RUTGERS
New Jersey Agricultural Experiment Station

Water Resources Program

Cypress Lane Basin Prior to Mow Plan (2012)

Cypress Lane Basin After Mow Plan (2013)

Hamilton Township (Mercer County)
Stormwater Basin Assessment Summary
Addendum (Year 2)

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

August 30, 2013

Acknowledgements

The Hamilton Township (Mercer County) Stormwater Basin Assessment Summary (Year 2) has been produced by the **Rutgers Cooperative Extension Water Resources Program**.

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 2013, the Rutgers Cooperative Extension (RCE) Water Resources Program continued the assessment of Hamilton Township's stormwater management basins with a goal to assess all basins throughout the Township. These assessments are needed to determine the overall state of the existing stormwater infrastructure and to identify structural and maintenance problems. Once the problems have been identified, staff can begin designing and implementing solutions. The Stormwater Basin Inspection Checklist (Attachment 1) used in Year 1 was useful for identifying key issues occurring within the existing stormwater basins. Year 2 efforts focused on using the same procedure to identify key structural integrity issues, maintenance deficiencies, and overall functionality in another area of the Township.

During June, July, and August 2013, staff and students conducted assessments of 75 basins in Hamilton Township (Figure 1). These basins were located in the central portion of the Township in the Pond Run Watershed. While the central portion of the Township did not experience flooding as frequently endured as the area assessed during Year 1, the assessment process remains important to the overall goal of addressing Hamilton Township's water resources issues.

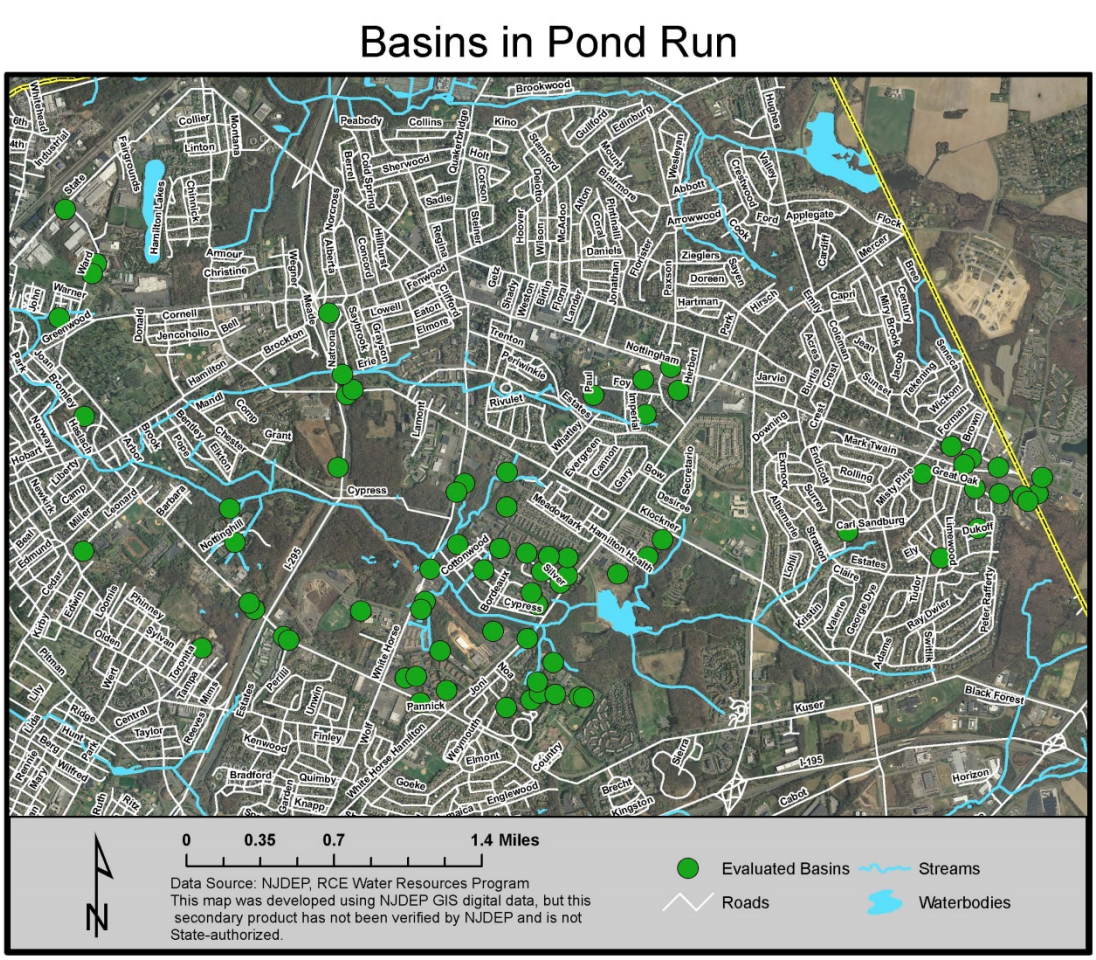


Figure 1: Stormwater basins evaluated during the summer of 2013.

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.

Maps included with this summary include:

Basins That Require Cleaning:

This map (Attachment 2A) identifies stormwater basins that have components that need to be cleaned. 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.

Basins That Require Maintenance:

This map (Attachment 2B) identifies stormwater basins in need of maintenance. Site visits noted that little or no routine maintenance is being done at the facility, and/or vegetation and debris has 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. The system is no longer functioning as designed and may be a safety hazard. Immediate action is needed to make the facility operational and safe.

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 ensure the facility functions properly.

Priority Basins:

This map (Attachment 2E) identifies stormwater basins where multiple issues were noted during the site visit. It is likely that multiple actions will be needed to get these facilities 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. Basins located in areas with Hydrologic Soil Group A or B soils and where groundwater recharge rates are in excess of four (4) inches per hour were considered highly suitable. Basins in areas where at least one of these conditions are met were considered suitable. Basins where neither of the these conditions exist were considered unsuitable. Please note that site specific soil conditions and infiltration rates still need to be field verified to confirm that infiltration retrofits would be successful.

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 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 localize 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 retrofits and modifications.

104. Clean Machine Laundromat Detention Basin

The detention basin on the west side of the Clean Machine Laundromat resides in an area that is suitable for an infiltration retrofit. The basin is a priority candidate for a retrofit design that would transform the eroded swale inlet into a planted bioswale. The swale is approximately 75 feet long and three feet wide, running along the southern side of the building. Currently the swale has extensive erosion resulting in tree root and bare soil exposure. To address the present condition of the swale, a potential retrofit design would involve excavating 12 to 18 inches of soil from the swale and backfilling with bioretention soil amendments. The swale should then be planted with various native grasses that will establish extensive root systems, thus promoting further infiltration by opening soil pores. It may be necessary to slightly regrade the swale and basin to ensure proper flow of stormwater. At a minimum, planting the swale with larger native grasses and backfilling any heavily eroded areas will reduce erosion and increase pollutant removal.

126. YMCA Detention Basin (a.)

The most northern detention basin behind the YMCA in Hamilton resides in an area that is suitable for an infiltration retrofit. Currently the basin has excess sediment accumulated in the flow path between the inlet and outlet that is restricting stormwater movement through the basin. A retrofit design that would alleviate this issue would involve removing the present vegetation and excess sediment from the basin. A 12 to 18 inch deep by three-foot wide stream-bed feature consisting of river stone should be installed between the inlet and outlet. Additionally, planting the basin similar to a rain garden would promote further infiltration and improve upon the aesthetic value of the basin. At a minimum, removing the excess sediment and then replanting with more sparse native grasses would improve the basin's ability to infiltrate stormwater and reduce clogging issues.

132. & 133. Princeton Women's Services Detention Basins

The detention basins located in front of Princeton Women's Services are located in an area highly suitable for an infiltration retrofit. As a first measure, the basin outlets need to be cleared of debris and sediment. These basins do not have low flow channels, thus a simple planting of the basin with plants that can establish extensive root systems and open soil pores can improve pollutant removal and groundwater recharge. Additionally, the ashpalt slabs in front of the inlets are deteriorating and should be replaced. One way to approach replacement is with river stone to improve infiltration and aesthetics.

134. Monro Muffler Detention Basin

The detention basin located on the eastern side of Monro Muffler is in an area that is suitable for an infiltration retrofit. This basin should be retrofitted with a design that can utilize its large area for water to distribute over. The retrofit would be designed to lengthen the flow path of the stormwater entering the basin during smaller, more frequent storm events. Considering that this basin has soils with good infiltration rates, increasing the flow path will allow smaller storms to infiltrate and recharge groundwater. Currently smaller storms travel through the cement low flow channel to the outlet without any chance of treatment. To change the flow path, approximately 12-foot sections of the low flow channel in front of the inlets will need to be removed. In addition, berms will need to be established that direct the water towards the southwestern section of the basin. With this retrofit, sediment will settle out in the grassed areas as the water infiltrates, thus reducing sediment accumulation in the low flow channel and outlet low flow orifice. Furthermore, planting or naturalizing the basin as a wet meadow will improve the basin's ability to remove nonpoint source pollutants.

135. TD Bank Detention Basin

The detention basin located behind the TD Bank on Whitehorse Hamilton Square Road is an area that is highly suitable for an infiltration retrofit. As a preliminary step, the excess sediment accumulated in the outlet low flow orifice and the basin bottom should be removed. Since this basin is relatively small (approx. 625 square feet), a retrofit design would involve planting the basin similar to a rain garden that would contain plants that have extensive root networks to increase infiltration and absorption of stormwater. This would eliminate the areas of exposed earth and standing water in the basin bottom. The soil may have to be amended with a bioretention soil mix to promote healthier plant growth and higher pollutant removal rates.

137. Noa Court Detention Basin

The detention basin adjacent to Noa Court is in an area considered suitable for an infiltration retrofit. The first step should be to remove the litter found inside the outlet structure and the sediment accumulated inside and in front of the primary outlet orifice. A retrofit design would involve the removal of the low flow channel up to the fork in the center of the basin and replacing it with a stream-bed feature. The stream-bed feature will have a six-inch perforate pipe two-feet below the surface that connects to the outlet structure. New Jersey Department of Transportation (NJDOT) #57 clean, washed stone will be placed around the pipe, then there will be a top layer of three to five inch river stone. The rest of the basin should be allowed to naturalize or be planted with a meadow seed mix to establish plant growth with extensive root networks to promote further infiltration and groundwater recharge. At a minimum, the outlet structure should be cleaned and retrofitted with a restrictor plate to decrease the low flow orifice diameter, thus increasing the detention time to allow sediment to settle out before discharging from the basin.

147. Campus Eye Group

The detention basin in front of the Campus Eye Group resides in an area considered suitable for an infiltration retrofit. Breakage and erosion of the inlet was noted during the assessment, thus priority for this basin should be inlet repair. The inlet is a curb cut in a parking lot; the erosion can be repaired by adding soil and rip-rap to fortify the flow path of water entering the basin. To improve infiltration, the basin retrofit could involve planting the basin with native plants. Additionally, the outlet orifice could be retrofitted with a restrictor plate to increase the detention time, thus allowing more time for stormwater to infiltrate and recharge groundwater.

157. Gena Court Detention Basin

The detention basin adjacent to Gena Court is in an area that is highly suitable for an infiltration retrofit. The outlet structure has a large low flow orifice that lets smaller storm events pass through the basin without any detention or infiltration. To alleviate this issue, the current orifice should be replaced with a three-inch orifice by installing a pipe into the current opening and filling the surrounding area with concrete. Alternatively, a steel restrictor plate with a three-inch diameter could be installed. This will

increase the detention time of the basin, allowing sediment and other pollutants to settle out before discharging from the basin. The southeastern end is flatter than the rest of the basin, thus removing the low flow channel from this section of the basin will allow water to spread out and infiltrate. Additionally, this section of the basin could be planted with native plants that have extensive root systems to increase pollutant removal and groundwater recharge.

158. Hamilton Veterans Park Detention Basin (a.)

The first of four detention basins assessed at Hamilton Veterans Park is located in an area considered suitable for an infiltration retrofit. There is excess sediment accumulated inside the inlet structure, and the basin bottom near the outlet has areas of gullying and erosion. The preliminary step should be to remove the excess sediment accumulated in the inlet so the flow of water is no longer restricted. A retrofit design for this basin would involve backfilling any gullyed areas with soil and to modify the outlet structure as a means to increase detention time. A restrictor plate could be installed on the outlet to decrease the low flow orifice diameter, thus increasing the detention time. This will allow more time for the water to remain in the basin to settle out sediment and infiltrate into the soil. Furthermore, the design would involve planting the basin bottom with larger native plants to slow the water moving through to prevent gullying from continuing.

161. Hamilton Veterans Park Detention Basin (d.)

The fourth of four detention basins in Hamilton Veterans Park is located in the back corner of the park and is highly suitable for an infiltration retrofit. The adjacent parking lot drains to a grassed swale which conveys the stormwater to the basin. A retrofit design for this basin would be transforming the grassed swale into a bioswale. The swale would, at a minimum, need to be planted with large native grasses to slow water movement and promote infiltration. Furthermore, 12 to 18 inches of soil could be excavated and backfilled with a bioretention soil mix to promote further pollutant removal and decrease stormwater volumes. The basin could be allowed to naturalize or be planted with native species to establish extensive root networks that will open soil pores and improve infiltration, thus removing pollutants and protecting water quality.

165. Limewood Drive

The detention basin adjacent to Limewood Drive is located in an area considered suitable for an infiltration retrofit. The outlet structure has severe structural impairments that need to be addressed. Thus, the primary step of a retrofit plan for the basin would involve repairing or replacing the outlet

structure. In addition, there is excess sediment accumulated in front of the outlet that should be removed. To alleviate the stress on the outlet structure, a retrofit design would require the removal of the cement low flow channel and replacing it with a 12 to 18 inch layer of a bioretention soil mix. This should be planted with large native grasses to slow the water moving through the basin and promote infiltration to remove nonpoint source pollutants.

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

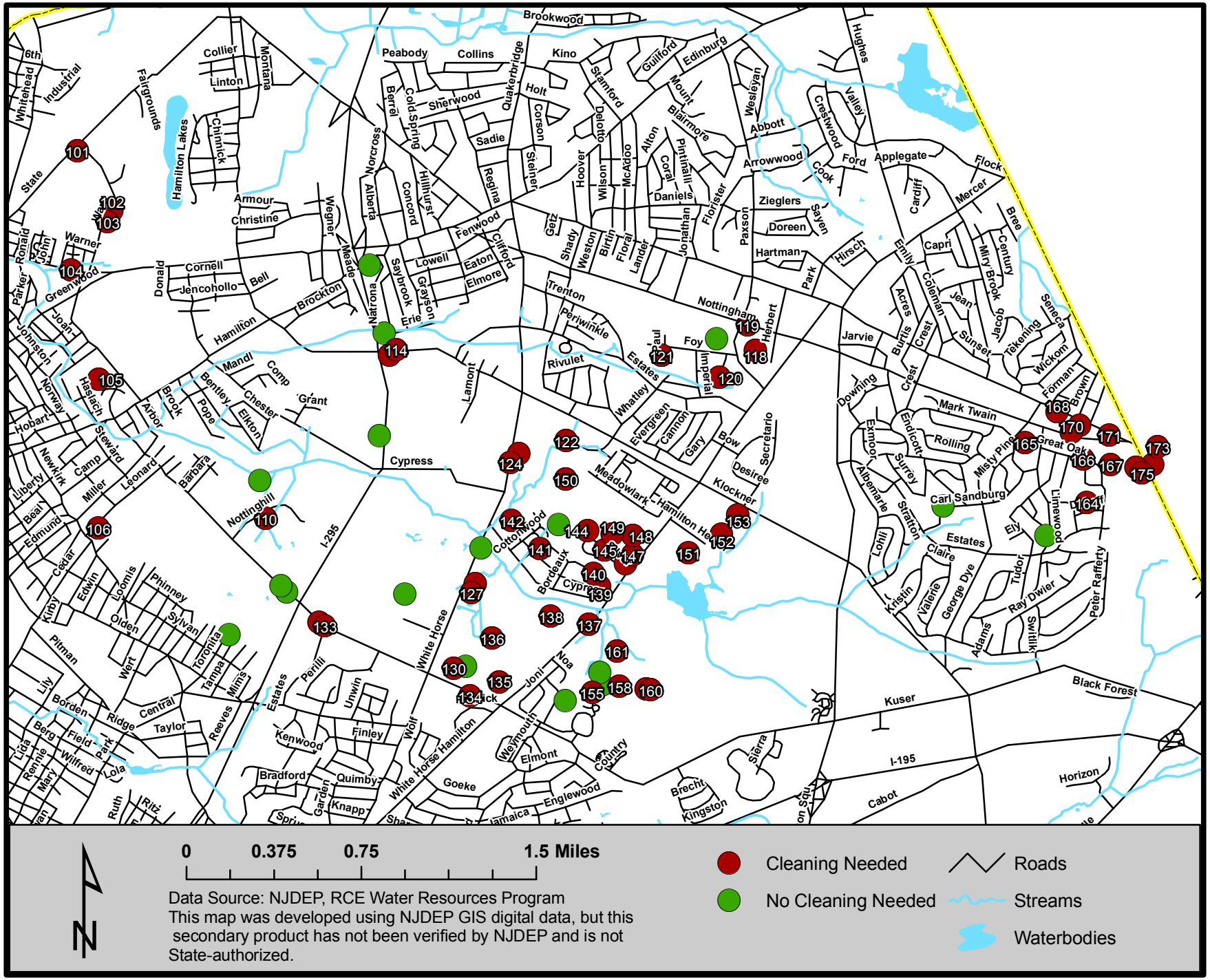
OUTLET	YES	NO	NOTES/REMARKS
1) Breakage, damage, corrosion or rusting to outlet pipe or conveyance?			
2) Signs of erosion, scour or gullies; rock or vegetation above or around the outlet structure?			
3) Debris or sediment accumulation in or around the outlet pipe (i.e. debris or sediment)?			
4) Accumulation 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	

