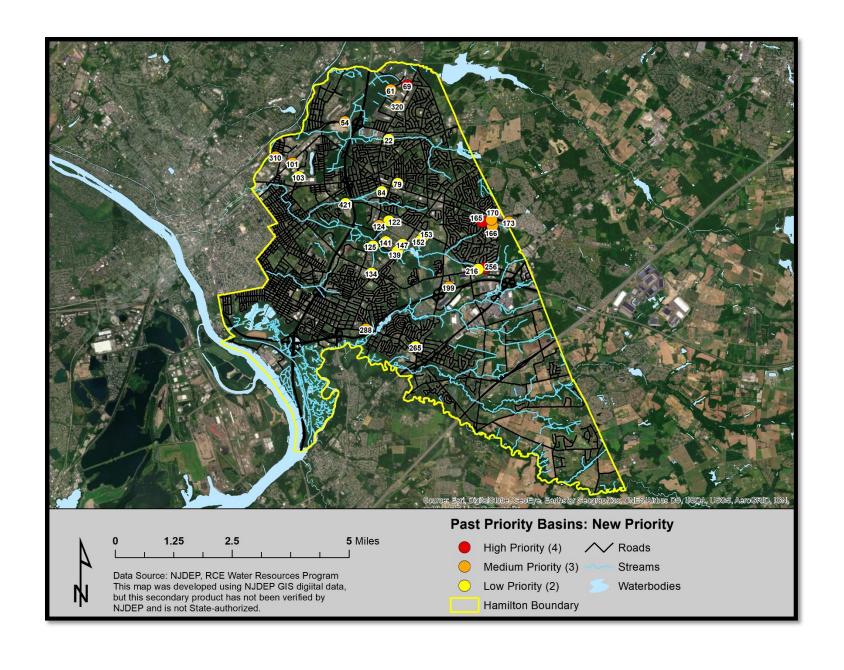
Basin ID	Basin Type	Repair	Overall Priority
54	Detention	major repair	3
61	Detention	major repair	3
69	Infiltration	major repair	4
101	Detention	major repair	3
165	Detention	major repair	4
199	Detention	major repair	3
256	Detention	major repair	4
265	Detention	major repair	2
320	Detention	major repair	3
10	Detention	minor repair	1
22	Detention	minor repair	2
55	Detention	minor repair	1
79	Detention	minor repair	2
84	Infiltration	minor repair	2
89	Detention	minor repair	1
103	Detention	minor repair	2
124	Detention	minor repair	3
132	Detention	minor repair	1
133	Detention	minor repair	1
139	Detention	minor repair	2
152	Detention	minor repair	2
153	Detention	minor repair	2
166	Detention	minor repair	3
170	Detention	minor repair	3
173	Detention	minor repair	3
194	Detention	minor repair	1
216	Detention	minor repair	2
288	Detention	minor repair	3
310	Detention	minor repair	3
421	Other	minor repair	2



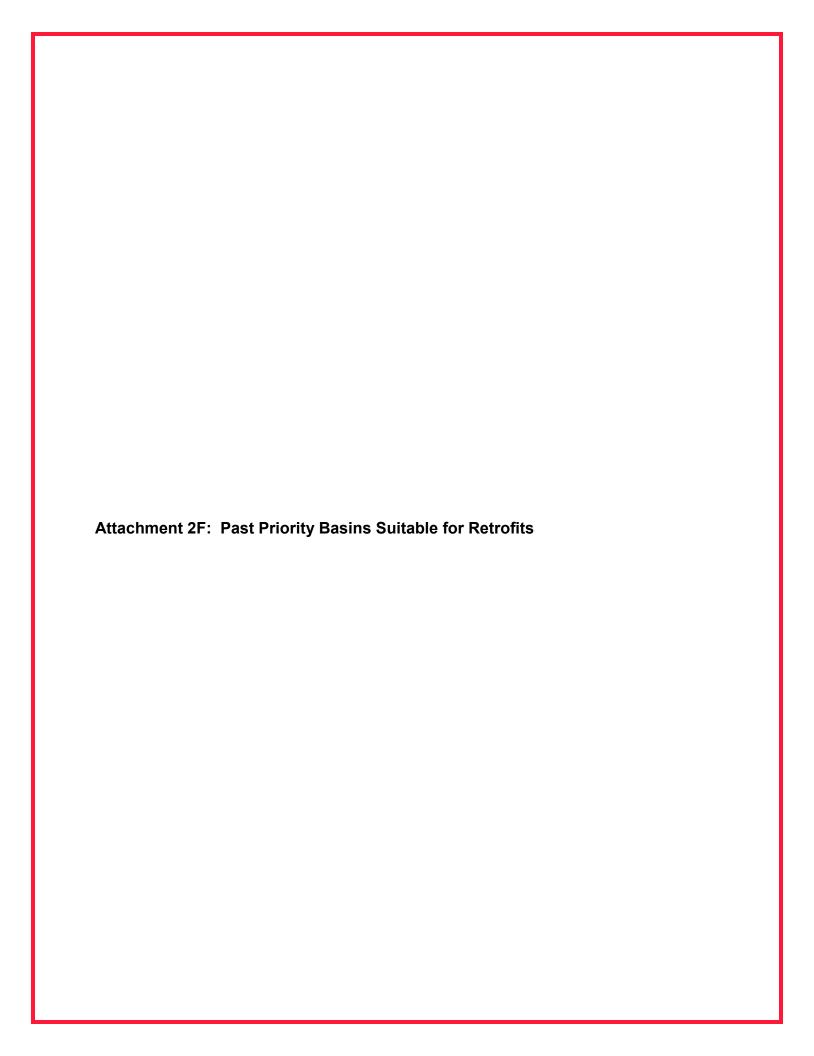


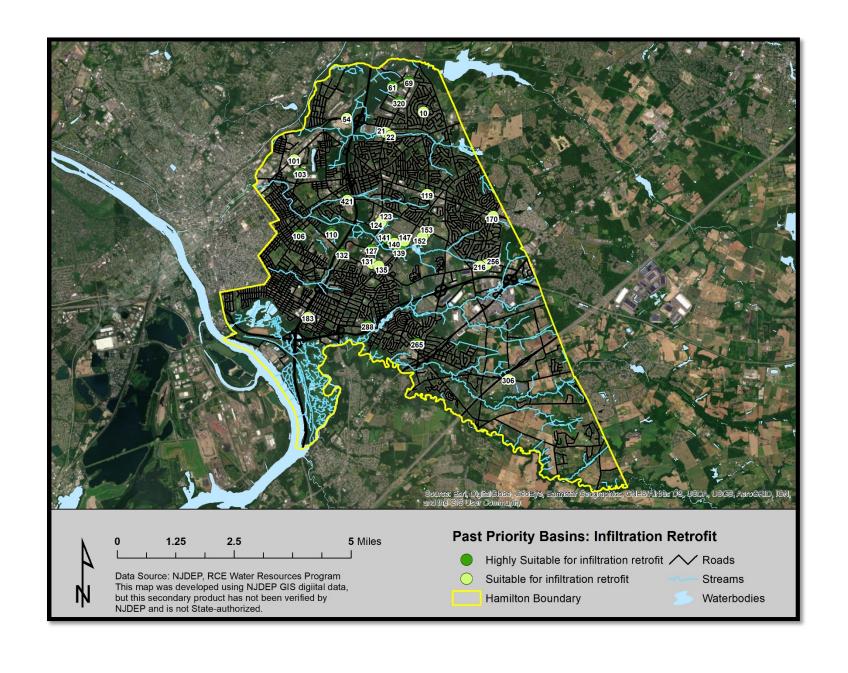
Basin ID	Basin Type	Standing Water	Overall Priority
54	Detention	Major Ponding	3
69	Infiltration	Major Ponding	4
256	Detention	Major Ponding	4
421	Other	Major Ponding	2
100	Detention	Low Flow Channel	1
117	Detention	Low Flow Channel	1
122	Detention	Low Flow Channel	2
125	Detention	Low Flow Channel	2
139	Detention	Low Flow Channel	2
140	Detention	Low Flow Channel	1
141	Detention	Low Flow Channel	2
152	Detention	Low Flow Channel	2
165	Detention	Low Flow Channel	4
166	Detention	Low Flow Channel	3
194	Detention	Low Flow Channel	1
199	Detention	Low Flow Channel	3
288	Detention	Low Flow Channel	3
124	Detention	Other Minor	3
132	Detention	Other Minor	1
153	Detention	Other Minor	2
170	Detention	Other Minor	3



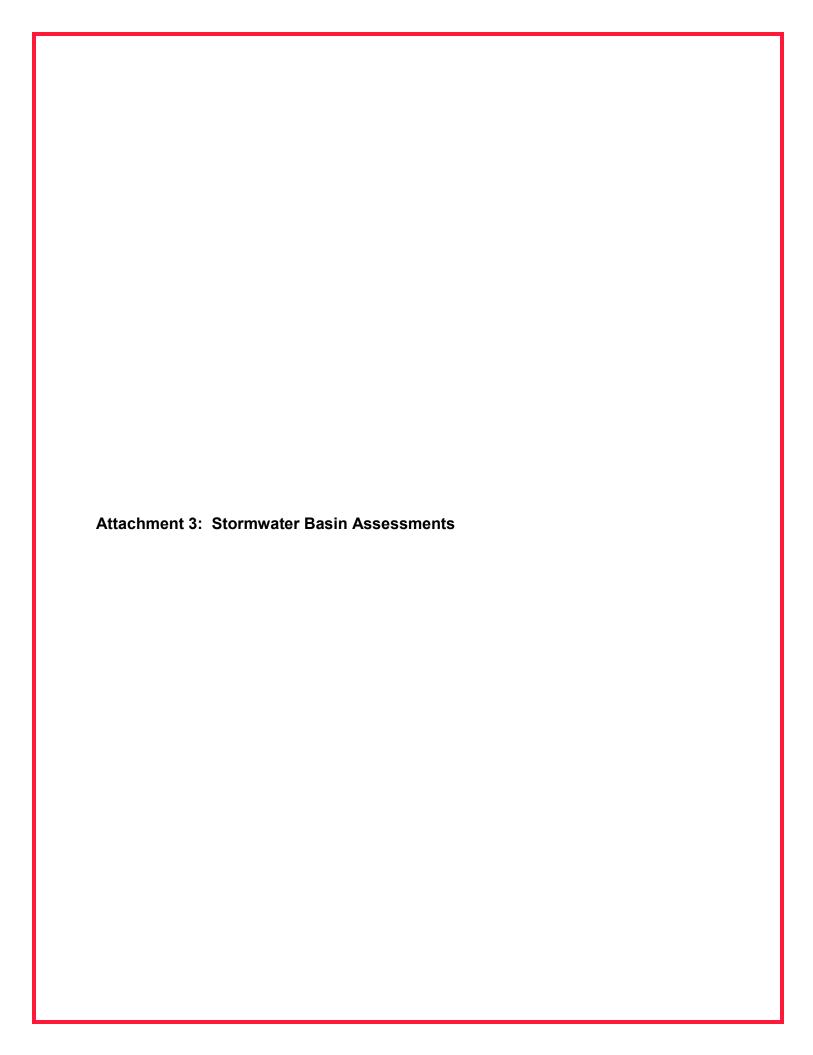


Basin ID	Basin Type	Overall Priority
69	Infiltration	4
165	Detention	4
256	Detention	4
54	Detention	3
61	Detention	3
101	Detention	3
124	Detention	3
166	Detention	3
170	Detention	3
173	Detention	3
199	Detention	3
288	Detention	3
310	Detention	3
320	Detention	3
22	Detention	2
79	Detention	2
84	Infiltration	2
103	Detention	2
122	Detention	2
125	Detention	2 2
134	Detention	
139	Detention	2
141	Detention	2
147	Detention	2
152	Detention	2
153	Detention	2
216	Detention	2
265	Detention	2
421	Other	2





Basin ID	Basin Type	Retrofit Suitability	Overall Priority
61	Detention	Highly Suitable for infiltration retrofit	3
69	Infiltration	Highly Suitable for infiltration retrofit	4
103	Detention	Highly Suitable for infiltration retrofit	2
106	Detention	Highly Suitable for infiltration retrofit	1
110	Infiltration	Highly Suitable for infiltration retrofit	1
127	Detention	Highly Suitable for infiltration retrofit	1
132	Detention	Highly Suitable for infiltration retrofit	1
139	Detention	Highly Suitable for infiltration retrofit	2
141	Detention	Highly Suitable for infiltration retrofit	2
265	Detention	Highly Suitable for infiltration retrofit	2
288	Detention	Highly Suitable for infiltration retrofit	3
320	Detention	Highly Suitable for infiltration retrofit	3
10	Detention	Suitable for infiltration retrofit	1
21	Detention	Suitable for infiltration retrofit	1
22	Detention	Suitable for infiltration retrofit	2
54	Detention	Suitable for infiltration retrofit	3
101	Detention	Suitable for infiltration retrofit	3
119	Infiltration	Suitable for infiltration retrofit	1
123	Detention	Suitable for infiltration retrofit	1
124	Detention	Suitable for infiltration retrofit	3
131	Detention	Suitable for infiltration retrofit	1
135	Detention	Suitable for infiltration retrofit	1
140	Detention	Suitable for infiltration retrofit	1
147	Detention	Suitable for infiltration retrofit	2
152	Detention	Suitable for infiltration retrofit	2
153	Detention	Suitable for infiltration retrofit	2
170	Detention	Suitable for infiltration retrofit	3
183	Detention	Suitable for infiltration retrofit	1
216	Detention	Suitable for infiltration retrofit	2
256	Detention	Suitable for infiltration retrofit	4
306	Infiltration	Suitable for infiltration retrofit	1
421	Other	Suitable for infiltration retrofit	2



ID# Location	ID# Location
10. 634 Paxson Ave	131. 1702 Kruser Rd
21. 3161 Quakerbridge Rd	132. 1305 Kruser Rd
22. 3111 Quakerbridge Rd	133. 1305 Kruser Rd
40. 442 Wegner Ave (nonexistent)	134. 1763 Kruser Rd
54. 700 Sloan Ave	135. 1134 Whitehorse Hamilton Square Rd
55. American Metro Blvd	139. 1580 Whitehorse Hamilton Square Rd
57. 1 Electronics Dr	140. Lehavre Ct
58. 1 Electronics Dr	141. Cheverny Ct
61. 21 Thomas J Rhodes Industrial Dr	147.1746 Whitehorse Hamilton Square Rd
69. 133 Youngs Rd	152. 63 Hamilton Health Pl
79. 630 New Jersey 33	153. Hamilton Health PI & Klockner Rd
84. 2333 Whitehorse Mercerville Rd	165. Limewood Dr and RT-33
89. 2239 Whitehorse Mercerville Rd	166. Innocenzi Dr and Great Oak Rd
100. 18-26 Lamont Ave	170. 4265 RT-33
101. E State St and Sculptors Way	173. 1027 Washington Blvd
103. 130 Sculptors Way	183. 61 Meredith Rd
104. 1475 Nottingham Way	194. 314 Mowat Cr
106. Leonard Ave and Newkirk Ave	199. 160 Commerce Way
110. Nottinghill Ln	216. 2631 Kruser Rd
117. 949 RT-33	239. 154 Turnbull Ave
119. 989 RT-33	256. 2631 Kuser Rd
122. 1991 Klockner Rd	265. 211 Yardville Hamilton Square Rd
123. 1715 Whitehorse Mercerville Rd	306. 1040 Yardville Allentown Rd
124. 1673 Whitehorse Mercerville Rd	310. 5 1st Avenue
125. 1407 Whitehorse Mercerville Rd	320. 720 Sloan Avenue
127. 1323 Whitehorse Mercerville Rd	421. 1325 Klockner Road







2019 Hamilton Township Stormwater Basin Assessment Past Priority Basins

10. University Heights Elementary School

Address:

634 Paxson Ave

Hamilton Township, NJ 08619







Hamilton Township Stormwater Basin Assessment 10. University Heights Elementary School



Sediment accumulation in the inlet



Outlet structure

Address:

634 Paxson Ave









Looking north along basin bottom

- Sediment accumulation in front of inlet restricting flow of water
- Outlet orifice is clogged with sediment and debris
- Outlet has signs of breakage and woody vegetation growth

10. University Heights Elementary School

Address:





634 Paxson Ave Hamilton Township, NJ 08619



- Large detention basin with a single inlet and outlet near the street
- Clear debris near the inlet and outlet
- •Basin could be naturalized as an outdoor classroom space

21. ShopRite Liquors of Hamilton Basin

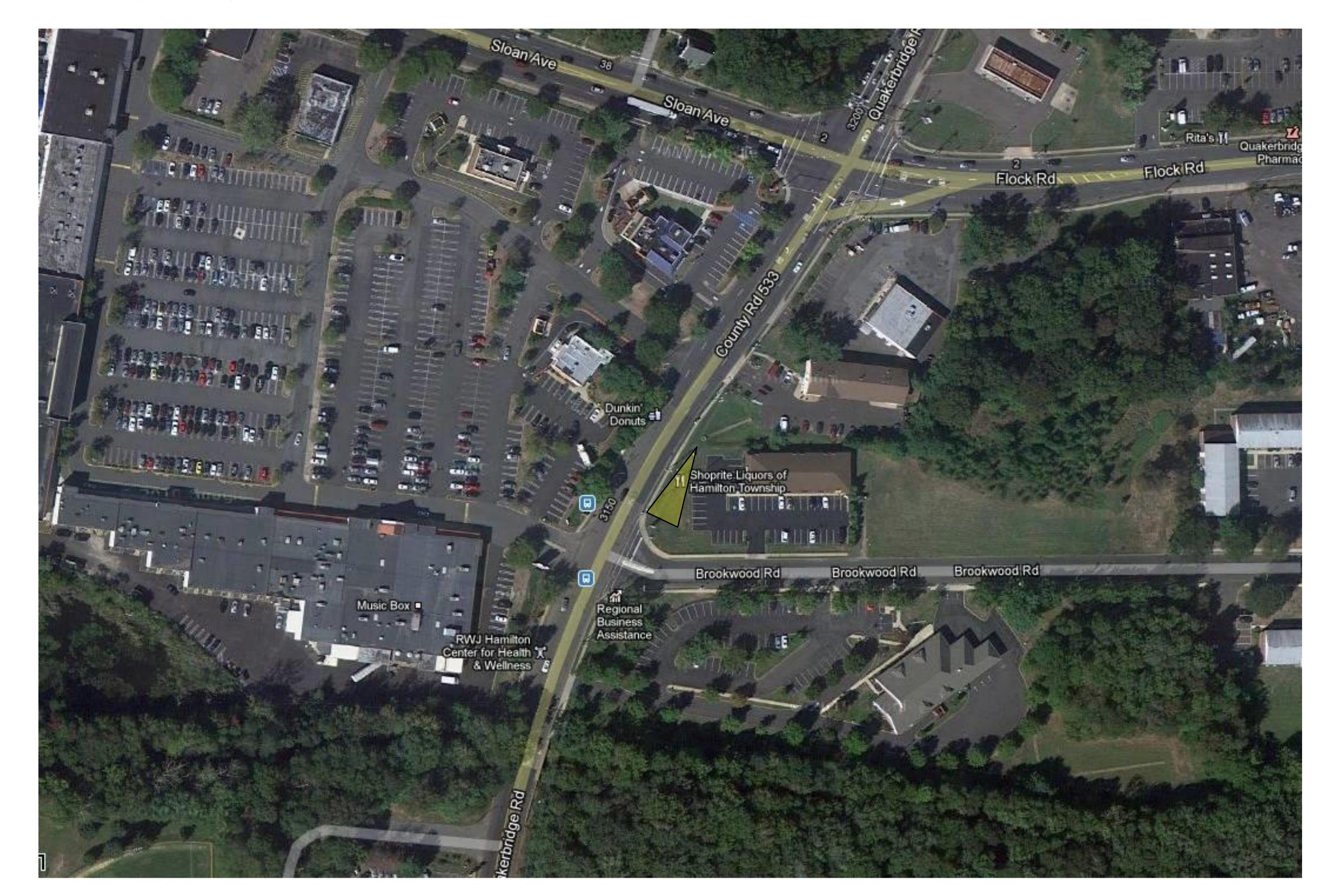
Address:

3161 Quakerbridge Road Mercerville, NJ 08619









21. ShopRite Liquors of Hamilton Basin

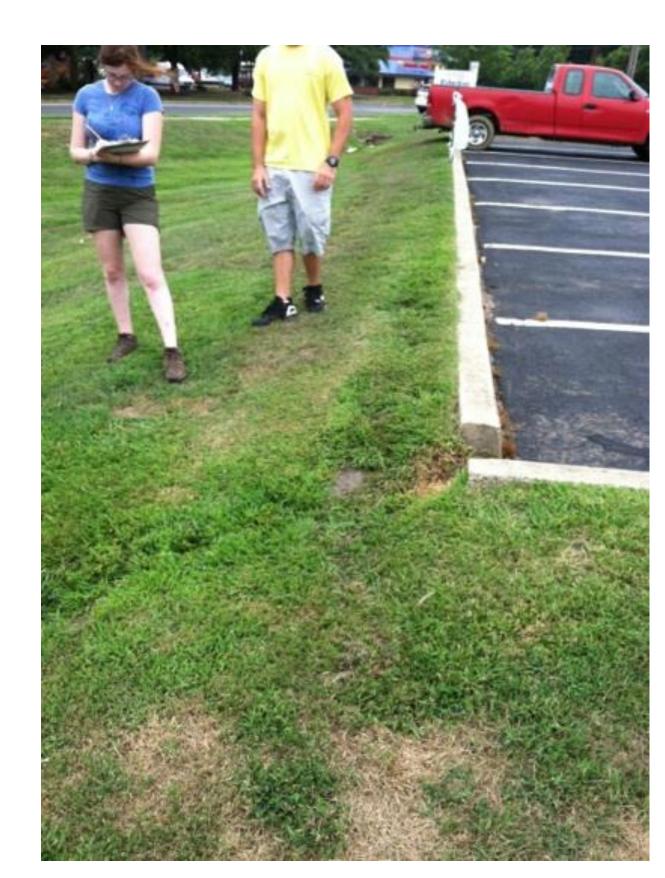
Address:

3161 Quakerbridge Road Mercerville, NJ 08619

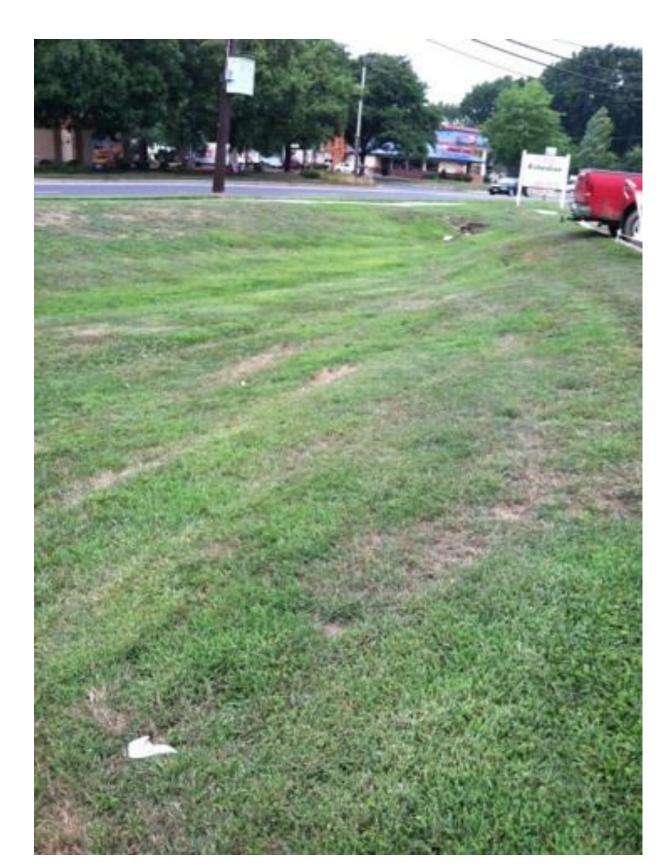








Erosion at inlet



Basin bottom looking north



Damaged outlet

- Curb cuts (inlets) are damaged with erosion evident
- Outlet has structural damage and erosion



Damaged inlet

Hamilton Township
Stormwater Basin Assessment
21. ShopRite Liquors of Hamilton Basin

Address:
3161 Quakerbridge Road
Mercerville, NJ 08619









- Large grass basin with outflow
- •Grate added around outlet structure, but still could use repairs
- Erosion problem from parking lot still present

22. PNC Bank Basin

Address:

3111 Quakerbridge Road Trenton, NJ 08619









22. PNC Bank Basin

Address: 3111 Quakerbridge Road Trenton, NJ 08619

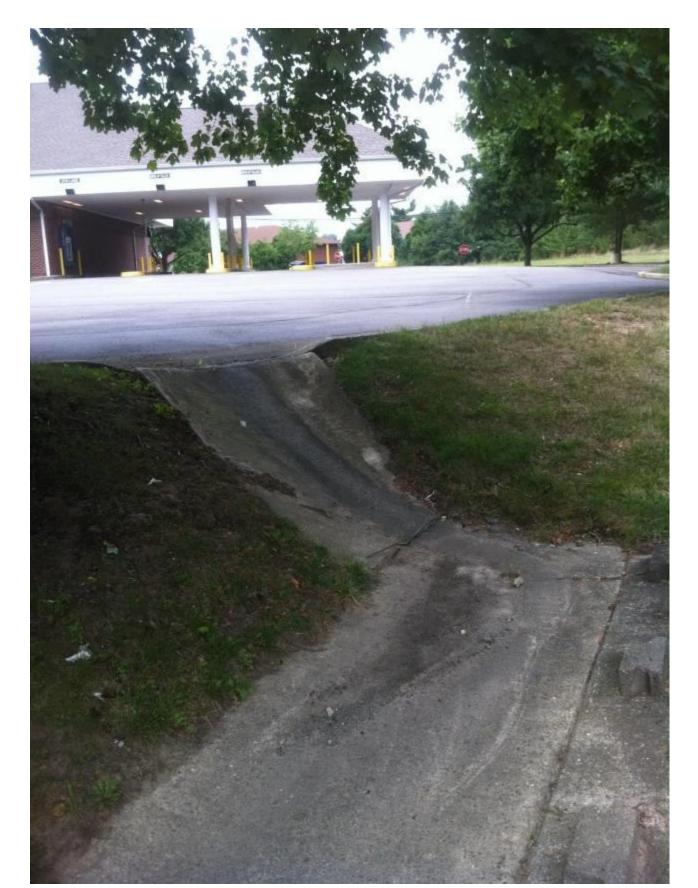








Basin bottom looking east



Curb cut inlet



Sediment in low flow channel



Damaged outlet

- Excess sediment accumulation in low flow channels
- Outlet has structural damage
- Discharges directly to Miry Run

Hamilton Township Stormwater Basin Assessment 22. PNC Bank Basin Address:
3111 Quakerbridge Road
Trenton, NJ 08619









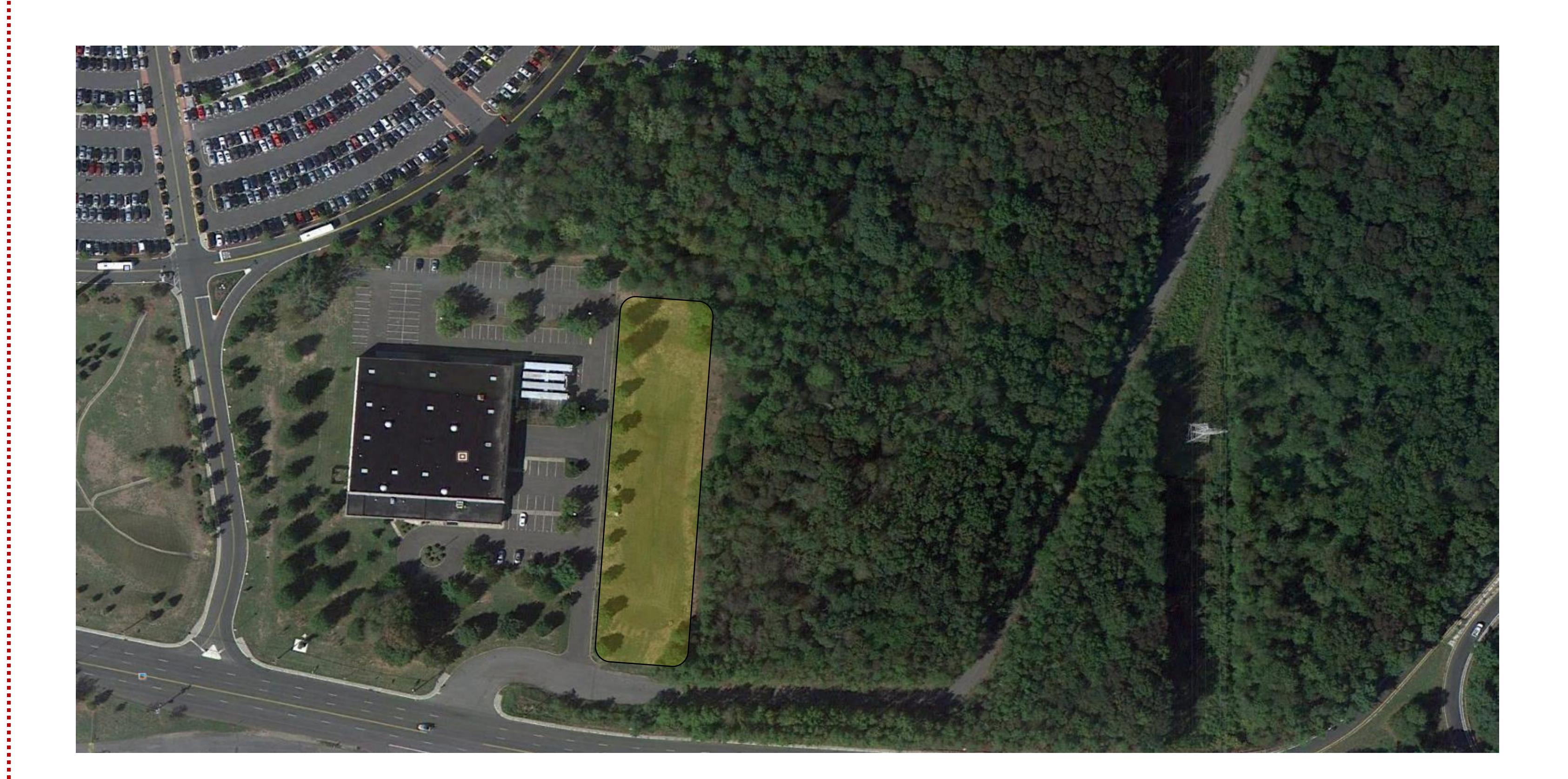
- Basin overall is in good condition
- •Significant sediment buildup in low flow channel with grass growing over, resulting in standing water in low flow channels
- •Potential retrofit by removing low flow channels to promote infiltration or naturalizing into a meadow with reduced mowing

Hamilton Township
Stormwater Basin Assessment
54. Sloan Ave Empty Lot Commercial Basin

Address:
700 Sloan Ave
Hamilton Township, NJ 08619







Hamilton Township Stormwater Basin Assessment 54. Sloan Ave Empty Lot Commercial Basin

Address:





700 Sloan Ave Hamilton Township, NJ 08619



Outlet structure



Inlet – curb cut



Clogged curb cut, ponding



Basin bottom looking north

- Inlets have signs of breakage, signs of erosion and debris/sediment accumulation blocking the flow of water
- Standing water in basin

Hamilton Township
Stormwater Basin Assessment
54. Sloan Ave Empty Lot Commercial Basin

Address:
700 Sloan Ave
Hamilton Township, NJ 08619







- Severe standing water in parking lot, clear curb cut inlet to allow flow of water into the basin
- Establish meadow among grasses

Hamilton Township Stormwater Basin Assessment 55. American Metro Blvd Basin

Address:







Basin Rd and American Metro Blvd Hamilton Township, NJ 08619



Hamilton Township Stormwater Basin Assessment 55. American Metro Blvd Basin

Address:

Basin Rd and American Metro Blvd Hamilton Township, NJ 08619









Basin bottom looking southwest



Inlet



Outlet structure missing grate



Clogged outlet orifice

- Inlets and outlet have excess sediment accumulation obstructing flow
- Standing water in low flow channel and basin bottom
- Outlet has structural damage and missing grate