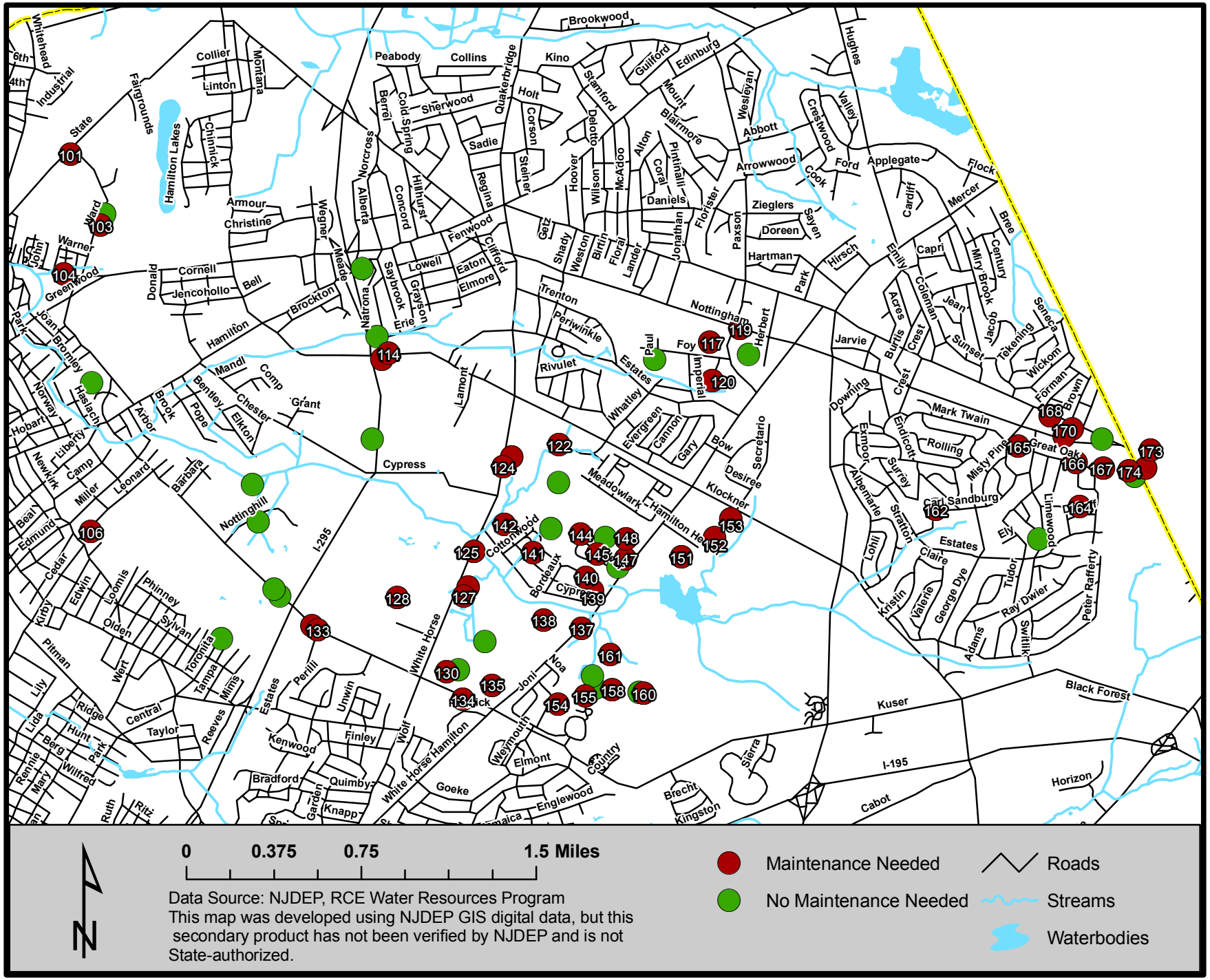
SUMMARY AND NOTES: Identify unique characteristics and/or opportunities

Attachments 2A-2F Evaluation Maps

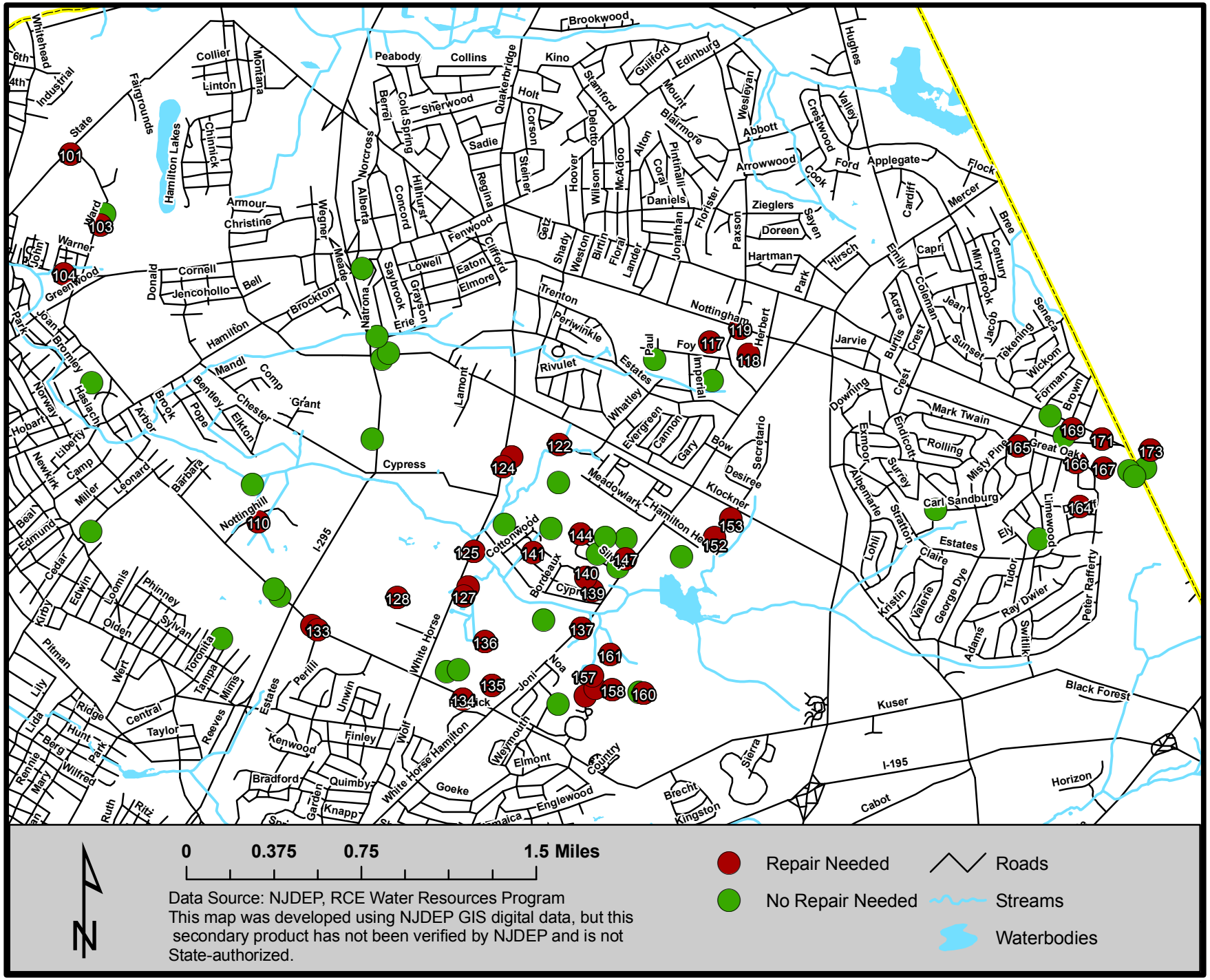
Basins in Pond Run that Require Cleaning



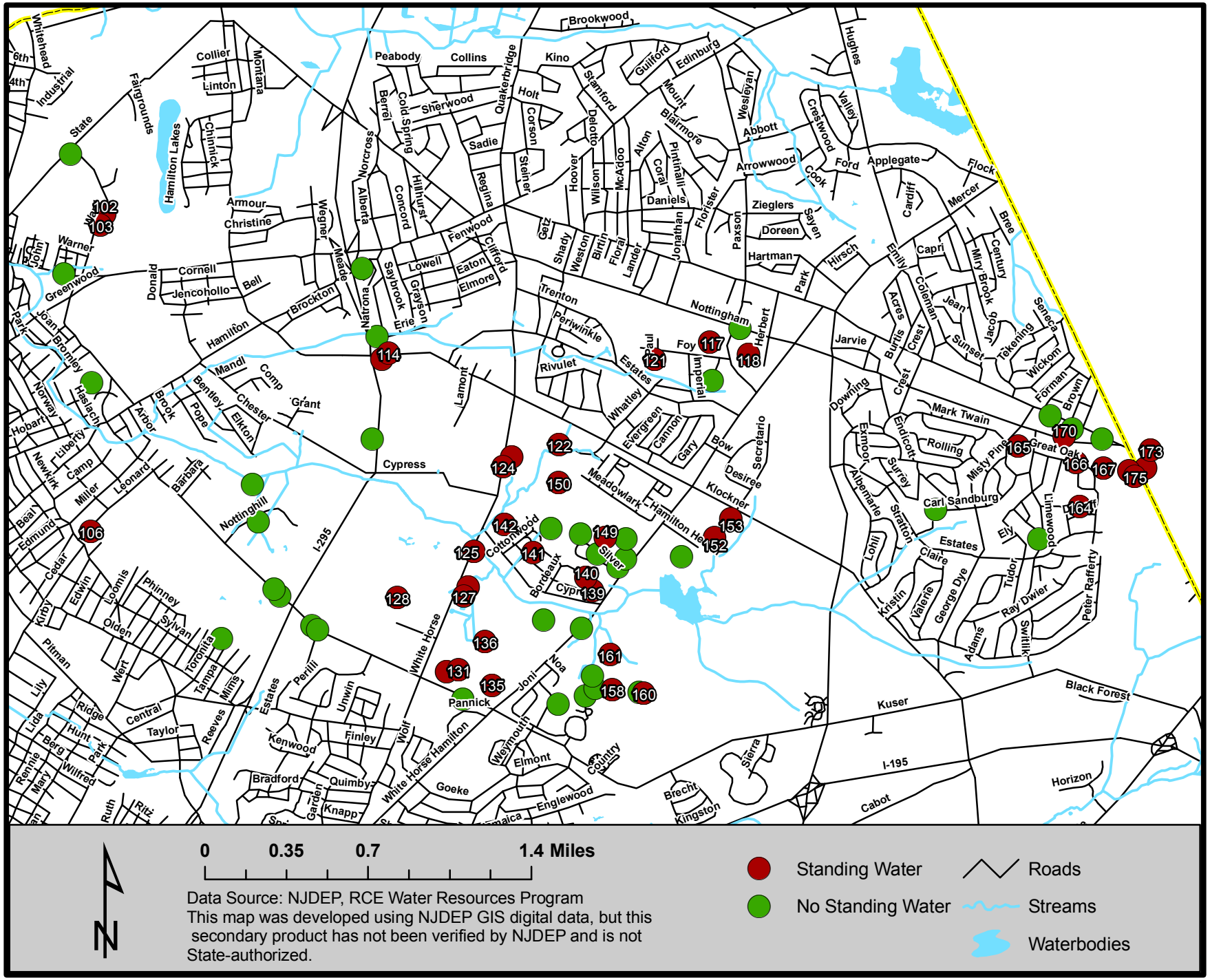
Basins in Pond Run that Require Maintenance