Hamilton Township Stormwater Basin Assessment 55. American Metro Blvd Basin

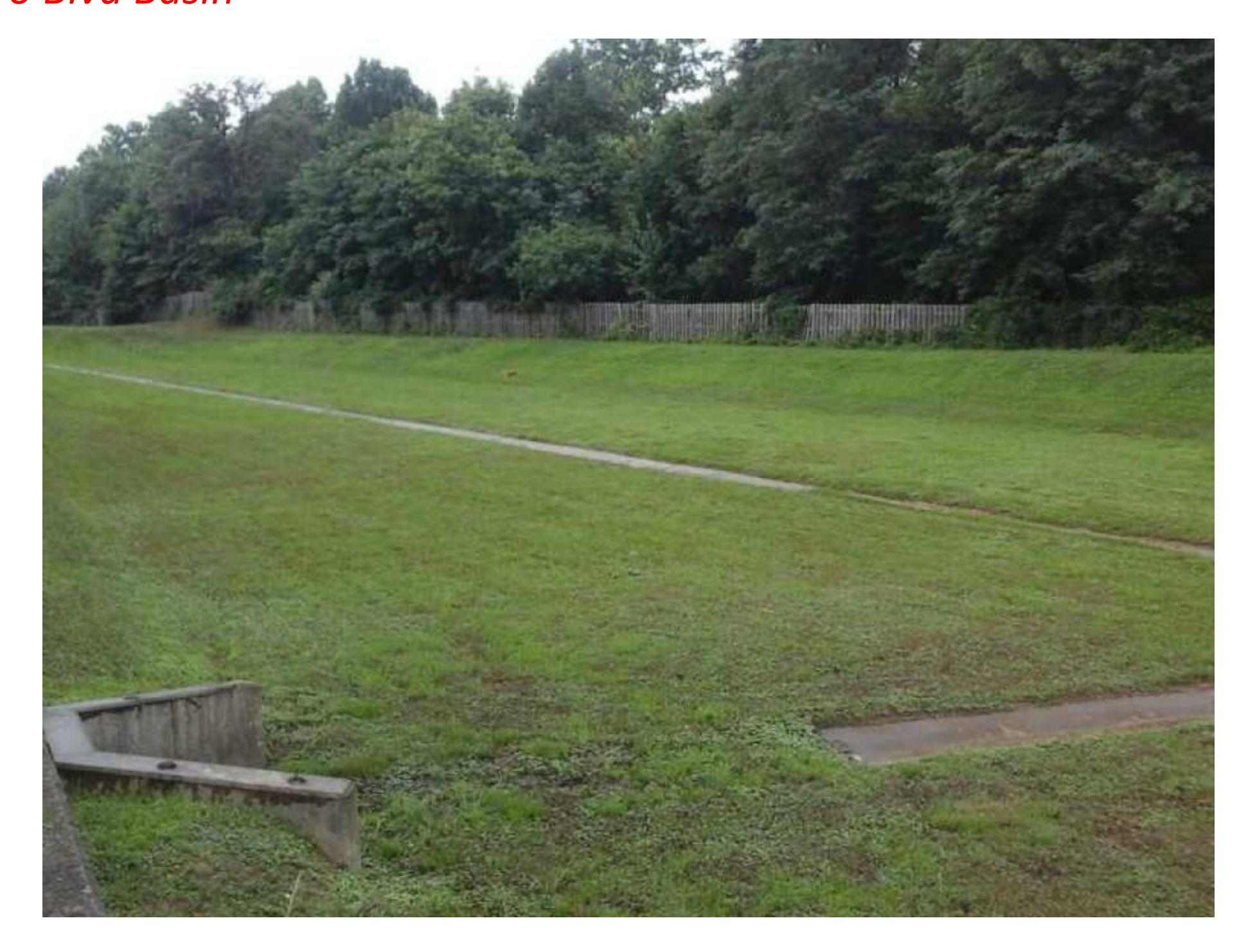
Address:

Basin Rd and American Metro Blvd Hamilton Township, NJ 08619









- Some signs of soil erosion by inlet
- Low flow channels can be removed to promote more infiltration

Hamilton Township
Stormwater Basin Assessment
57 & 58. Electronics Dr Commercial Basins

Address:
Electronics Drive
Hamilton Township, NJ 08619







**Did not assess due to limited accessibility

61. FedEx World Center Commercial Basin

Address:

21 Thomas J Rhodes Industrial Drive Hamilton Township, NJ 08619







61. FedEx World Center Commercial Basin

Address:

21 Thomas J Rhodes Industrial Drive Hamilton Township, NJ 08619









Inlet and rip rap protection



Clogged outlet structure



Inlet



Ponding in front of outlet

- Outlet has structural damage, significant debris/sediment accumulation obstructing flow
- Woody vegetation growth in and around basin
- Excessive ponding in front of outlet in entire south end of basin
- Significant mosquito population

61. FedEx World Center Commercial Basin

Address:

21 Thomas J Rhodes Industrial Drive Hamilton Township, NJ 08619









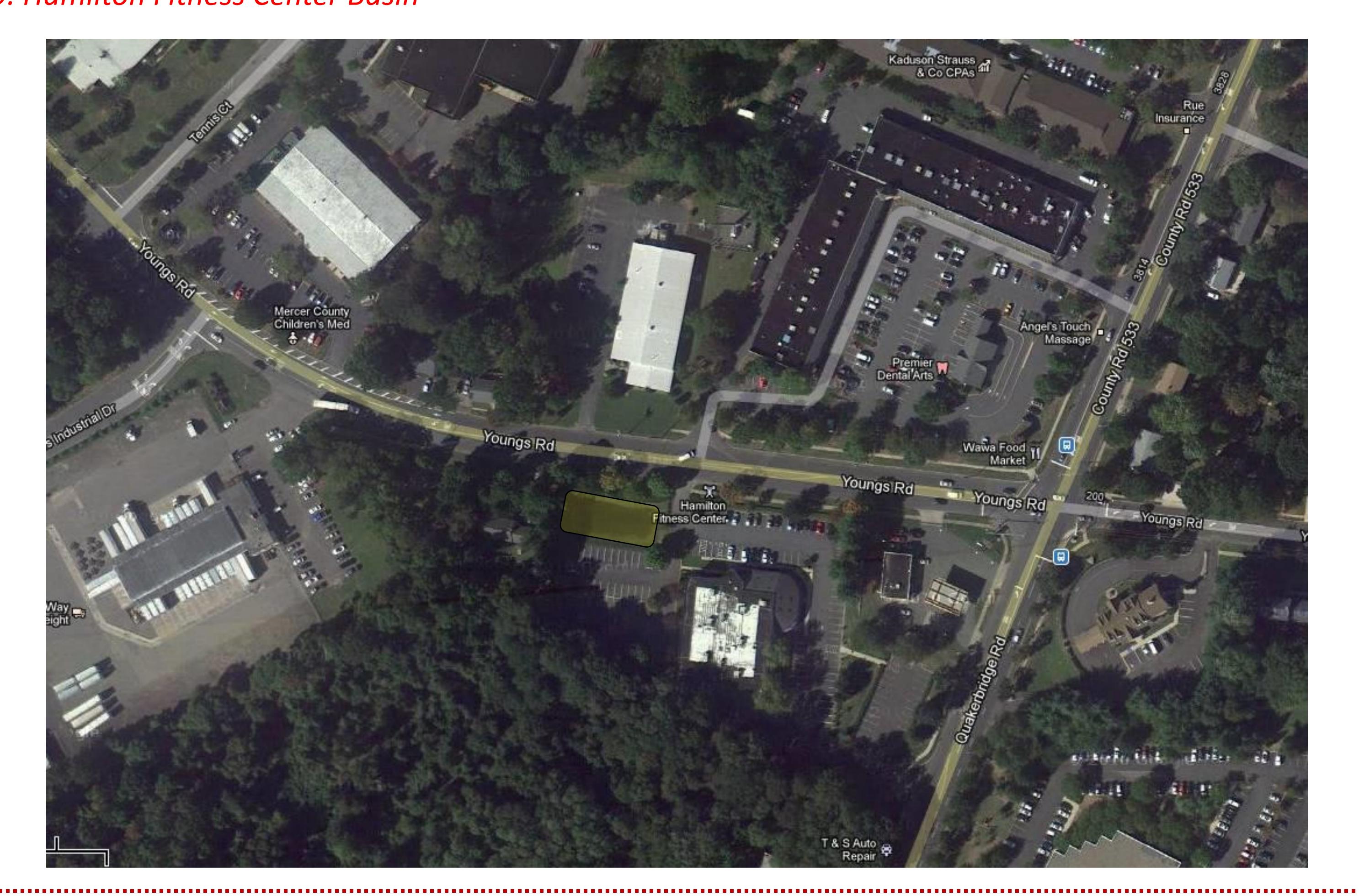
- Portion of basin near outlet appears to have significant sediment accumulation as low flow is buried and covered with sediment
- Basin partly naturalized with primarily herbaceous and some woody vegetation
- •Remove low flow channel to promote infiltration in upper portions of basin

Hamilton Township
Stormwater Basin Assessment
69. Hamilton Fitness Center Basin

Address:
133 Youngs Road
Hamilton Township, NJ 08619







Hamilton Township Stormwater Basin Assessment 69. Hamilton Fitness Center Basin

Address: 133 Youngs Road Hamilton Township, NJ 08619









Inlet with sediment accumulation



Outlet structure



Clogged inlet



Ponding in basin bottom

- Standing water in basin
- Excess sediment accumulation in front of inlets obstructing flow of water
- Debris and pine needles clogging outlet orifice

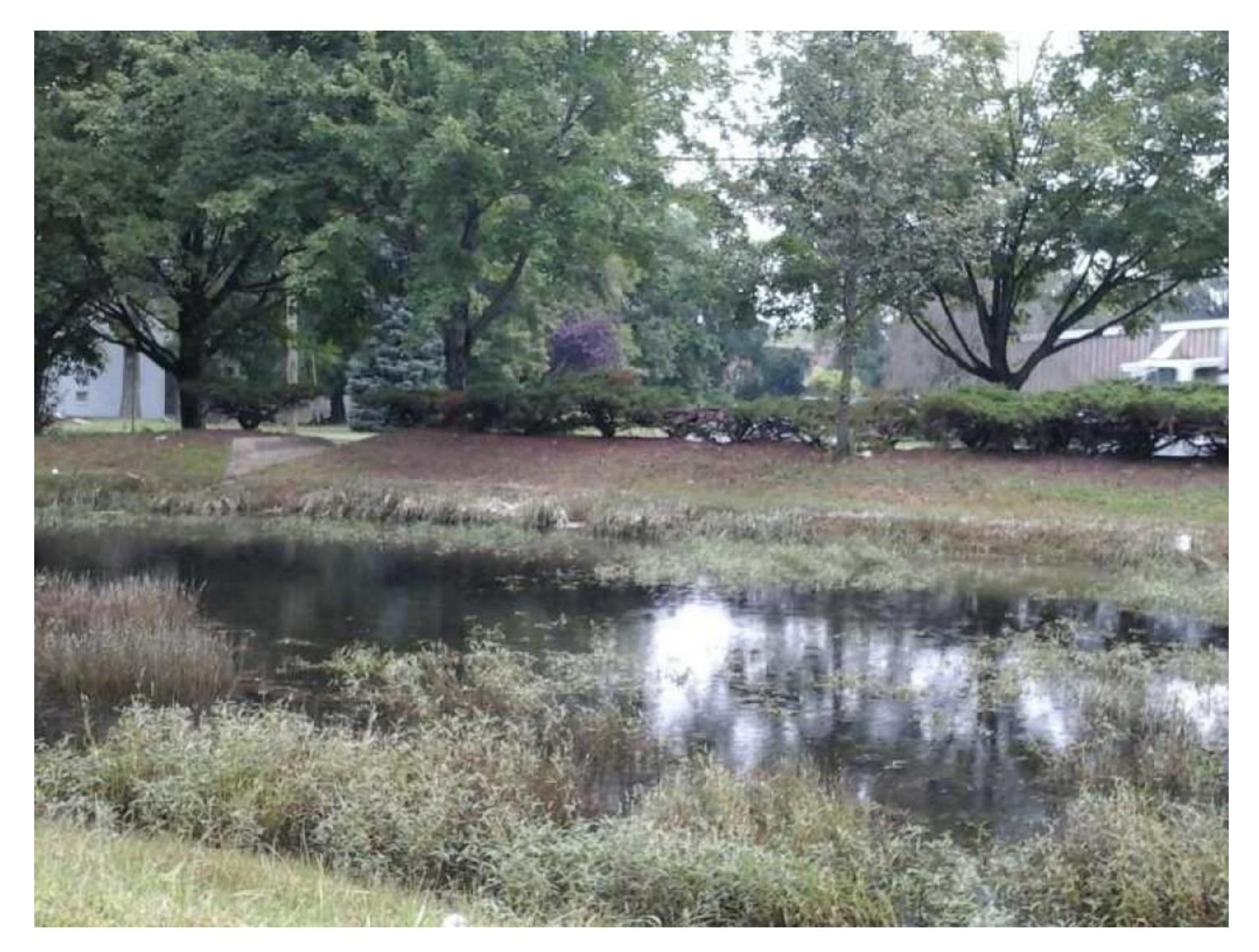
69. Hamilton Fitness Center Basin

Address: 133 Youngs Road





133 Youngs Road
Hamilton Township, NJ 08619



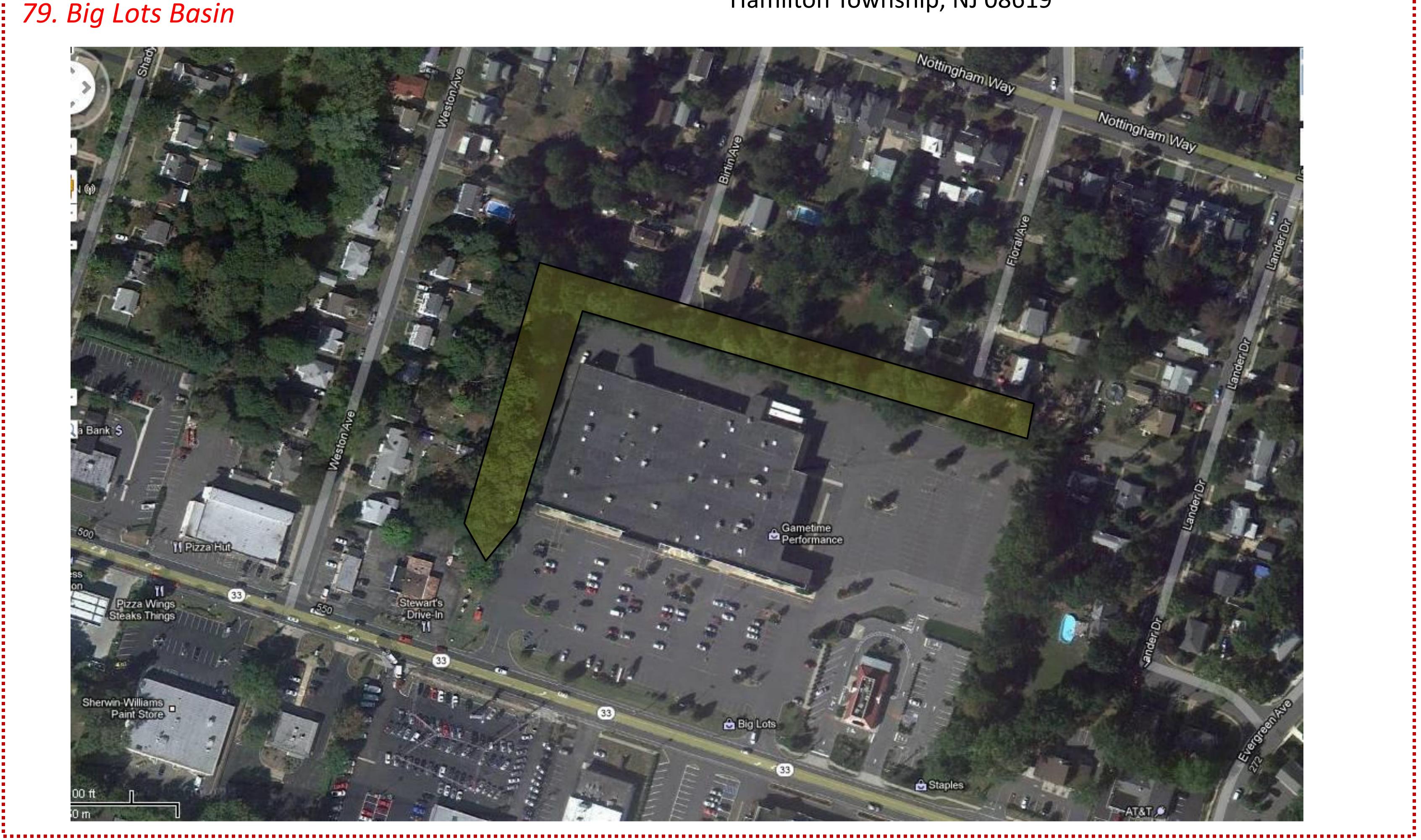
- Large ponding about a foot deep likely formed due to poor infiltration and an outlet set to high.
- •Investigation should be done to determine what is causing this ponding that has been seen in both years this basin was assessed

Hamilton Township
Stormwater Basin Assessment
70 Pig Lote Pagin

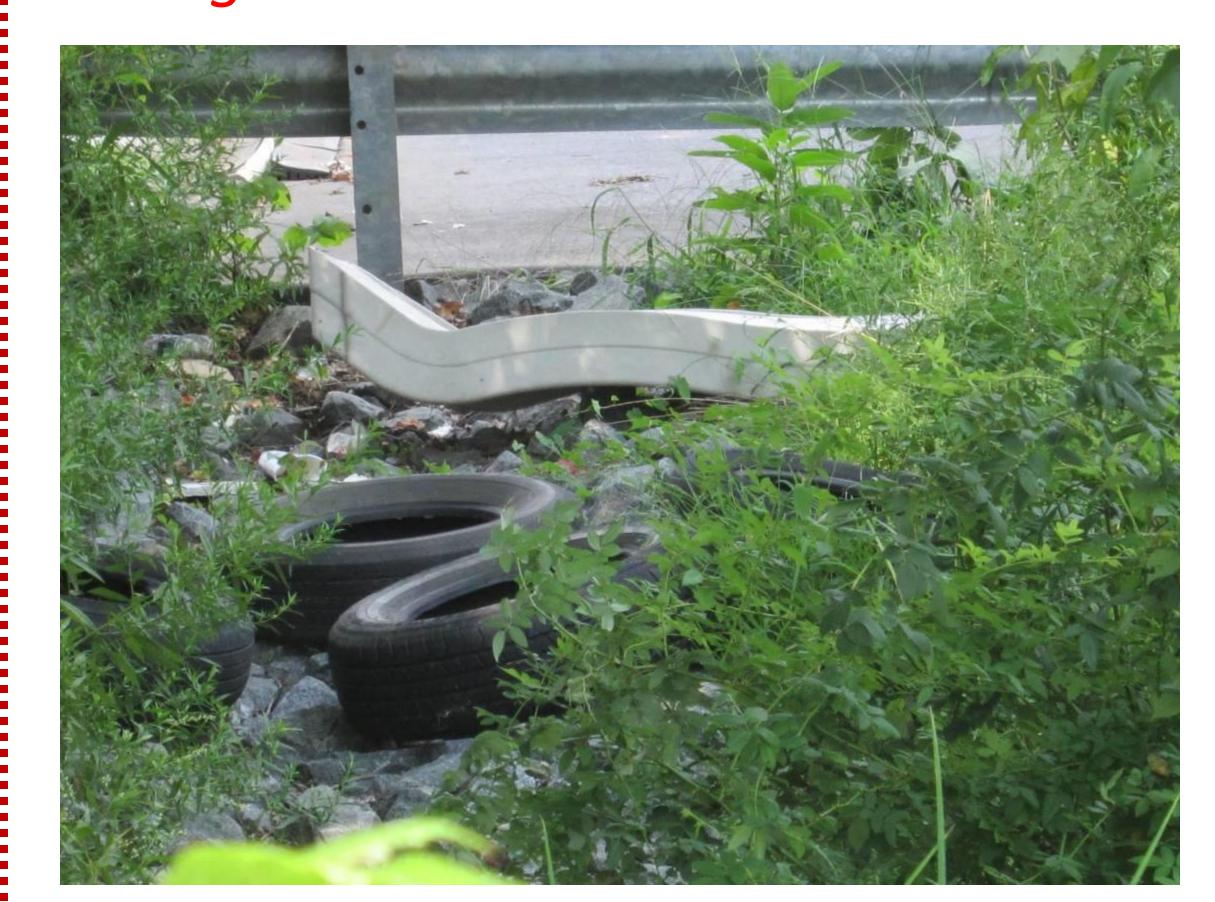
Address:
630 New Jersey 33
Hamilton Township, NJ 08619







Hamilton Township Stormwater Basin Assessment 79. Big Lots Basin



Rip rap and trash at dead end leading to basin



Ponding in basin bottom

Address:

630 New Jersey 33









Litter and debris accumulation

- Crates and shopping carts in basin
- Standing water in basin bottom
- Sediment and litter accumulation in basin, inlets and outlet
- Woody vegetation growth around outlet
- Exposed soil in and around basin embankment

79. Big Lots Basin

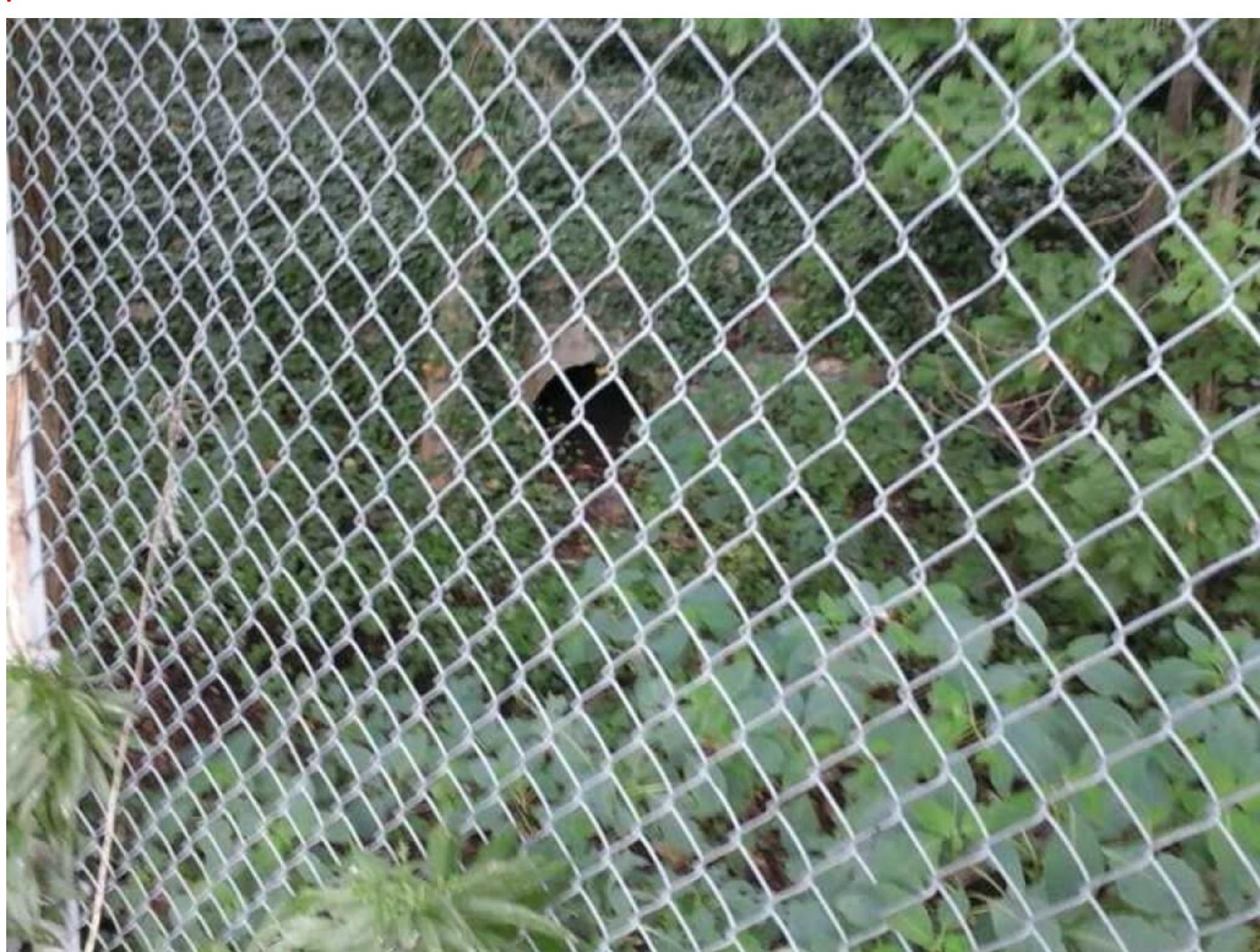
Address:

630 New Jersey 33

Hamilton Township, NJ 08619







- Basin behind the building leading into a wooden area
- Recommend cleaning out location

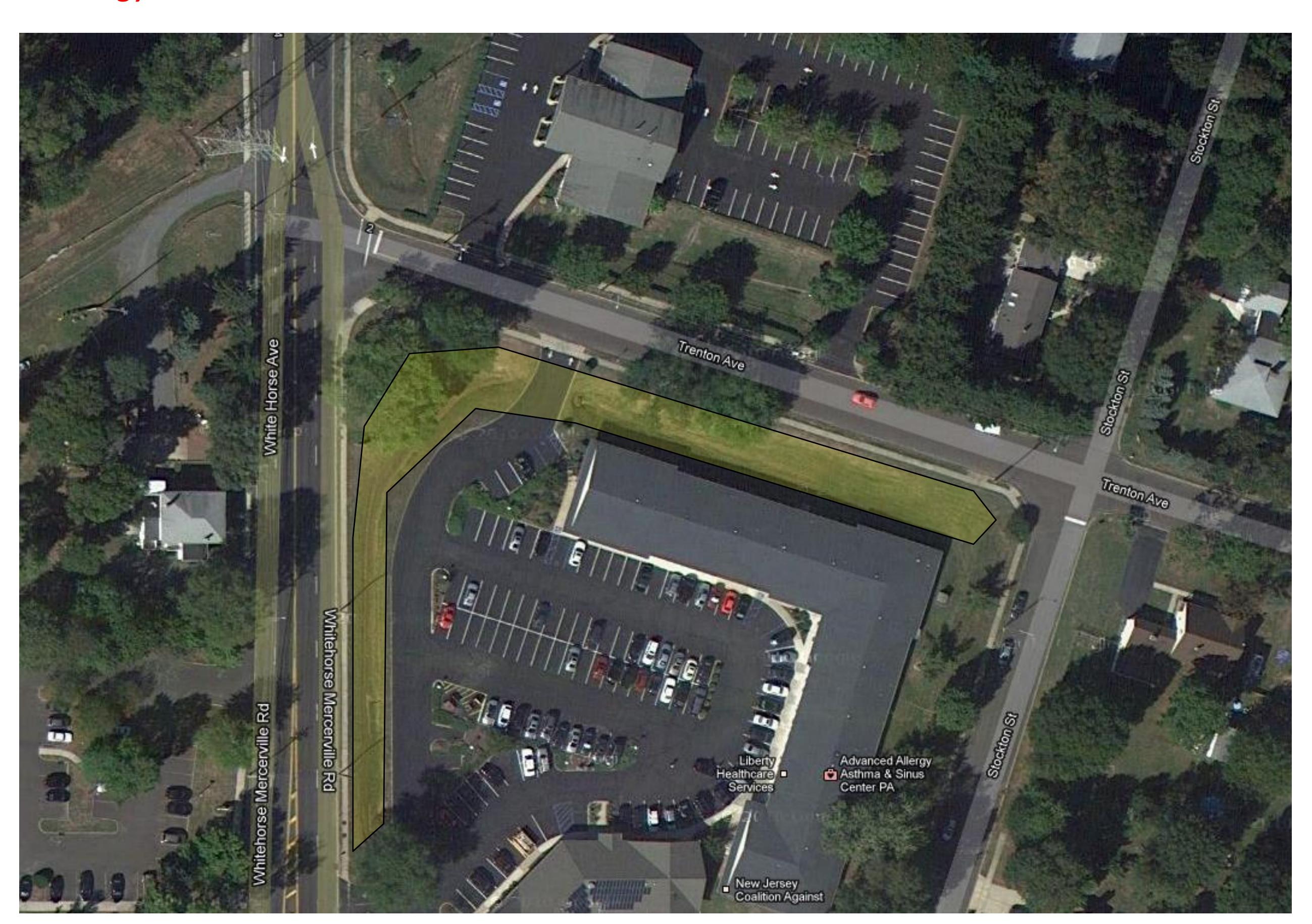
Address:

2333 Whitehorse Mercerville Road Hamilton Township, NJ 08619





84. Advanced Allergy Asthma & Sinus Center Basin



Address:

2333 Whitehorse Mercerville Road

Hamilton Township, NJ 08619

New Jersey Agricult Experiment Station



84. Advanced Allergy Asthma & Sinus Center Basin







Eastern basin bottom

Clogged inlet

Western basin bottom



Outlet

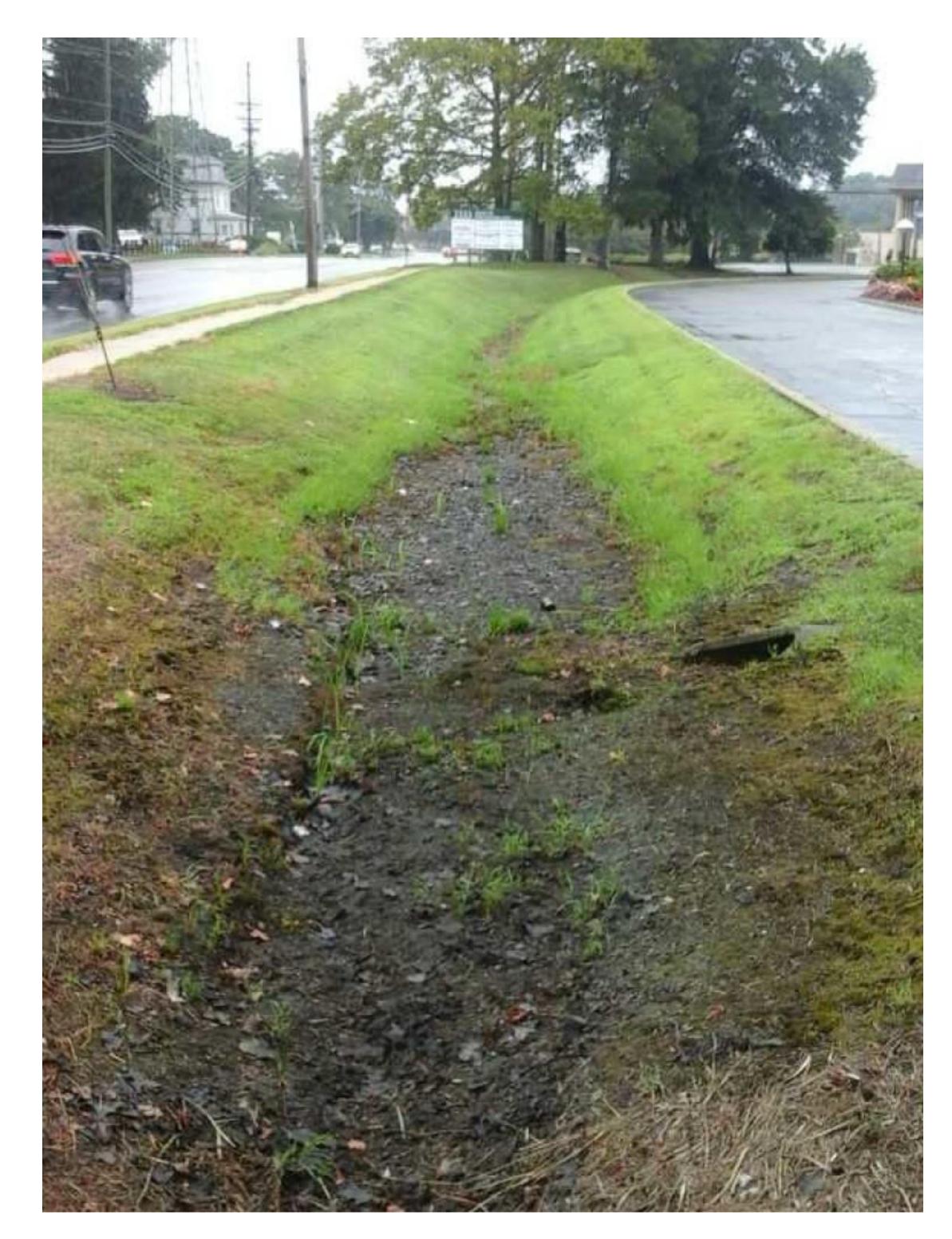
- Sediment accumulation at inlet and outlet
- Exposed soil in basin bottom
- Outlet has structural damage

Address:
2333 Whitehorse Mercerville Road
Hamilton Township, NJ 08619





84. Advanced Allergy Asthma & Sinus Center Basin



- Basin has 2 inlets, some erosion appears to be caused by them
- Naturalize with herbaceous plants and add stone near inlets to control erosion

Hamilton Township Stormwater Basin Assessment 89. Derma Laser Centers Basin (#1)

Address:

2239 Whitehorse Mercerville Road Mercerville, NJ 08619

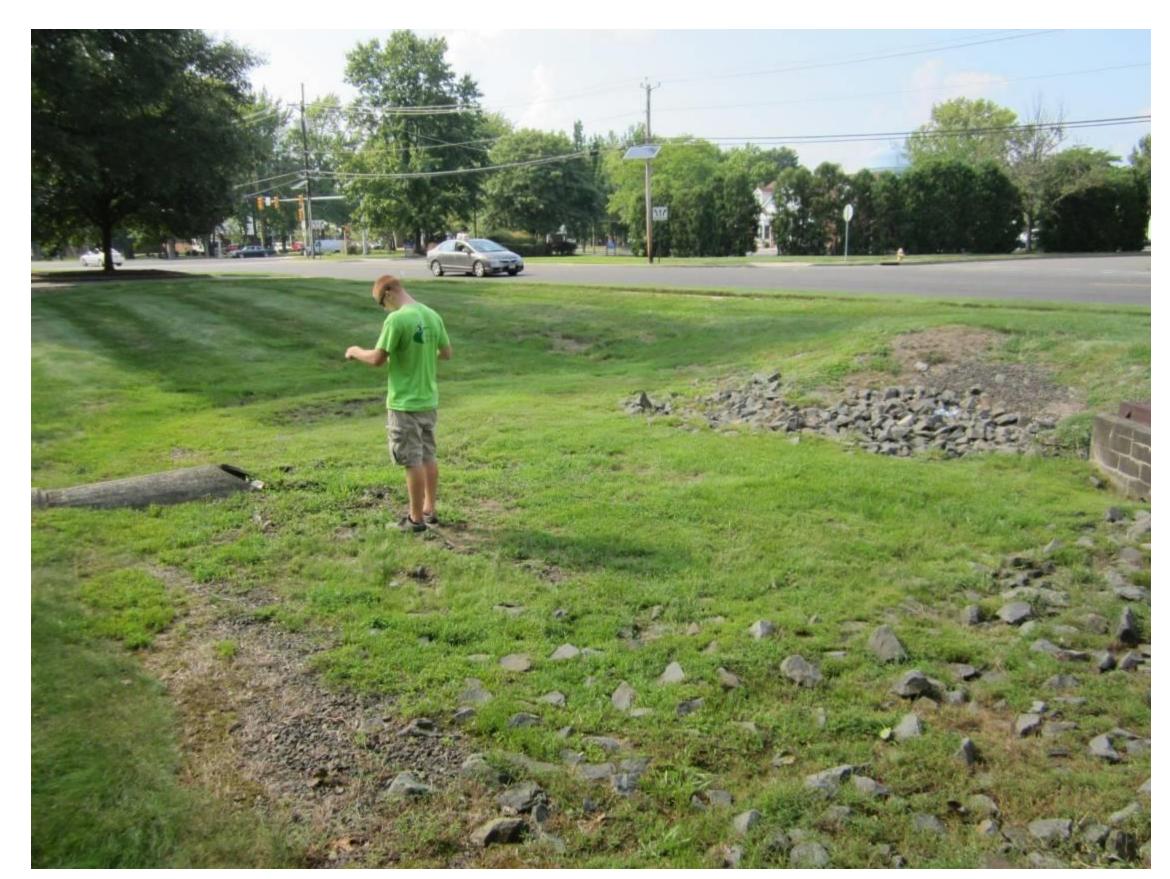








Hamilton Township Stormwater Basin Assessment 89. Derma Laser Centers Basin (#1)



Basin bottom looking west



Inlet pipe

Address:

2239 Whitehorse Mercerville Road Mercerville, NJ 08619









Outlet structure

- Standing water in inlet
- Accumulation of litter, sediment and debris AT outlet, inlet and basin bottom
- Exposed soil in basin bottom
- Evidence of erosion in front of inlet
- Inlet shows evidence of deterioration

Hamilton Township Stormwater Basin Assessment 89. Derma Laser Centers Basin (#1)

Address: 2239 Whitehorse Mercerville Road Mercerville, NJ 08619









- Small basin with one inlet
- •Inlet still appears damage and may need repair
- Naturalize basin with herbaceous plants

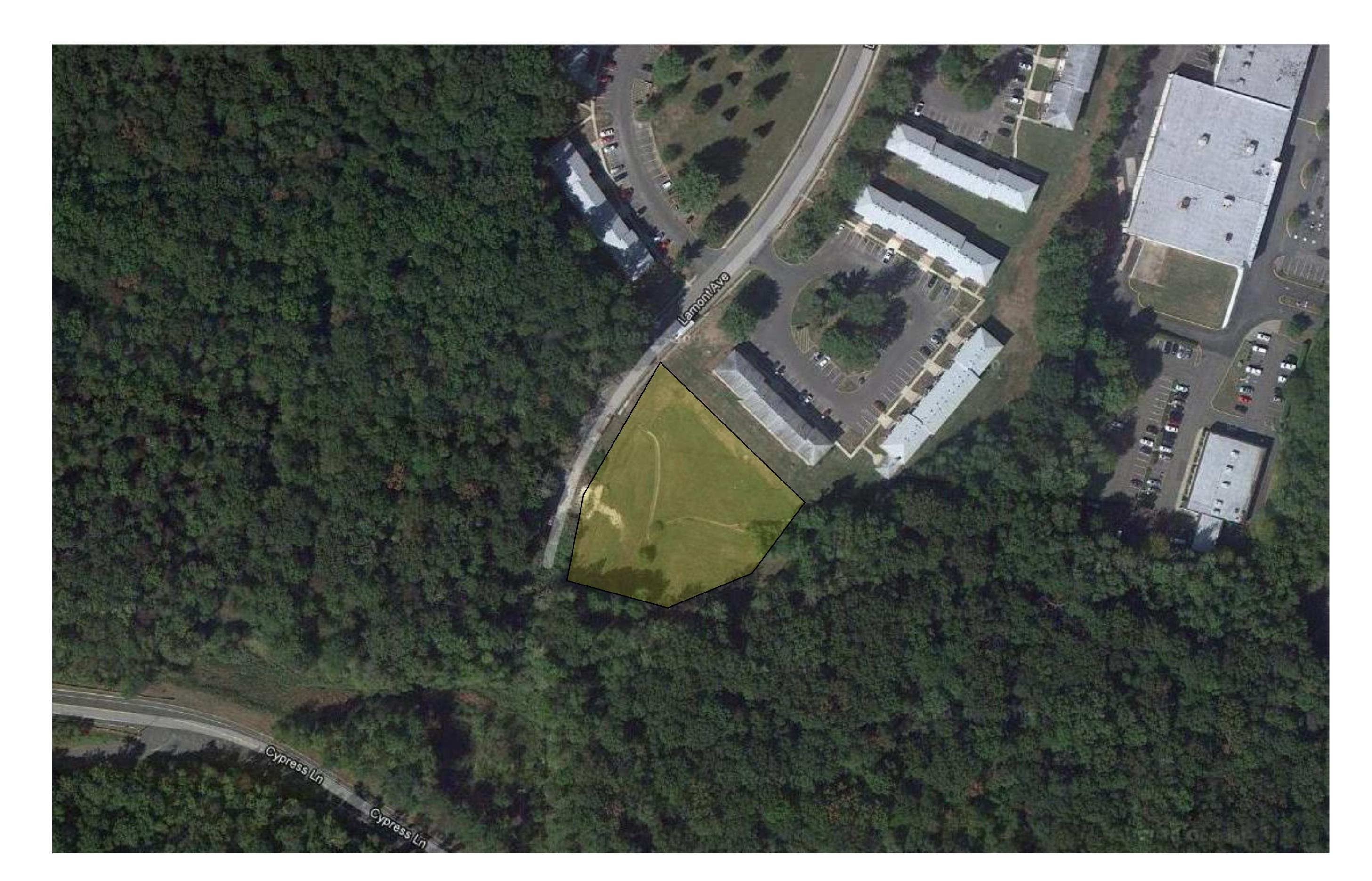
Hamilton Township
Stormwater Basin Assessment
100. Lamont Ave Commercial Basin

Address:
Lamont Ave
Trenton, NJ 08619









Address: Lamont Ave Trenton, NJ 08619











Inlet covered by plant growth



Outlet structure obstructed with litter



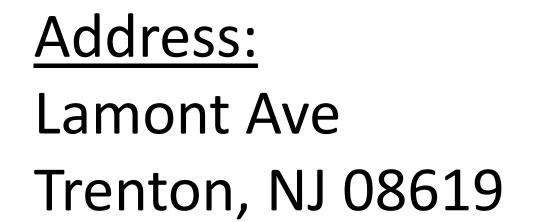
Slumping/failing basin embankment



Basin bottom looking northwest

- Sediment, debris and litter accumulation at inlets and outlet
- Excess sediment accumulation and standing water in low flow channel with algae growth
- Northwestern basin embankment slumping/failing
- Evidence of deterioration at inlets
- Woody vegetation growth around outlet
- Basin outfall area shows evidence of erosion

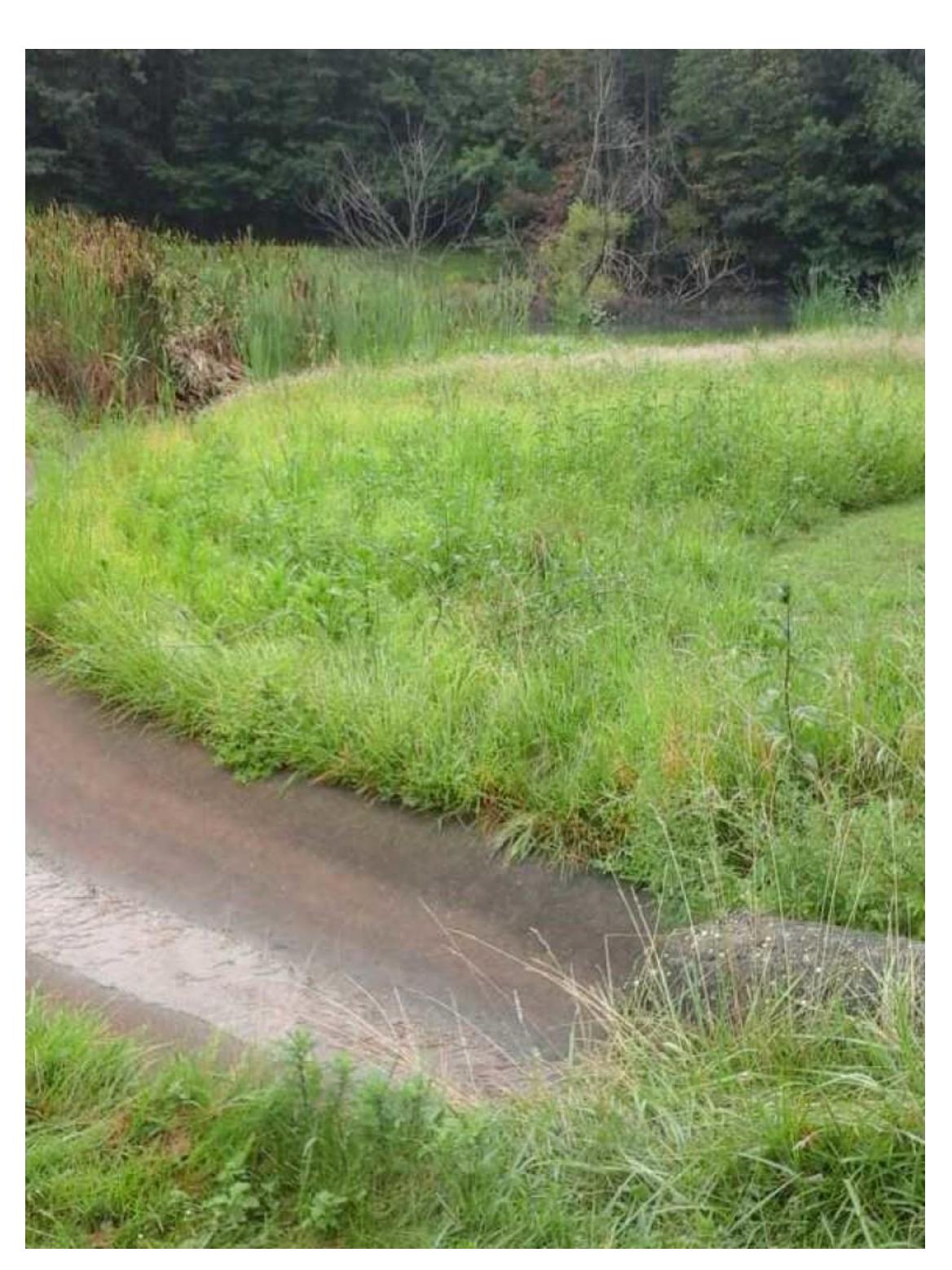
Hamilton Township
Stormwater Basin Assessment
100. Lamont Ave Commercial Basin











- Well naturalized basin
- •Some oil observed leaking in about halfway down the channel

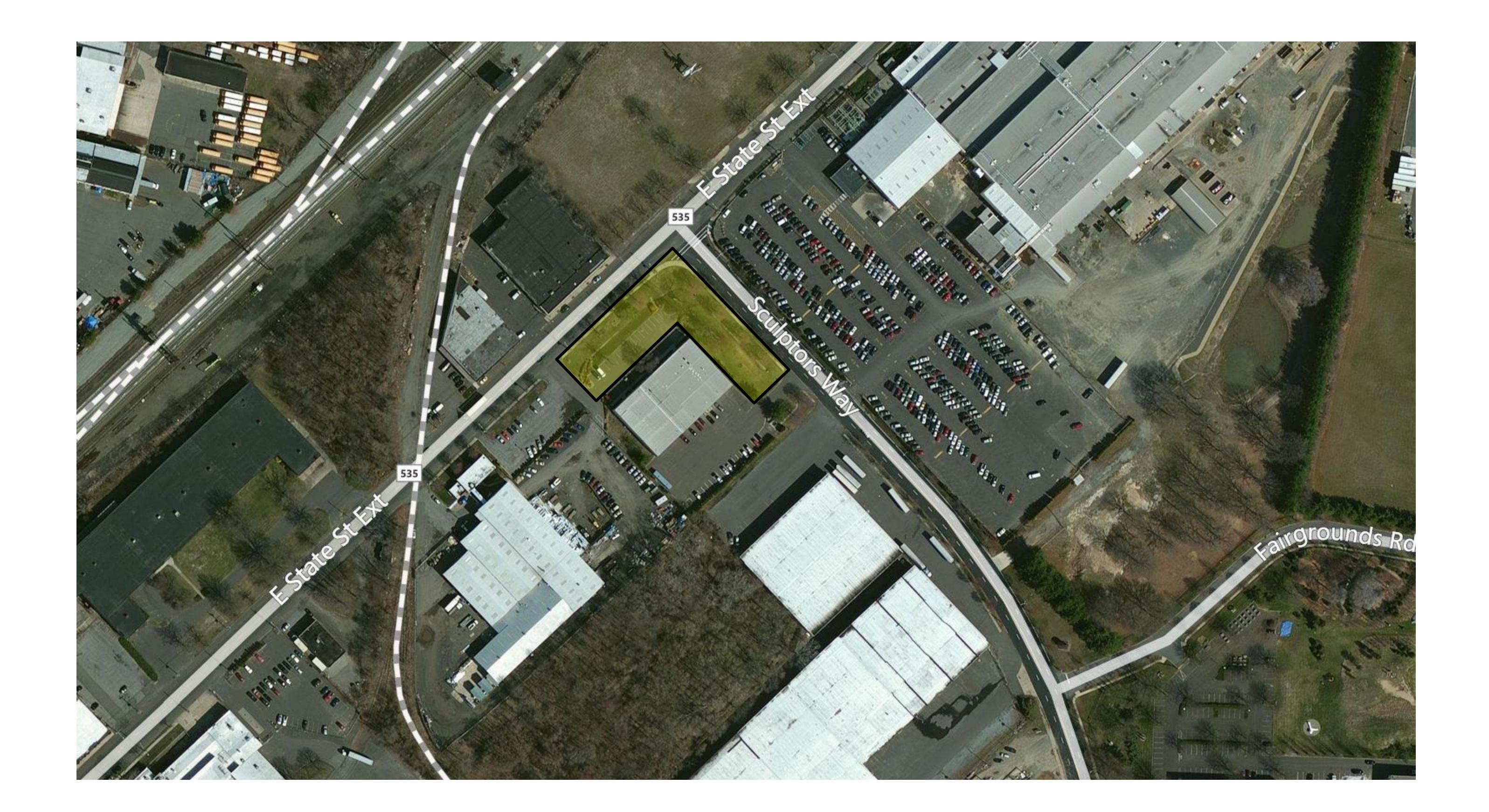
Hamilton Township
Stormwater Basin Assessment
101. Daddi's Martial Arts Detention Basin

Address:

E State St and Sculptors Way Trenton, NJ 08619







101. Daddi's Martial Arts Detention Basin

Address:

E State St and Sculptors Way
Trenton, NJ 08619







Basin bottom looking northwest



Exposed roots near eastern inlet



Invasive ground cover

Hamilton



Outlet structure

- There is excess sediment accumulated and standing water in the low flow channel
- There is erosion near the eastern inlet exposing roots
- Outlet structure is surrounded by excess sediment and erosion
- Invasive ground cover is out-competing turf in some areas

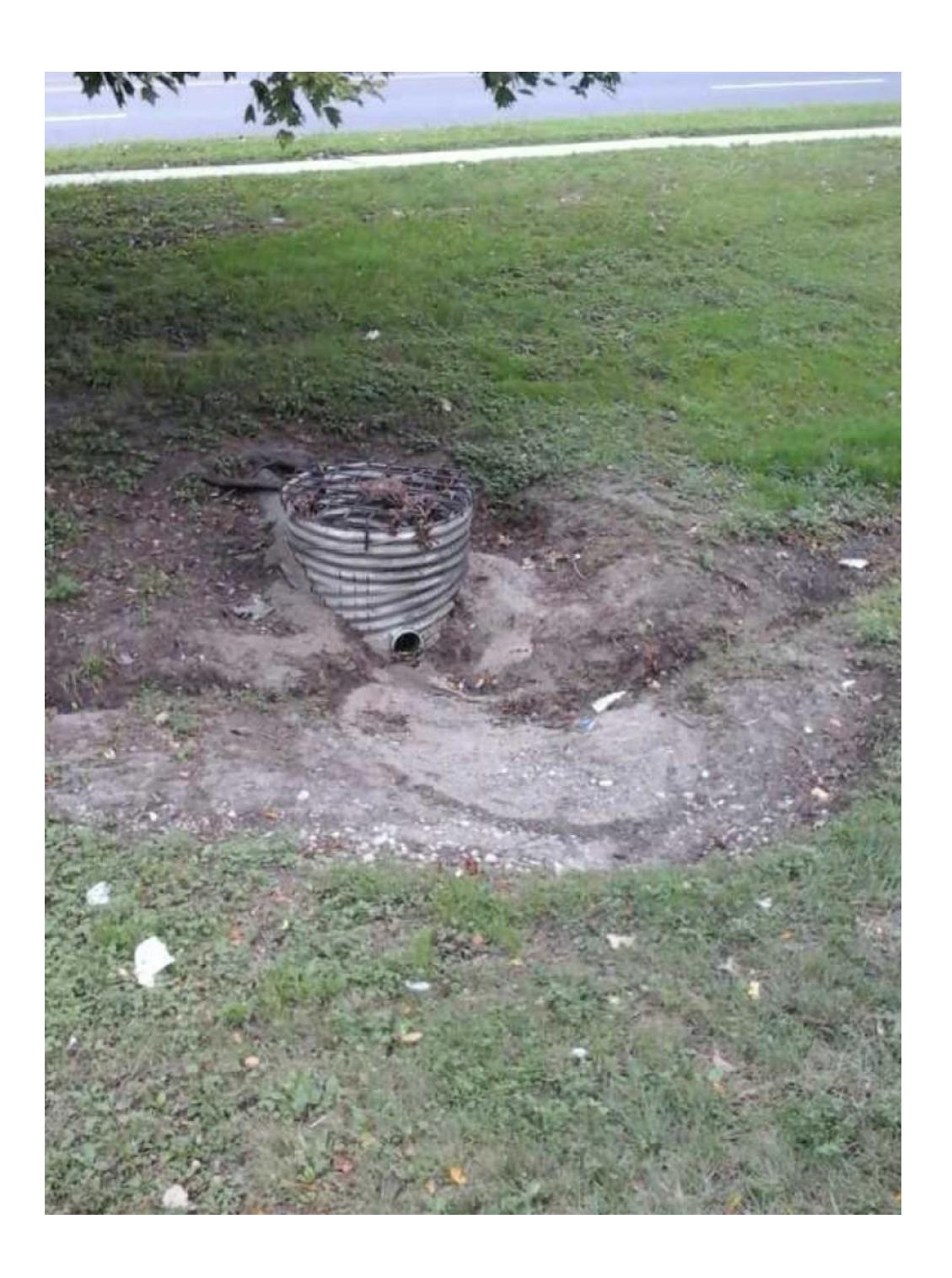
Hamilton Township
Stormwater Basin Assessment
101. Daddi's Martial Arts Detention Basin

Address:

E State St and Sculptors Way
Trenton, NJ 08619







- Sediment buildup and soil erosion present in basin especially near outlet structure
- •Outlet appear to be of old design, could be replaced for better management
- •Low flow channels could be removed to promote more infiltration

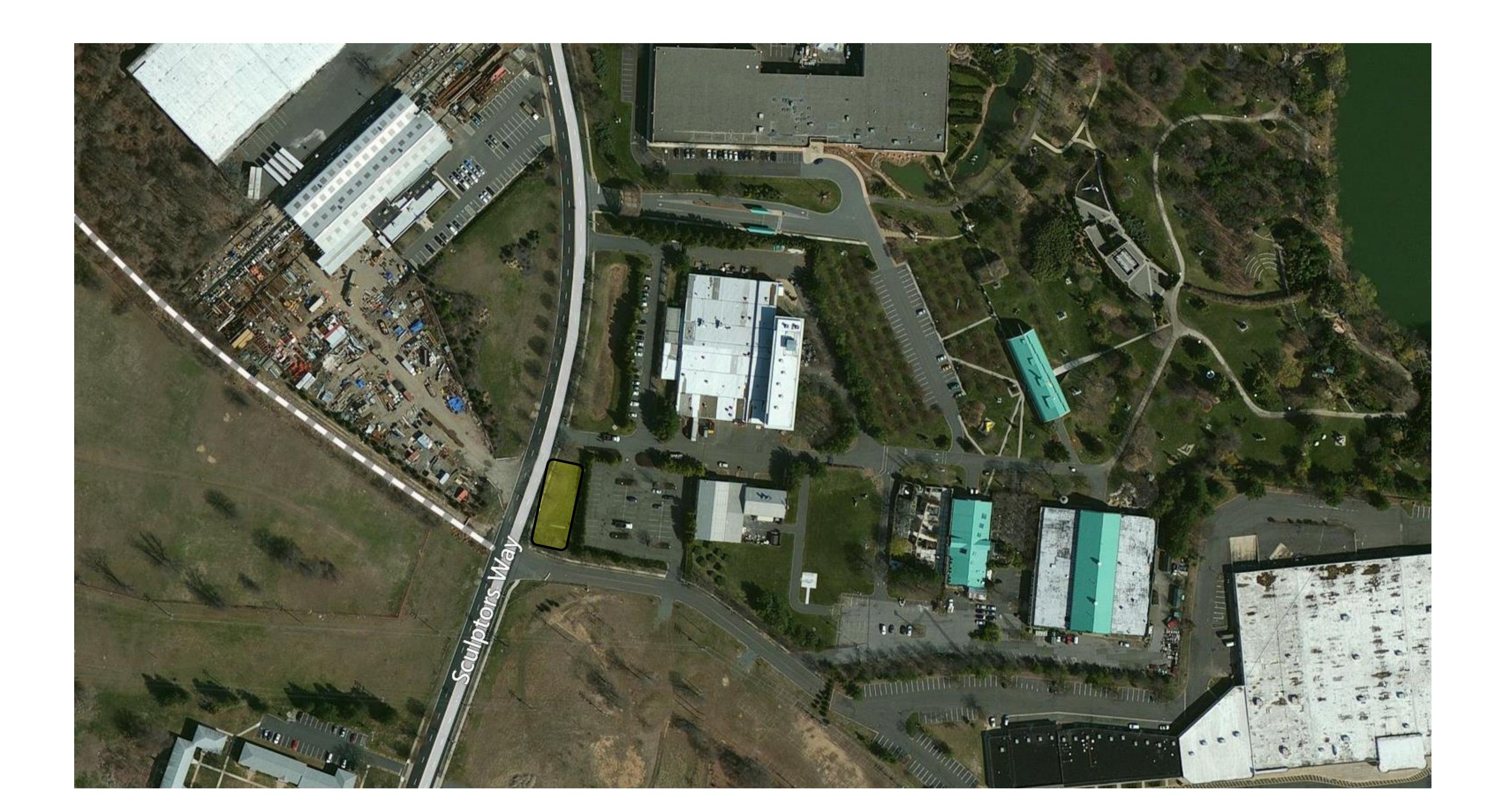
Hamilton Township
Stormwater Basin Assessment
103. Sculptors Way Detention Basin (b)

Address: 130 Sculptors Way Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 103. Sculptors Way Detention Basins (b)



Basin bottom looking west



Inlet structure breakage

Address:







130 Sculptors Way Trenton, NJ 08619



Outlet structure with slumping and breakage

- There is excess sediment accumulated and standing water in the low flow channel
- Outlet low flow orifice is clogged with sediment
- Outlet has some breakage and slumping around base
- Inlet has breakage

Hamilton Township Stormwater Basin Assessment 103. Sculptors Way Detention Basins (b)

Address: 130 Sculptors Way Trenton, NJ 08619











- Basin in overall good condition
- •Outlet structure has some structural damage with water flowing under the low flow orifice, repair suggested to ensure it is operating as intended
- Low flow channel could be removed to allow more infiltration
- •Naturalization by reducing mowing would provide additional benefits

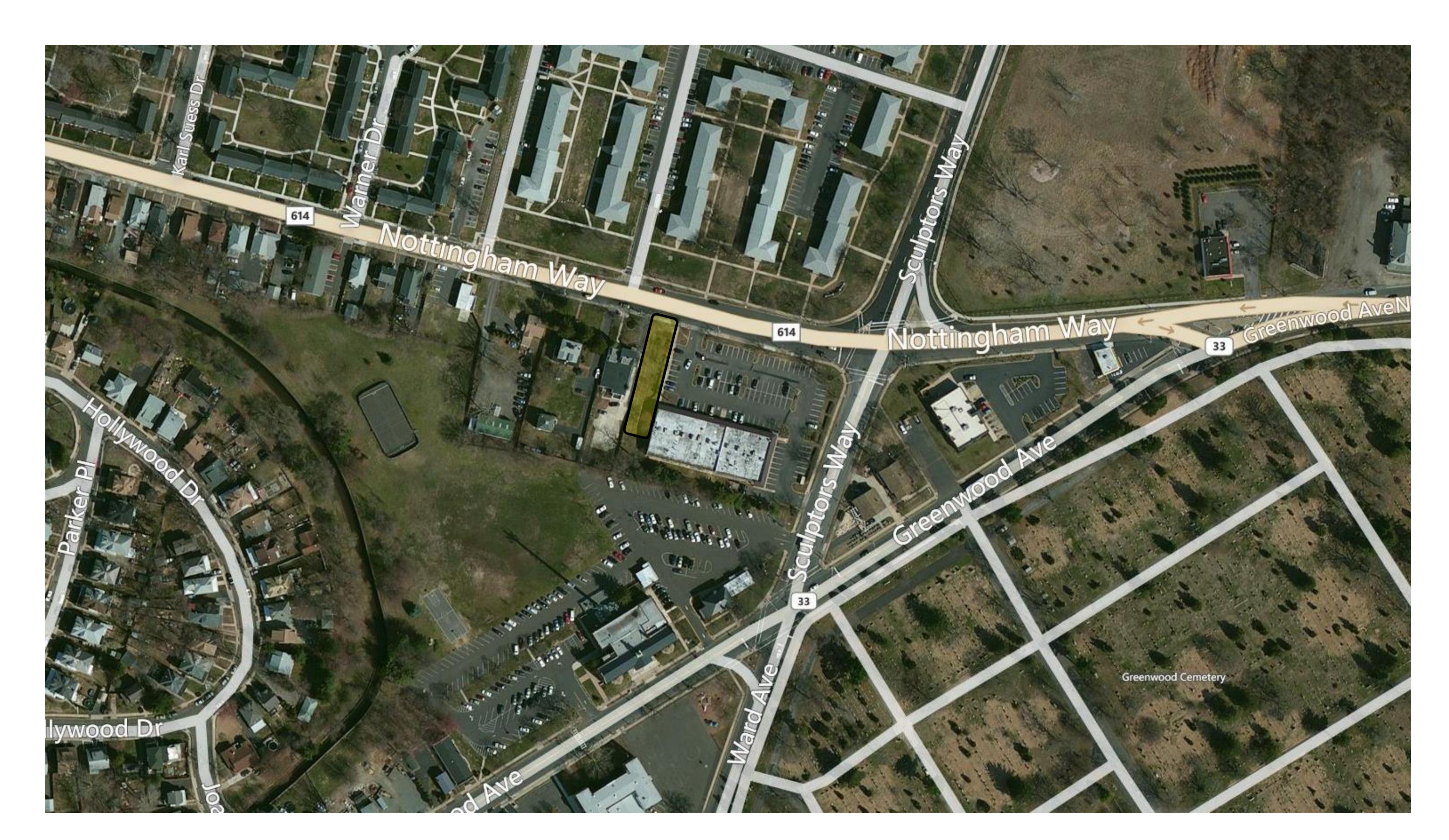
Hamilton Township Stormwater Basin Assessment 104. Clean Machine Laundromat Detention Basin

Address: 1475 Nottingham Way Trenton, NJ 08609









Hamilton Township

Address: 1475 Nottingham Way Trenton, NJ 08609







Stormwater Basin Assessment 104. Clean Machine Laundromat Detention Basin



Severe erosion in swale inlet



Outlet structure



Basin bottom looking north

- Swale that conveys water from parking lot to basin has severe erosion
- There is excess sediment accumulated and standing water in the low flow channel
- Outlet has some breakage and low flow orifice is clogged

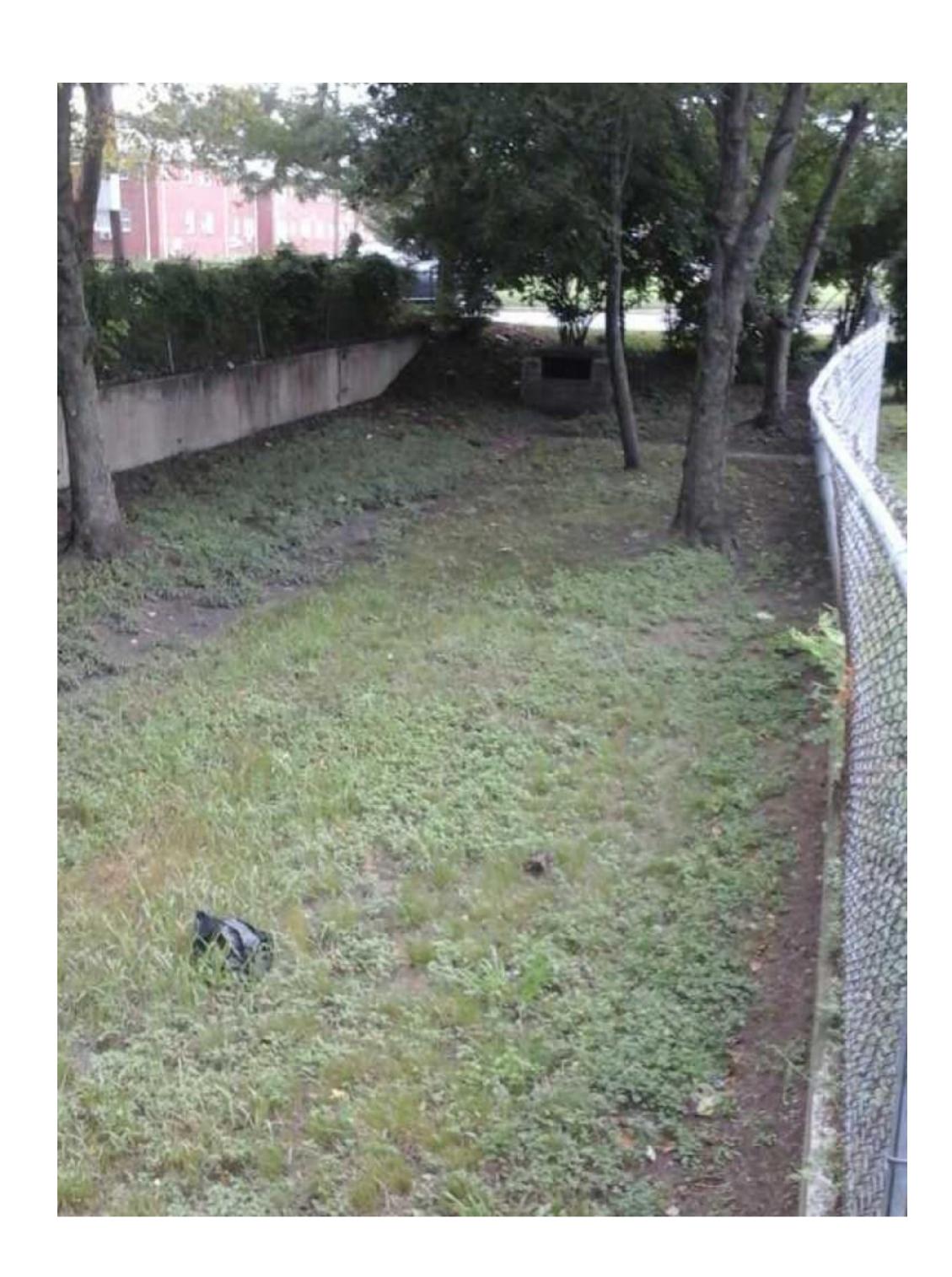
Hamilton Township Stormwater Basin Assessment 104. Clean Machine Laundromat Detention Basin