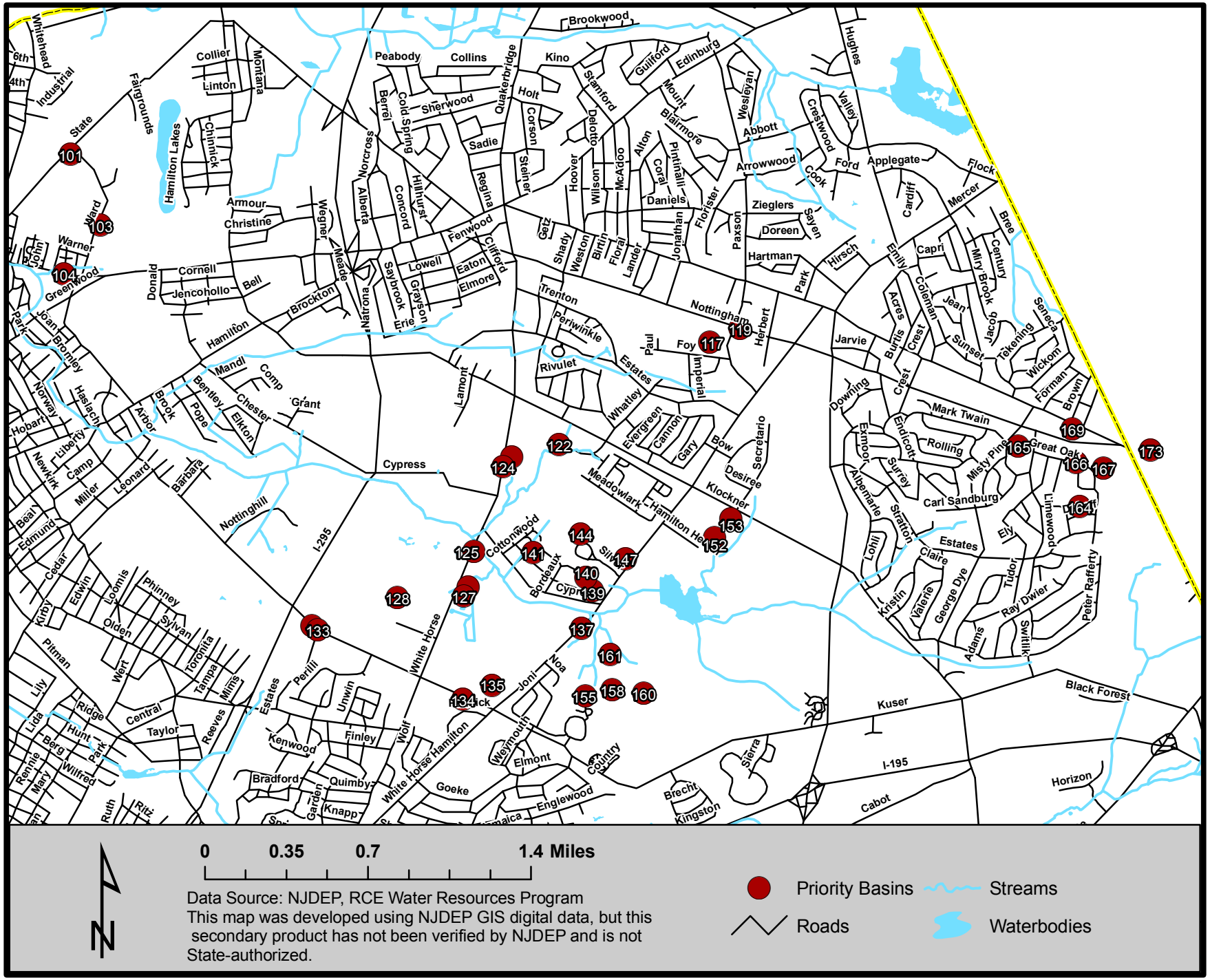
Basins in Pond Run that Require Repair



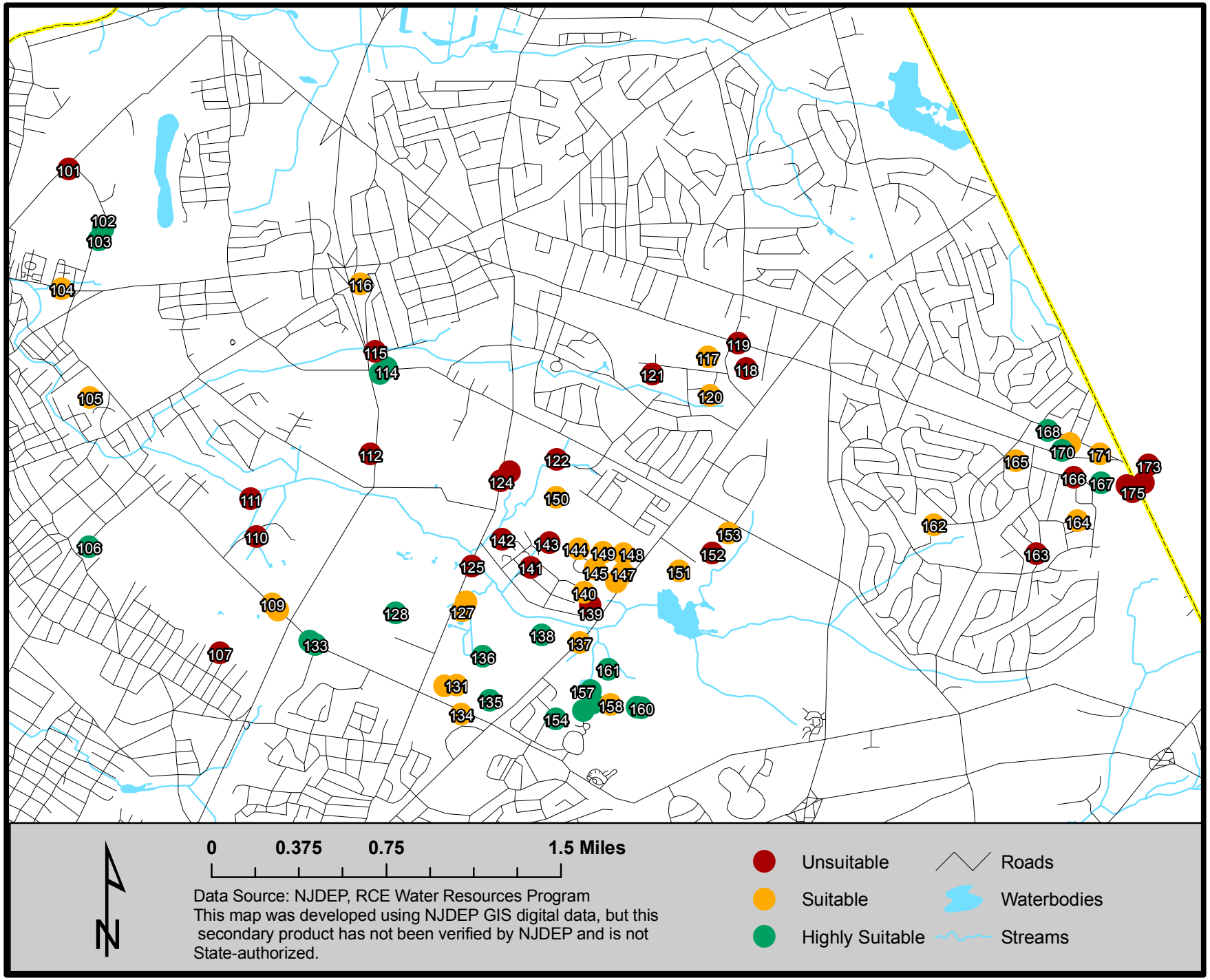
Basins in Pond Run With Standing Water



Priority Basins in Pond Run



Basins in Pond Run Suitable for Infiltration Retrofits



Attachment 3 Stormwater Basin Assessments

ID#	Location
101.	E State St and Sculptors Way
102.	130 Sculptors Way
103.	130 Sculptors Way
104.	1475 Nottingham Way
105.	Libby Court
106.	Leonard Ave and Newkirk Ave
107.	281 Miami Ave
108.	1113 Kruser Rd
109.	1113 Kruser Rd
110.	Nottinghill Ln
111.	Nottinghill Ln
112.	I-295 and Cypress Ln
113.	1507 Klockner Rd
114.	1507 Klockner Rd
115.	Natrona Ave and Erie Ave
116.	I-295 and Hamilton Ave
117.	949 RT-33
118.	Paxson Ave Ext
119.	989 RT-33
120.	12 Imperial Dr
121.	1 Foy Dr
122.	1991 Klockner Rd
123.	1715 Whitehorse Mercerville Rd
124.	1673 Whitehorse Mercerville Rd
125.	1407 Whitehorse Mercerville Rd

ID#	Location
126.	1323 Whitehorse Mercerville Rd
127.	1323 Whitehorse Mercerville Rd
128.	19 Justice Samuel A. Alito Jr. Way
129.	1255 Whitehorse Mercerville Rd
130.	1702 Kruser Rd
131.	1702 Kruser Rd
132.	1305 Kruser Rd
133.	1305 Kruser Rd
134.	1763 Kruser Rd
135.	1134 Whitehorse Hamilton Square Rd
136.	1226 Whitehorse Hamilton Square Rd
137.	76 Noa Ct
138.	1410 Whitehorse Hamilton Square Rd
139.	1580 Whitehorse Hamilton Square Rd
140.	Lehavre Ct
141.	Cheverny Ct
142.	Cypress Ln and Cottonwood Dr
143.	Silver Ct
144.	Silver Ct
145.	Silver Ct
146.	1598 Whitehorse Hamilton Square Rd
147.	1746 Whitehorse Hamilton Square Rd
148.	1760 Whitehorse Hamilton Square Rd
149.	Silver Ct
150.	Meadowlark Dr and Goldfinch Dr

ID#	Location
151.	85 Hamilton Health Pl
152.	63 Hamilton Health Pl
153.	Hamilton Health Pl & Klockner Rd
154.	Kelly Ct
155.	Crawford Ct and Crestpoint Dr
156.	Bozarth Ct
157.	Gena Ct
158.	Bozarth Ct
159.	224 Kruser Rd
160.	224 Kruser Rd
161.	224 Kruser Rd
162.	Carl Sandburg Dr
163.	Mint Leaf Dr and Limewood Dr
164.	Great Oak Rd and Dukoff Dr
165.	Limewood Dr and RT-33
166.	Innocenzi Dr and Great Oak Rd
167.	Innocenzi Dr and Great Oak Rd
168.	2200 RT-33
169.	4265 RT-33
170.	4265 RT-33
171.	2244 RT-33
172.	2307 RT-33
173.	1027 Washington Blvd
174.	2311 RT-33
175.	2311 RT-33

Hamilton A Destination "America's Favorite Hometown" Established 1692

RUTGERS New Jersey Agricultural Experiment Station

Water Resources Program

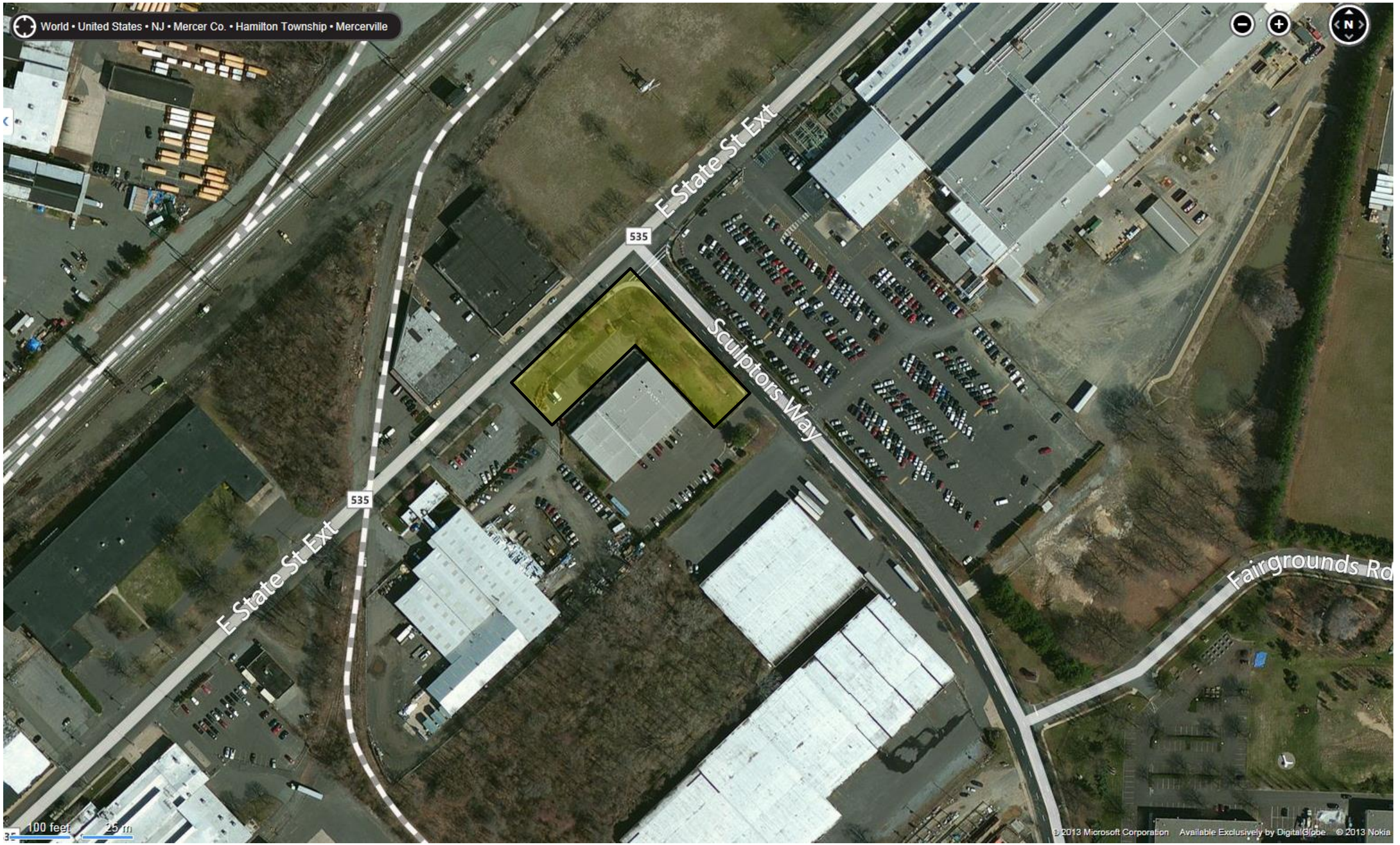
2013

Hamilton Township

Stormwater Basin Assessment

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

<u>Address:</u>
E State St and Sculptors Way
Trenton, NJ 08619



Home

Hamilton Township
Stormwater Basin Assessment
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

Outlet structure

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
102 & 103. Sculptors Way Detention Basins

<u>Address:</u>
130 Sculptors Way
Trenton, NJ 08619

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Hamilton Township
Stormwater Basin Assessment
102. Sculptors Way Detention Basin (a)

Address:
130 Sculptors Way
Trenton, NJ 08619

Overgrown inlet

Exposed earth

Basin bottom looking north

NOTES:

- There is excessive plant growth around inlet and outlet
- There is standing water in basin bottom
- There are some areas of exposed earth in the basin bottom

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

Address:
130 Sculptors Way
Trenton, NJ 08619

Basin bottom looking west

Inlet structure breakage

Outlet structure with slumping and breakage

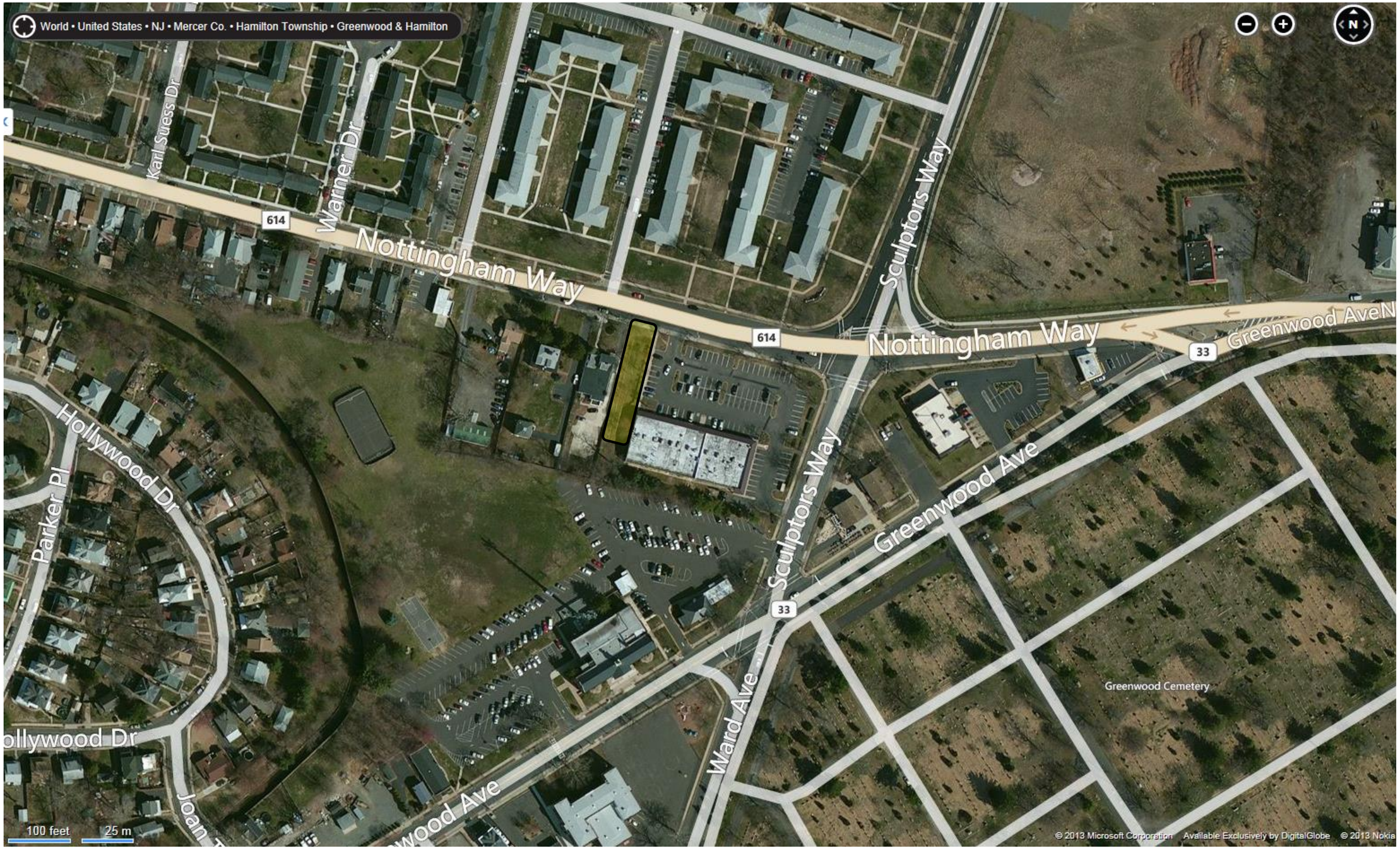
NOTES:

- 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

Home

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

<u>Address:</u>
1475 Nottingham Way
Trenton, NJ 08609



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

Address:
1475 Nottingham Way
Trenton, NJ 08609

Severe erosion in swale inlet

Outlet structure

Basin bottom looking north

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
105. Libby Court Residential Detention Basin

Address:
Libby Court
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
105. Libby Court Residential Detention Basin

<u>Address:</u>
Libby Court
Trenton, NJ 08619

Basin bottom looking southeast

Outlet structure

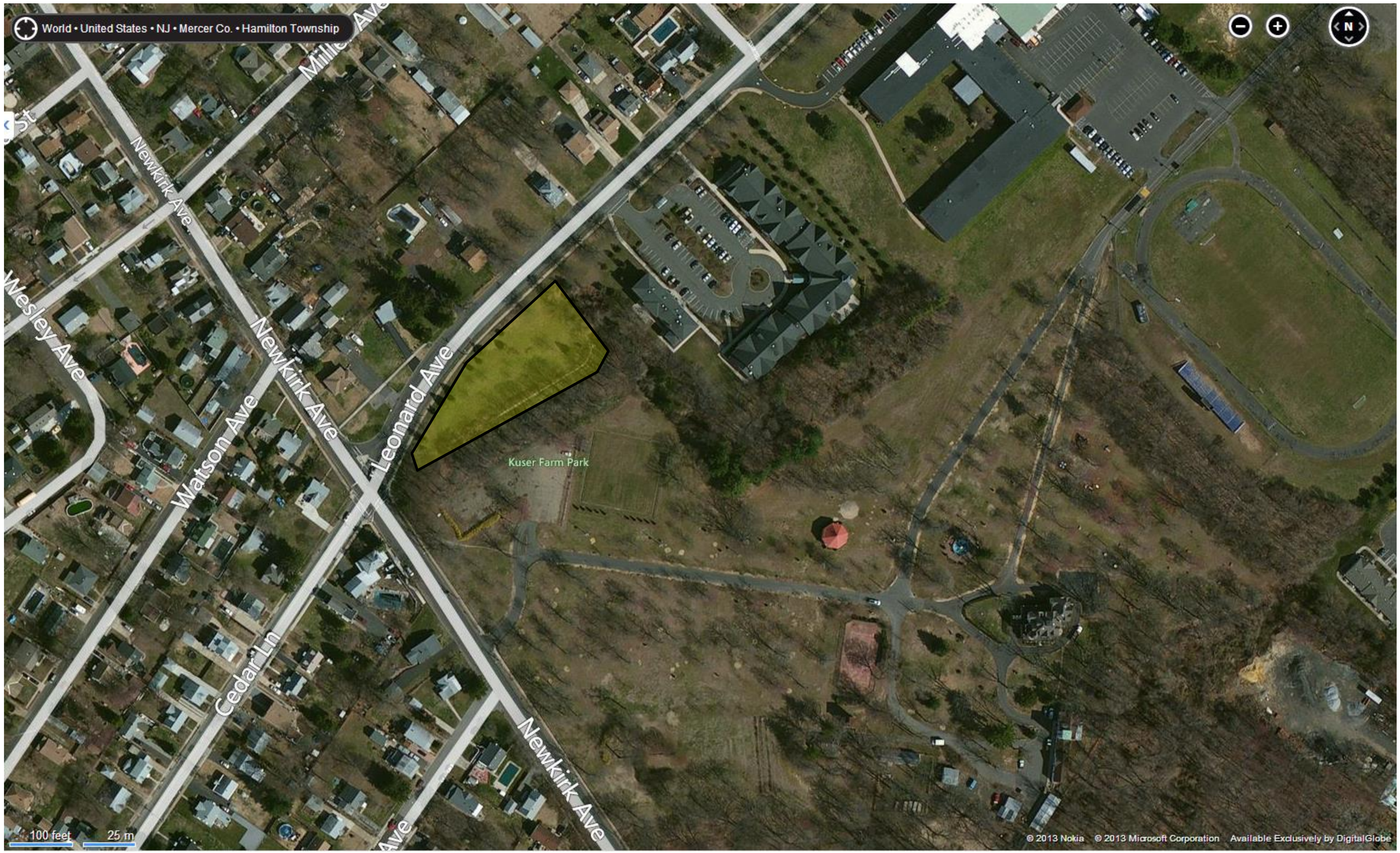
NOTES:

- Basin is located in multiple resident's backyards making access limited
- Outlet low flow appears to be clogged
- Appears to be maintained to some degree by residents

Home

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

<u>Address:</u>
Leonard Ave and Newkirk Ave
Trenton, NJ 08610



Home

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

Address:
Leonard Ave and Newkirk Ave
Trenton, NJ 08610

Outlet structure

Plant growth around inlet

Severe ponding in basin

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment

107. Mercer Spring and Alignment Detention Basin

Address:
281 Miami Ave
Trenton, NJ 08610

*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
108 & 109. Kruser Road Detention Basins

Address:
1113 Kruser Rd
Trenton, NJ 08619

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Hamilton Township
Stormwater Basin Assessment
110 & 111. Nottinghill Lane Detention Basins

<u>Address:</u>
Nottinghill Ln
Trenton, NJ 08619

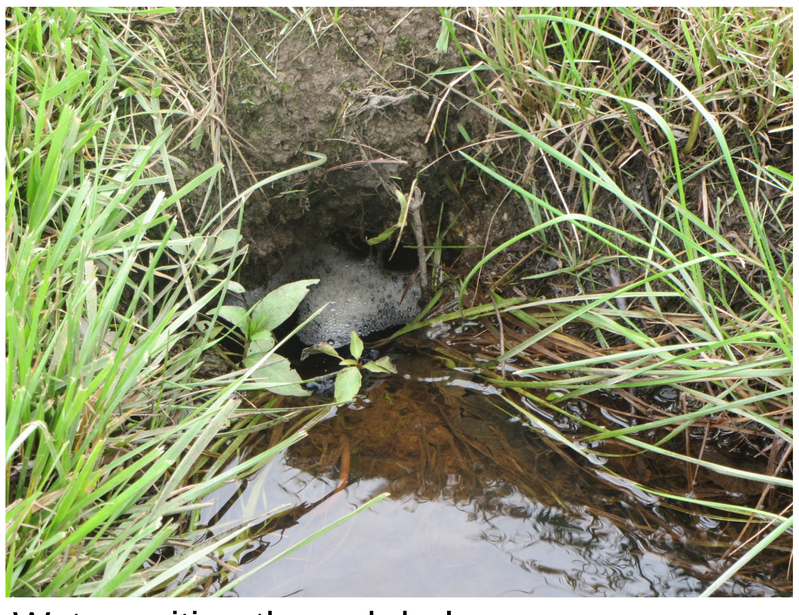
*Did not assess basin #111 due to limited accessibility

Home

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

Address:
Nottinghill Ln
Trenton, NJ 08619

Outlet grate



Water exiting through hole

Basin bottom looking north

NOTES:

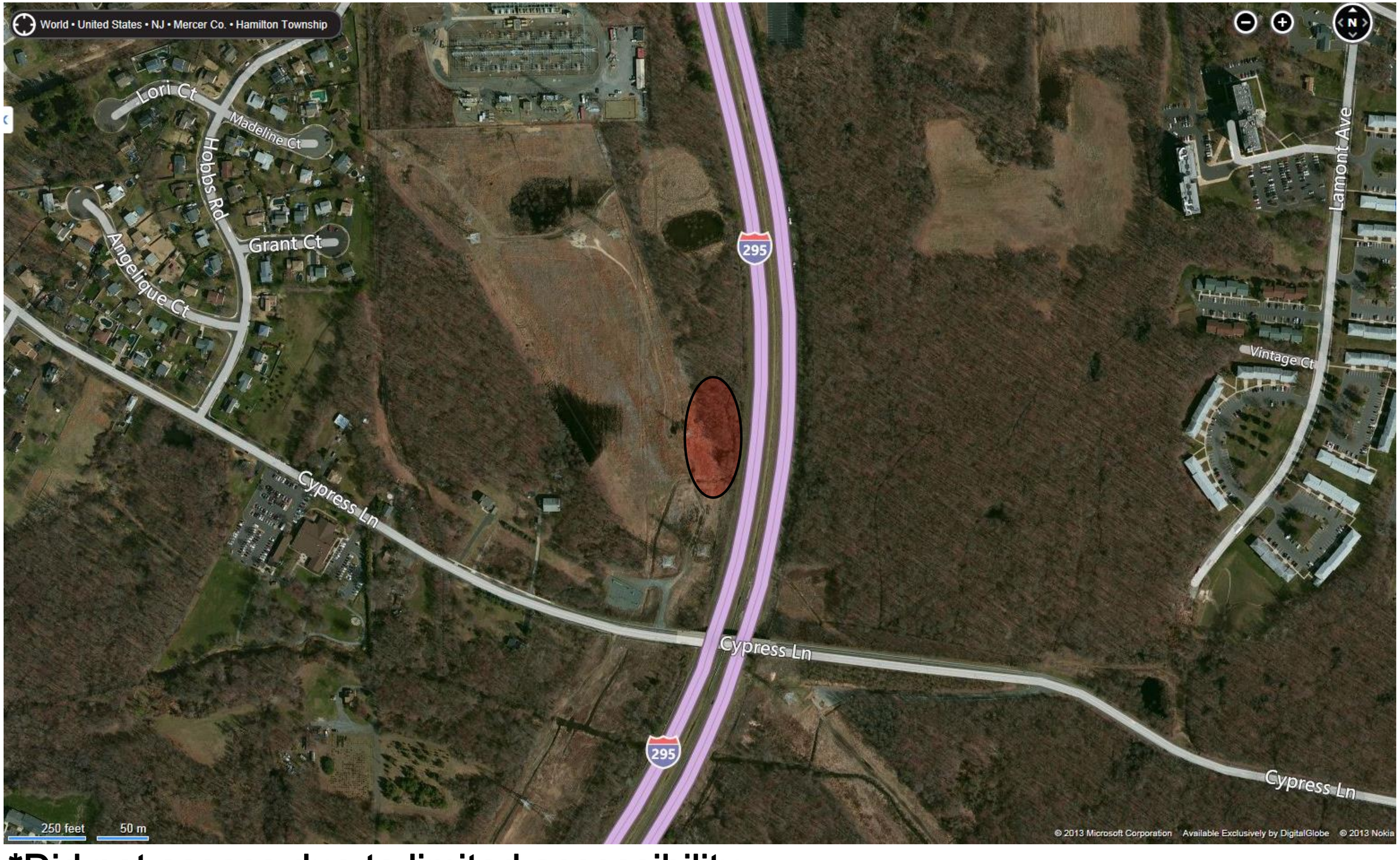
- Basin intercepts a natural stream
- Water is exiting through cracks in the sides of the outlet rather than the grate
- Water is exiting through a hole in the ground before reaching the outlet

Home

Hamilton Township
Stormwater Basin Assessment

112. I-295 & Cypress Lane Detention Basin

Address:
I-295 and Cypress Ln
Trenton, NJ 08619



*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
113 & 114. Knights of Columbus Detention Basins

<u>Address:</u>
1507 Klockner Rd
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
113. Knights of Columbus Detention Basin (a)

Address:
1507 Klockner Rd
Trenton, NJ 08619

Basin bottom looking south

Basin bottom looking north

Excess sediment and soil in low flow channel

NOTES:

- Curb cut inlet has some signs of erosion
- Excess sediment and soil in low flow channel in front of outlet structure

Home

Hamilton Township
Stormwater Basin Assessment
114. Knights of Columbus Detention Basins (b)

Address:
1507 Klockner Rd
Trenton, NJ 08619

Basin bottom looking west

Excess plant growth around outlet

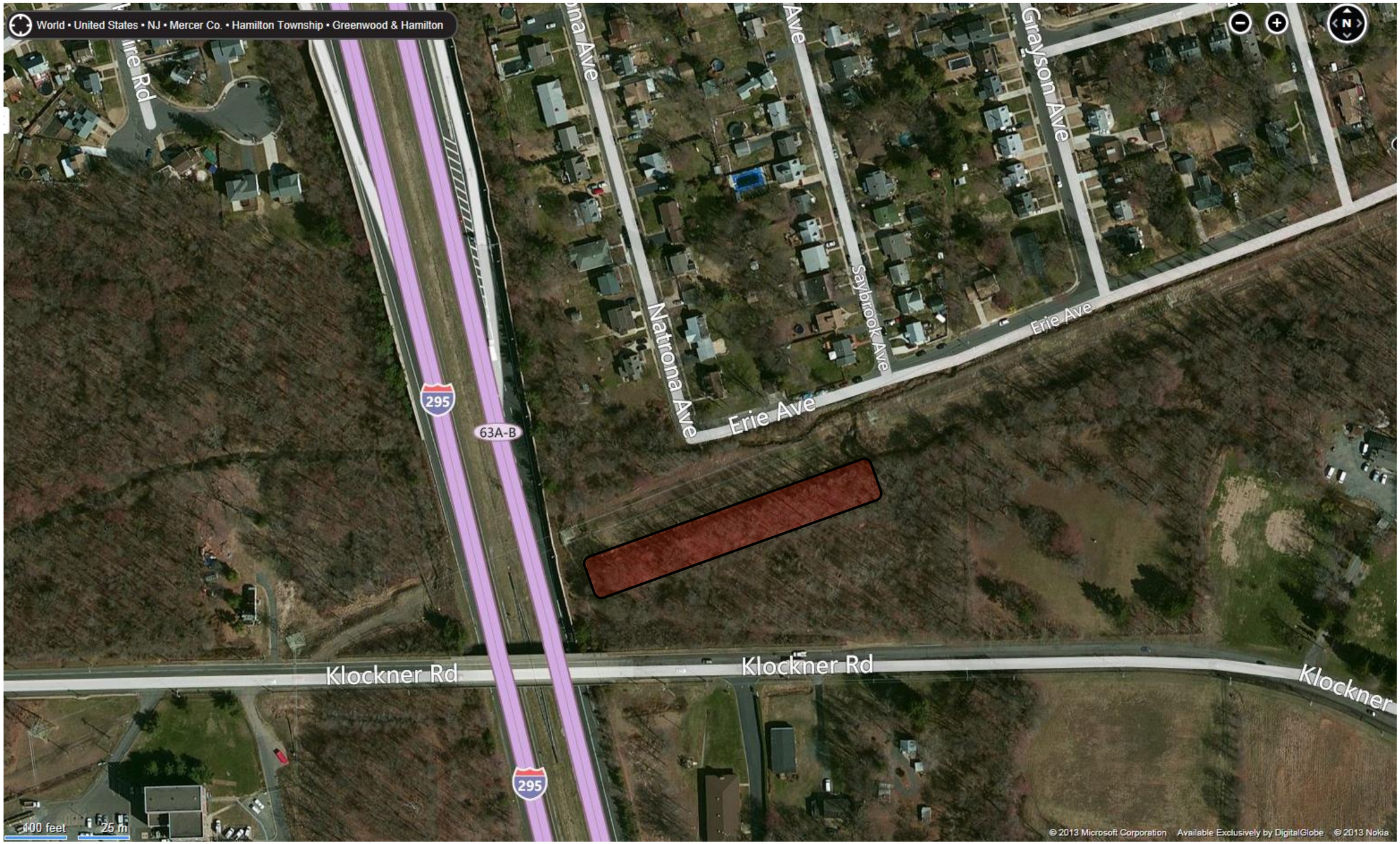
NOTES:

- Basin is overgrown with various types of plants
- There is excessive plant growth around inlet and outlet structure
- There is standing water in the basin due to excessive sediment in front of outlet

Home

Hamilton Township
Stormwater Basin Assessment
115. Erie Avenue Detention Basin

Address:
Natrona Ave and Erie Ave
Trenton, NJ 08619

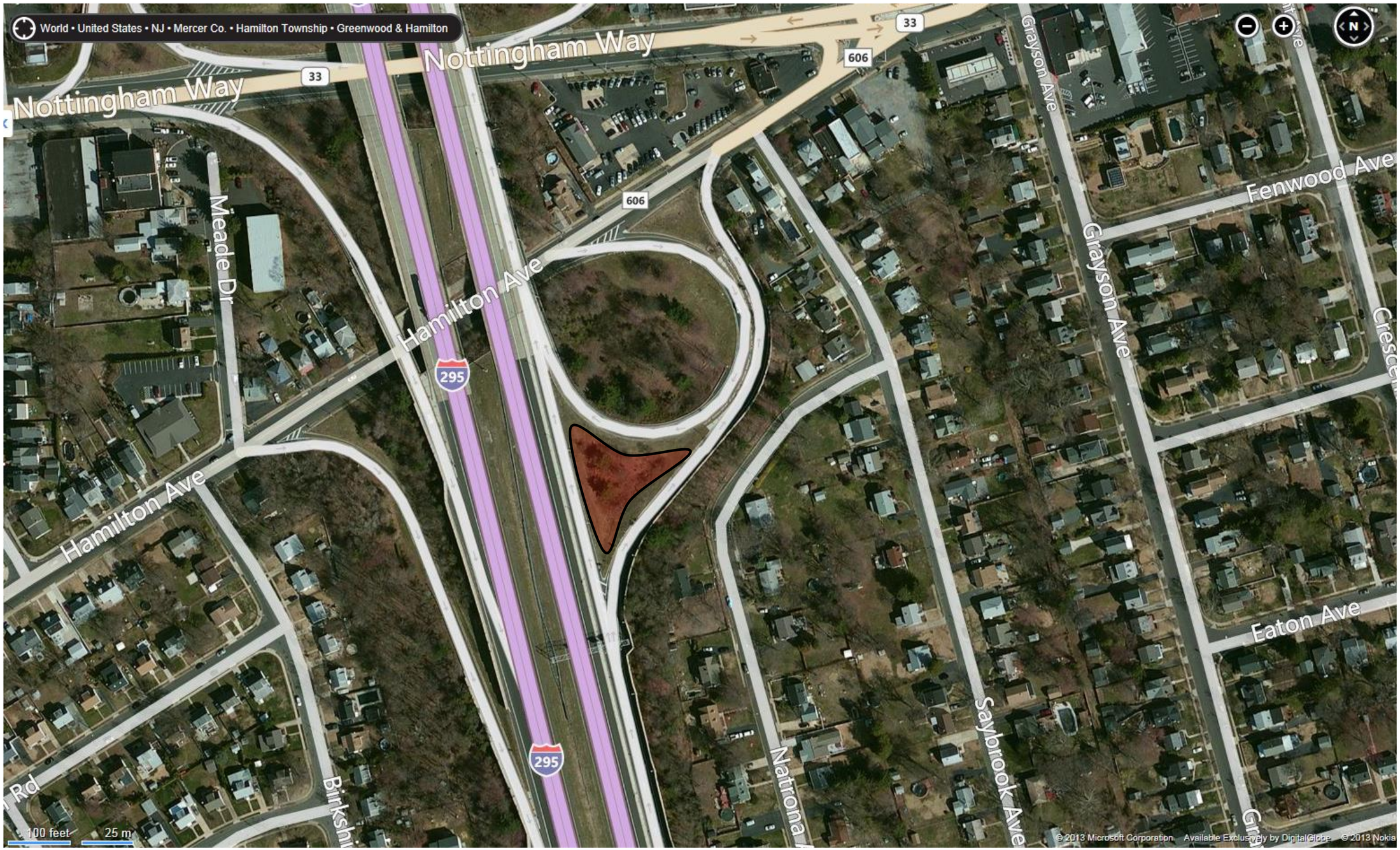


*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
116. I-295 & Hamilton Avenue Detention Basin