Address: 1475 Nottingham Way Trenton, NJ 08609









- Basin overall in good condition
- Significant amounts of trash present in basin
- •Lot flow channel can be removed and replaced with stone channel to promote infiltration

Hamilton Township
Stormwater Basin Assessment
106. Kuser Farm Park Detention Basin

Address: Leonard Ave and Newkirk Ave Trenton, NJ 08610







Hamilton Township Stormwater Basin Assessment 106. Kuser Farm Park Detention Basin



Outlet structure



Plant growth around inlet

Address:











Severe ponding in basin

- Excessive plant growth surrounding inlet
- There is excess sediment accumulated and standing water in the low flow channel
- Outlet has some breakage and low flow orifice is clogged
- Excessive standing water in basin

Hamilton Township
Stormwater Basin Assessment
106. Kuser Farm Park Detention Basin

Address: Leonard Ave and Newkirk Ave Trenton, NJ 08610









- Basin is well maintained
- •No signs of standing water or sediment accumulation seen in previous assessment
- •Low flow channel could be removed to manage stormwater better in smaller storms

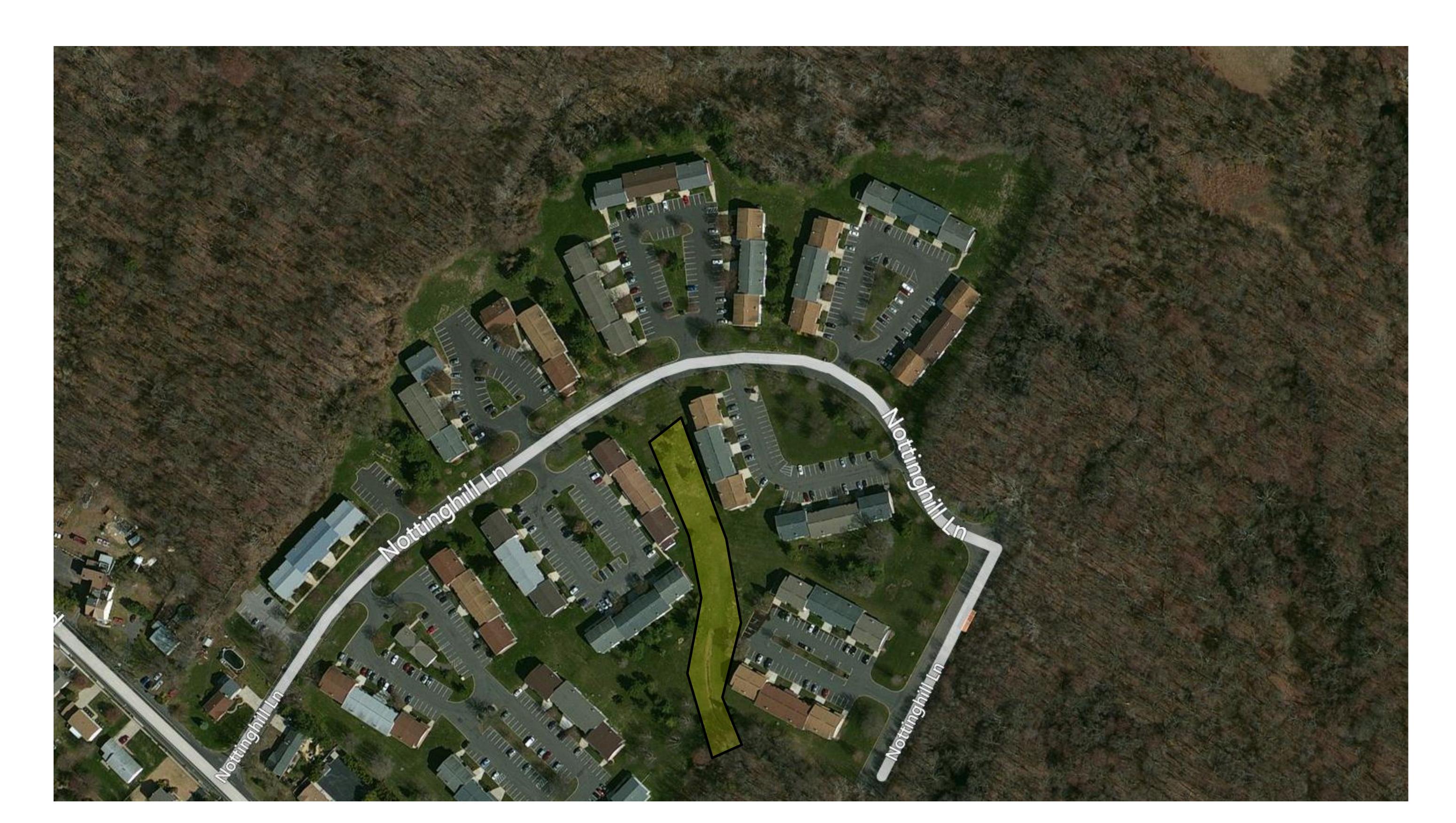
Hamilton Township
Stormwater Basin Assessment
110. Nottinghill Lane Detention Basin (a)

Address:
Nottinghill Ln
Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 110. Nottinghill Lane Detention Basin (a)



Outlet grate



Water exiting through hole

Address: Nottinghill Ln







Trenton, NJ 08619



Basin bottom looking north

- Basin intercepts a natural stream
- Water is exiting through cracks in the sides of the outlet rather than the grate
- Water is exiting through a hole in the ground before reaching the outlet

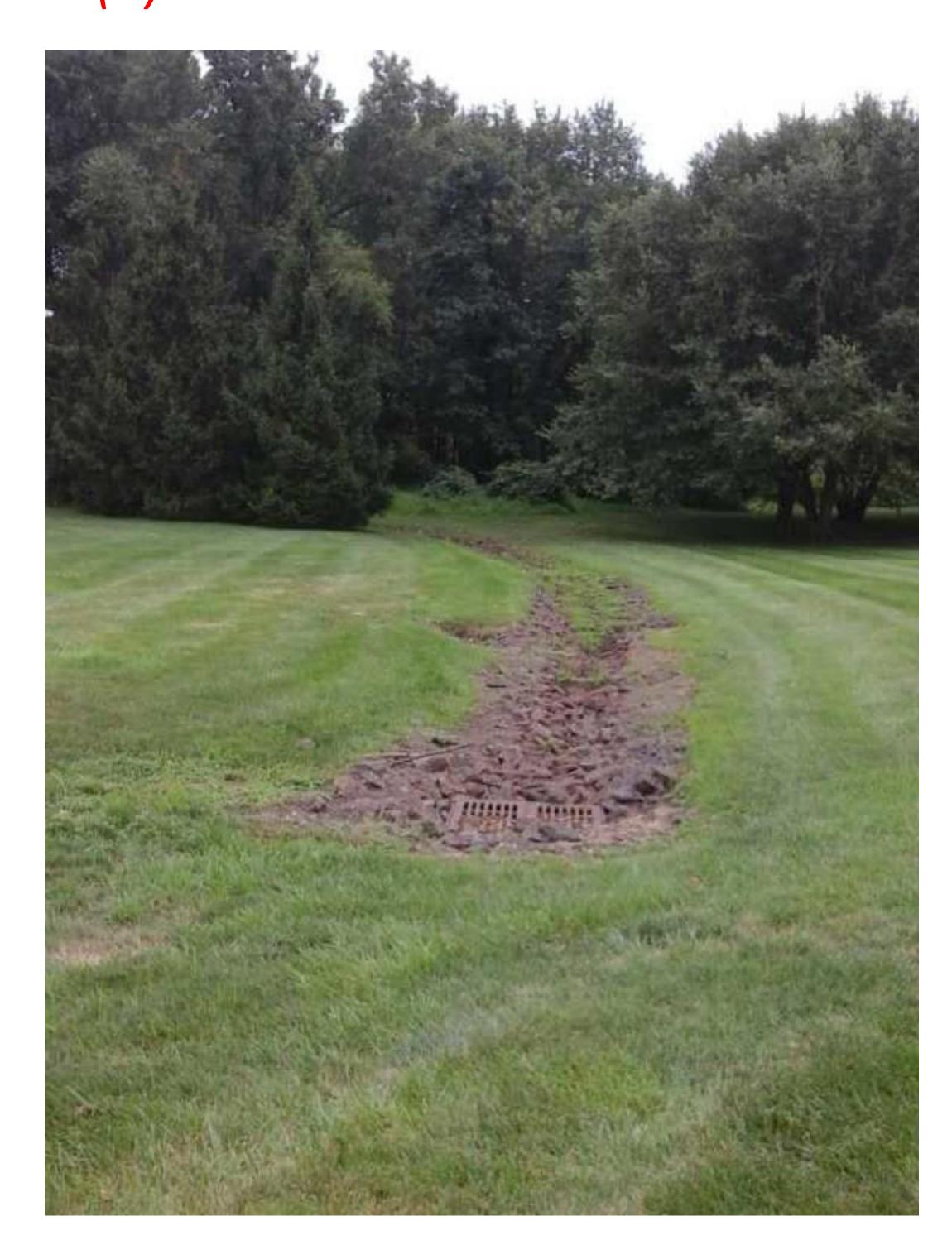
Hamilton Township Stormwater Basin Assessment 110. Nottinghill Lane Detention Basin (a)

Address:
Nottinghill Ln
Trenton, NJ 08619









- Rock channel has a small amount of sediment and erosion that could be cleaned up
- Vegetation should be removed from rough channel
- Area around channel can be naturalized with herbaceous plants

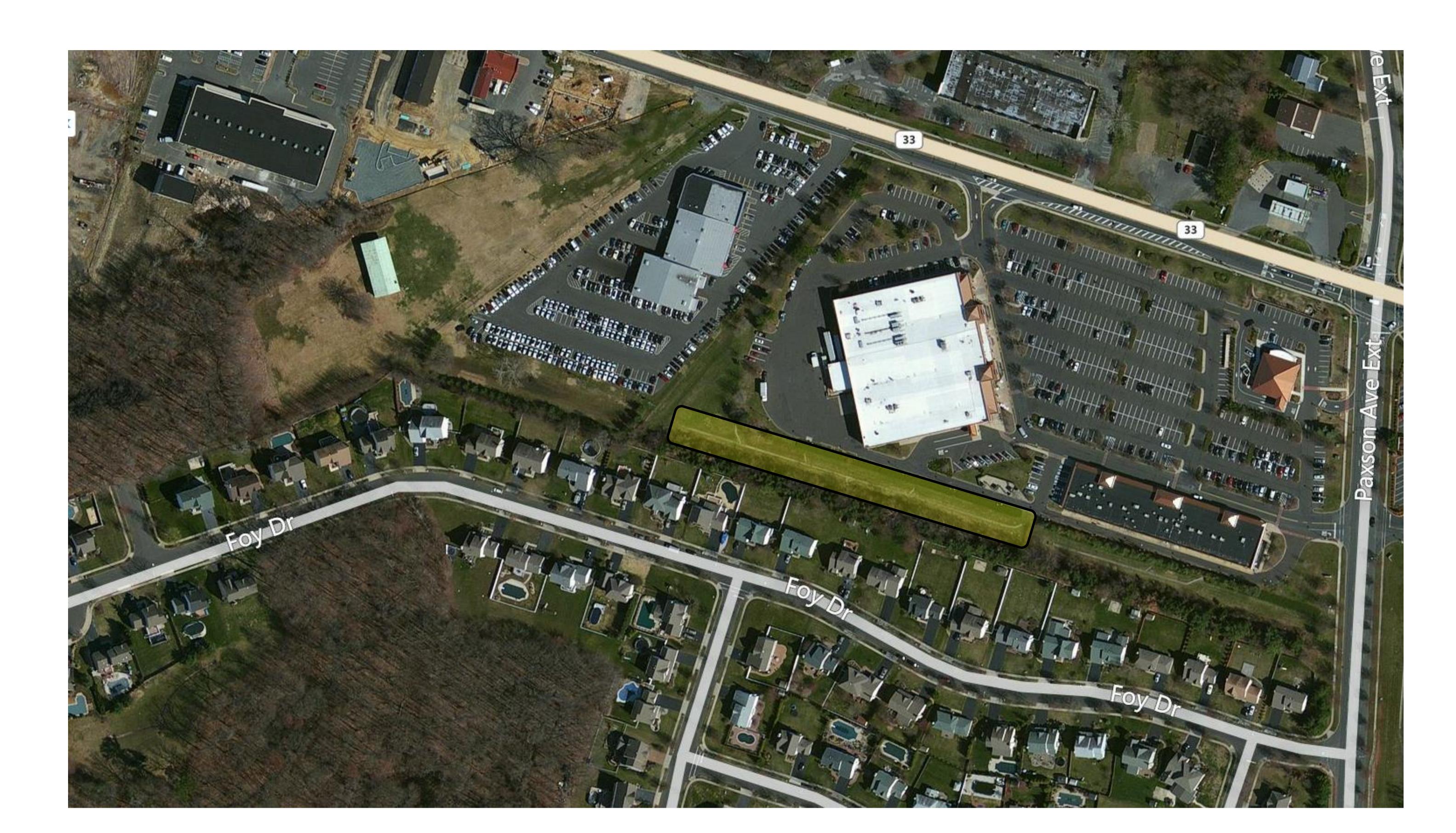
Hamilton Township
Stormwater Basin Assessment
117. Acme Detention Basin

Address:
949 RT-33
Trenton, NJ 08690

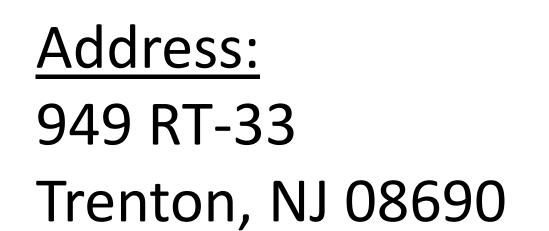




















Excessive growth around outlet structure



Breakage on northeastern inlet



Excess sediment in low flow channel



Basin bottom looking east

- There is excess sediment accumulated and standing water in the low flow channel
- There is excessive woody growth around the outlet and slumping at the base
- Most northeastern inlet has breakage that is exposing reinforcement

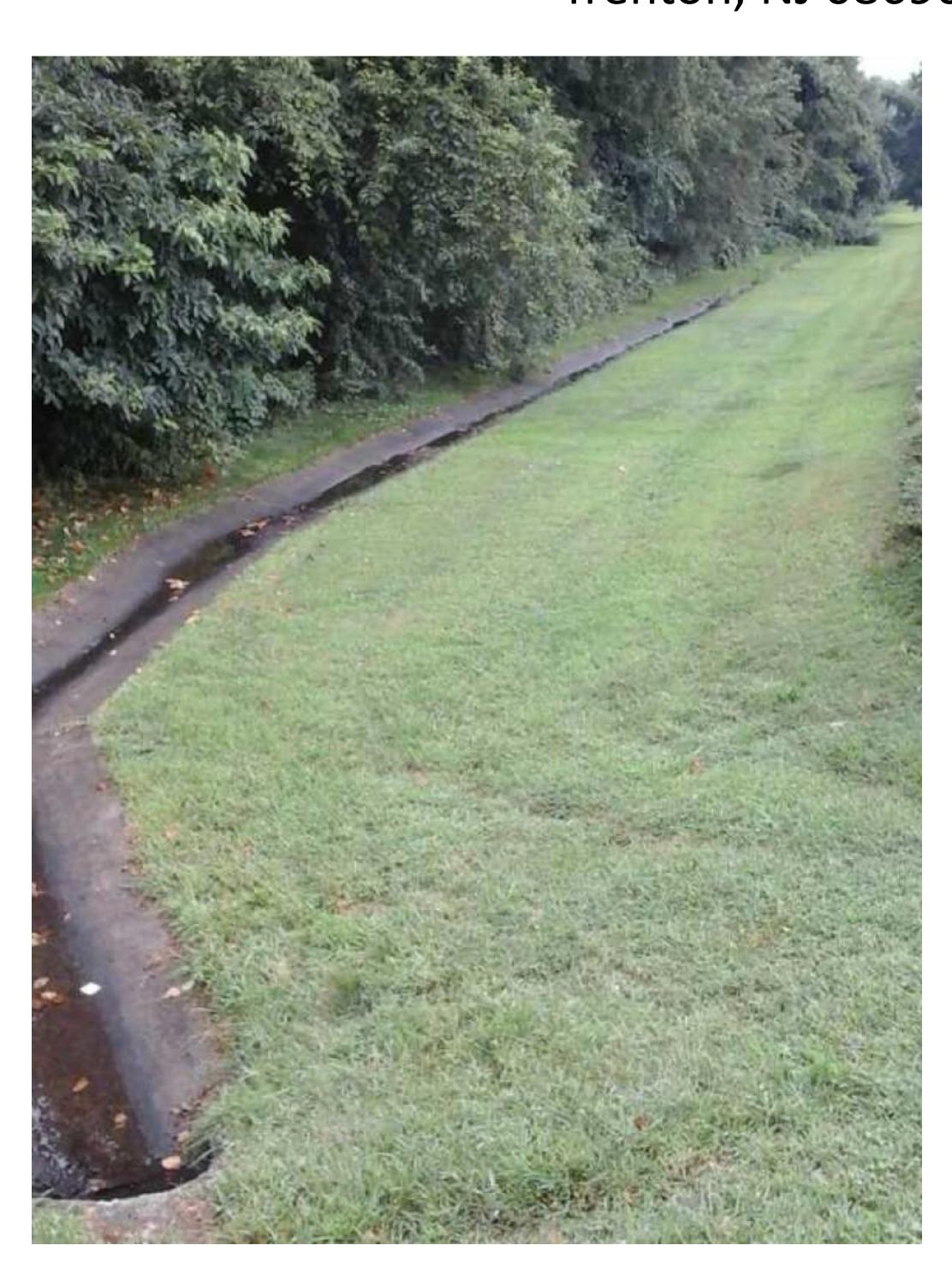
Hamilton Township
Stormwater Basin Assessment
117. Acme Detention Basin

Address:
949 RT-33
Trenton, NJ 08690









- Some vegetation growing within low flow channel
- Clean buildup in low flow channel
- Opportunity to remove low flow channel and replace with rock channel to help deal with standing water issues

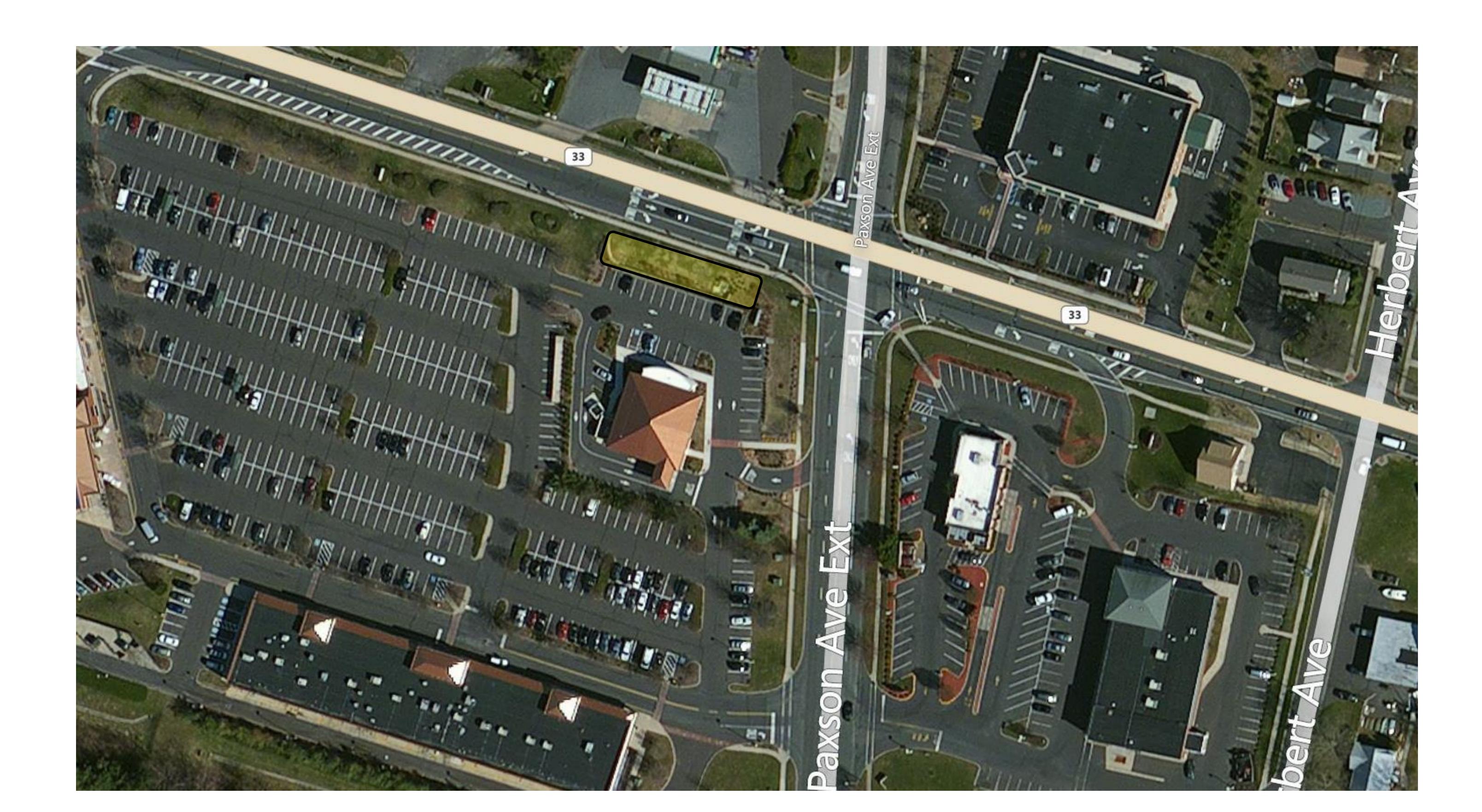
Hamilton Township
Stormwater Basin Assessment
119. Chase Bank Detention Basin

Address:
989 RT-33
Trenton, NJ 08690









Hamilton Township Stormwater Basin Assessment 119. Chase Bank Detention Basin



Outlet with excess mulch



Basin bottom looking west

Address: 989 RT-33 Trenton, NJ 08690









Western inlet clogged with leaves

- Outlet low flow orifice is clogged with mulch from landscaped features
- Western inlet is clogged with leaves

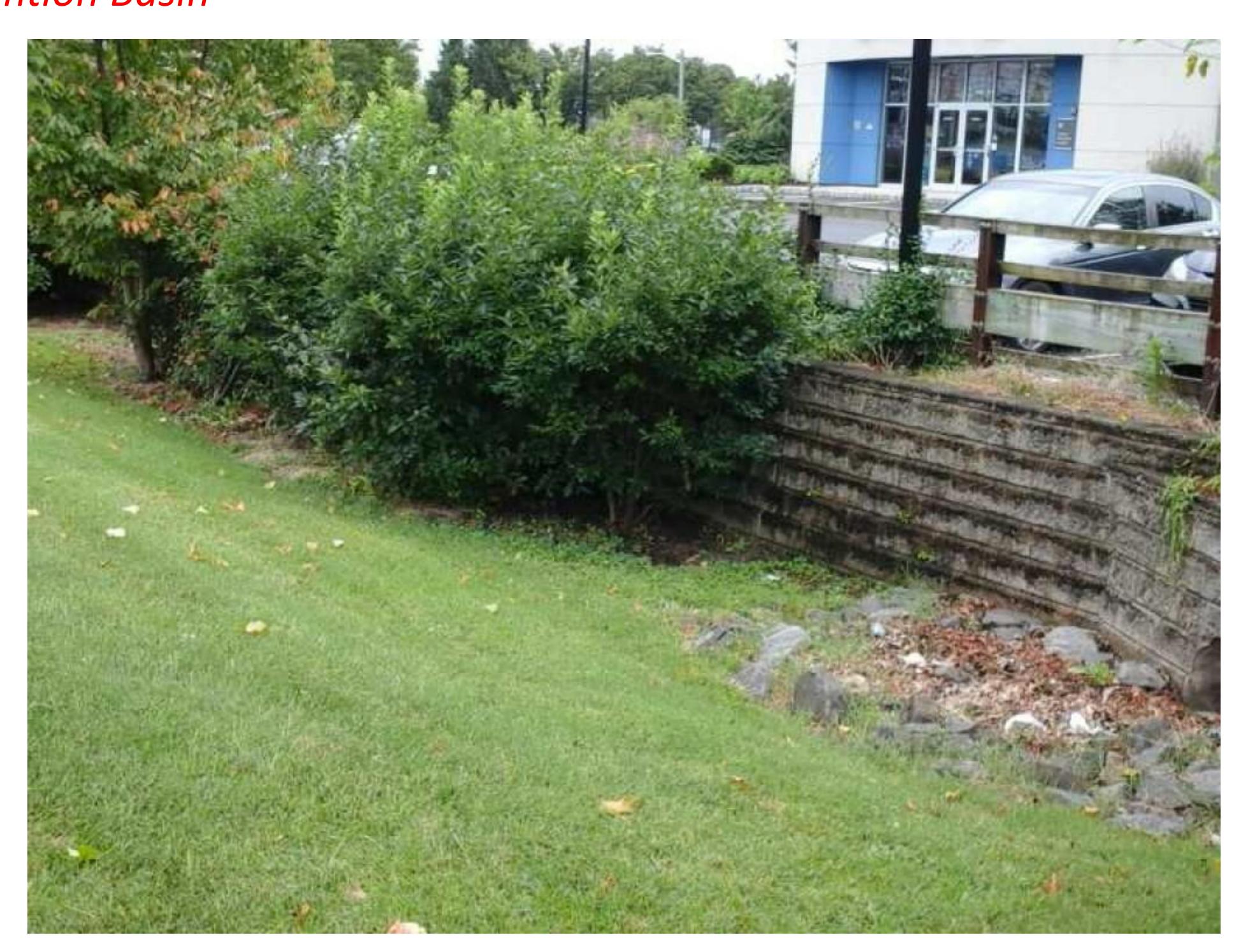
Hamilton Township Stormwater Basin Assessment 119. Chase Bank Detention Basin

Address:
989 RT-33
Trenton, NJ 08690









- Basin overall in well maintained condition
- Basin partly naturalized with woody plants

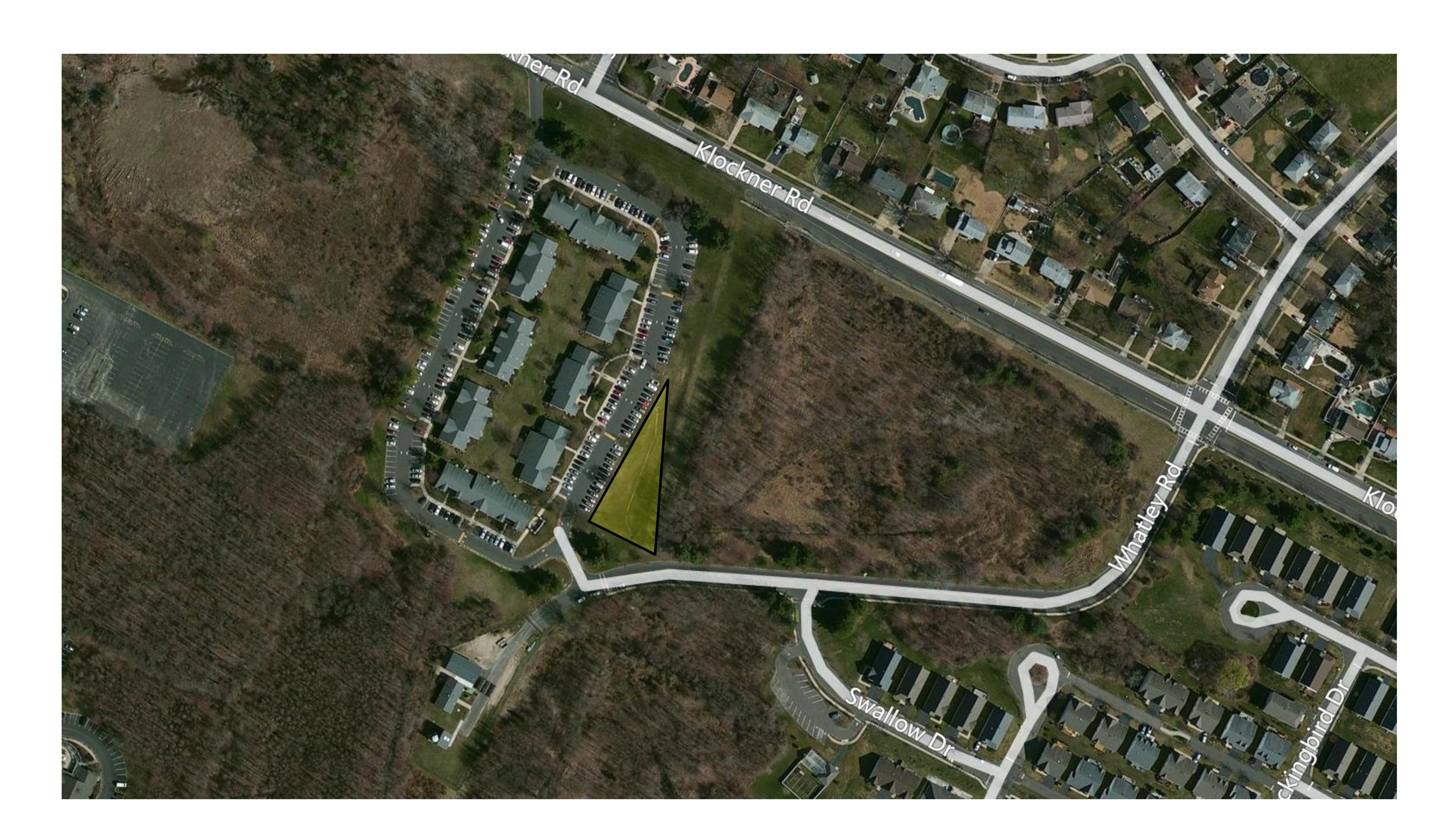
Address: 1991 Klockner Rd Trenton, NJ 08619







122. Hamilton Cardiology Associates Detention Basin



122. Hamilton Cardiology Associates Detention Basin

Address: 1991 Klockner Rd Trenton, NJ 08619









Outlet structure



Bare spot on eastern embankment



Basin bottom looking south

- Outlet has minor cracks
- There is excess sediment accumulated and standing water in the low flow channel
- There is excess sediment accumulated in the outlet low flow orifice
- Eastern embankment has a large bare spot

Address: 1991 Klockner Rd Trenton, NJ 08619







122. Hamilton Cardiology Associates Detention Basin



- Basin has two inlets and low flow channel
- Some standing water present in the low flow channel
- Opportunity to remove low flow channel and replace with stone channel to help with standing water issues

Address:

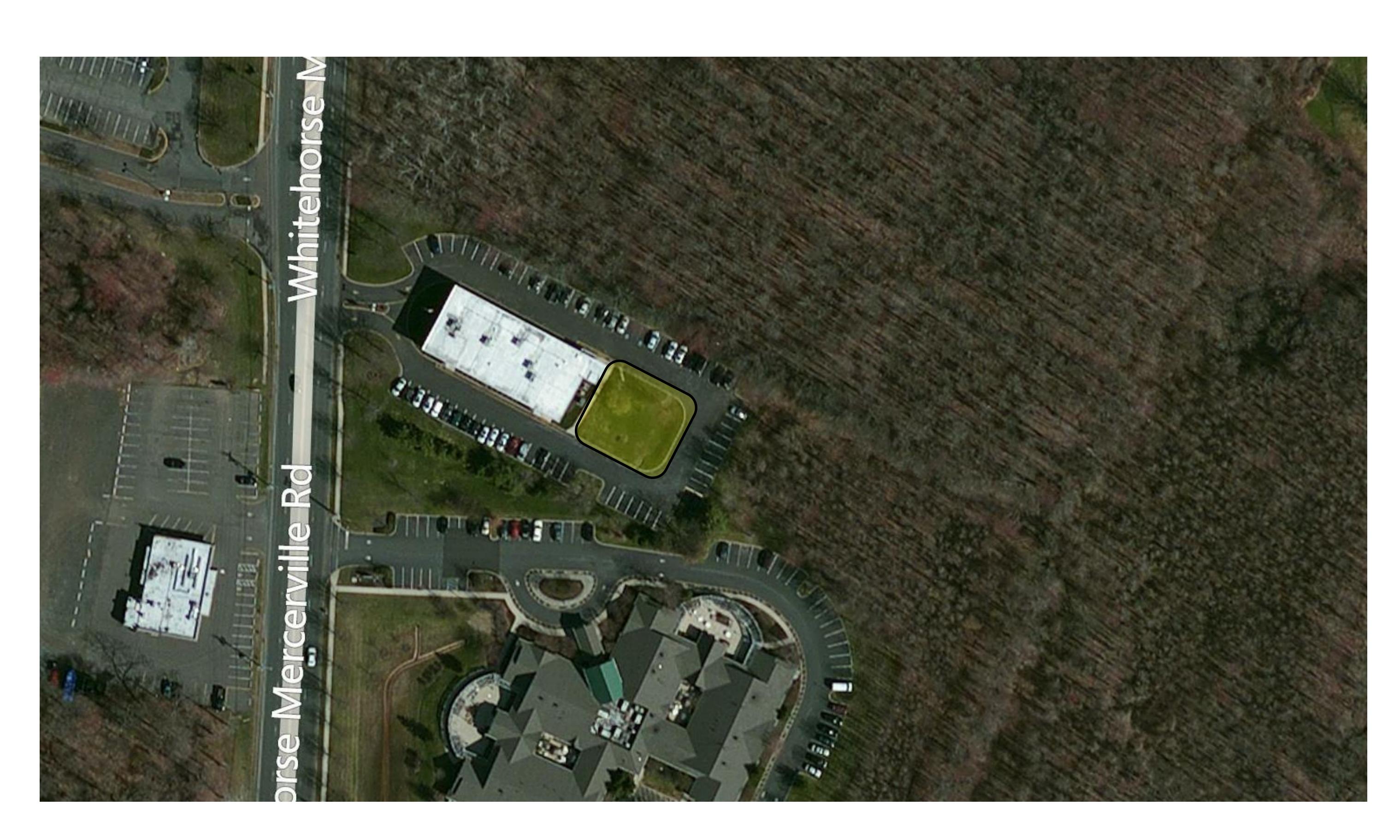
1715 Whitehorse Mercerville Rd Trenton, NJ 08619





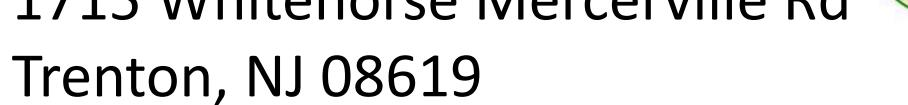


123. Whitehorse Professional Building Detention Basin



Address:

1715 Whitehorse Mercerville Rd









123. Whitehorse Professional Building Detention Basin



Erosion around northeastern inlet



Rip-rap blocking low flow orifice



Erosion around southeastern inlet



Basin bottom looking northeast

- Curb cut inlets have severe erosion
- Outlet low flow orifice is blocked by rip-rap
- Outlet structure has minor cracks in parging that should be monitored

Address: 1715 Whitehorse Mercerville Rd

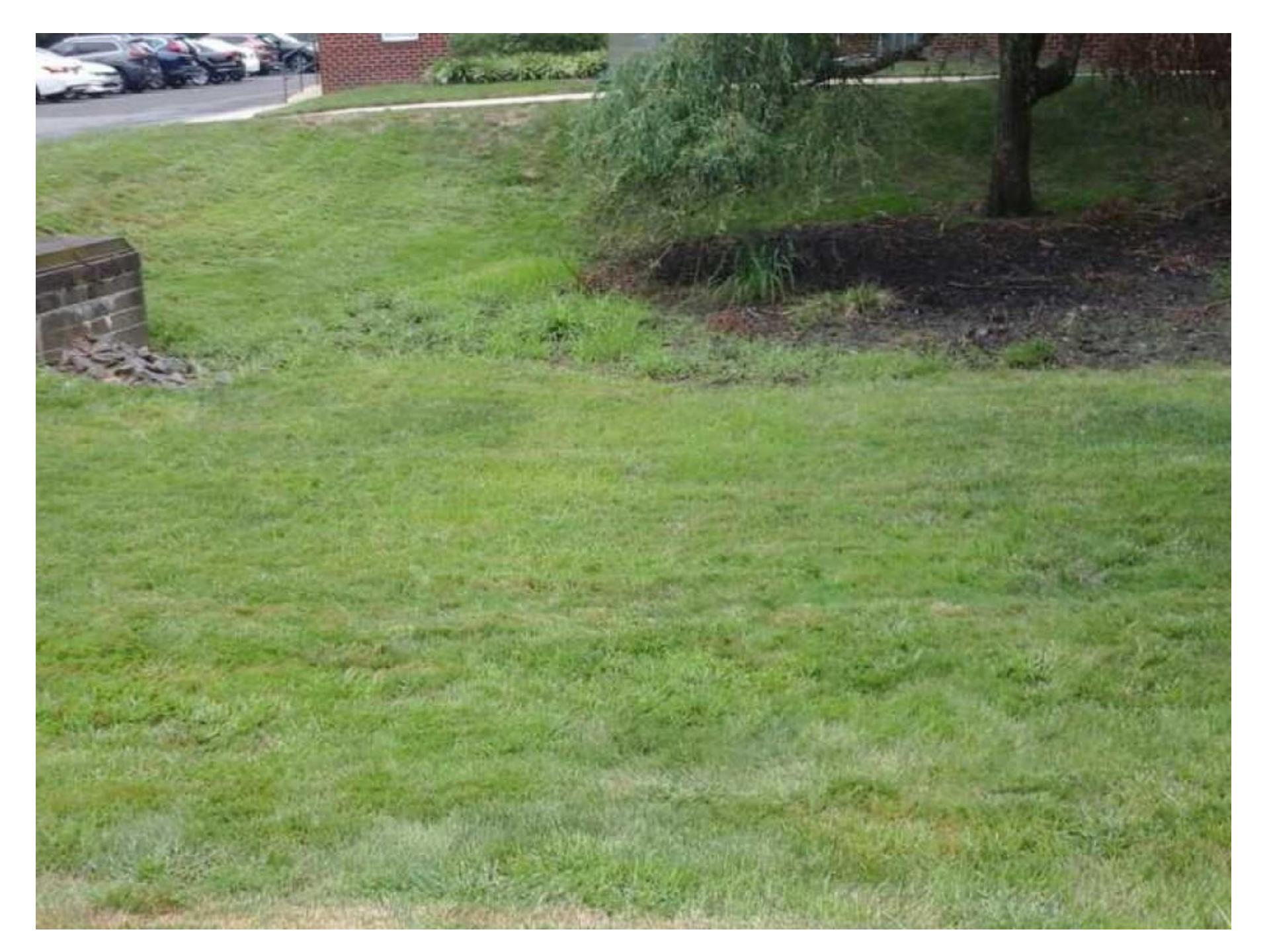
Trenton, NJ 08619







123. Whitehorse Professional Building Detention Basin



- Three curb cuts leading into the basin
- Low flow outlet blocked by riprap, should be redistributed

Hamilton Township Stormwater Basin Assessment 124. Clare Bridge Detention Basin

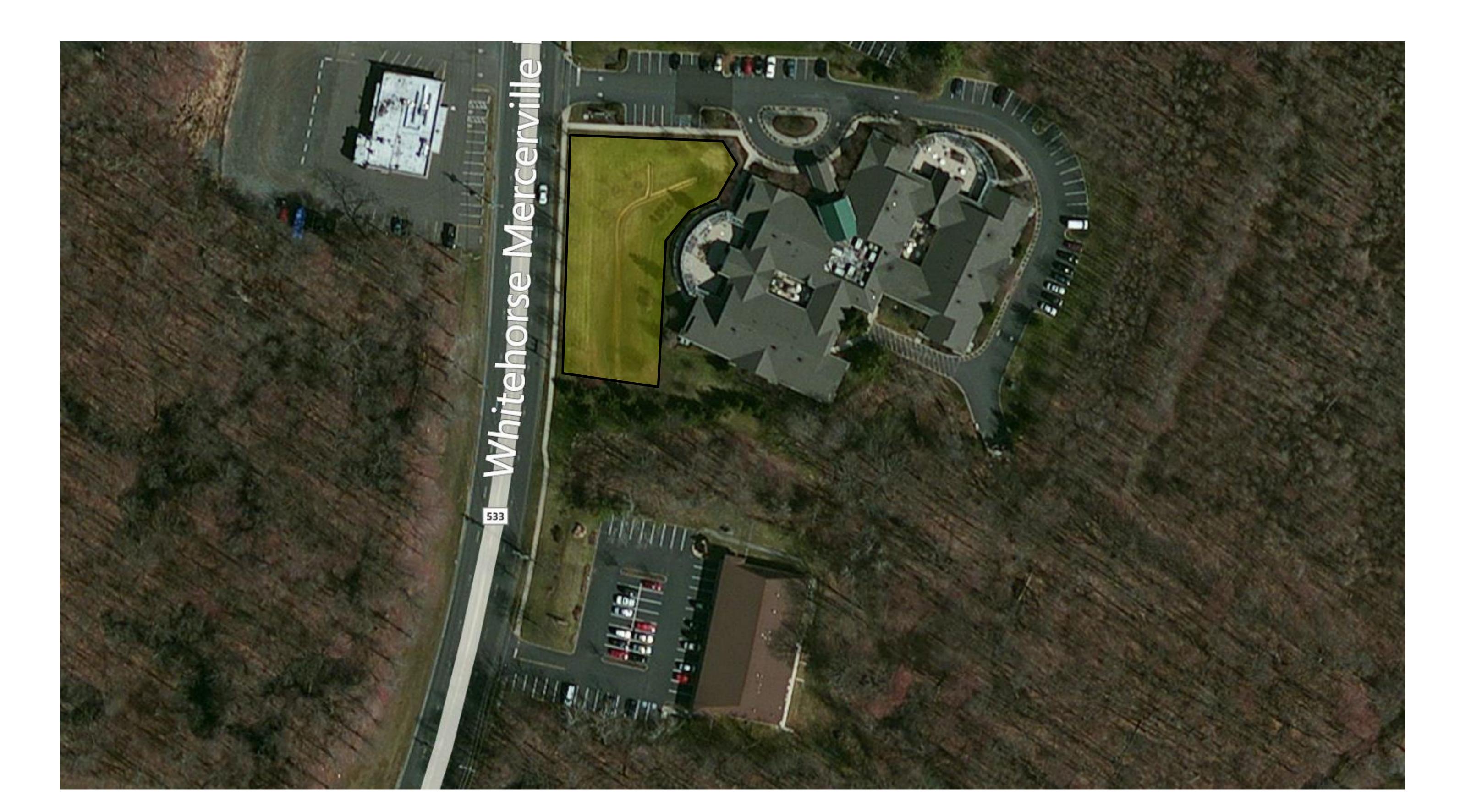
Address:

1673 Whitehorse Mercerville Rd Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 124. Clare Bridge Detention Basin

Address: 1673 Whitehorse Mercerville Rd Trenton, NJ 08619









Concrete deterioration on eastern inlet



Clogged outlet low flow orifice



Basin bottom looking south



Bare and muddy southern section of basin

- Most eastern inlet has concrete deterioration with reinforcement showing
- There is excess sediment and leaves accumulated in the low flow channel and outlet orifice causing excessive ponding
- Southern end is primarily bare and muddy

Hamilton Township
Stormwater Basin Assessment

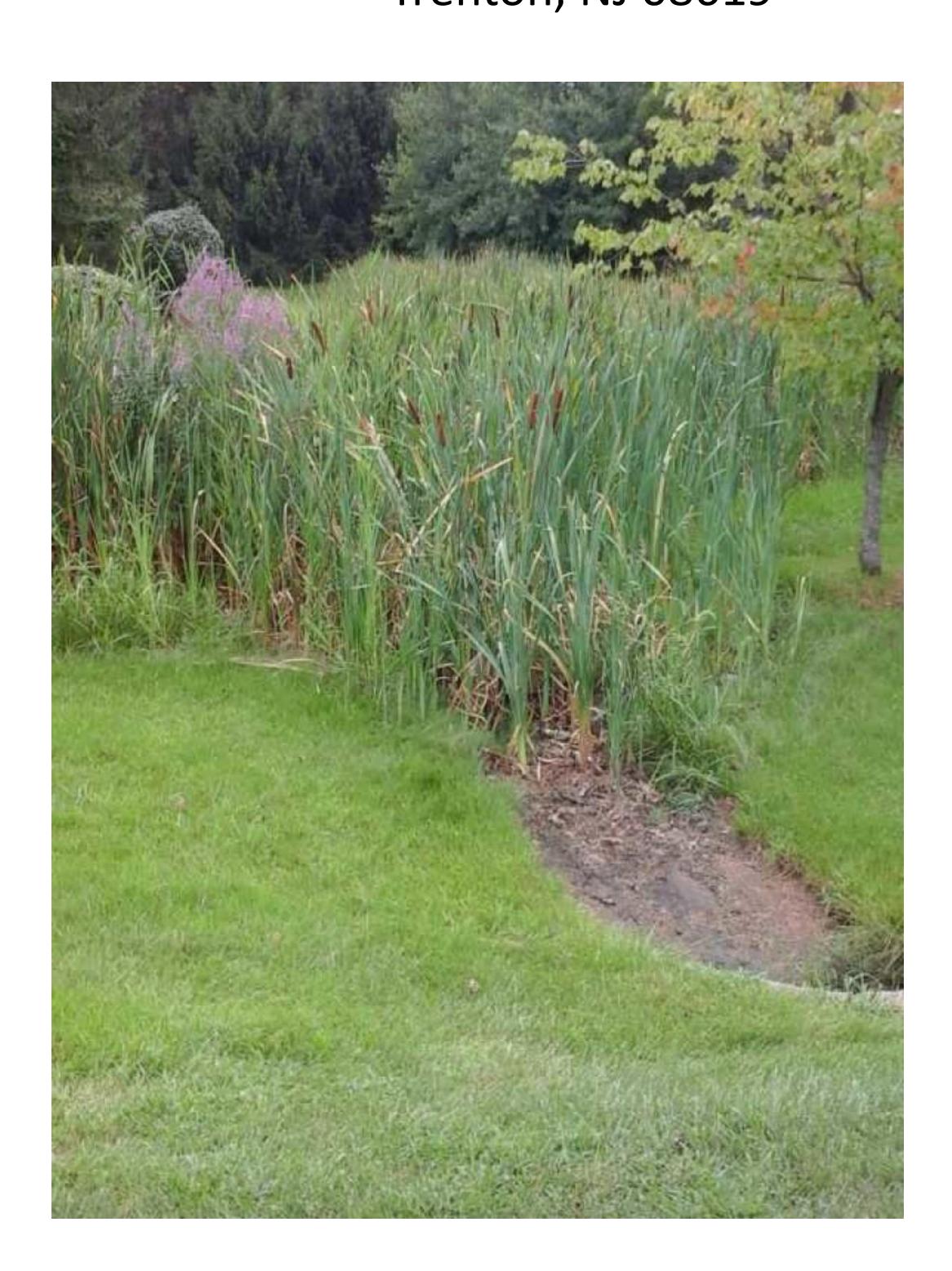
124. Clare Bridge Detention Basin

Address: 1673 Whitehorse Mercerville Rd Trenton, NJ 08619









- Basin looks to be in better condition than 2013 overall
- Basin center allowed to naturalize, appears to have reduced some issues, low flow channel should be removed from a proper naturalization
- Clean oil existing in inlet with standing water under it

Hamilton Township
Stormwater Basin Assessment
125. Capital Health Detention Basin

Address:

1407 Whitehorse Mercerville Rd Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 125. Capital Health Detention Basin



Basin bottom looking north



Algal growth in low flow channel

Address:

1407 Whitehorse Mercerville Rd Trenton, NJ 08619









Outlet structure

- Standing water with algal growth in low flow channel
- Outlet has some breakage and the low flow orifice is crudely cut out, needs a restrictor plate
- Outlet has a metal plate bolted on top of the emergency overflow, this should be replaced with a grate

Hamilton Township Stormwater Basin Assessment 125. Capital Health Detention Basin

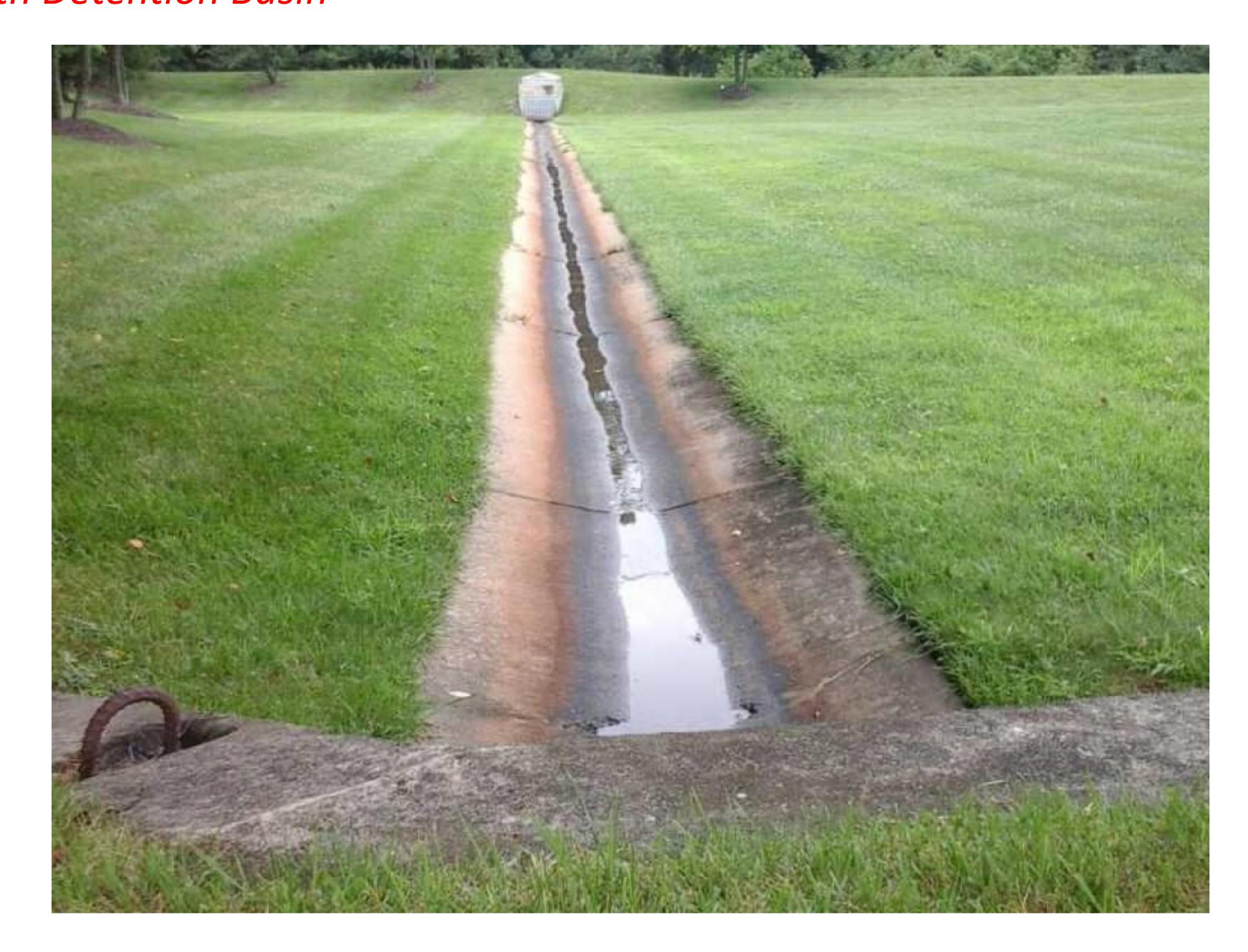
Address:







1407 Whitehorse Mercerville Rd Trenton, NJ 08619



- Two inlets with low flow channel
- Standing water in low flow channel
- Opportunity to remove low flow channel to remove standing water issues
- Naturalize with herbaceous plants

Hamilton Township
Stormwater Basin Assessment
127. YMCA Detention Basin (b)

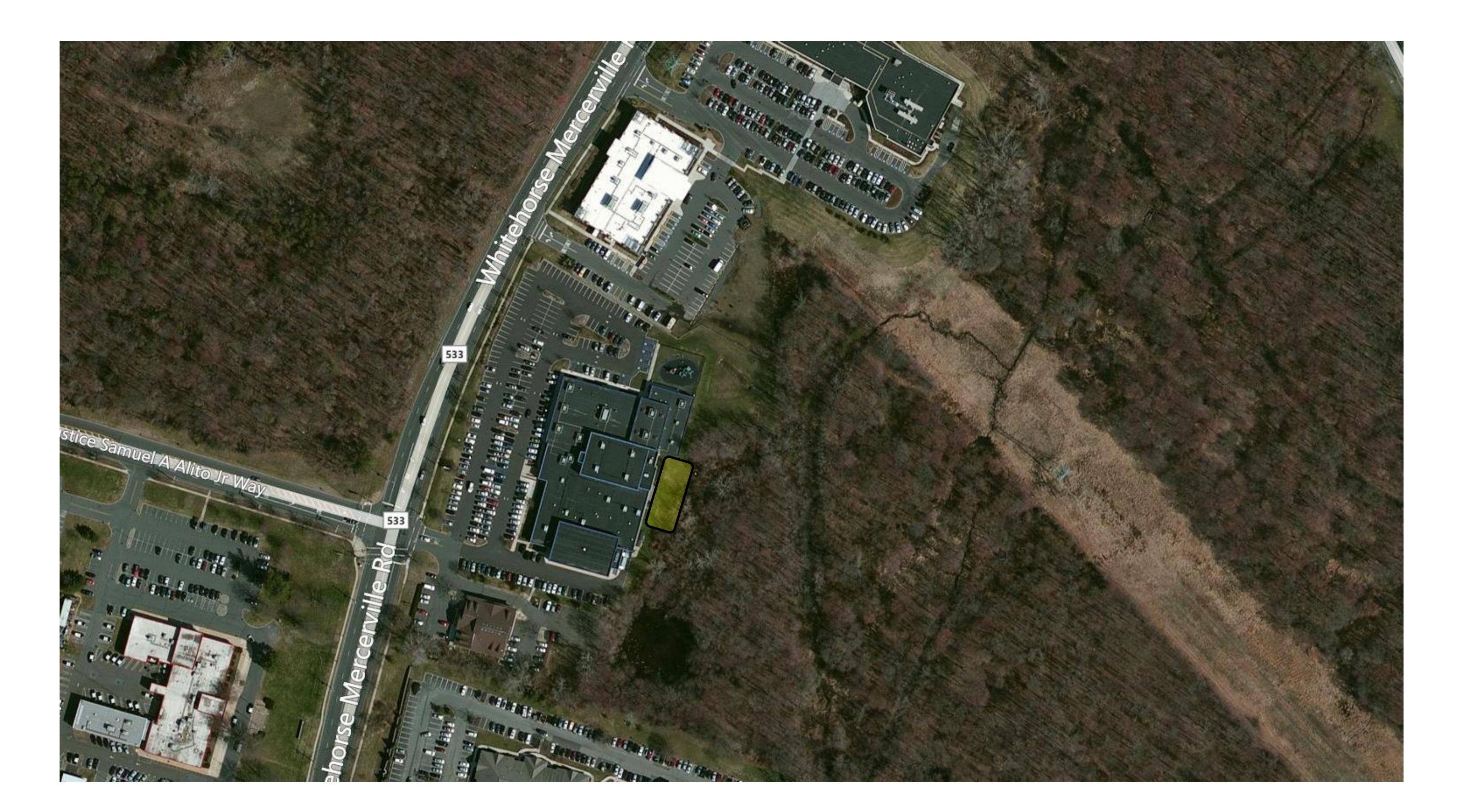
Address:

1323 Whitehorse Mercerville Rd Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 127. YMCA Detention Basin (b)



Outlet structure



Erosion in front of inlet

Address:

1323 Whitehorse Mercerville Rd Trenton, NJ 08619









Basin bottom looking northeast

- There is excess sediment accumulated and standing water in the low flow channel
- There are signs of erosion around headwall inlets
- There is groundwater intrusion that is causing a continuous flow
- Excessive plant growth around southern inlet and the outlet structure

Hamilton Township Stormwater Basin Assessment 127. YMCA Detention Basin (b)



Address:

1323 Whitehorse Mercerville Rd Trenton, NJ 08619









- Two inlets with low flow channel
- Standing water in low flow channel
- Opportunity to remove low flow channel to remove standing water issues
- Naturalize with herbaceous plants

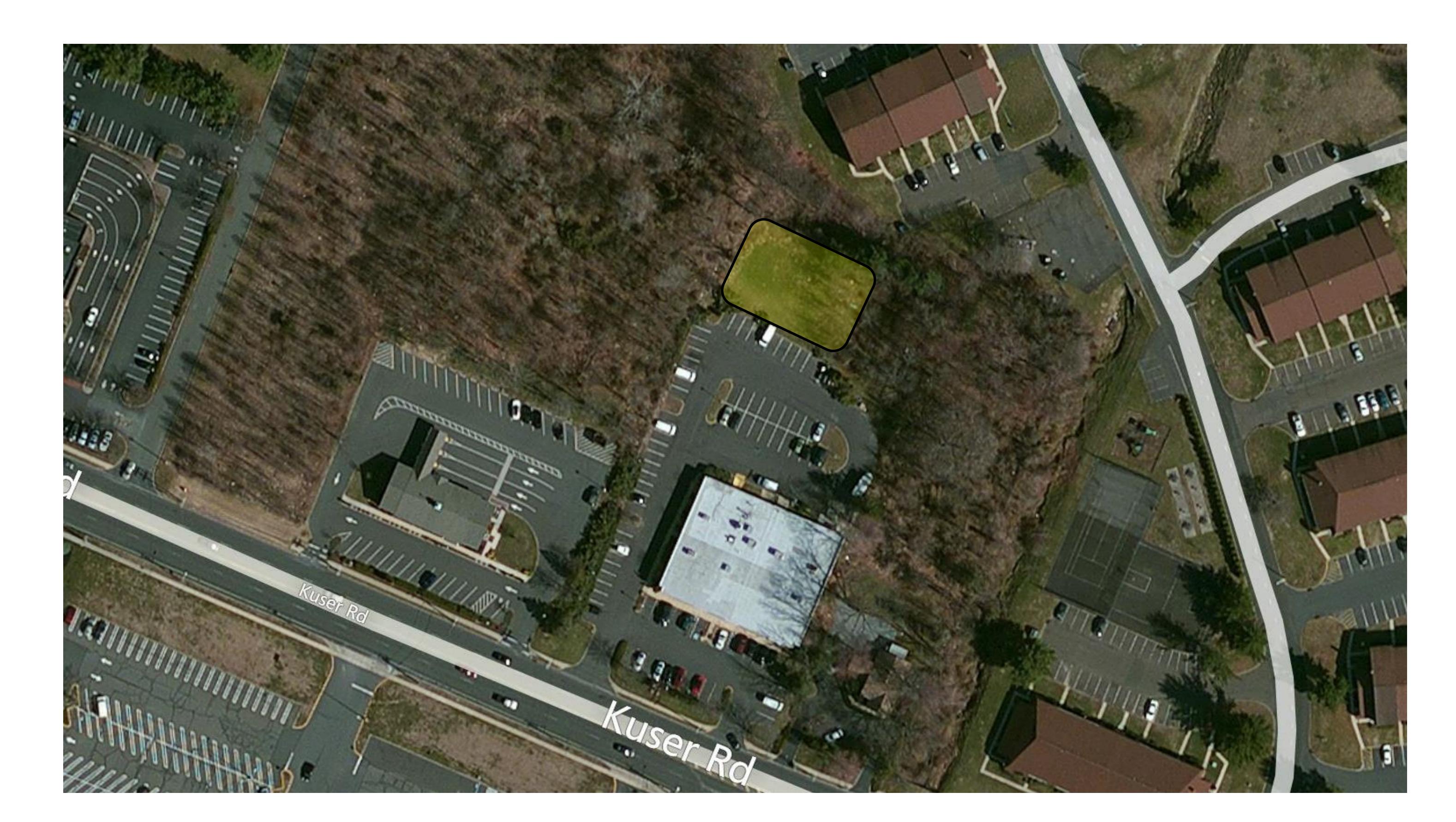
Hamilton Township
Stormwater Basin Assessment
131. Tile Shop Detention Basin

Address: 1702 Kruser Rd Trenton, NJ 08690









Hamilton Township Stormwater Basin Assessment 131. Tile Shop Detention Basin



Area where basin discharges to woods



Ponding with algae growth

Address: 1702 Kruser Rd Trenton, NJ 08690









Basin bottom looking northeast

- Small pond with excessive algae growth
- Not able to find inlets or outlets, discharges to wooded area
- Water is stagnant, potential for mosquito breeding

Hamilton Township Stormwater Basin Assessment 131. Tile Shop Detention Basin Address: 1702 Kruser Rd Trenton, NJ 08690









- Area appears to have been recently cleared and cleaned out
- No standing water observed
- Continue to monitor to ensure alterations have resolved issues
- Basin could be naturalized with herbaceous plants

Address: 1305 Kruser Rd Trenton, NJ 08619







132 & 133. Princeton Women's Services Detention Basins



Address: 1305 Kruser Rd Trenton, NJ 08619







132 & 133. Princeton Women's Services Detention Basins



Overgrown outlet



Basin #133 looking north



Erosion and breakage at inlet



Basin #132 looking northwest

- Basin 132 and 133 are tied together
- Curb cut inlets have breakage along asphalt and concrete slabs
- Outlets in both basins are overgrown and are clogged with debris and sediment

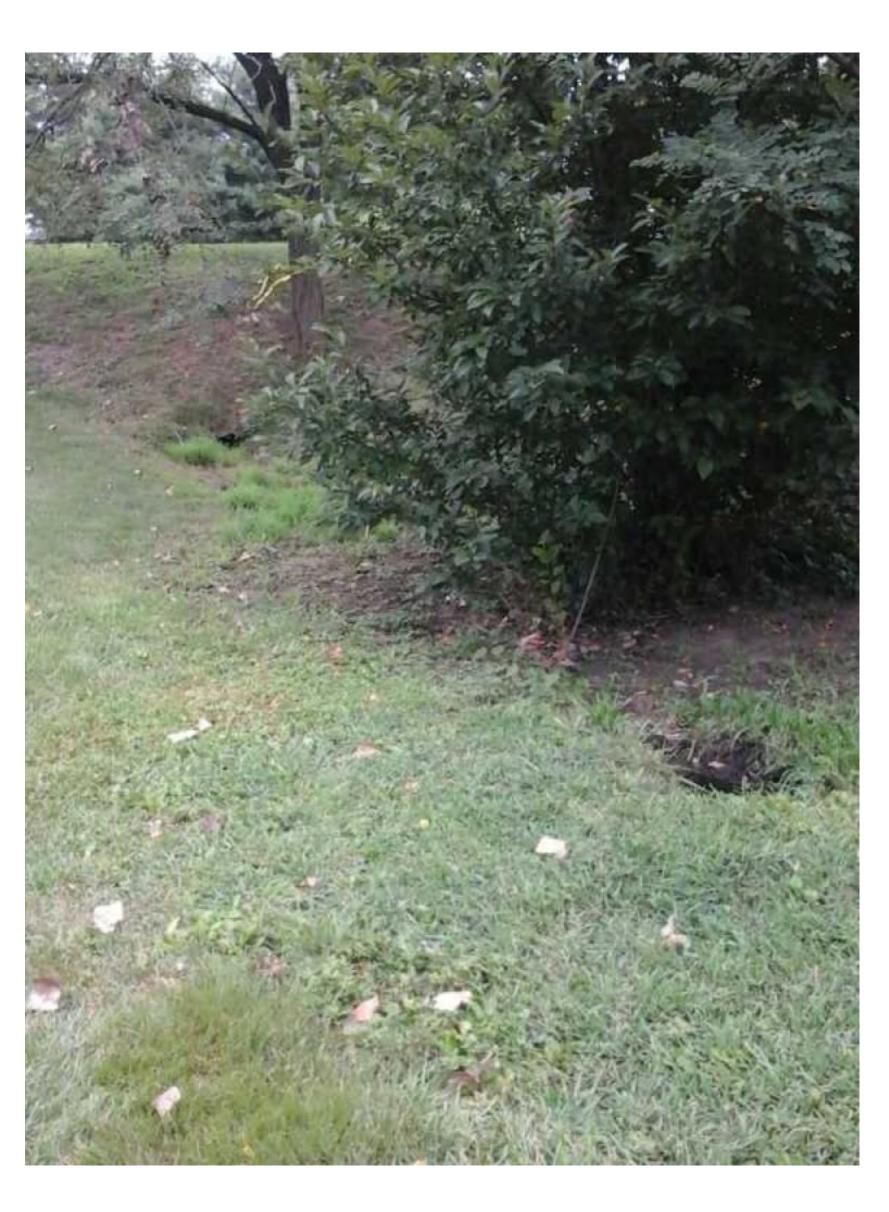
132 & 133. Princeton Women's Services Detention Basins