<u>Address:</u>
I-295 and Hamilton Ave
Trenton, NJ 08619

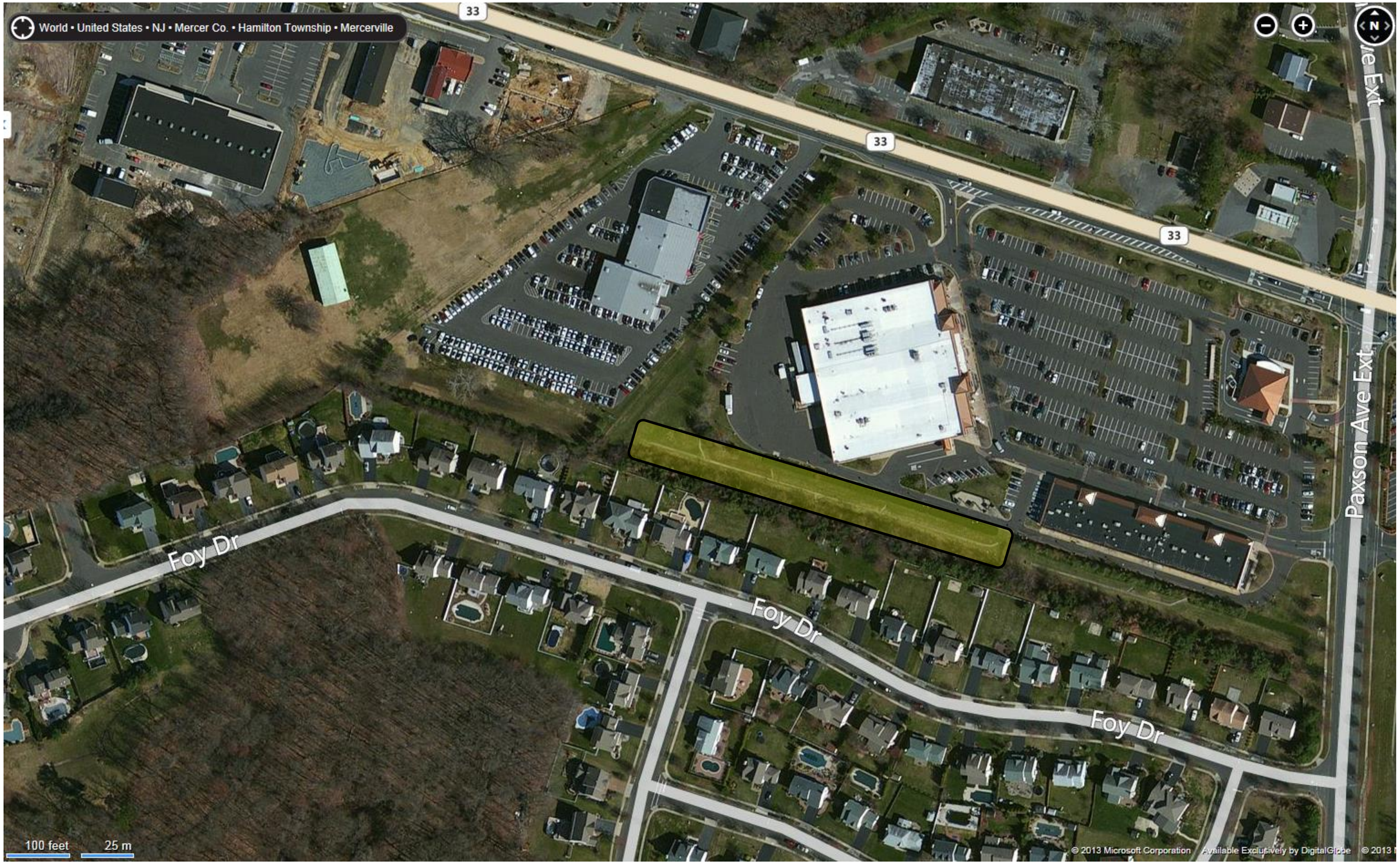


*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
117. Acme Detention Basin

Address:
949 RT-33
Trenton, NJ 08690



Home

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

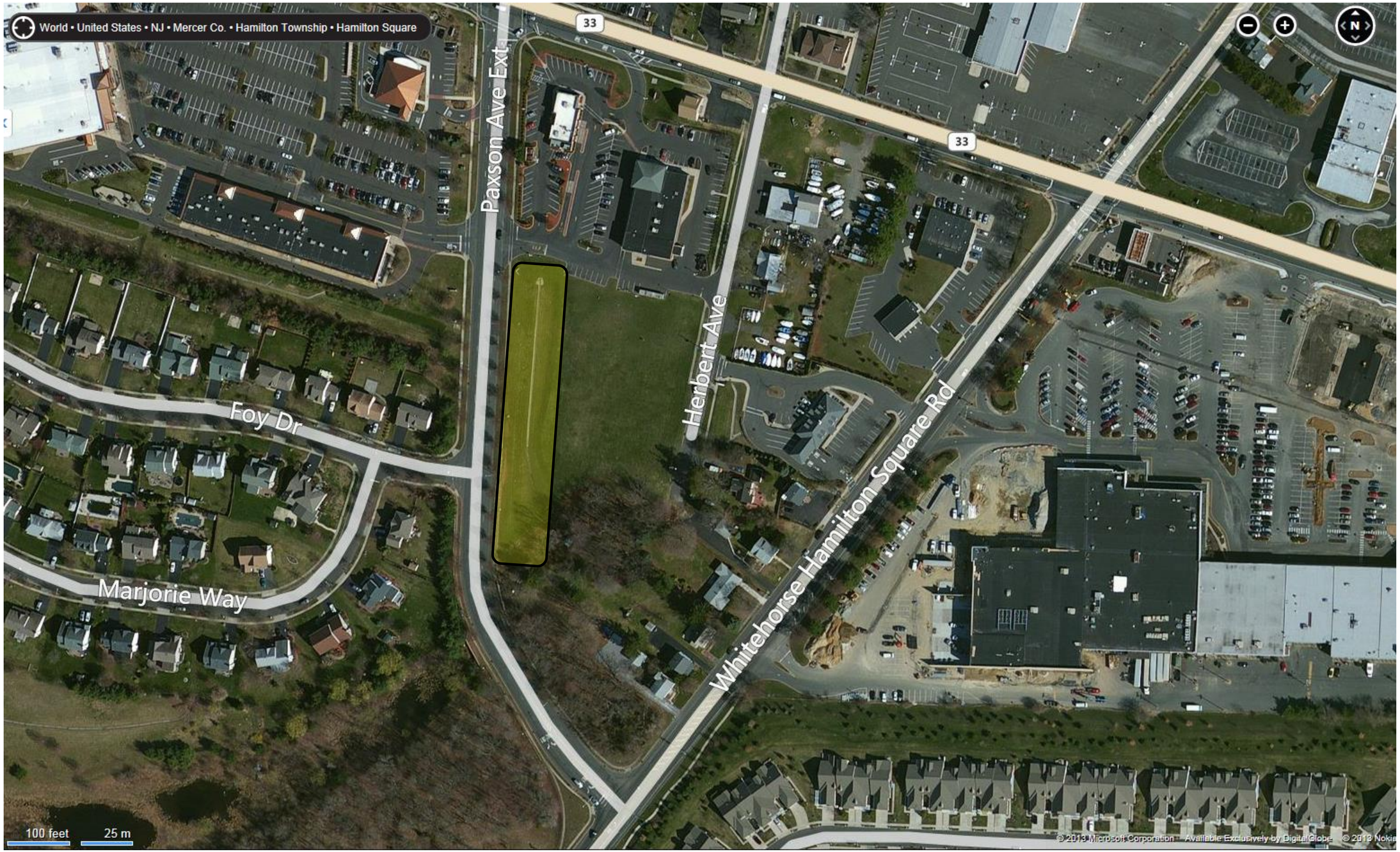
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
118. CVS Pharmacy Detention Basin

<u>Address:</u>
Paxson Ave Ext
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
118. CVS Pharmacy Detention Basin

Address:
Paxson Ave Ext
Trenton, NJ 08690

Outlet structure missing grate

Basin bottom looking south

Excess sediment in low flow channel

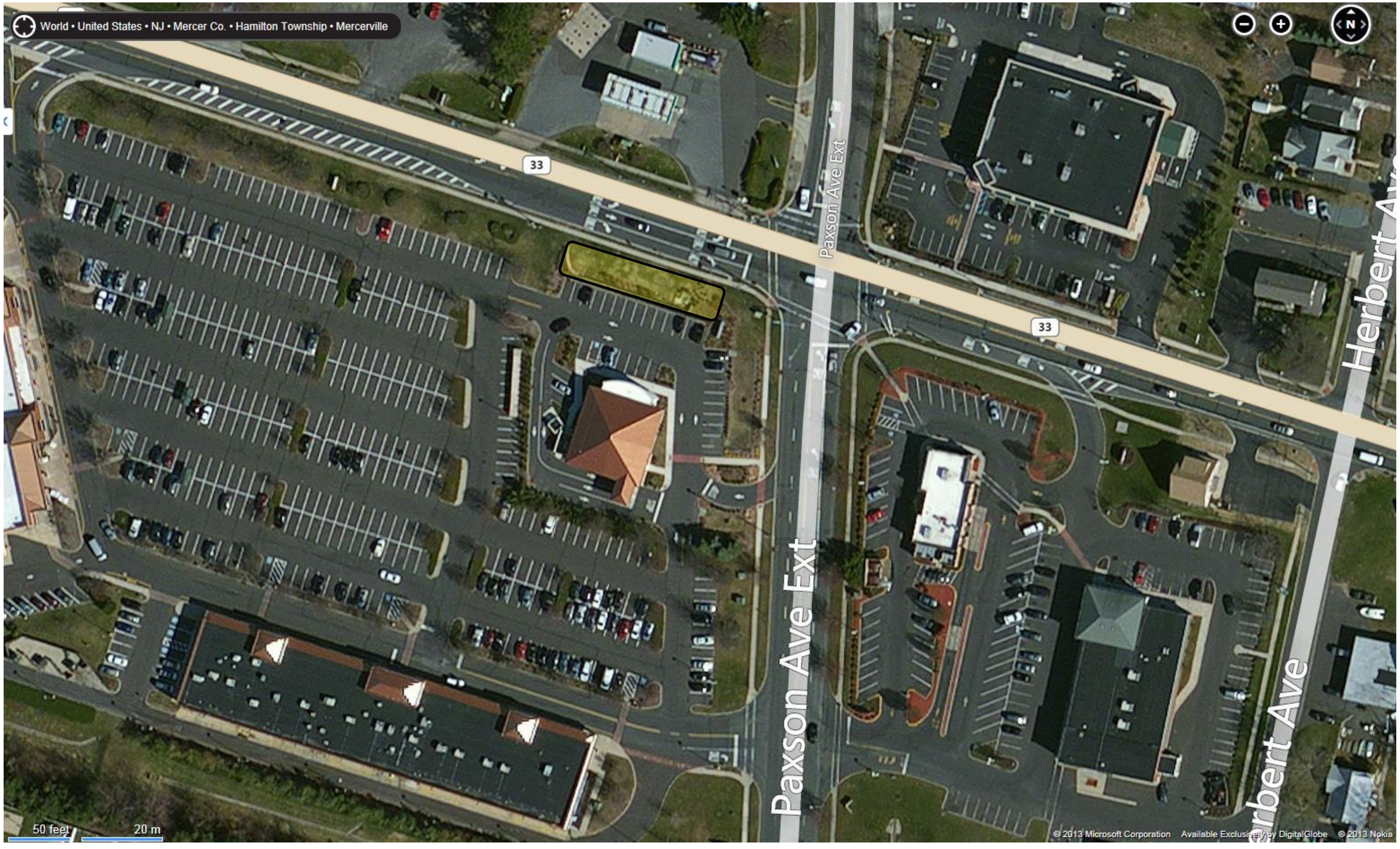
NOTES:

- There is excess sediment accumulated and standing water in the low flow channel
- Outlet structure is missing top grate
- Outlet low flow orifice trash rack is clogged with grass clippings and leaves

Home

Hamilton Township
Stormwater Basin Assessment
119. Chase Bank Detention Basin

Address:
989 RT-33
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
119. Chase Bank Detention Basin

Address:
989 RT-33
Trenton, NJ 08690

Outlet with excess mulch

Western inlet clogged with leaves

Basin bottom looking west

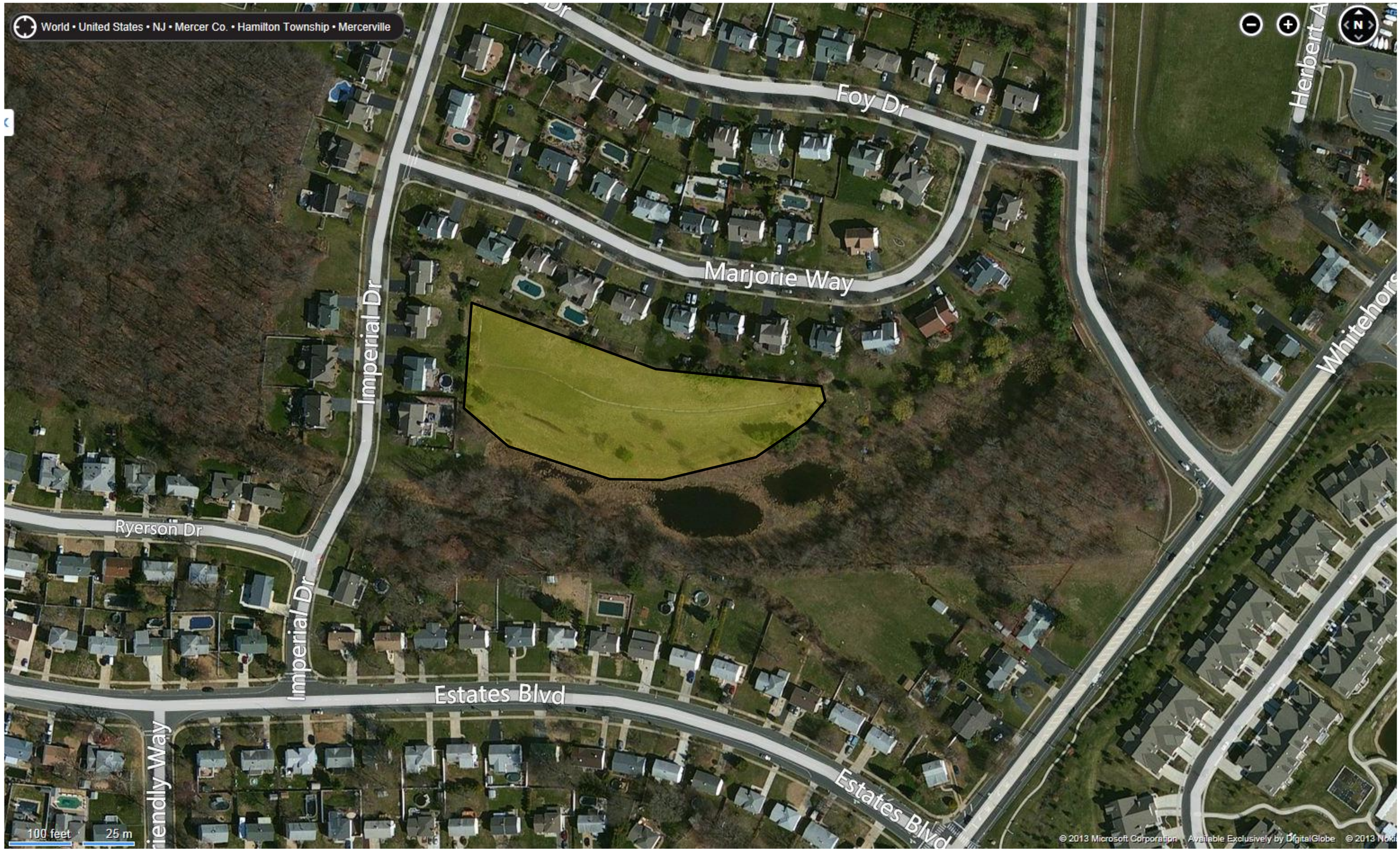
NOTES:

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

Home

Hamilton Township
Stormwater Basin Assessment
120. Imperial Drive Residential Detention Basin

Address:
12 Imperial Dr
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
120. Imperial Drive Residential Detention Basin