Address: 1305 Kruser Rd Trenton, NJ 08619

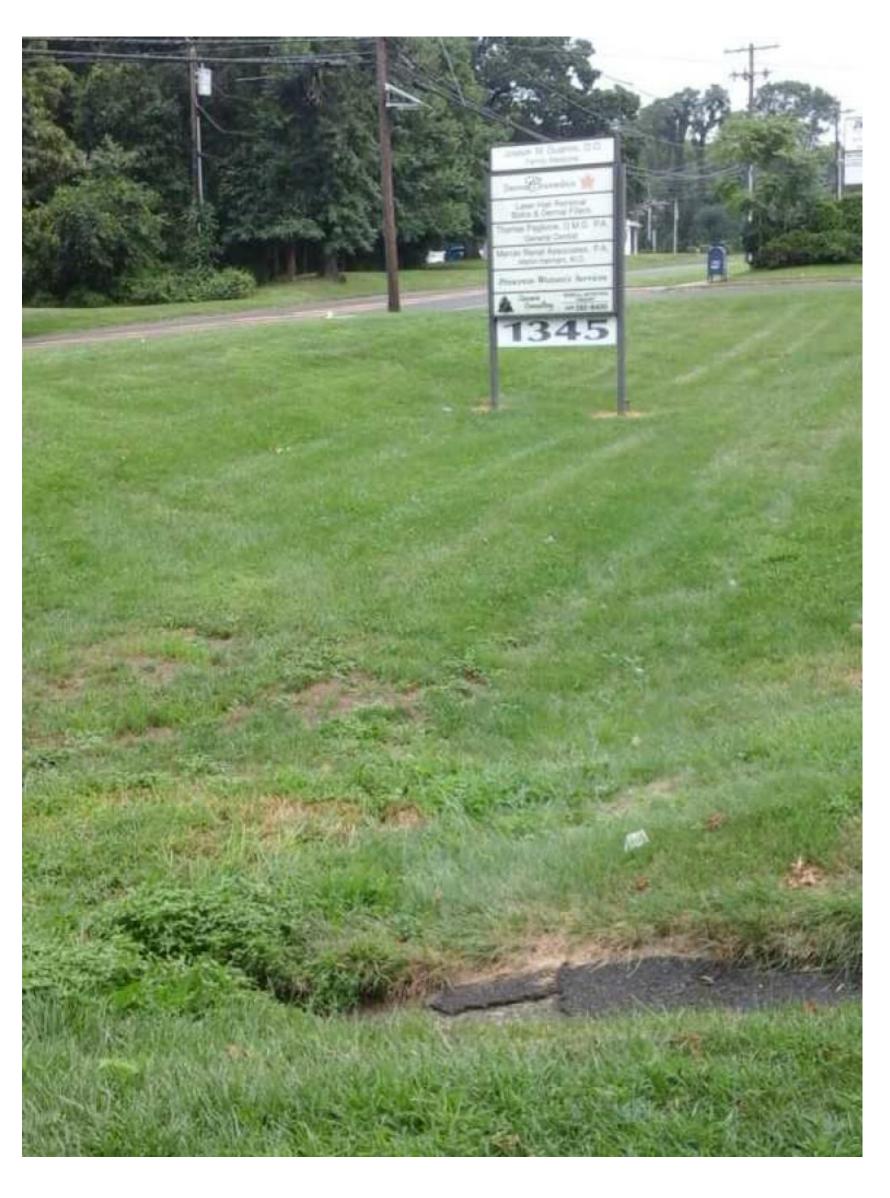








Basin #132



Basin #133

- Areas do not appear to have a proper outlet structure and were built before 1979,
 so areas may just be for conveyance
- Naturalize area with herbaceous plants
- Convert to proper detention basin system for better stormwater management

Hamilton Township
Stormwater Basin Assessment

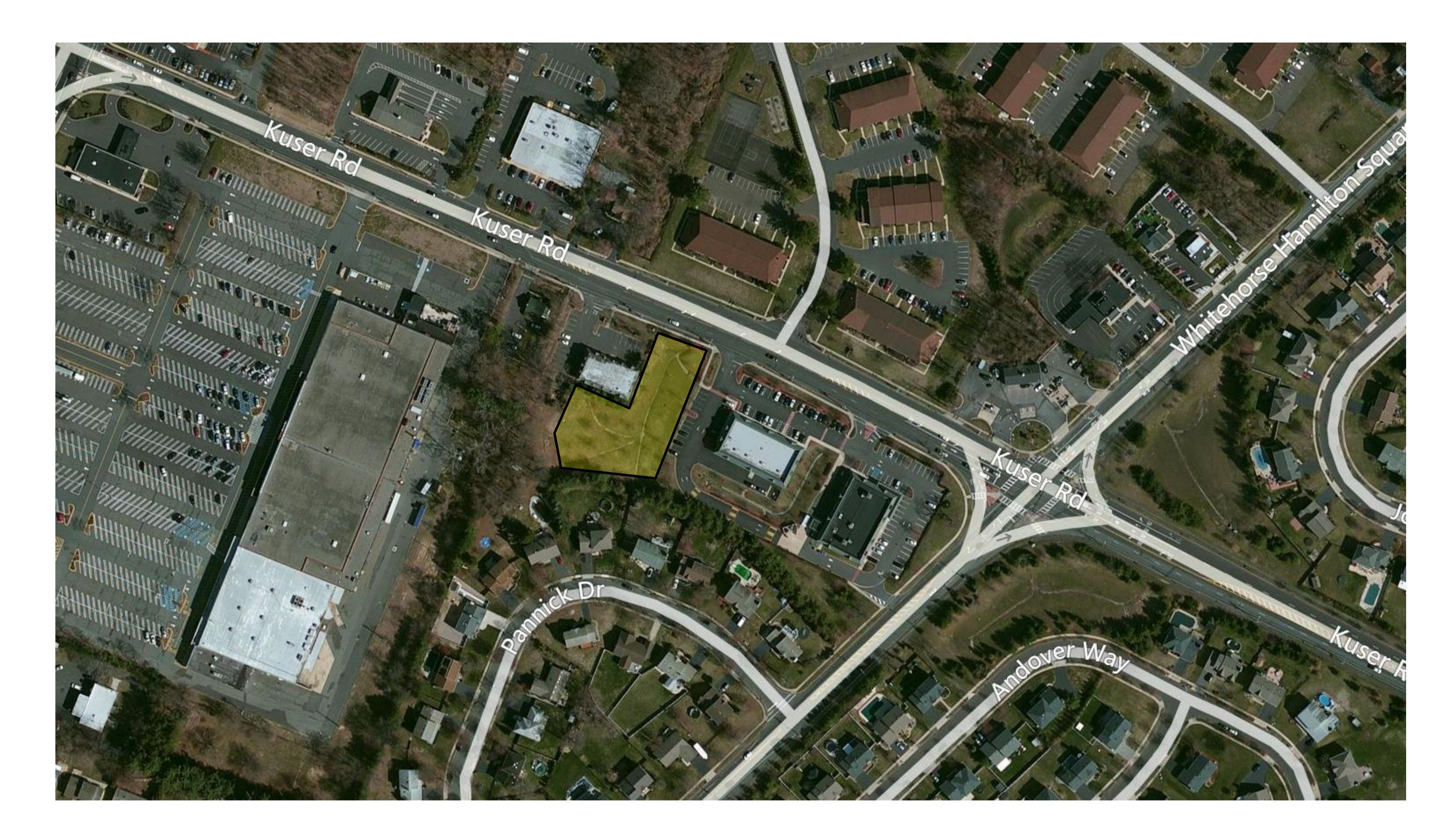
134. Monro Muffler Detention Basin

Address: 1763 Kruser Rd Trenton, NJ 08619









Hamilton Township Stormwater Basin Assessment 134. Monro Muffler Detention Basin



Overgrown southern inlet

Address: 1763 Kruser Rd Trenton, NJ 08619









Sediment accumulation in low flow channel



Outlet structure



Basin bottom looking north

- There is excess sediment accumulated in the low flow channel
- Southern inlet has erosion in surrounding rip rap and is overgrown on the west side
- The northeastern inlet has concrete deterioration on its Flared End Section (FES) and the northwestern inlet has rip rap restricting the flow of water
- The outlet low flow orifice is clogged with sediment, the primary weir could use a trash rack to prevent failures

Hamilton Township Stormwater Basin Assessment 134. Monro Muffler Detention Basin

Address: 1763 Kruser Rd Trenton, NJ 08619









- Low flow channel largely filled with sediment
- Either clear low flow channels or replace with rock channel

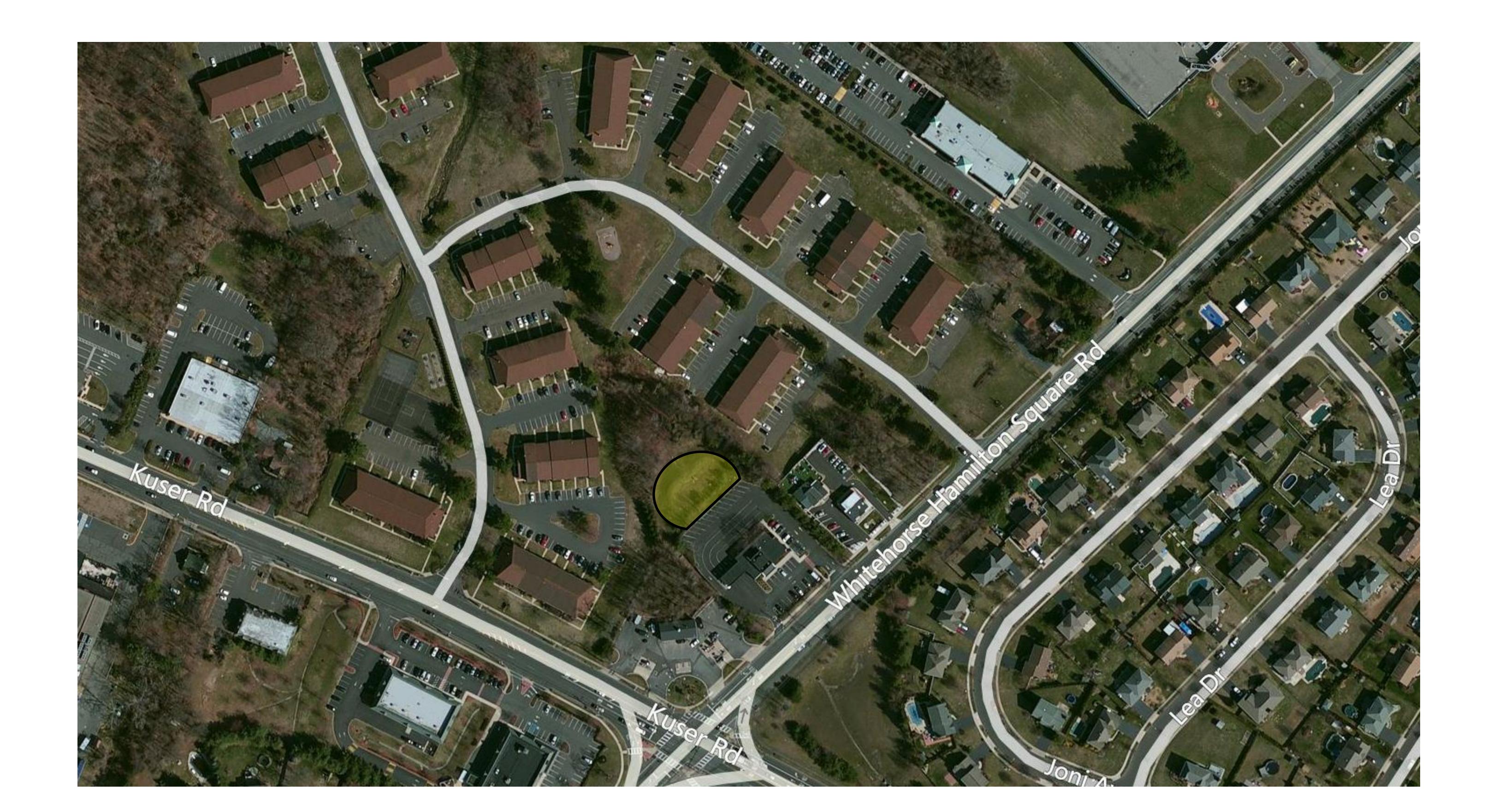
Hamilton Township
Stormwater Basin Assessment
135. TD Bank Detention Basin

Address:

1134 Whitehorse Hamilton Square Rd Trenton, NJ 08690







Hamilton Township Stormwater Basin Assessment 135. TD Bank Detention Basin



Outlet structure



Inlet structure

Address:







1134 Whitehorse Hamilton Square Rd Trenton, NJ 08690



Basin bottom looking northeast

- The basin has standing water, excess sediment accumulation, and areas of exposed earth
- The inlet has breakage and gullying
- The outlet low flow orifice is clogged with sediment and debris

Hamilton Township Stormwater Basin Assessment 135. TD Bank Detention Basin Address:

1134 Whitehorse Hamilton Square Rd Trenton, NJ 08690







- Grass clippings in basin clogging low flow orifice
- Naturalize with herbaceous plants

Hamilton Township
Stormwater Basin Assessment
139. Care One Detention Basin

Address:

1580 Whitehorse Hamilton Square Rd Trenton, NJ 08690







Hamilton Township Stormwater Basin Assessment 139. Care One Detention Basin



Inlet structure



Outlet structure

Address:

1580 Whitehorse Hamilton Square Rd









Basin bottom looking northwest

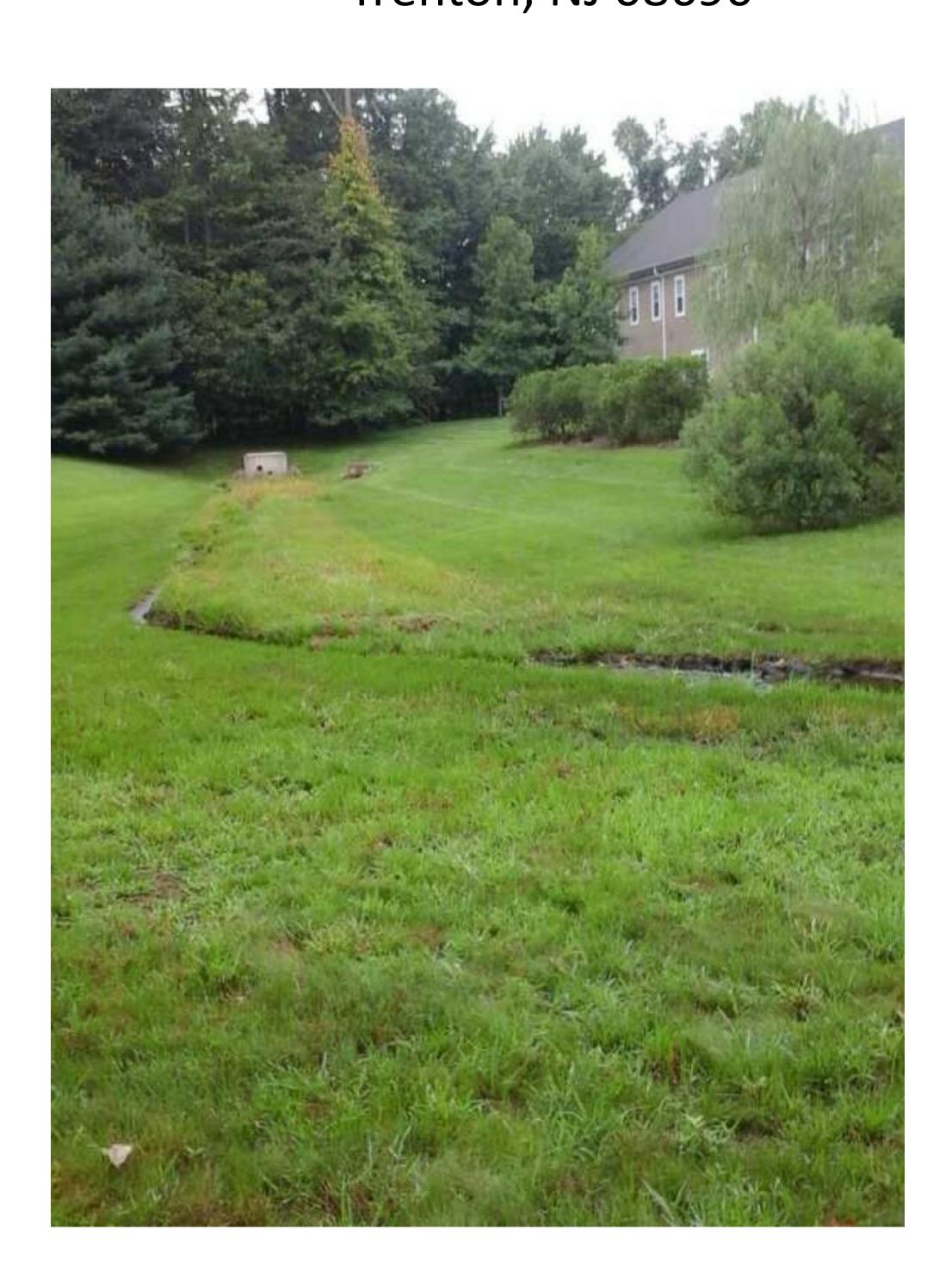
- Standing water in basin bottom with algal growth
- Trash rack for outlet structure is broken off
- Outlet low flow orifice is clogged with sediment and leaves, restricting the flow of water
- The inlets have some breakage and debris accumulation restricting the flow of water

Hamilton Township
Stormwater Basin Assessment
139. Care One Detention Basin

Address: 1580 Whitehorse Hamilton Square Rd Trenton, NJ 08690







- Severe standing water problem observed in previous assessment not observed
- Low flow channel has significant sediment build up and vegetation leading to standing water in the channel
- Opportunity to remove replace channel with stone to allow more infiltration in small storm events

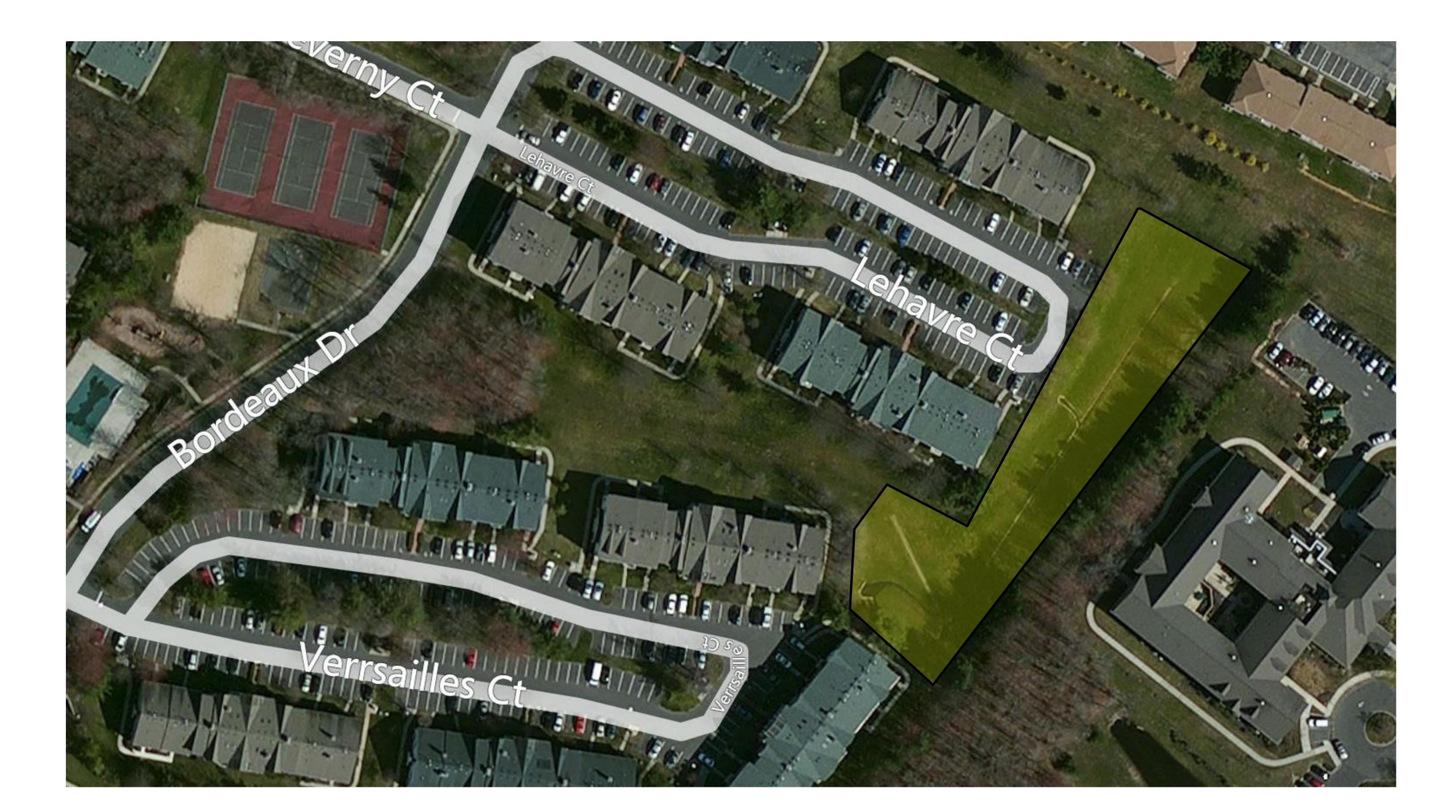
Hamilton Township Stormwater Basin Assessment 140. Lehavre Court Residential Detention Basin Trenton, NJ 08690

Address: Lehavre Ct









Address:
Lehavre Ct
Trenton, NJ 08690







140. Lehavre Court Residential Detention Basin



Excess sediment in low flow channels



Slumping behind outlet structure



Sediment accumulated in front of inlet



Outlet structure

- There is excess sediment accumulated in the low flow channel, in front of inlets, and in the outlet low flow orifice
- There is slumping at the base of the outlet structure
- There is groundwater intrusion in northern end of basin resulting in a continuous flow of water

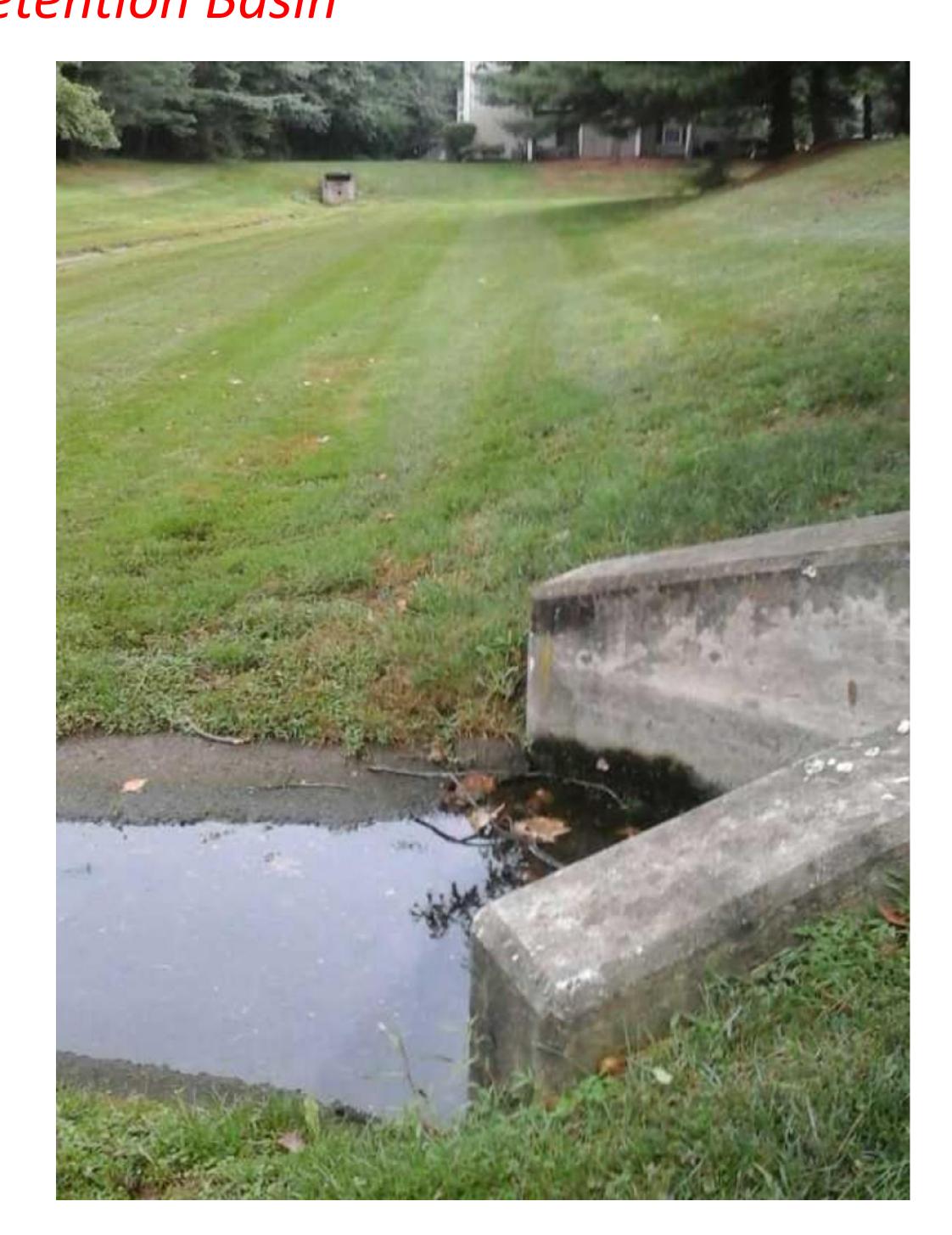
Hamilton Township Stormwater Basin Assessment 140. Lehavre Court Residential Detention Basin Trenton, NJ 08690

Address: Lehavre Ct









- Well maintained and mowed basin
- Some standing water in low flow channel
- Opportunity to naturalize and incorporate a stone channel

Hamilton Township
Stormwater Basin Assessment

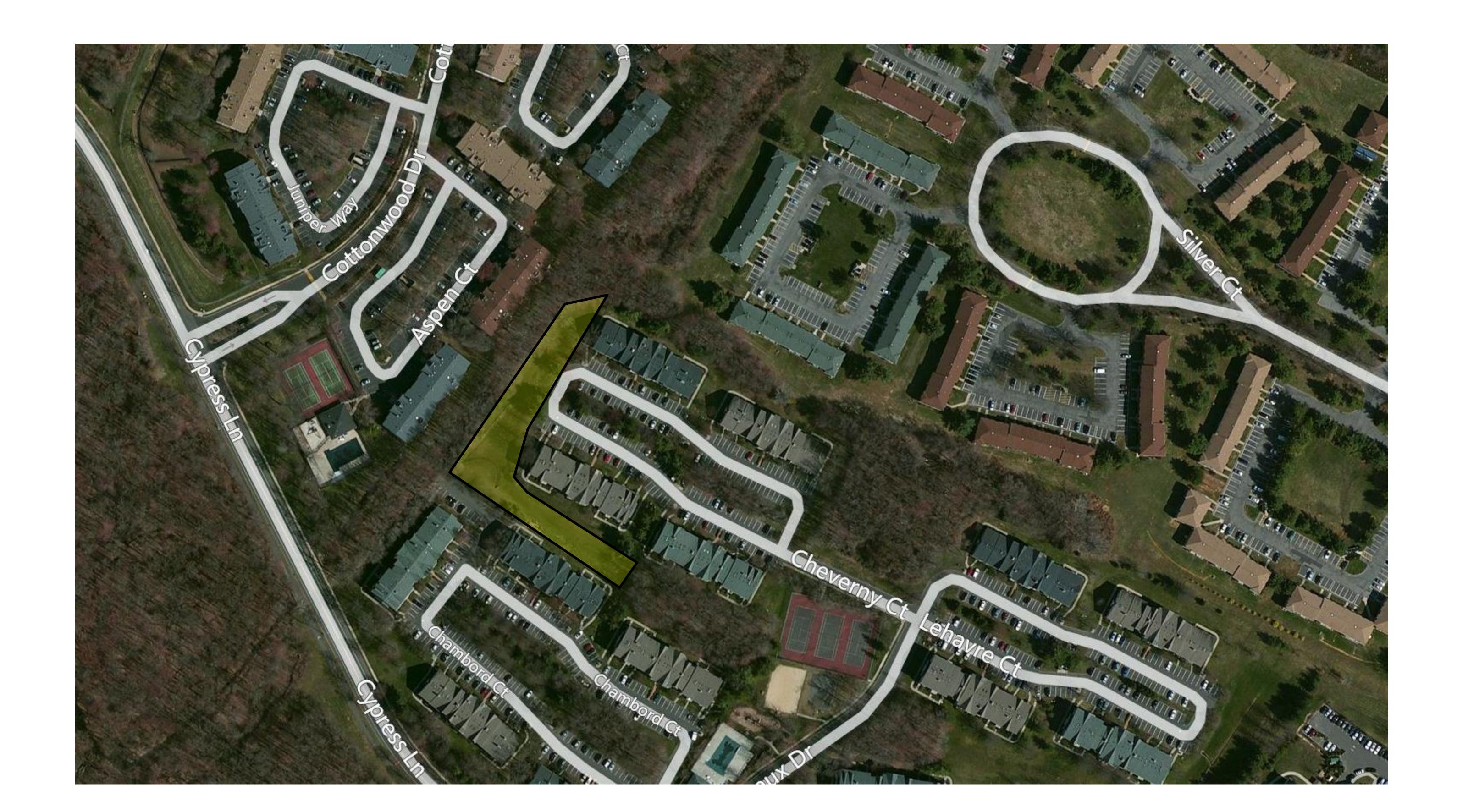
141. Cheverny Court Residential Detention Basin

Address:
Cheverny Ct
Trenton, NJ 08690









141. Cheverny Court Residential Detention Basin



Sediment accumulated in front of outlet



Excess sediment in low flow channel

Address:

Cheverny Ct Trenton, NJ 08690









Basin bottom looking southeast

- There is excess sediment accumulated and standing water in the low flow channel
- There are tread marks in the basin bottom
- Outlet low flow orifice is clogged with sediment, restricting the flow of water
- The inlets have grass clippings and sediment restricting the flow of water

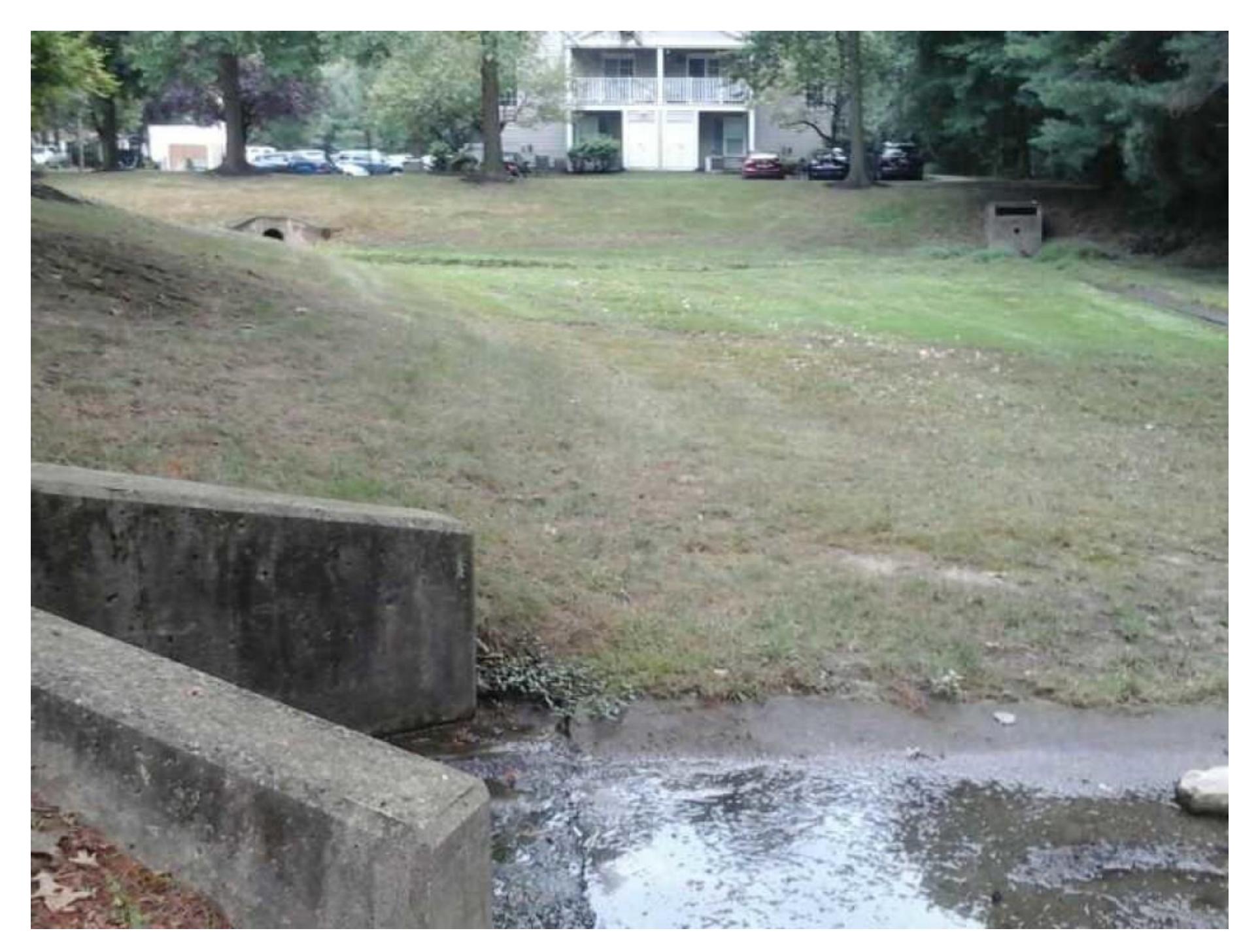
Address:
Cheverny Ct
Trenton, NJ 08690







141. Cheverny Court Residential Detention Basin



- Significant standing water in low flow channel likely caused by blockages in the low flow orifice at the outlet
- Clear outlet structure and replace low flow with stone channel to allow infiltration

Hamilton Township Stormwater Basin Assessment 147. Campus Eye Group Detention Basin