Address:
12 Imperial Dr
Trenton, NJ 08690

Overgrown inlet

Inlet structure and overgrown rip-rap apron

Basin bottom looking west

Overgrown outlet structure

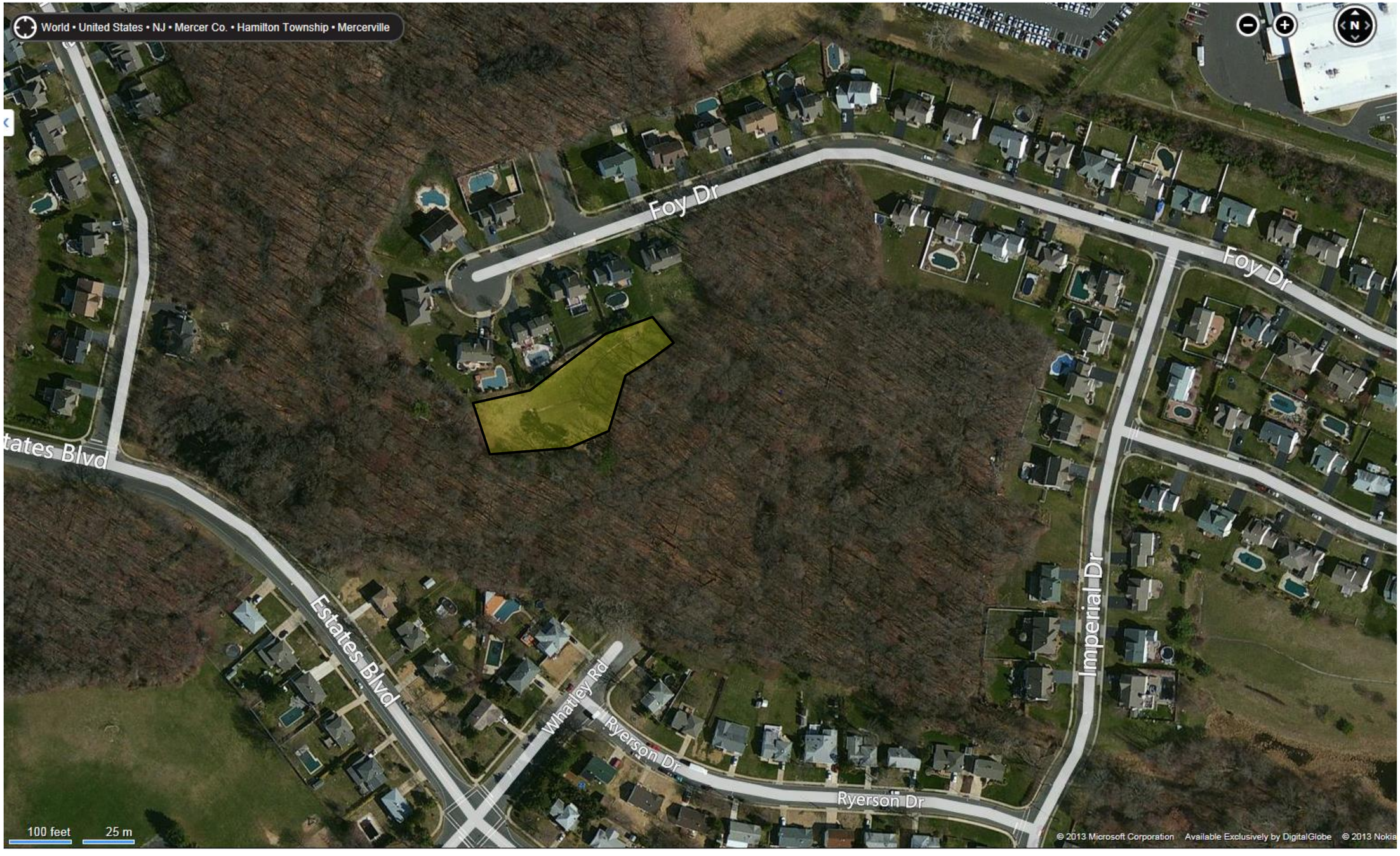
NOTES:

- Two of the three inlet structures are overgrown and inaccessible
- The most northwestern inlet is filled with sediment and the rip rap apron has spilled into the low flow channel
- The outlet is overgrown with woody growth and the trash rack is clogged with sediment and debris

Home

Hamilton Township
Stormwater Basin Assessment
121. Foy Drive Residential Detention Basin

<u>Address:</u>
1 Foy Dr
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
121. Foy Drive Residential Detention Basin

Address:
1 Foy Dr
Trenton, NJ 08690

Outlet Structure

Overgrown inlet structure

Basin discharge area

Basin looking southwest

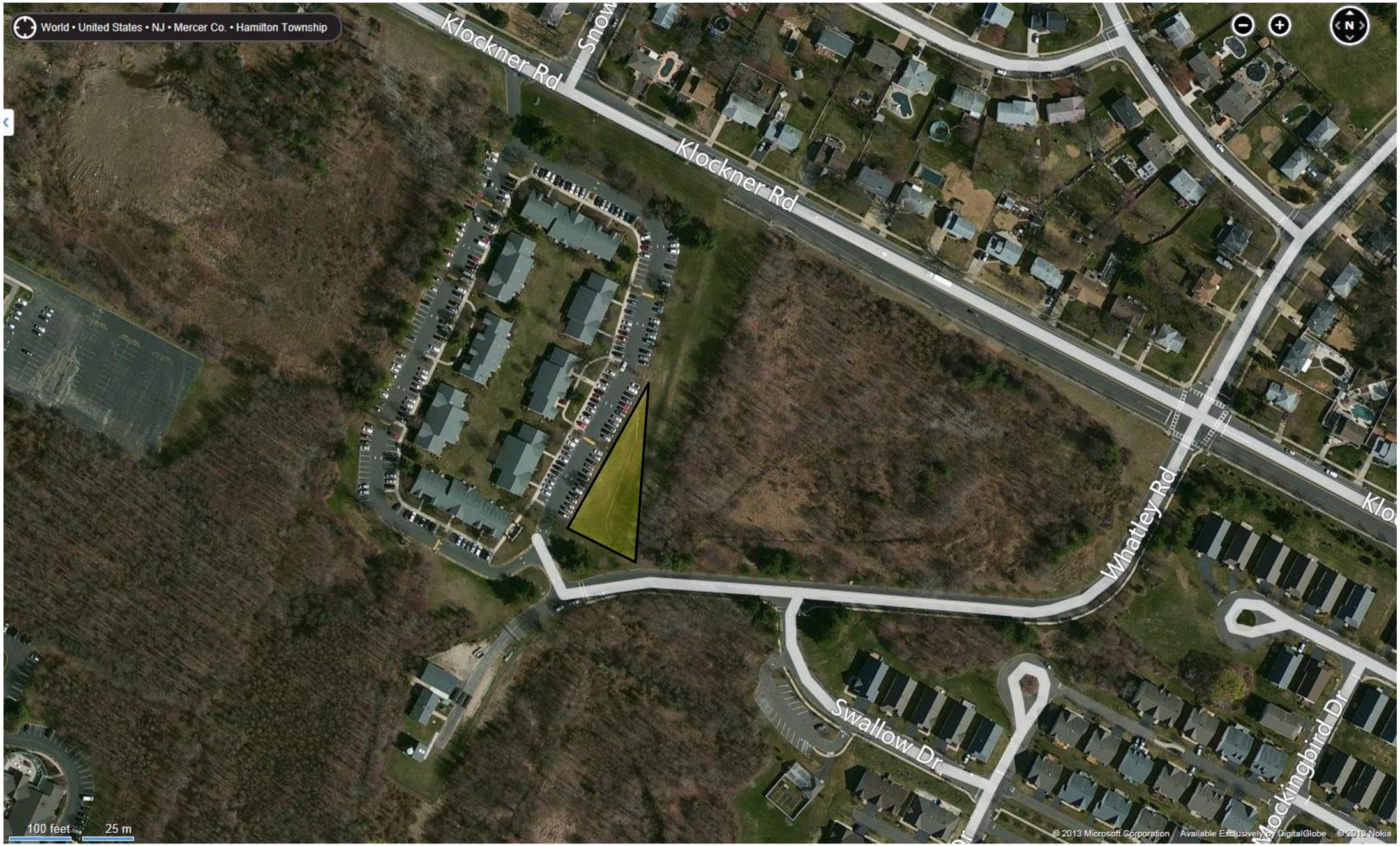
NOTES:

- There is excess sediment accumulated in the low flow channel that is restricting the flow of water
- The western inlet has excess plant growth throughout its rip rap apron
- The outlet has minimal sediment accumulated in front of it
- The basin discharge area has excessive plant growth

Home

Hamilton Township
Stormwater Basin Assessment
122. Hamilton Cardiology Associates Detention Basin

<u>Address:</u>
1991 Klockner Rd
Trenton, NJ 08619



Home

Hamilton Township
Stormwater Basin Assessment
122. Hamilton Cardiology Associates Detention Basin

Address:
1991 Klockner Rd
Trenton, NJ 08619

Outlet structure

Bare spot on eastern embankment

Basin bottom looking south

NOTES:

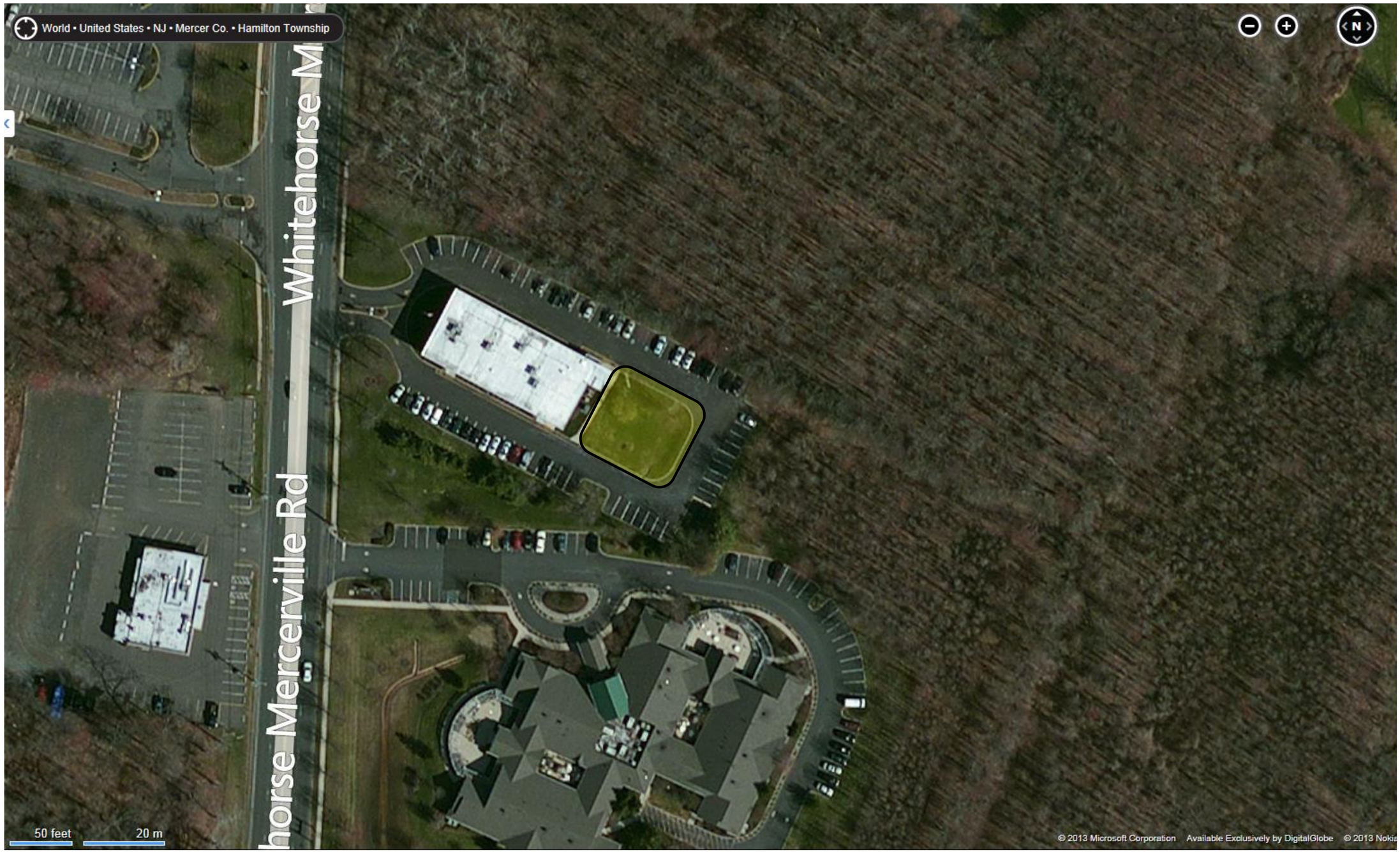
- Outlet has minor cracks in parging
- There is excess sediment accumulated and standing water in the low flow channel
- There is excess sediment accumulated in the outlet low flow orifice
- Eastern embankment has a large bare spot

Home

Hamilton Township
Stormwater Basin Assessment

Address:
1715 Whitehorse Mercerville Rd
Trenton, NJ 08619

123. Whitehorse Professional Building Detention Basin



Home

Hamilton Township
Stormwater Basin Assessment

Address:
1715 Whitehorse Mercerville Rd
Trenton, NJ 08619

123. Whitehorse Professional Building Detention Basin

Erosion around northeastern inlet

Rip-rap blocking low flow orifice

Erosion around southeastern inlet

Basin bottom looking northeast

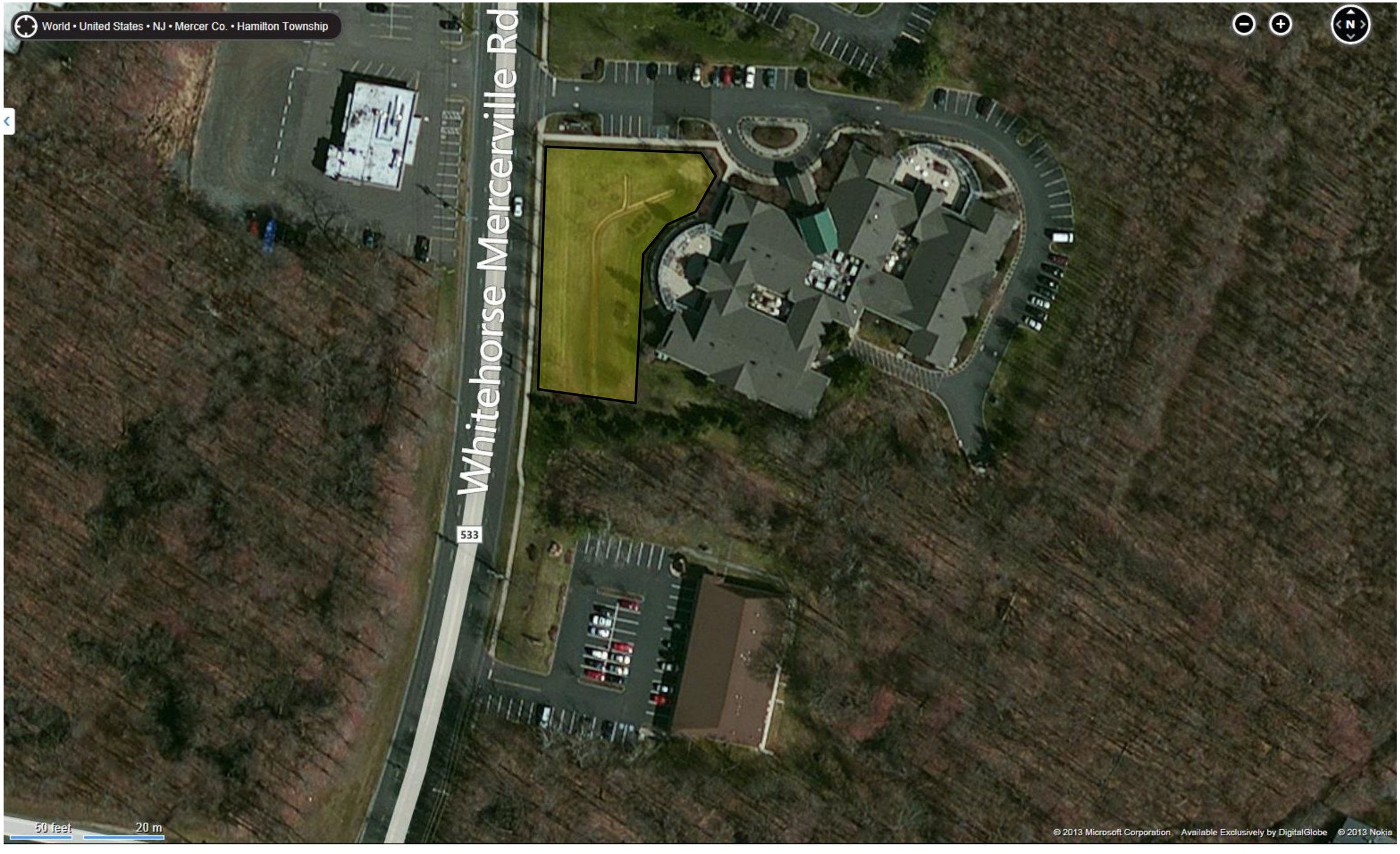
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
124. Clare Bridge Detention Basin