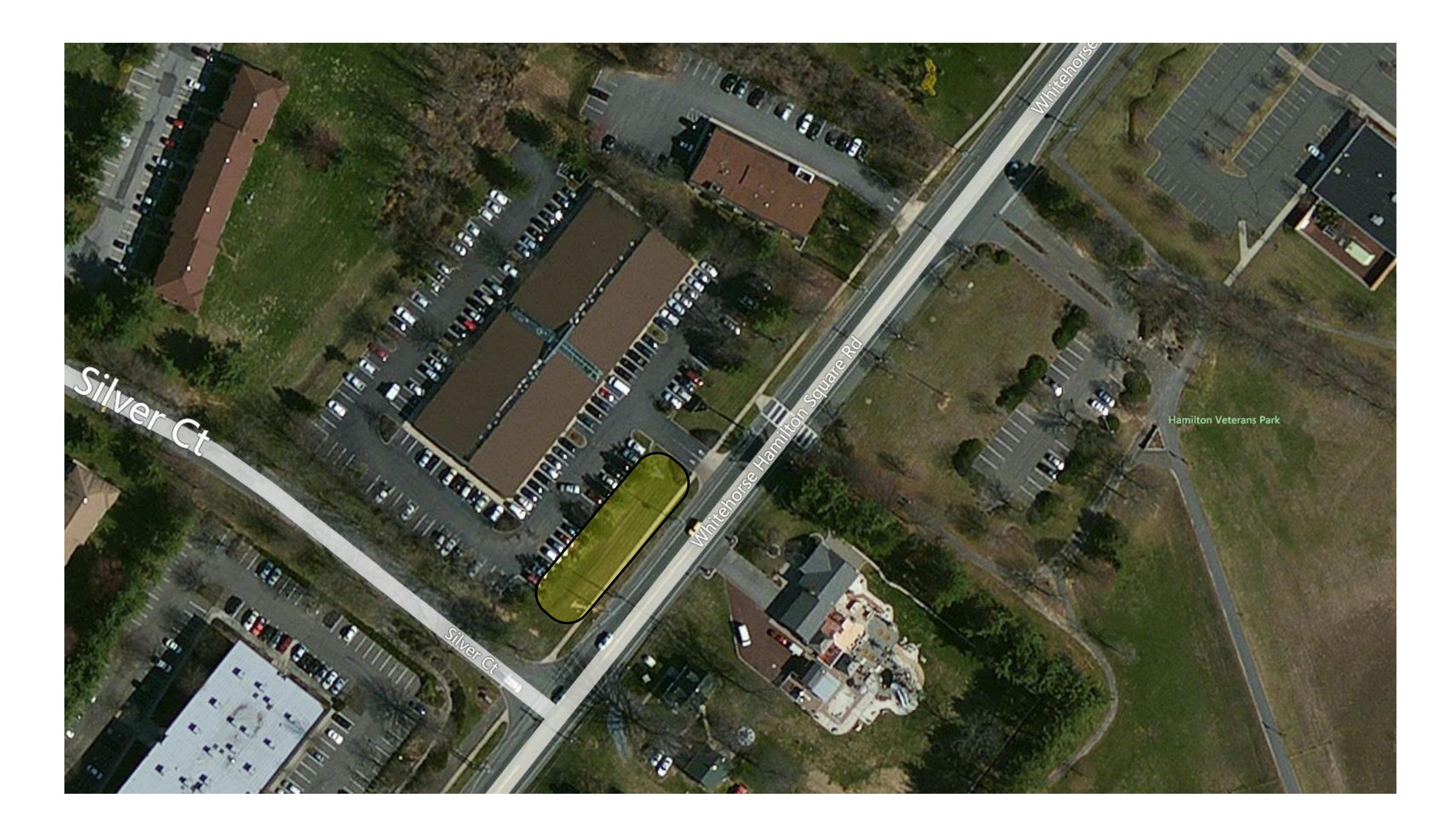
Address:

1746 Whitehorse Hamilton Square Rd Trenton, NJ 08690





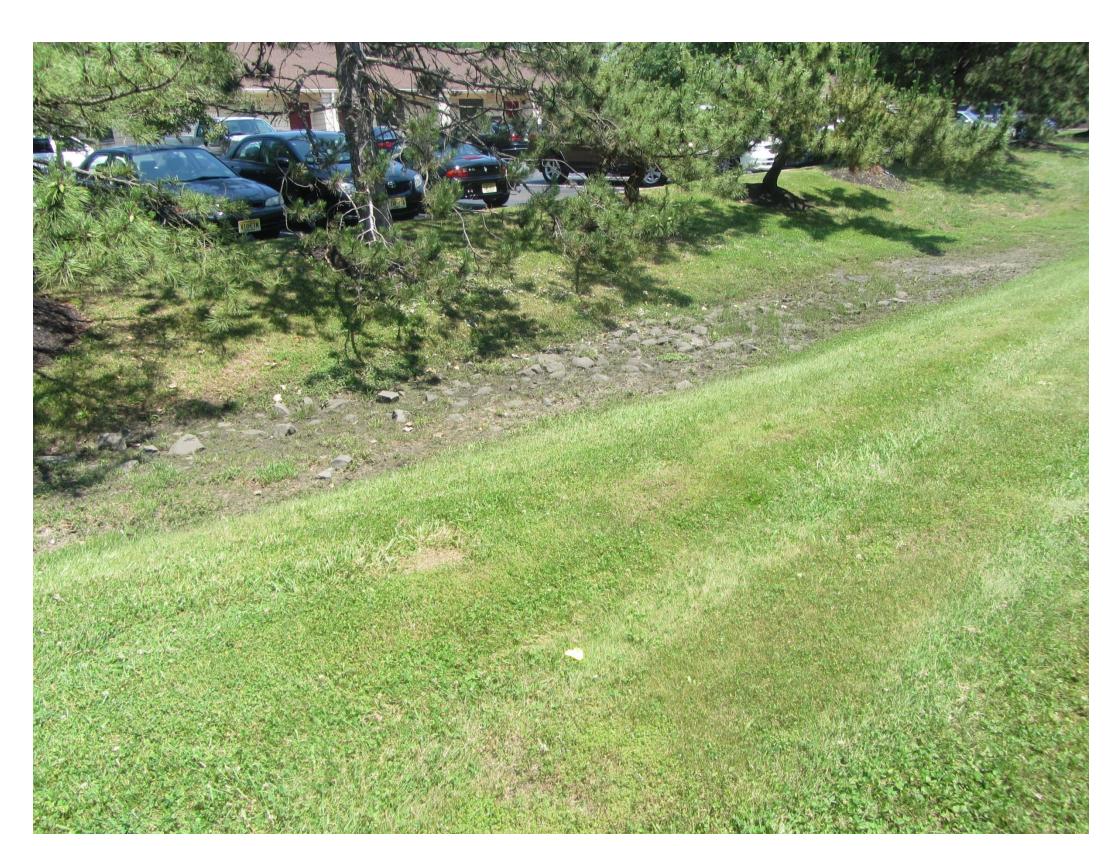




Hamilton Township Stormwater Basin Assessment 147. Campus Eye Group Detention Basin



Outlet pipe



Basin bottom looking north

Address:

1746 Whitehorse Hamilton Square Rd Trenton, NJ 08690









Erosion at curb cut inlet

- The basin allows infiltration of stormwater
- Curb cut inlet has severe erosion and breakage
- Outlet pipe has breakage, there is debris and rip rap restricting the flow of water and woody tree growth in proximity of outlet

Address: 1746 Whitehorse Hamilton Square Rd









- Basin built between 1979-1997, so it may not be a proper detention basin
- Some erosion from parking lot inlet
- Area can be naturalized with herbaceous plants or retrofitted to a proper detention system

Hamilton Township Stormwater Basin Assessment 152. RWJ University Hospital Detention Basin (b)

Address: 63 Hamilton Health Pl Trenton, NJ 08690









152. RWJ University Hospital Detention Basin (b)

Address:

63 Hamilton Health Pl Trenton, NJ 08690









Standing water in low flow channels



Southern inlet structure



Outlet structure



Basin bottom looking southwest

- There is excess sediment accumulated and standing water in the low flow channels with algal growth
- Outlet structure has excessive plant growth around it and the low flow orifice is severely clogged, restricting the flow of water
- The southern inlet has some cracks and breakage

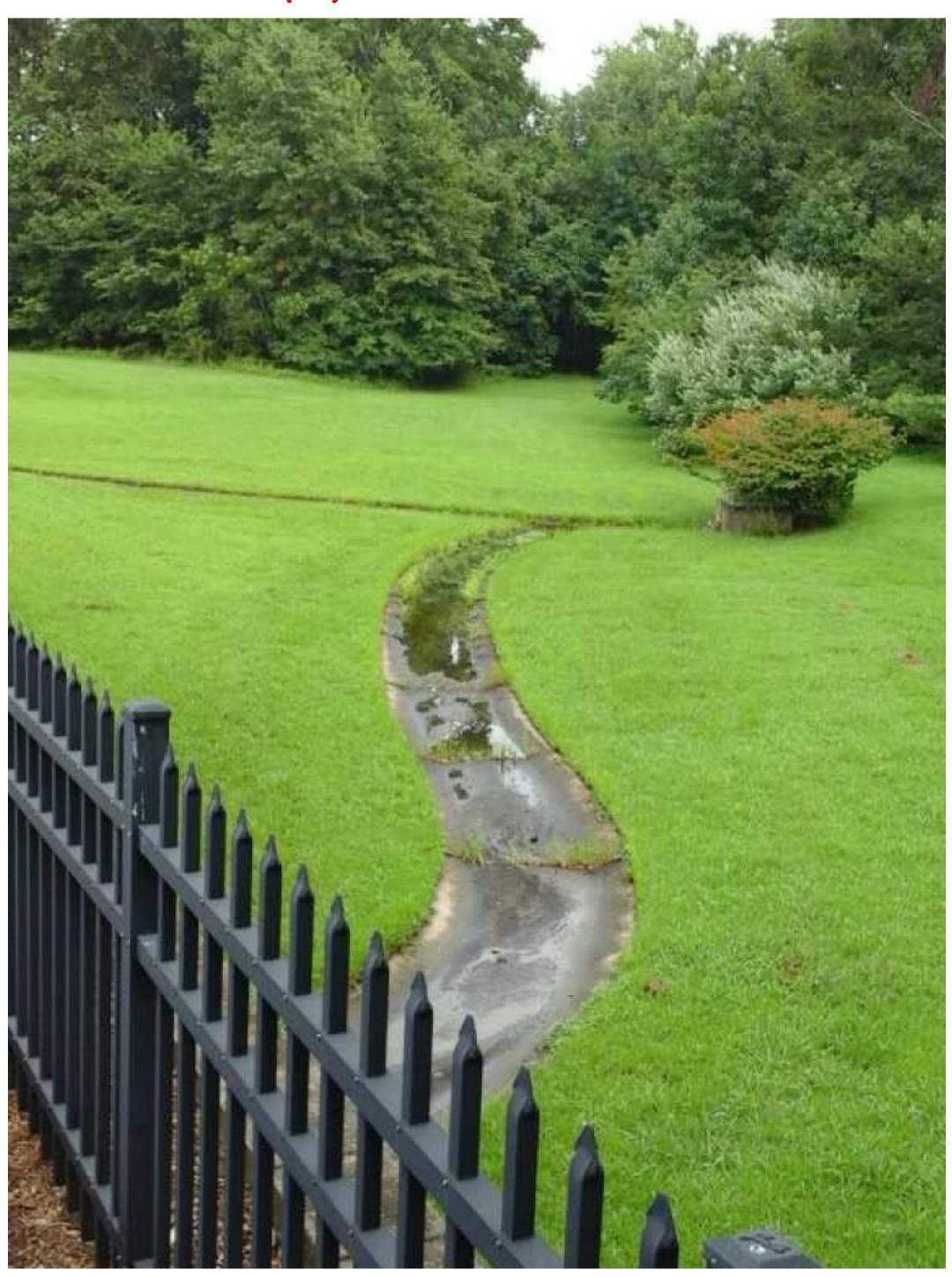
Address:
63 Hamilton Health Pl
Trenton, NJ 08690







152. RWJ University Hospital Detention Basin (b)



- Conditions appears somewhat improved from the conditions in 2013
- Sediment needs to be removed from the low channel as it is restricting flow
- Opportunity to replace low flow channel with rock channel

Hamilton Township
Stormwater Basin Assessment
153. Cancer Institute of NJ Detention Basin

Address:











Hamilton Health Pl & Klockner Rd Trenton, NJ 08690







153. Cancer Institute of NJ Detention Basin



Outlet structure



Address:

Slumping behind outlet



Exposed earth alongside low flow channel

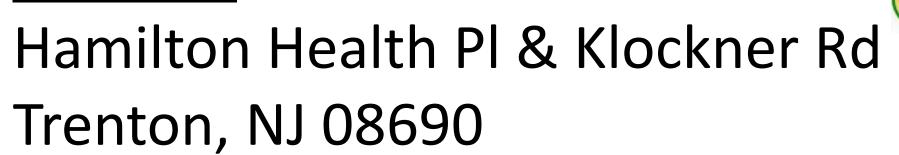


Basin bottom looking south

- There is sediment, debris, and leaves accumulated in the low flow channel with standing water, predominately in front of the outlet structure
- Outlet low flow orifice is severely clogged with sediment and leaves
- There is slumping around the base of the outlet structure
- There are areas of exposed earth adjacent to the low flow channels

Hamilton Township Stormwater Basin Assessment 153. Cancer Institute of NJ Detention Basin

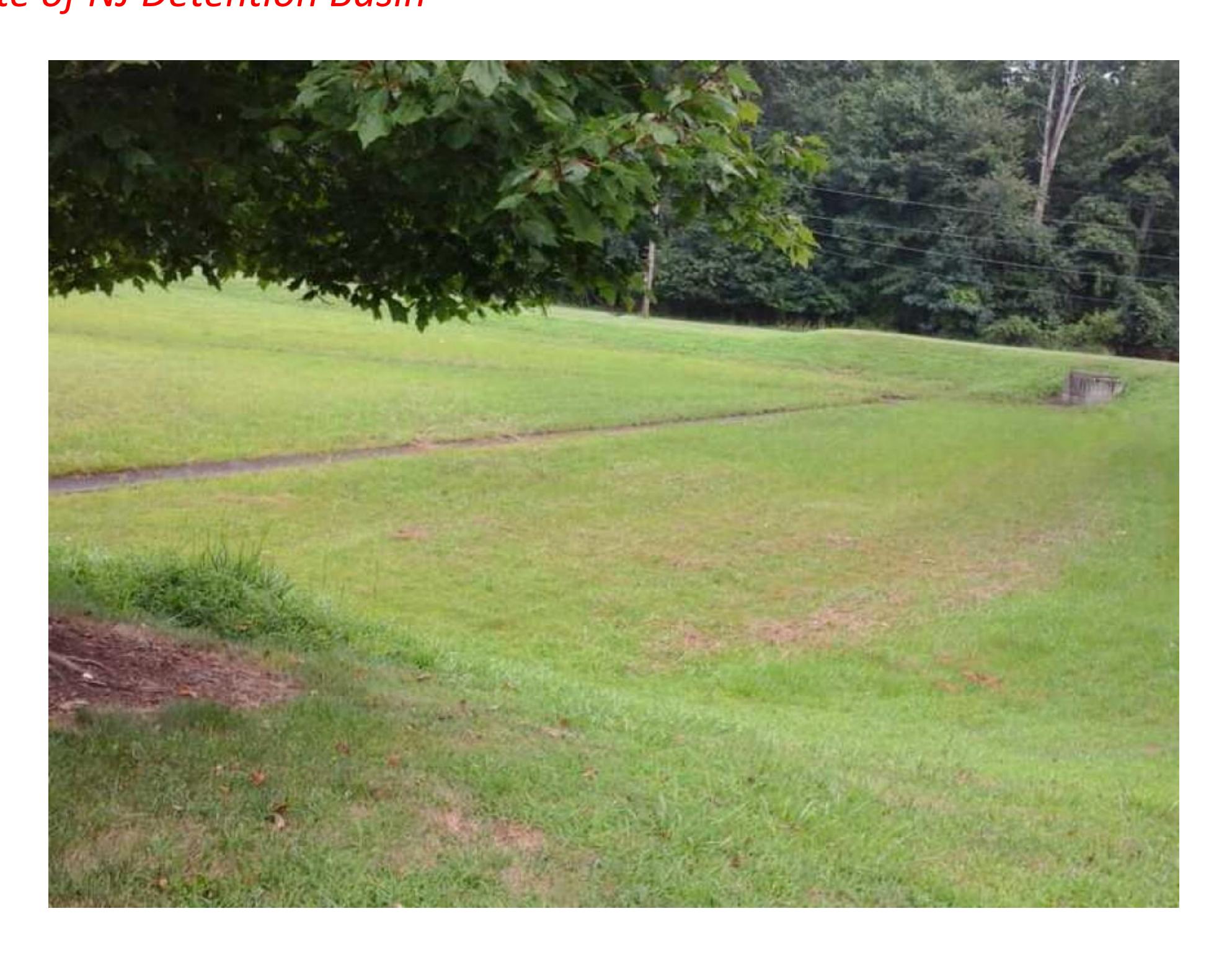
Address:











- There is sediment build up in the basin that should be removed
- Naturalize with herbaceous plants

Hamilton Township Stormwater Basin Assessment 165. Limewood Drive Residential Detention Basin

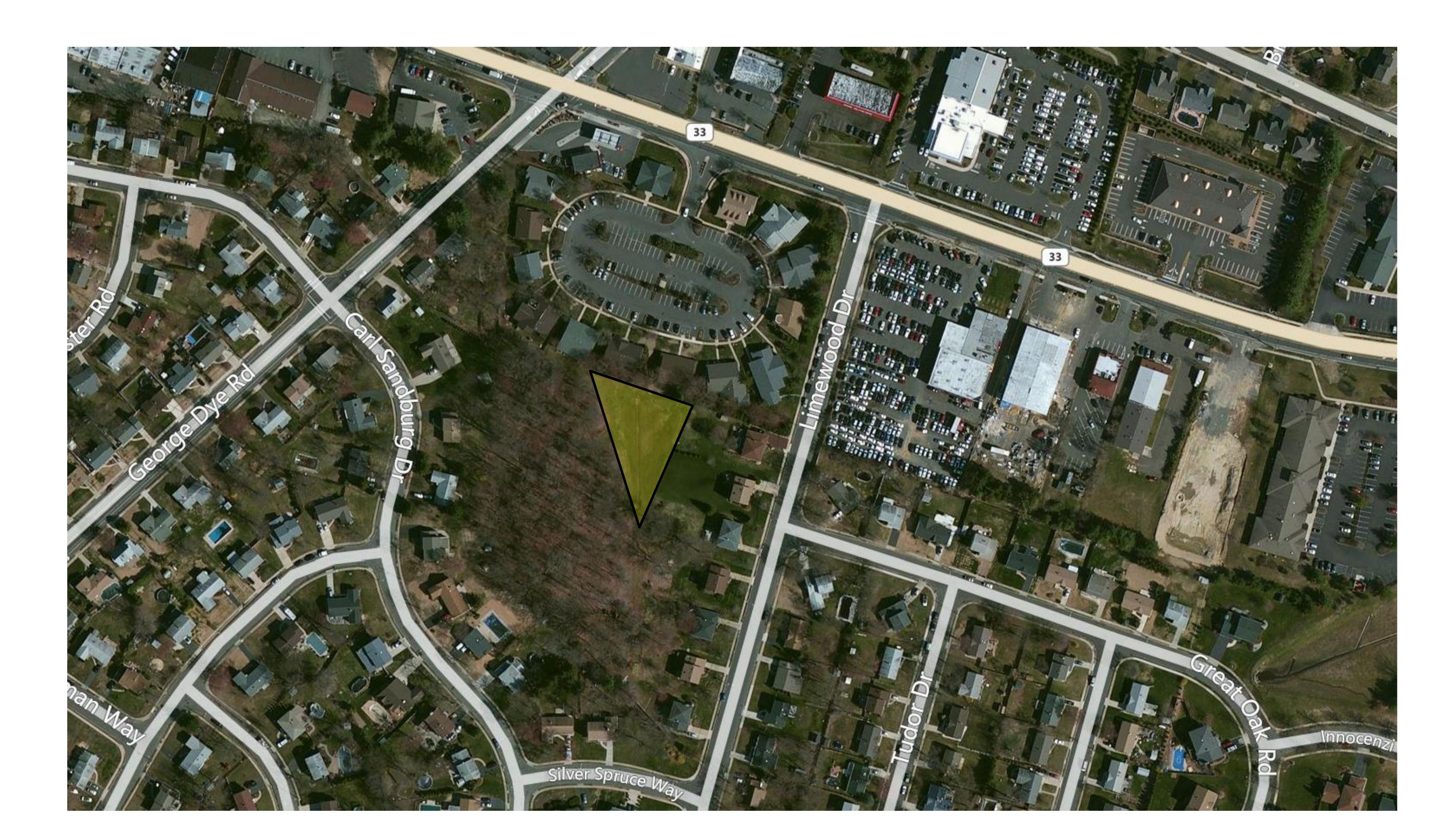
Address:

Limewood Dr and RT-33 Trenton, NJ 08690









Address: Limewood Dr and RT-33 Trenton, NJ 08690







165. Limewood Drive Residential Detention Basin



Basin bottom looking south



Erosion in basin bottom



Outlet structure in need of replacement

- Outlet structure is in need of replacement; there is excessive erosion and excessive sediment accumulated around it
- There is standing water in the low flow channel and basin bottom

Hamilton Township Stormwater Basin Assessment 165 Limouroed Drive Residential Detention Residential

Address: Limewood Dr and RT-33 Trenton, NJ 08690



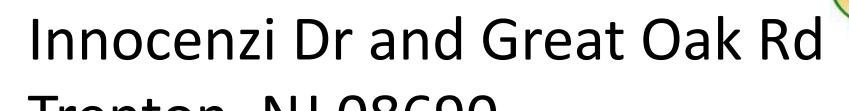






- Outlet concrete structure is in need of replacement, there is some sheen on surface of water and brown sediment on bottom present in concrete flow channel.
- Opportunity to also replace low flow channel with stone to allow more infiltration

Address:







Trenton, NJ 08690 166 & 167. Innocenzi Drive Residential Detention Basins



Address: Innocenzi Dr and Great Oak Rd Trenton, NJ 08690





166. Innocenzi Drive Residential Detention Basin (a)



Basin bottom looking northeast



Stream connecting to low flow channel



Southeastern inlet



Outlet structure

- The basin intercepts a stream from the east that doesn't seem planned
- There is excess sediment accumulated in the low flow channel near the southeastern inlet and in front of the outlet
- The outlet has some cracking and the trash rack is held open by crates

Address:
Innocenzi Dr and Great Oak Rd
Trenton, NJ 08690





166. Innocenzi Drive Residential Detention Basin (a)



- Large basin with 4 inlets
- Large vegetation growth around the low flow channel and inlets creating standing water in low flow channel
- Maintain inlets and outlets areas
- Clear low flow channels to stop standing water or replace with stone channel

Address: 4265 RT-33 Trenton, NJ 08690







170. The Shoppes at Nottingham Pointe Detention Basin (b)



Address: 4265 RT-33 Trenton, NJ 08690







170. The Shoppes at Nottingham Pointe Detention Basin (b)



Two western inlets



Basin bottom looking southwest



Basin bottom looking west



Inlet and outlet structures

- There is excess sediment accumulated in front of all inlets
- There is ponding in front of the outlet structure that is caused by a clogged trash rack

Address: 4265 RT-33 Trenton, NJ 08690







170. The Shoppes at Nottingham Pointe Detention Basin (b)



- Outlet to basin is clogged with leaves and debris. Inlet number five for this from Route 33 has standing water.
 Mosquitoes present at time of inspection October 30
- Clear outlet and repair inlet five to allow remove the standing water issue

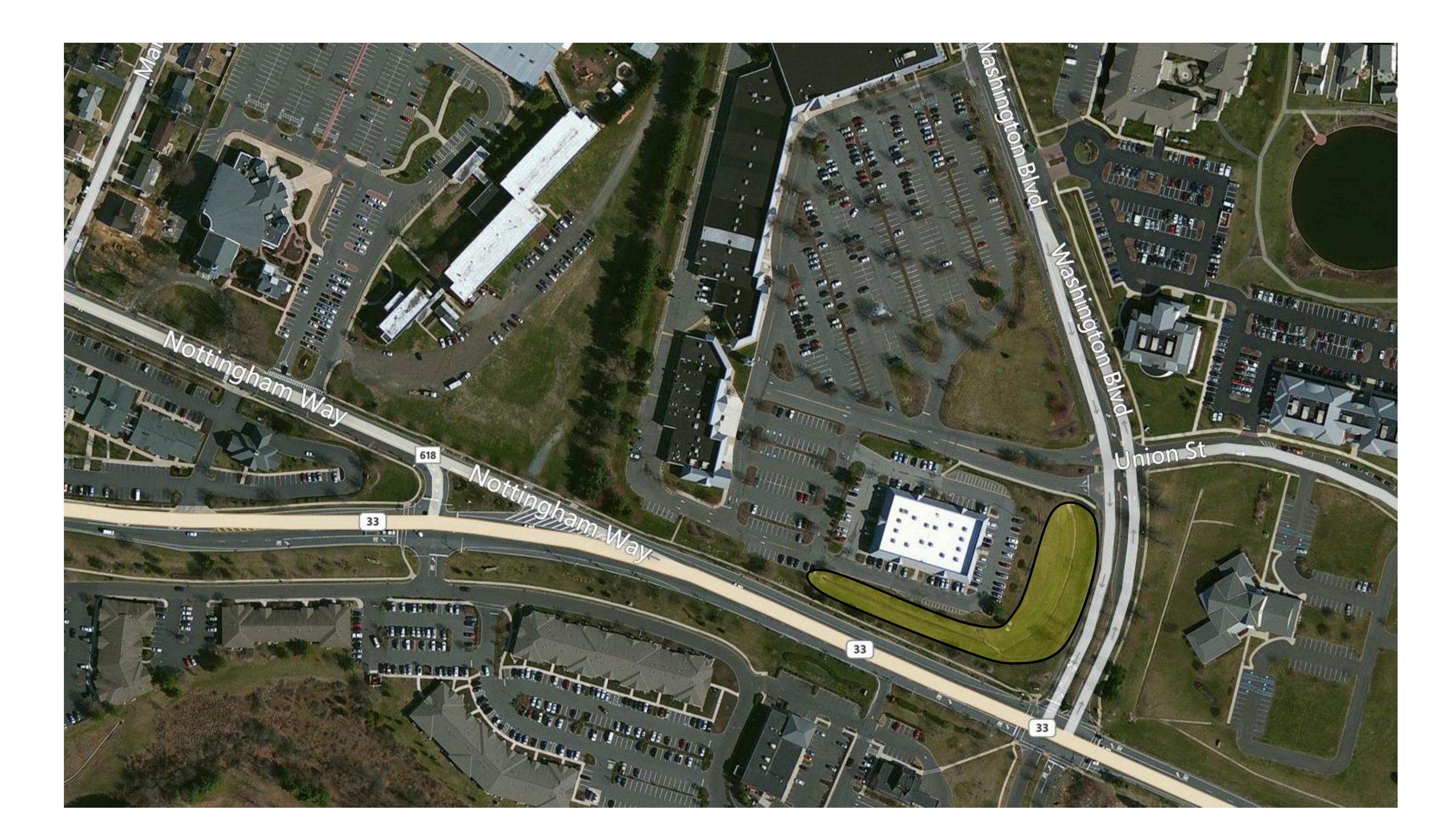
Hamilton Township
Stormwater Basin Assessment
173. Foxmoor Detention Basin

Address: 1027 Washington Blvd Trenton, NJ 08691

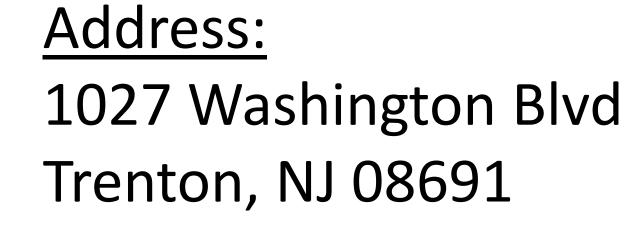








Hamilton Township Stormwater Basin Assessment 173. Foxmoor Detention Basin











Inlet and low flow covered in sediment



Inlet filled with sediment



Outlet structure



Basin bottom looking east

- There is excess sediment accumulated in some of the inlets and in the low flow channel to the point that the some of the channel is no longer visible
- The outlet has some breakage and cracks in parging; the structure should be repaired or replaced

Hamilton Township
Stormwater Basin Assessment
173. Foxmoor Detention Basin

Address: 1027 Washington Blvd Trenton, NJ 08691









- Five inlets with low flow channel
- Low flow channel has been cleared since last assessment, but some sediment has accumulated again and some minor standing water present
- Clean out concrete flow channels and repair outlet structure that is still damaged from last assessment

Hamilton Township Stormwater Basin Assessment 183. Meredith Road Residential Basins Address:

61 Meredith Rd









183. Meredith Road Residential Basins



Low flow channel



Low flow channel looking east

Address:

61 Meredith Rd Hamilton Township, NJ 08610







Outlet

- Reports of system not functioning
- Sediment and a fallen tree in low flow channel
- Japanese knotweed growing near outlet

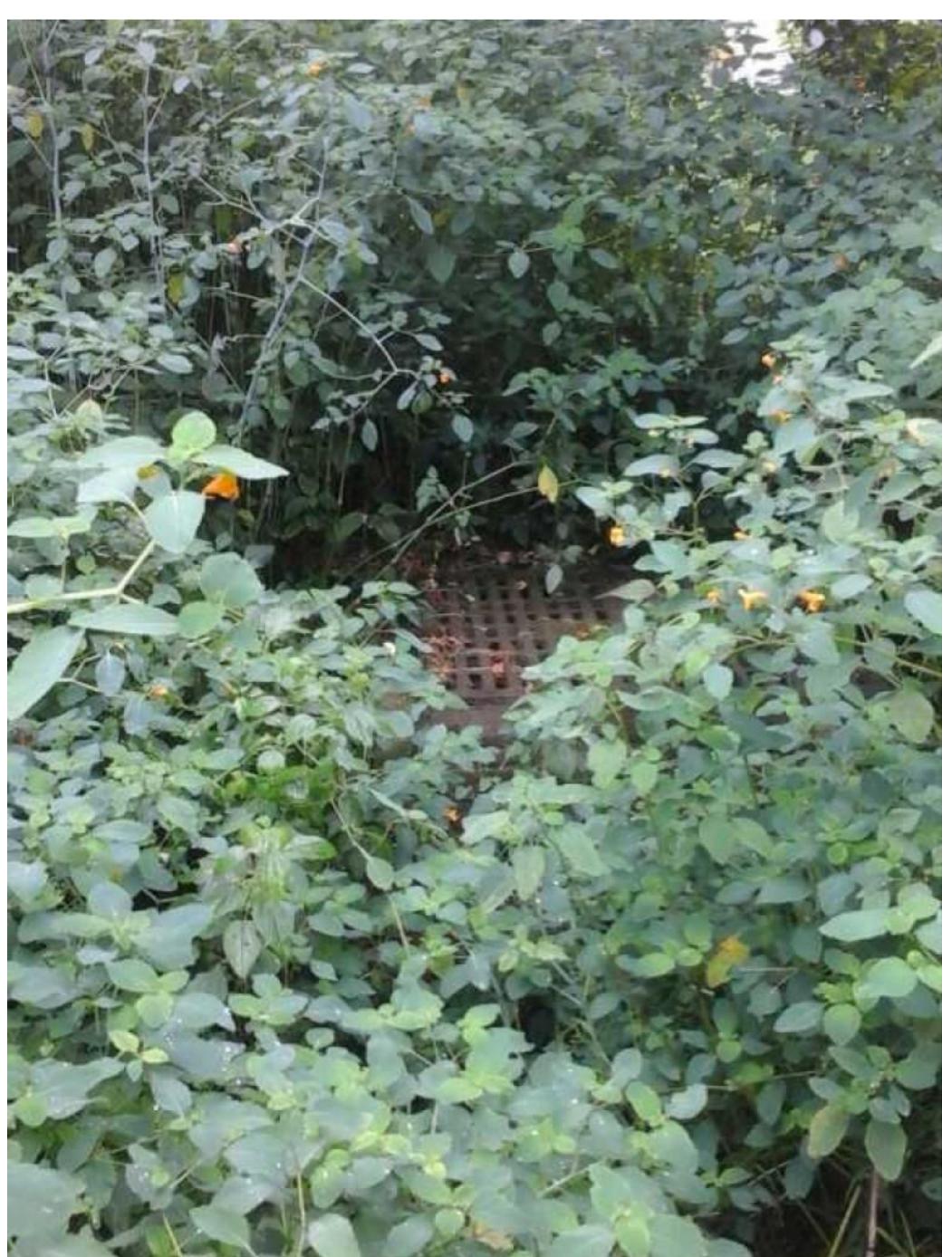
183. Meredith Road Residential Basins

Address:









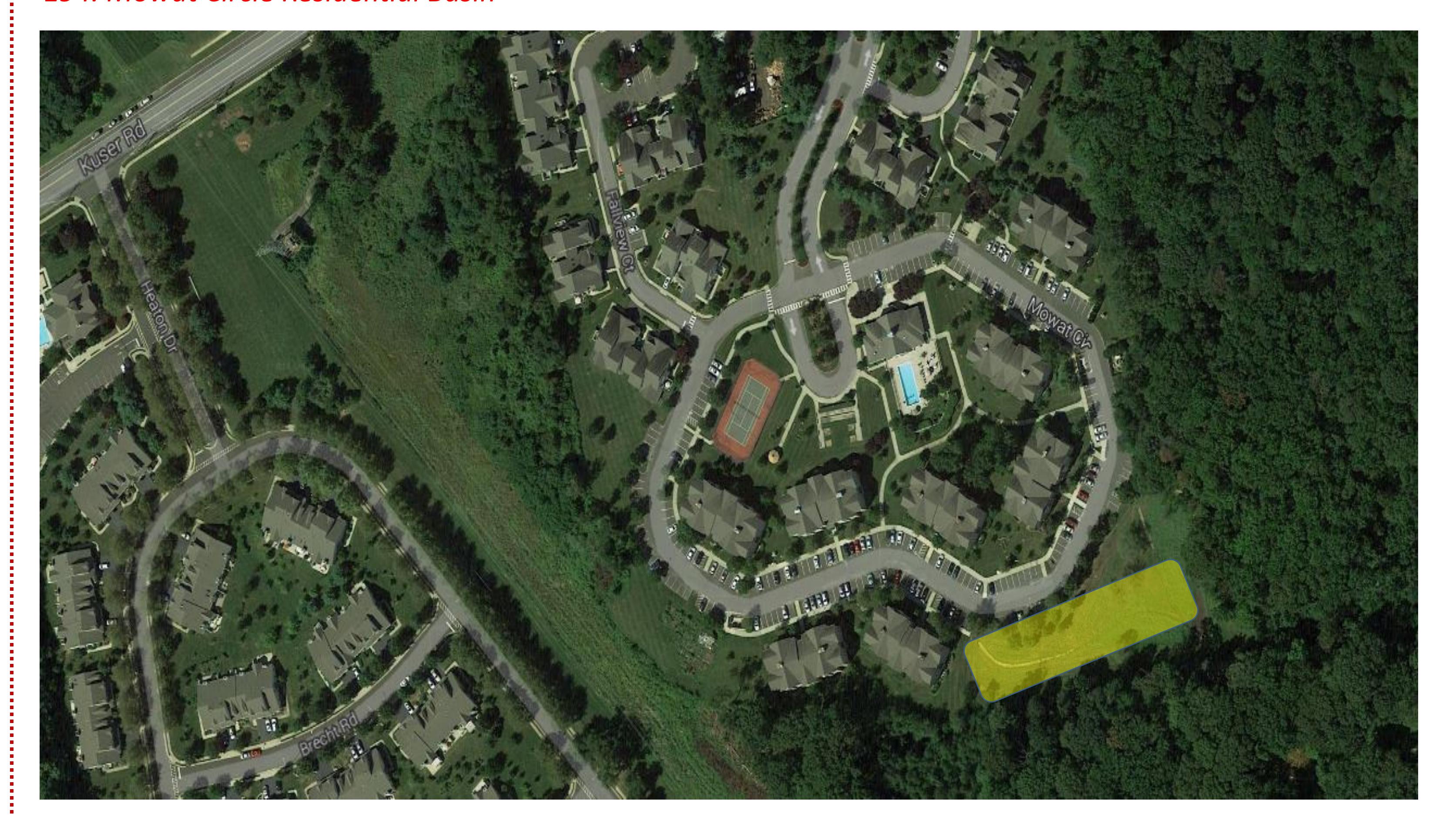
- Channel slightly overgrown with Jewel Weed, a beneficial native
- Clear out channel, inlets, and outlet to maintain access

Hamilton Township
Stormwater Basin Assessment
194. Mowat Circle Residential Basin

Address:
314 Mowat Cr
Hamilton Township, NJ 08690







Hamilton Township Stormwater Basin Assessment 194. Mowat Circle Residential Basin



Low flow channel



Side view of outlet

Address:

314 Mowat Cr









Front view of outlet

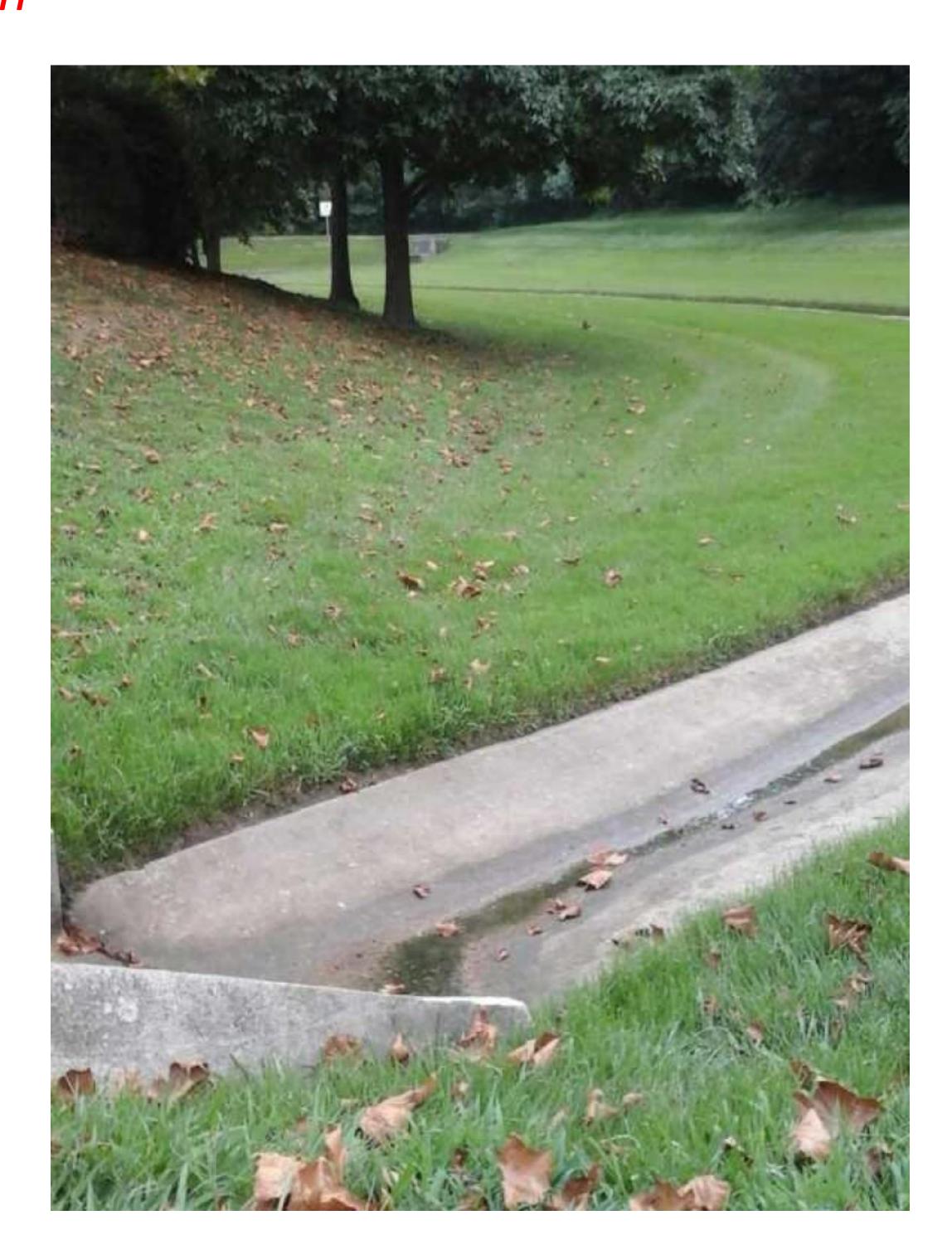
- Excessive sediment in low flow channel and basin bottom
- Trash rack broken and placed inside outlet structure
- Area near outlet has strong odor

Hamilton Township
Stormwater Basin Assessment
194. Mowat Circle Residential Basin

Address:
314 Mowat Cr
Hamilton Township, NJ 08690







- Two inlets leading into a outlet by low flow channel
- Basin heavily remediated from previous assessment, appears to be in good condition
- Remove low flow channel for stone channel
- Naturalize with herbaceous plants to help with erosion of banks

199. Commerce Way Commercial Basin

Address:

160 Commerce Way
Hamilton Township, NJ 08610







Hamilton Township Stormwater Basin Assessment 199. Commerce Way Commercial Basin



Basin bottom looking southwest



Standing water in low flow channel

Address:







160 Commerce Way Hamilton Township, NJ 08610



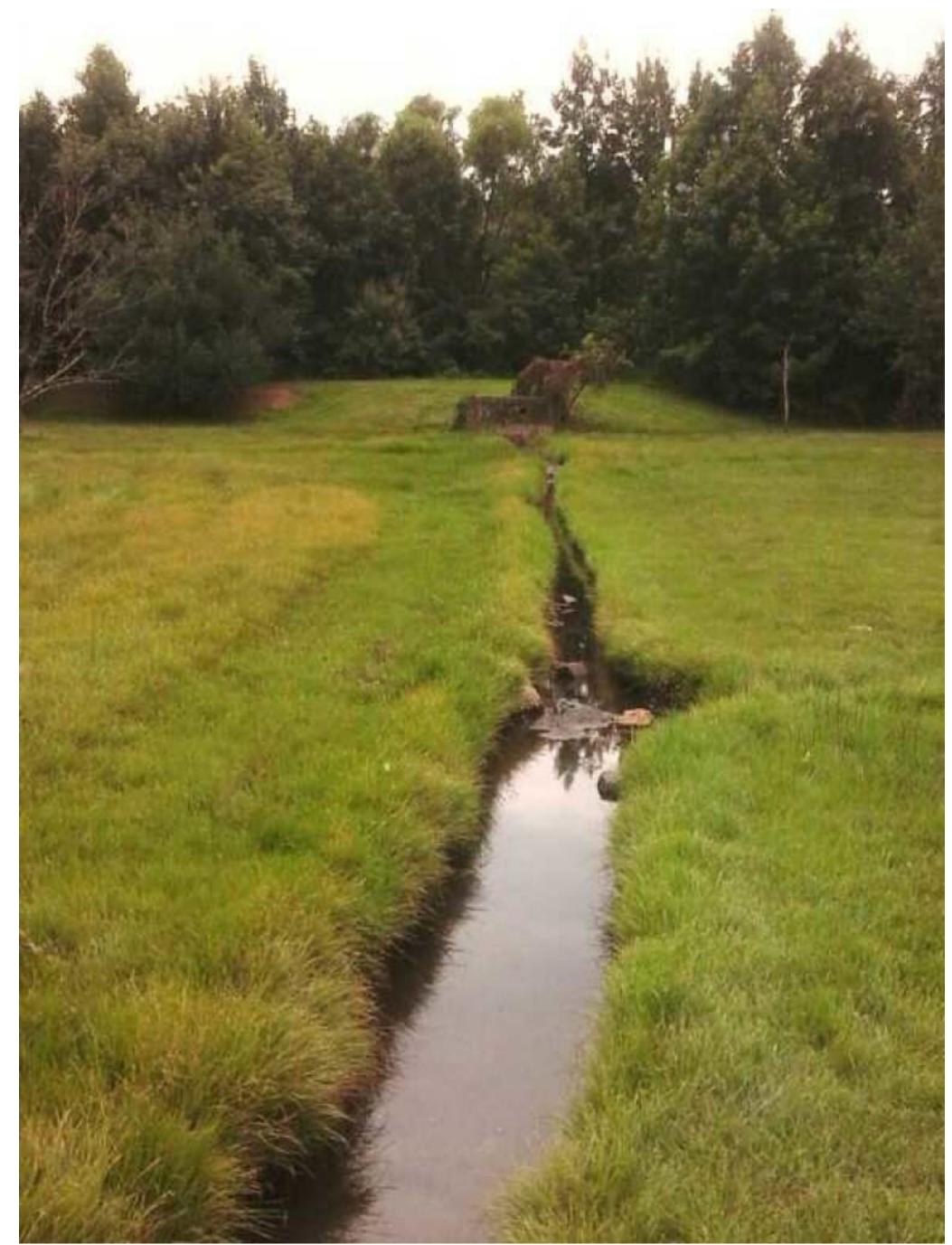
- Outlet orifice is clogged due to excess debris, litter, and sediment
- Outlet structure has cracks and breakage
- Ponding water in basin bottom
- One inlet has exposed wire due to erosion

Hamilton Township
Stormwater Basin Assessment
199. Commerce Way Commercial Basin

Address:
160 Commerce Way
Hamilton Township, NJ 08610







- Severe standing water in low flow channels caused by outlet structure that needs maintenance
- Remove low flow channel for rock channel
- Plant native herbaceous plants to help naturalize

Address:

2631 Kruser Rd

Hamilton Township, NJ 08691





216. Richard C. Crockett Middle School Detention Basin



216. Richard C. Crockett Middle School Detention Basin

Address: 2631 Kruser Rd Hamilton Township, NJ 08691







Inlet



Degraded outlet structure



Inlet

- Overgrown/excess sediment in low flow channel and near inlets
- Excess sediment accumulated in basin bottom
- Exposed wire and standing water inside outlet structure
- Excessive debris accumulated near outlet structure

2631 Kruser Rd
Hamilton Township, NJ 08691

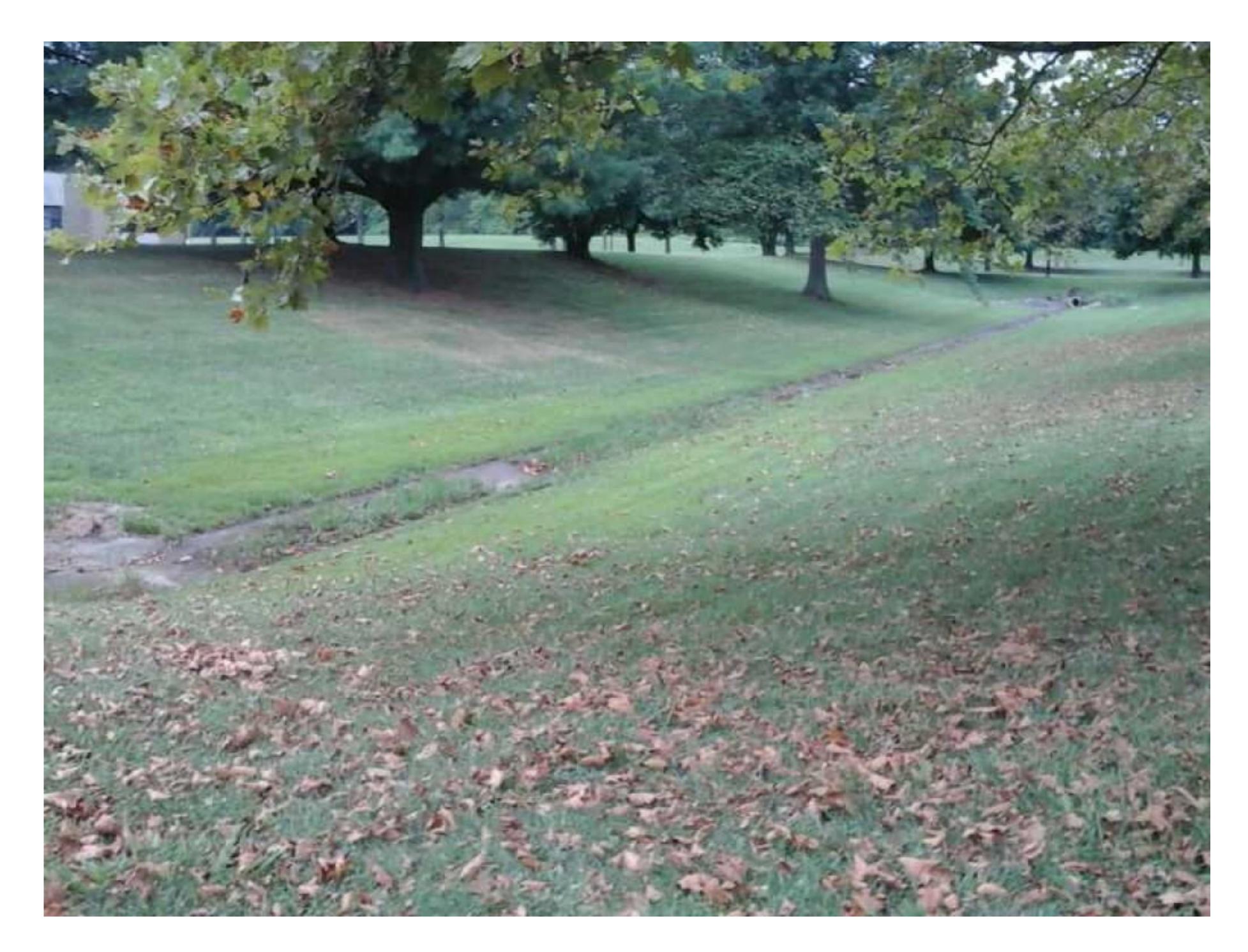
Address:







216. Richard C. Crockett Middle School Detention Basin



- Detention basin with large erosion and sediment build up
- Repair and maintain the area by removing unwanted plants and sediment
- Replace low flow channel with stone to allow infiltration

Hamilton Township
Stormwater Basin Assessment
239. Adam's Party Rental Detention Basin

Address:
154 Turnbull Ave
Hamilton Township, NJ 08610





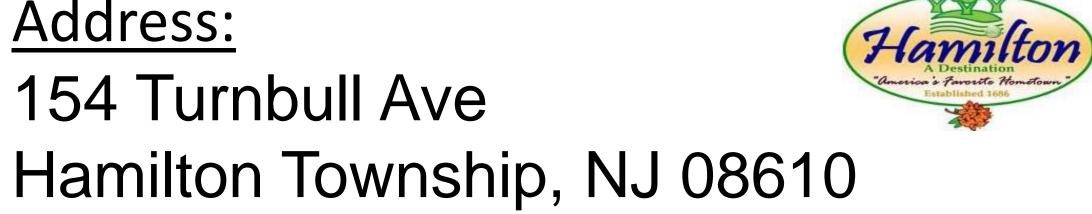


239. Adam's Party Rental Detention Basin















Severe ponding in basin

Obstructed inlet

Overgrown curbcut



Eroded swale bottom

- Outlet structure is clogged with debris and sediment
- Inlet pipe has excessive sediment accumulation and overgrown turf
- Curb-cut leading to basin from parking lot is eroded and overgrown
- Swale bottom leading to basin is eroded

Hamilton Township Stormwater Basin Assessment 239. Adam's Party Rental Detention Basin

Address:
154 Turnbull Ave
Hamilton Township, NJ 08610







- Basin is in overall conditions, no clear signs of prolonged standing water seen in previous assessment
- Outlet is severely clogged with leaf litter



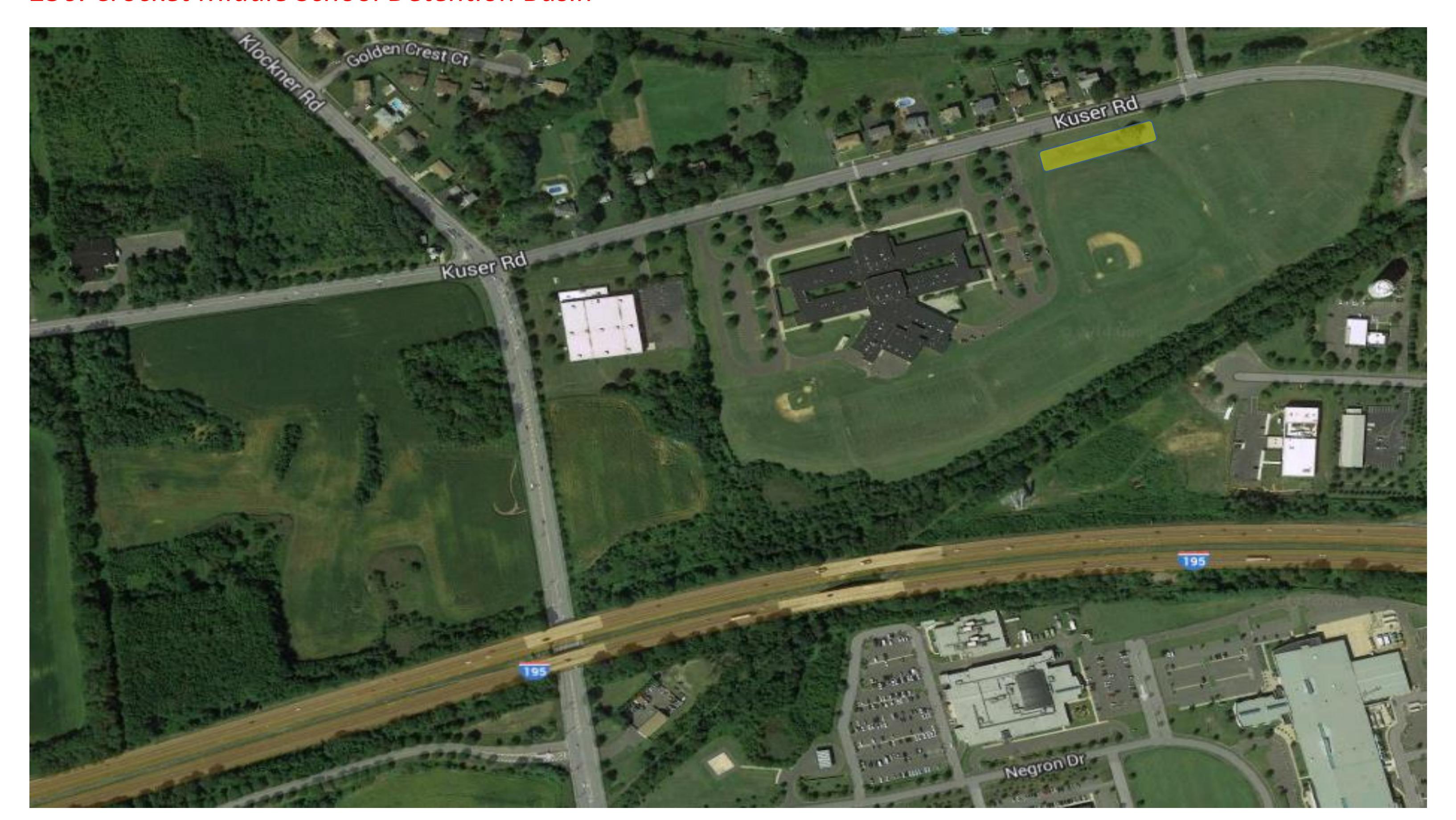
Hamilton Township
Stormwater Basin Assessment
256. Crocket Middle School Detention Basin

Address:
2631 Kuser Rd
Hamilton Township, NJ 08691









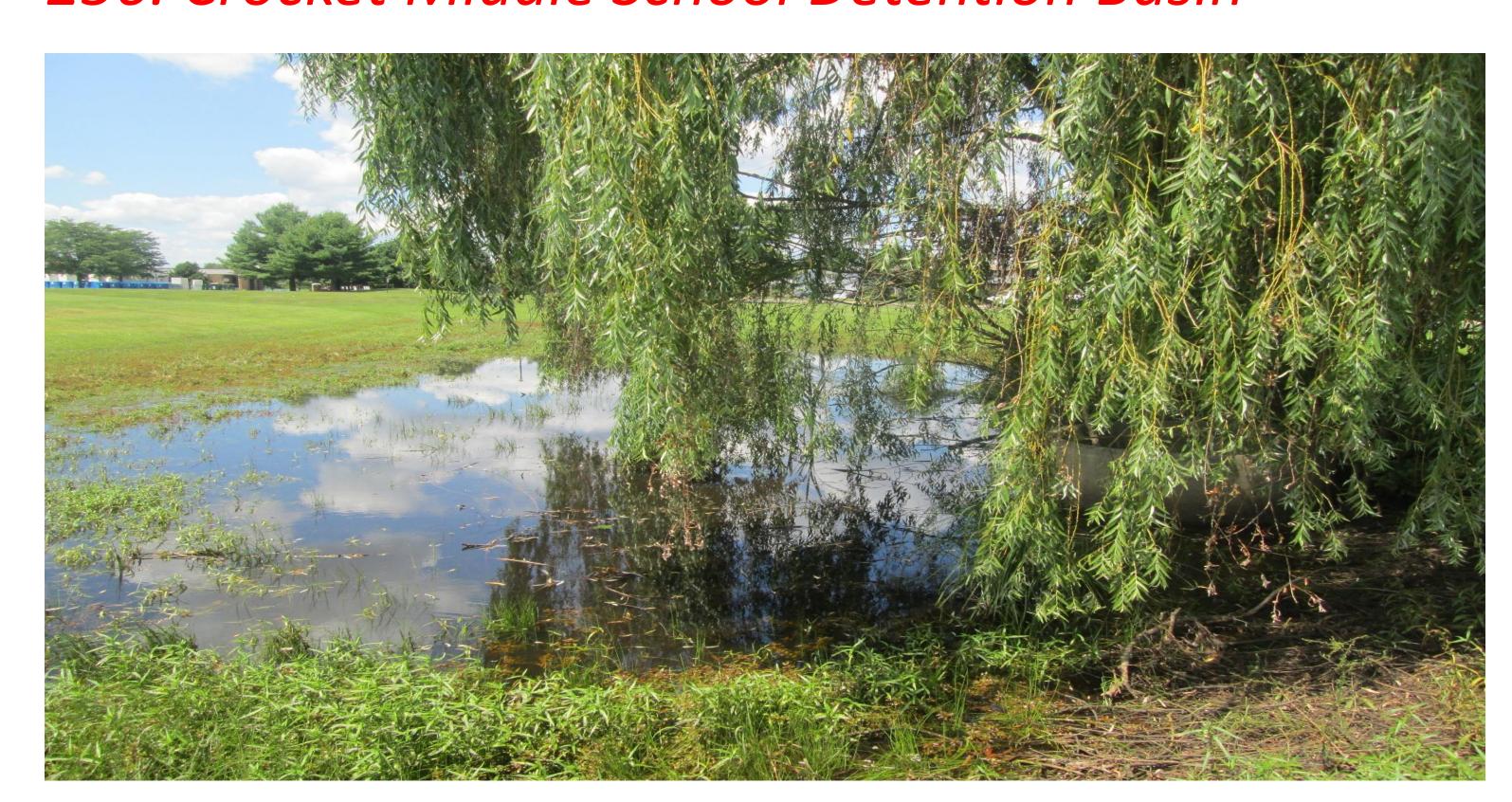
Hamilton Township Stormwater Basin Assessment 256. Crocket Middle School Detention Basin

Address: 2631 Kuser Rd Hamilton Township, NJ 08691











Overview of Basin

- Outlet structure is clogged with sediment and debris
- Standing water in the basin bottom
- Outlet structure is missing secondary spillway grate

Hamilton Township
Stormwater Basin Assessment
256. Crocket Middle School Detention Basin

Address:
2631 Kuser Rd
Hamilton Township, NJ 08691









- Basin has large volume of water remaining, unimproved from the previous assessment
- Outlet structure is not working properly, needs repair/redesign
- Look at adding soil remediation to convert to an infiltration basin

Hamilton Township Stormwater Basin Assessment 265. JEK Building Detention Basin

Address:

211 Yardville Hamilton Square Rd Hamilton Township, NJ 08620









Hamilton Township Stormwater Basin Assessment 265. JEK Building Detention Basin



Basin overview



Inlet

Address:











Outlet

- Inlet and outlet structure are overgrown with turf grass
- Sediment accumulating in low flow channel
- Outlet is dated and structurally deteriorated

Hamilton Township
Stormwater Basin Assessment
265. JEK Building Detention Basin

Address:
211 Yardville Hamilton Square Rd
Hamilton Township, NJ 08620









- Sediment buildup in outlet area, cover to portion of outlet catch basin is not attached
- Outlet is outdated and could be retrofitted to a more modern design to allow better stormwater management
- Remove low flow channels to provide infiltration and naturalize with herbaceous plants

Hamilton Township Stormwater Basin Assessment 306. Saint James Church

Address:

1040 Yardville Allentown Rd. Hamilton Township, NJ 08691

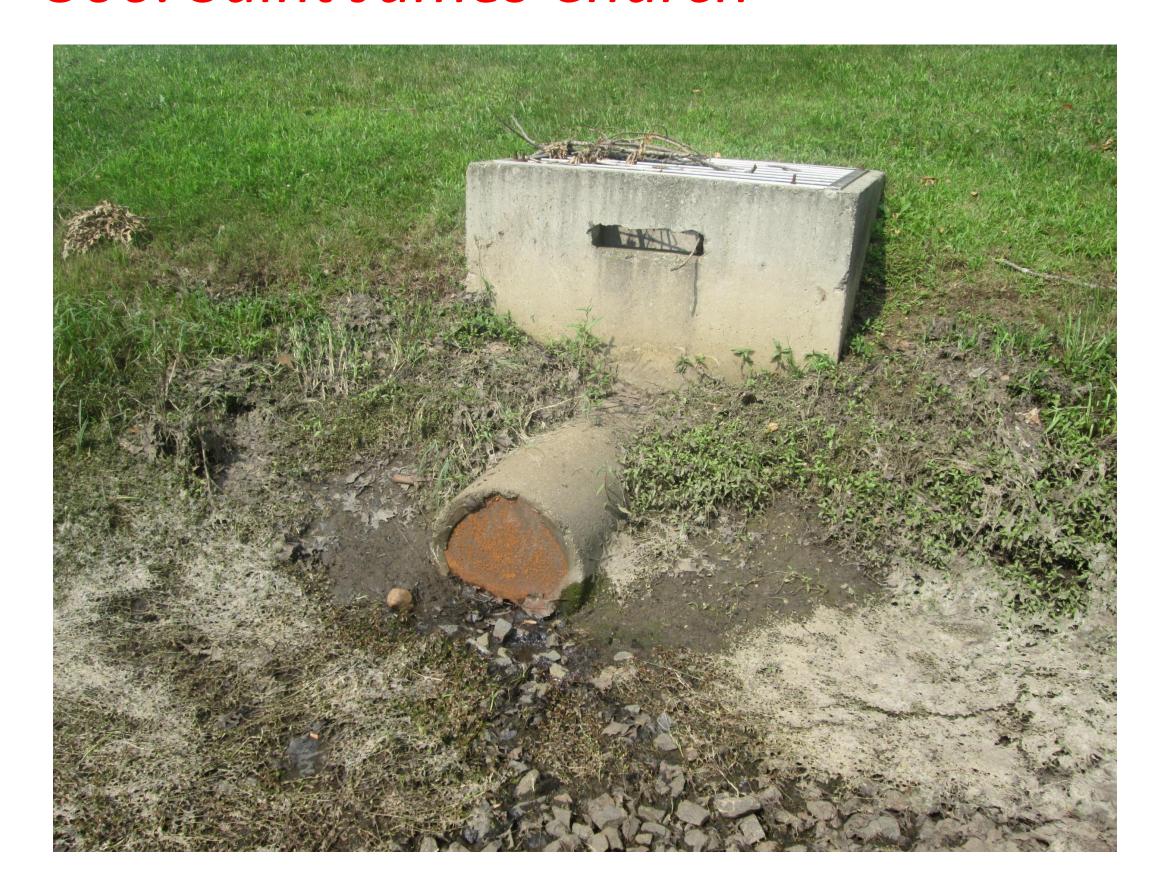








Hamilton Township Stormwater Basin Assessment 306. Saint James Church



Outlet



Eastern portion of basin

Address:







1040 Yardville Allentown Rd. Hamilton Township, NJ 08691



Overview of basin

- One common pipe conveys stormwater from eastern basin to western basin
- Standing water noted in basin bottom
- Invasive weeds and excessive sediment accumulation in basin bottom
- Eroding outlet pipe
- Emergency spillway leads to a vegetated swale

Hamilton Township Stormwater Basin Assessment 306. Saint James Church

Address: 1040 Yardville Allentown Rd. Hamilton Township, NJ 08691









- Looks like someone took the steps to retrofit this into an infiltration basin since the low flow outlet pipe is sealed
- Naturalized with herbaceous and woody vegetation recently compared to aerial
- Basin in good condition and naturalized, no recommendations

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



Overview of basin

2017 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

Address:

5 1st Avenue











Outlet

Hamilton Township Stormwater Basin Assessment 310. Sirius XM Radio Basin

Address:
5 1st Avenue
Hamilton Township, NJ 08610







- Basin is not well maintained, lots of trash
- Make sure inlets and outlets are clear of vegetation
- Low flow channel has sediment accumulation and sign of standing water
- Replace low flow channel with stone channel to allow more infiltration

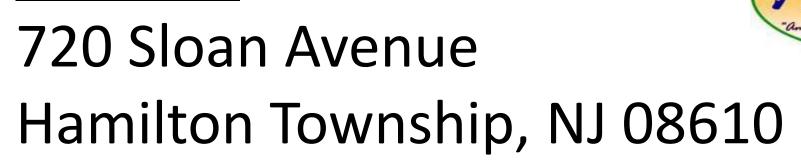
320. Hamilton Train Station Basin

Address:

720 Sloan Avenue









320. Hamilton Train Station Basin



Overview of basin



Erosion of inlet

Address:

720 Sloan Avenue
Hamilton Township, NJ 08610







Outlet

- 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 320. Hamilton Train Station Basin

Address:
720 Sloan Avenue
Hamilton Township, NJ 08610









- Basin inlets have significant erosion to concrete structure as seen in previous assessment
- Outlet severely clogged with grass and sediment
- Low end of basin appears to have significant sediment accumulation
- Maintenance and repair suggested to address issues
- Potential retrofit by removing low flow channels with stone channels to promote infiltration

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

Inlet pipe from road

Standing water

- 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 421. Industrial Basin Address:
1325 Klockner Road
Hamilton Township, NJ 08610









- Does not appear to be a true basin, just a bad ponding area
- Establish meadow system to promote better infiltration