<u>Address:</u>
1673 Whitehorse Mercerville Rd
Trenton, NJ 08619



Home

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

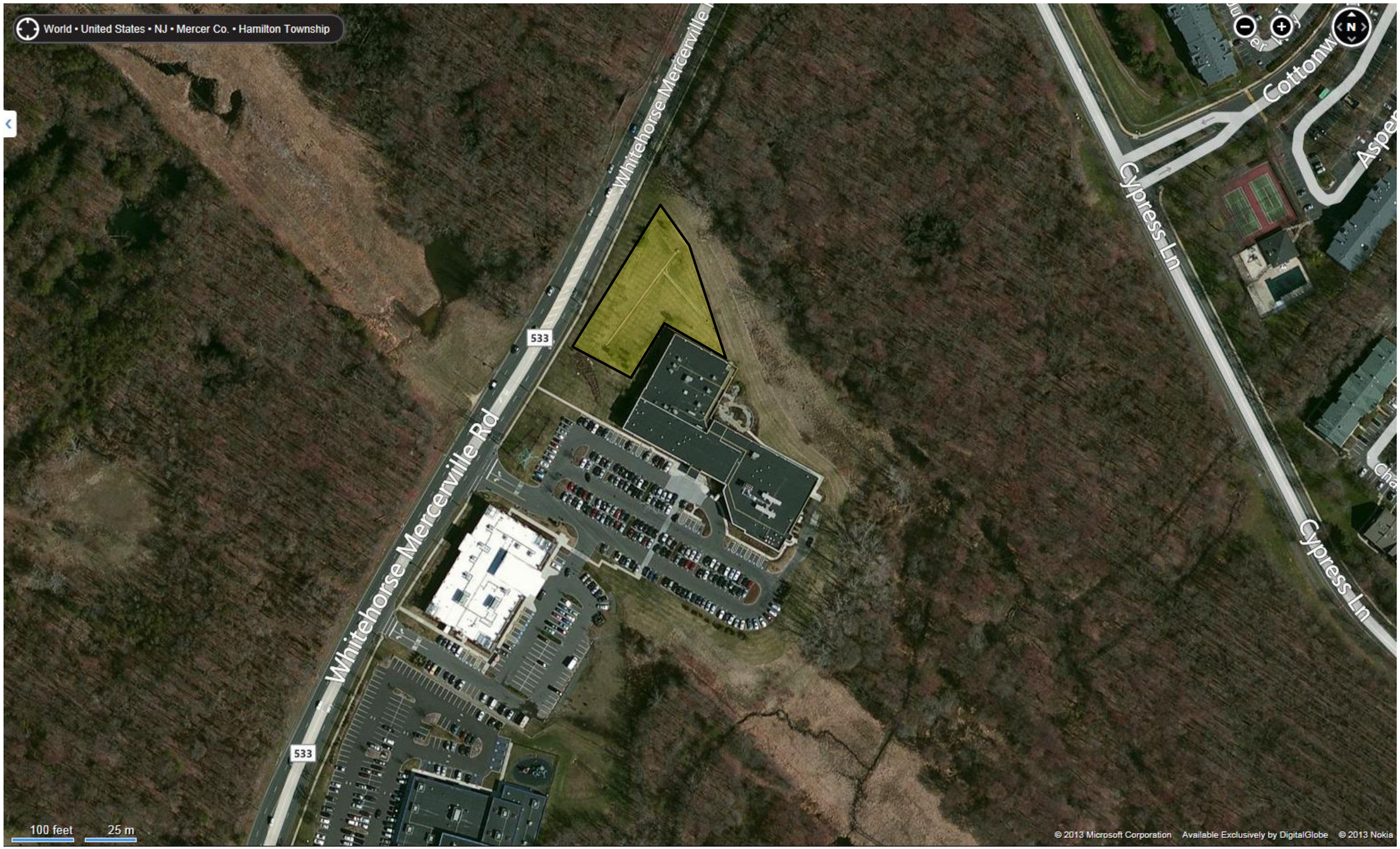
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
125. Capital Health Detention Basin

<u>Address:</u>
1407 Whitehorse Mercerville Rd
Trenton, NJ 08619



Home

Hamilton Township
Stormwater Basin Assessment
125. Capital Health Detention Basin

Address:
1407 Whitehorse Mercerville Rd
Trenton, NJ 08619

Basin bottom looking north

Outlet structure

Algal growth in low flow channel

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
126 & 127. YMCA Detention Basins

Address:
1323 Whitehorse Mercerville Rd
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
126. YMCA Detention Basin (a)

Address:
1323 Whitehorse Mercerville Rd
Trenton, NJ 08619

Ponding in front of the inlet

Outlet structure

Basin outfall area

Basin overview looking south

NOTES:

- There is standing water throughout the basin, most notably in front of the inlet
- The outlet structure has an unstable cinderblock addition that may not remain intact over time
- There is standing water in the basin outfall area

Home

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

Address:
1323 Whitehorse Mercerville Rd
Trenton, NJ 08619

Outlet structure

Basin bottom looking northeast

Erosion in front of inlet

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
128. Hamilton Twp Library Detention Basin

<u>Address:</u>
19 Justice Samuel A. Alito Jr. Way
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
128. Hamilton Twp Library Detention Basin

Address:
19 Justice Samuel A. Alito Jr. Way
Trenton, NJ 08619

Concrete deterioration on southern inlet

Concrete deterioration on northern inlet

Basin bottom looking west

NOTES:

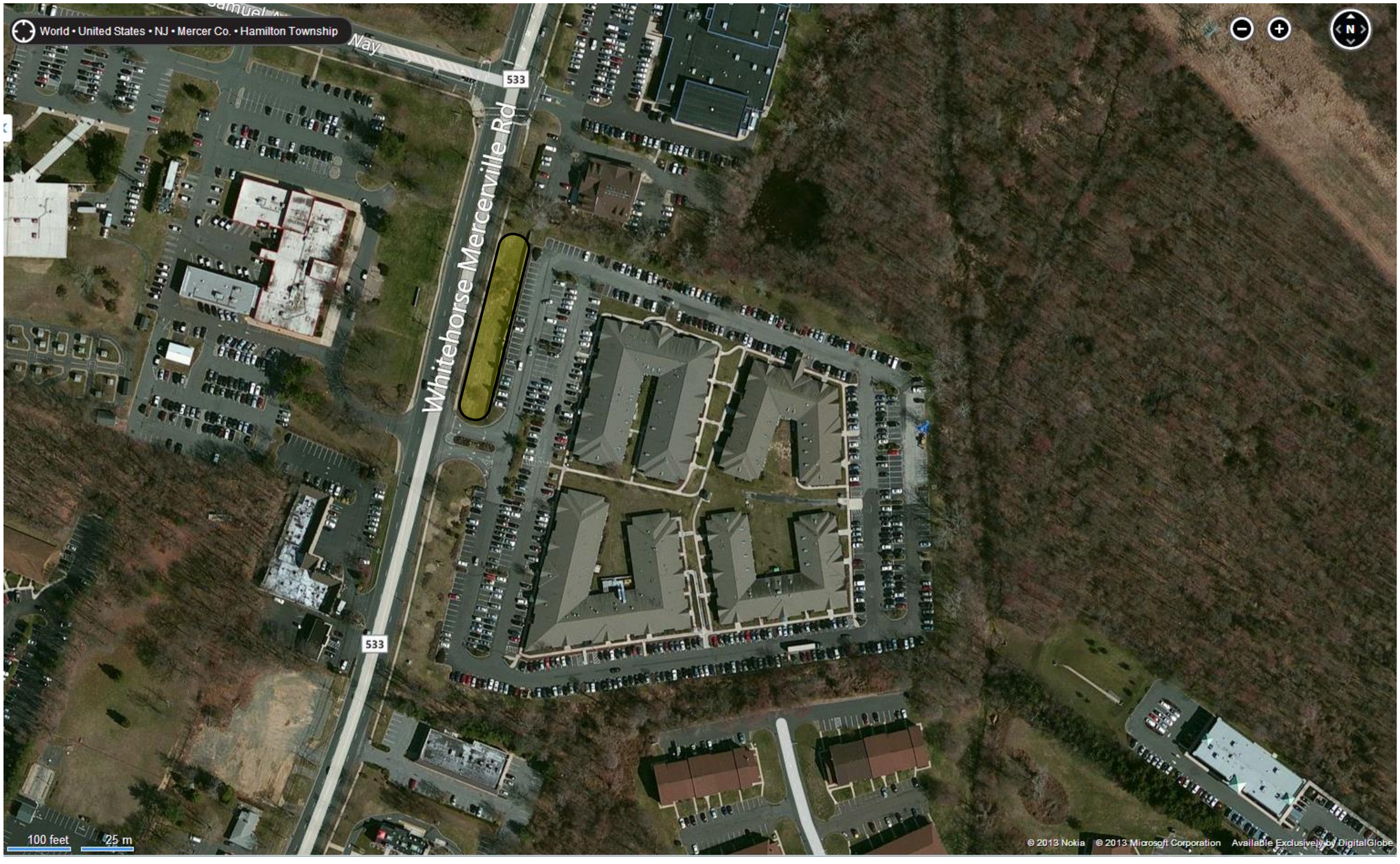
- There is excessive ponding in the basin bottom, ponding reaches depths of about three feet
- Outlet is overgrown by brush, it is located in the northern corner. The outlet is clogged with sediment, causing the ponding in the basin
- There is concrete deterioration on both inlets

Home

Hamilton Township
Stormwater Basin Assessment

129. Whitehorse Executive Center Detention Basin

Address:
1255 Whitehorse Mercerville Rd
Trenton, NJ 08619



Home

Hamilton Township
Stormwater Basin Assessment
129. Whitehorse Executive Center Detention Basin

Address:
1255 Whitehorse Mercerville Rd
Trenton, NJ 08619

Inlet structure clogged with sediment

Pipes entering basin through wall

Outlet structure

Basin looking south and bare spot

NOTES:

- Inlet is clogged with excess sediment, restricting the flow of water. The excess sediment needs to be removed to allow flow into basin
- Outlet low flow orifice is clogged with sediment and debris
- Basin bottom has a large bare area with invasive ground cover out-competing turf

Home

Hamilton Township
Stormwater Basin Assessment
130. & 131. Sovereign Bank & Tile Shop Detention Basins

<u>Address:</u>
1702 Kruser Rd
Trenton, NJ 08690

*Did not assess basin #130 due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
131. Sovereign Bank & Tile Shop Detention Basin (b)

Address:
1702 Kruser Rd
Trenton, NJ 08690

Area where basin discharges to woods

Ponding with algae growth

Basin bottom looking northeast

NOTES:

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

Home

Hamilton Township
Stormwater Basin Assessment
132 & 133. Princeton Women's Services Detention Basins

Address:
1305 Kruser Rd
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
132 & 133. Princeton Women's Services Detention Basins

Address:
1305 Kruser Rd
Trenton, NJ 08619

Overgrown outlet

Basin #133 looking north

Erosion and breakage at inlet

Basin #132 looking northwest

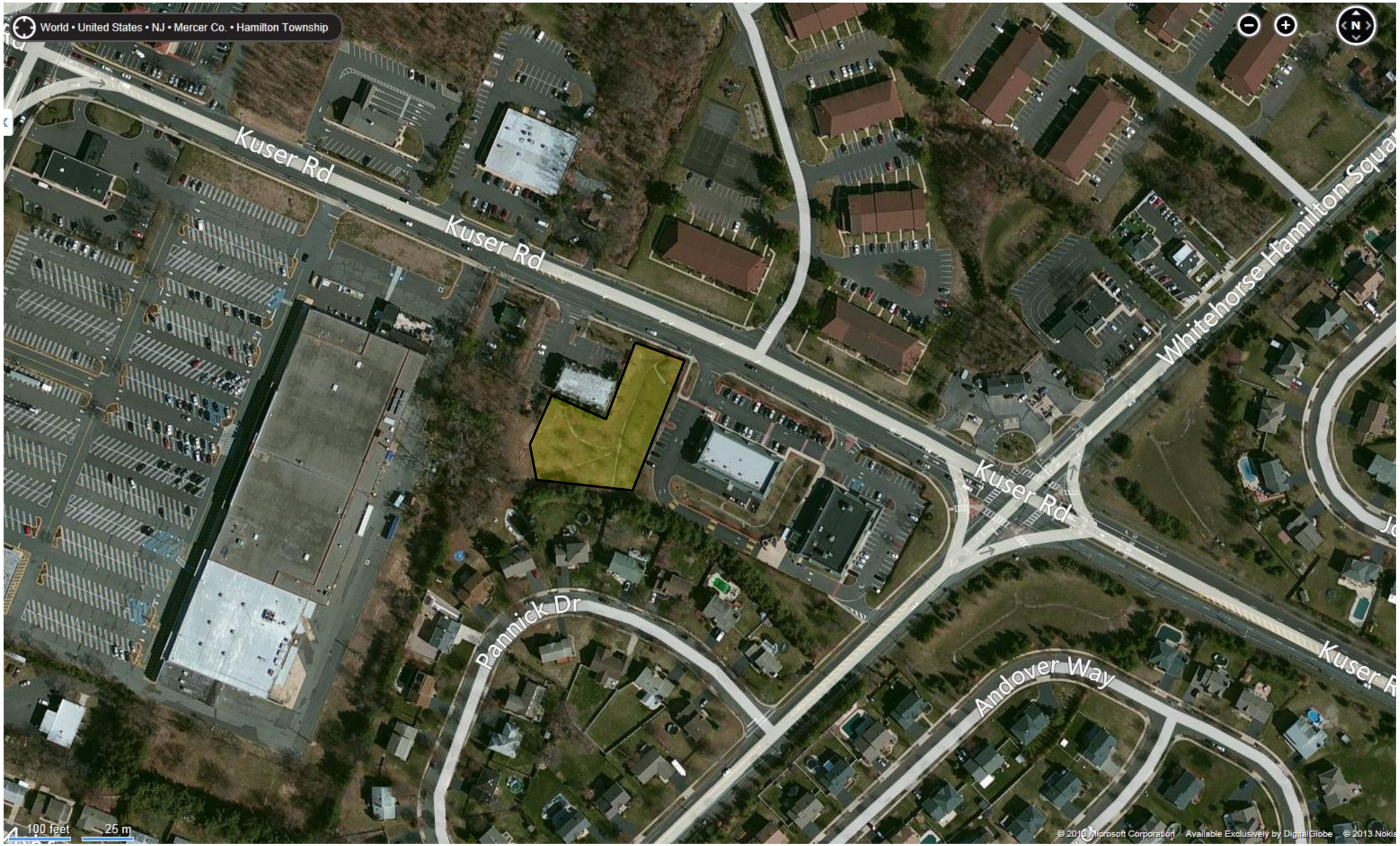
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
134. Monro Muffler Detention Basin

Address:
1763 Kuser Rd
Trenton, NJ 08619



Home

Hamilton Township
Stormwater Basin Assessment
134. Monro Muffler Detention Basin

Address:
1763 Kruser Rd
Trenton, NJ 08619

Overgrown southern inlet

Sediment accumulation in low flow channel

Outlet structure

Basin bottom looking north

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
135. TD Bank Detention Basin

Address:
1134 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
135. TD Bank Detention Basin

Address:
1134 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Outlet structure

Inlet structure

Basin bottom looking northeast

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
136. Allies Detention Basin

Address:
1226 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
136. Allies Detention Basin

Address:
1226 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Inlet structure

Basin looking northwest

Clogged outlet trash rack

NOTES:

- Outlet trash rack is clogged with grass clippings and debris
- There is excess sediment accumulated in the low flow channel in front of the outlet
- Inlet structure has some cracking
- Basin bottom has tread marks

Home

Hamilton Township
Stormwater Basin Assessment
137. Noa Court Residential Detention Basin

Address:
76 Noa Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
137. Noa Court Residential Detention Basin

Address:
76 Noa Ct
Trenton, NJ 08690

Basin bottom looking northeast

Litter and debris accumulated inside outlet

Outlet structure

NOTES:

- There is excess sediment accumulated in front of the outlet
- There are some bare areas around low flow channel
- Litter and debris area accumulated inside of the outlet structure, implementing a trash rack over the weir would help prevent this

Home

Hamilton Township
Stormwater Basin Assessment
138. Capital Assembly of God Detention Basin

Address:
1410 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
138. Capital Assembly of God Detention Basin

Address:
1410 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Overgrown inlet structure

Excess sediment in low flow channel

Outlet structure

Basin bottom looking northeast

NOTES:

- There is excess sediment accumulated in the low flow channel
- Excessive woody and weed growth around inlet structures
- The outlet low flow orifice is clogged with sediment
- There is slumping around the base of the outlet

Home

Hamilton Township
Stormwater Basin Assessment
139. Care One Detention Basin

Address:
1580 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
139. Care One Detention Basin

<u>Address:</u>
1580 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Inlet structure

Outlet structure

Basin bottom looking northwest

NOTES:

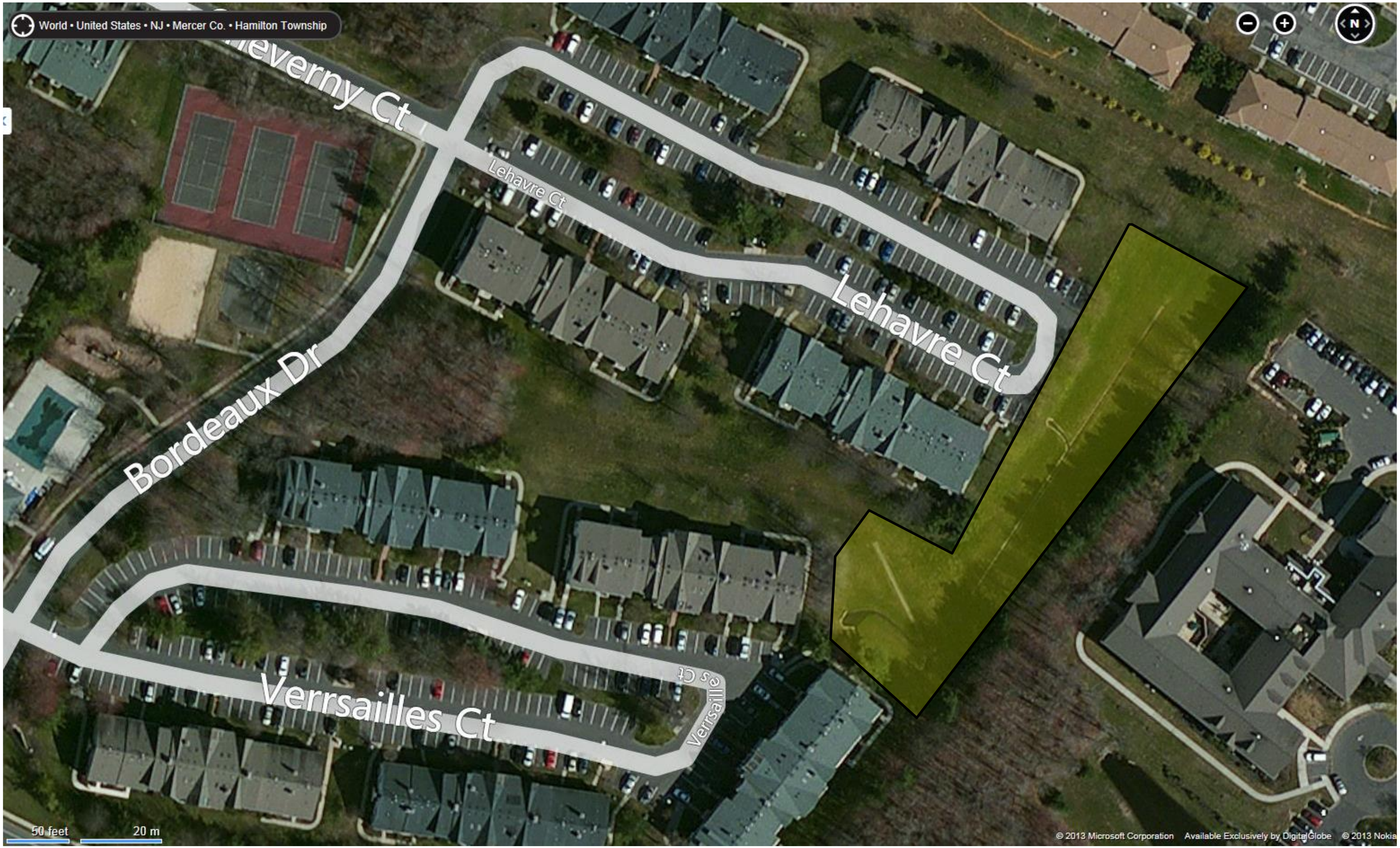
- Standing water in basin bottom with algal growth
- Trash rack for outlet structure is broken off
- Outlet low flow orifice is clogged with sediment and leaves, restricting the flow of water
- The inlets have some breakage and debris accumulation restricting the flow of water

Home

Hamilton Township
Stormwater Basin Assessment

140. Lehavre Court Residential Detention Basin

<u>Address:</u>
Lehavre Ct
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
140. Lehavre Court Residential Detention Basin

Address:
Lehavre Ct
Trenton, NJ 08690

Excess sediment in low flow channels

Slumping behind outlet structure

Sediment accumulated in front of inlet

Outlet structure

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
141. Cheverny Court Residential Detention Basin

<u>Address:</u>
Cheverny Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
141. Cheverny Court Residential Detention Basin

Address:
Cheverny Ct
Trenton, NJ 08690

Sediment accumulated in front of outlet

Basin bottom looking southeast

Excess sediment in low flow channel

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
142. Cottonwood Drive Residential Detention Basin

Address:
Cypress Ln and Cottonwood Dr
Trenton, NJ 08619

Home

Hamilton Township
Stormwater Basin Assessment
142. Cottonwood Drive Residential Detention Basin

Address:
Cypress Ln and Cottonwood Dr
Trenton, NJ 08619

Slumping at base of outlet structure

Outlet structure

Two external inlets conveyed to basin

Basin bottom looking south

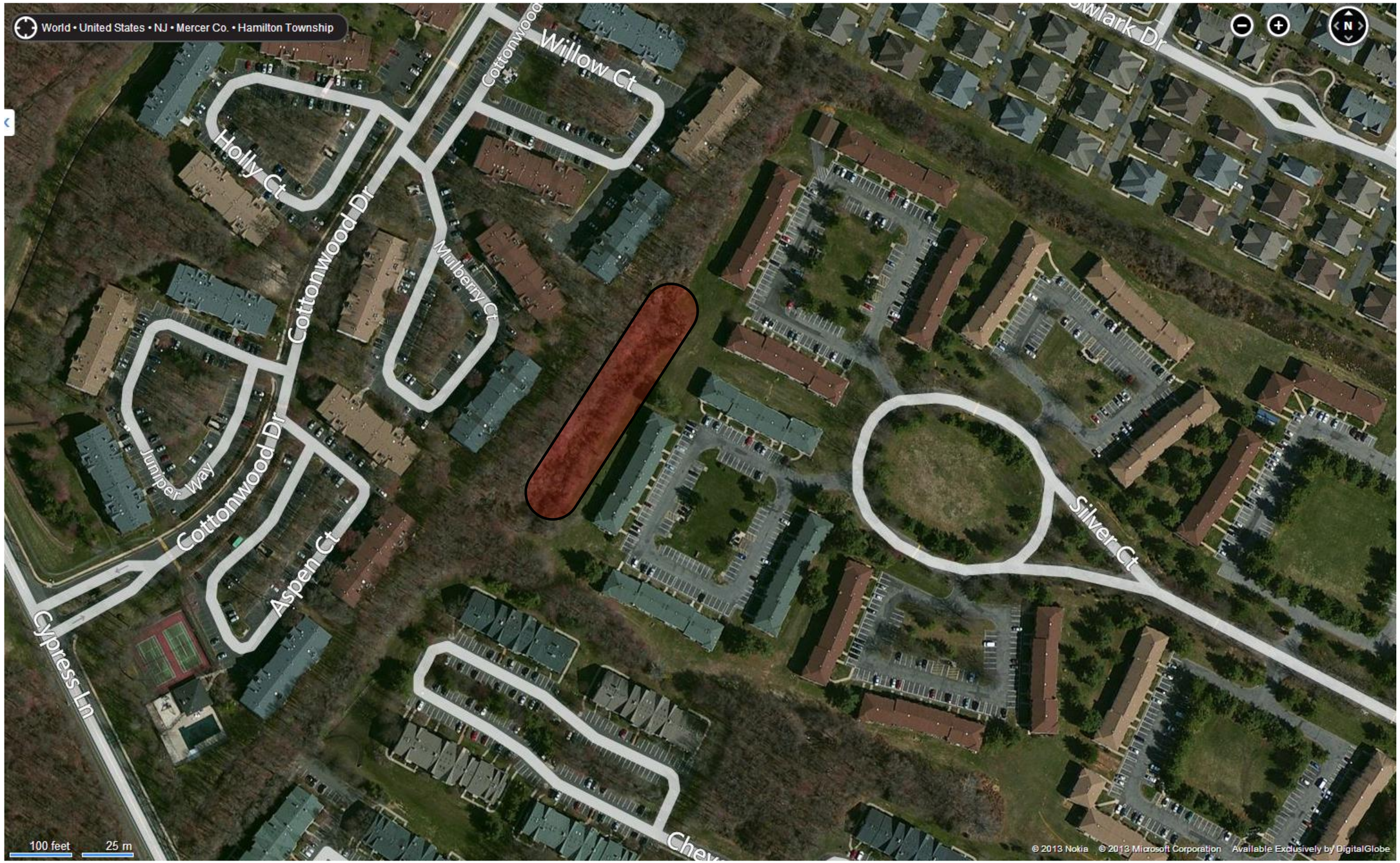
NOTES:

- There is excess sediment and debris accumulated in the low flow channel, in front of inlets, and in low flow orifice
- There is slumping at the base of the outlet structure
- There is standing water in the low flow channel throughout the basin
- Area that conveys two inlets to the basin has rip rap in the low flow channel restricting the flow of water

Home

Hamilton Township
Stormwater Basin Assessment
143. Silver Court Residential Detention Basin (a)

Address:
Silver Ct
Trenton, NJ 08619



*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
144 & 145. Silver Court Residential Detention Basins (b & c)

Address:
Silver Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
144. Silver Court Residential Detention Basin (b)

Address:
Silver Ct
Trenton, NJ 08690

Sediment accumulation in front of inlet

Basin looking north

Exposed soil in basin bottom

NOTES:

- The basin has a New Jersey Department of Transportation (NJDOT) #57 stone stream-bed feature instead of a cement low flow channel
- The inlets have some sediment accumulation in front of them and both have some concrete deterioration
- The east side of the basin bottom has an area of exposed earth

Home

Hamilton Township
Stormwater Basin Assessment
145. Silver Court Residential Detention Basin (c)

Address:
Silver Ct
Trenton, NJ 08690

Outlet structure

Basin looking southeast

Area in basin bottom with exposed earth

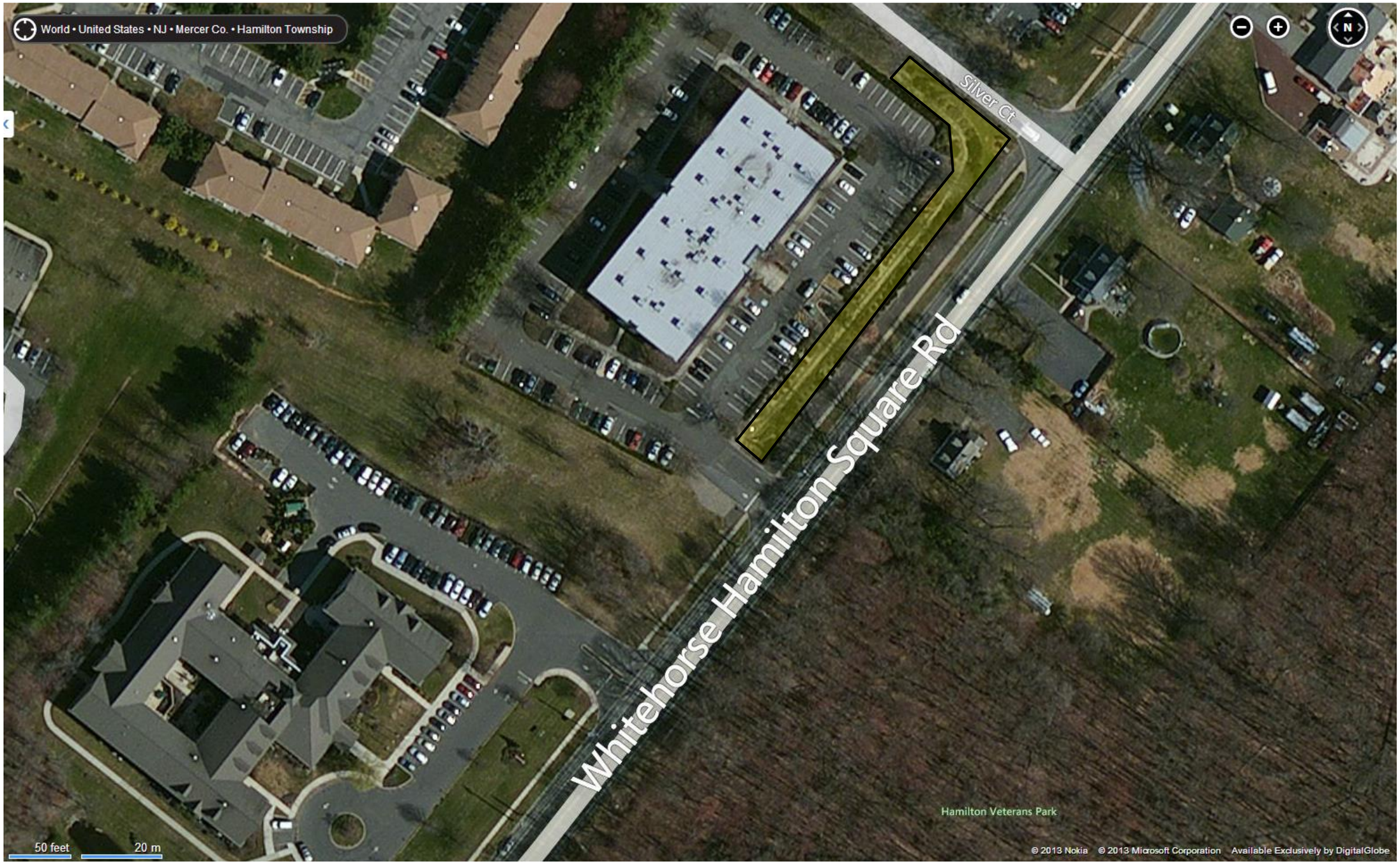
NOTES:

- The basin has NJDOT #57 stone stream-bed features instead of cement low flow channels
- Some inlets have trash racks that were broken off
- The embankments and basin bottom have some areas with exposed earth
- There are some pine needles accumulated in front of the outlet

Home

Hamilton Township
Stormwater Basin Assessment
146. Biocollections Detention Basin

Address:
1598 Whitehorse Hamilton Square Rd
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
146. Biocollections Detention Basin

Address:
1598 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Leaves accumulated in low flow channel

Basin bottom looking northeast

Outlet low flow orifice

Sediment accumulated in front of inlet

NOTES:

- Basin is entirely comprised of rip rap, no turf present
- There is sediment and leaves accumulated in the low flow channel, in front of the inlet, and in front of the outlet

Home

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

Address:
1746 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Home

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

Address:
1746 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Outlet pipe

Erosion at curb cut inlet

Basin bottom looking north

NOTES:

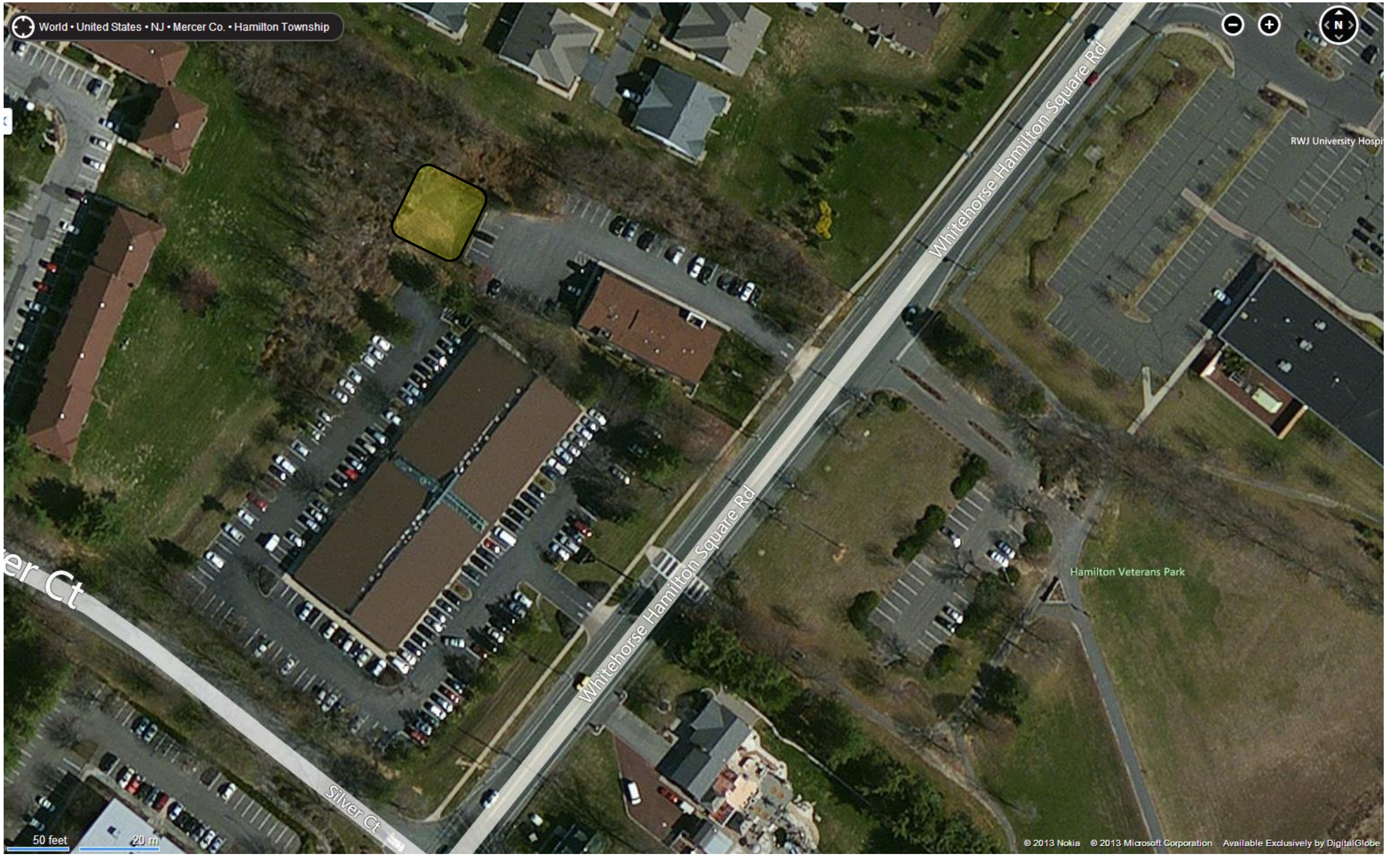
- The basin allows infiltration of stormwater
- Curb cut inlet has severe erosion and breakage
- Outlet pipe has breakage, there is debris and rip rap restricting the flow of water and woody tree growth in proximity of outlet

Home

Hamilton Township
Stormwater Basin Assessment

Address:
1760 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

148. Hamilton Internal Medicine Detention Basin



Home

Hamilton Township
Stormwater Basin Assessment

148. Hamilton Internal Medicine Detention Basin

Address:
1760 Whitehorse Hamilton Square Rd
Trenton, NJ 08690

Basin bottom looking west

Curb cut inlet concrete slab

Erosion around concrete slab

NOTES:

- Basin infiltrates most of stormwater
- There is sediment accumulated at the end of the concrete slab from the curb cut inlet
- The sides of the concrete slab have some erosion

Home

Hamilton Township
Stormwater Basin Assessment
149. Silver Court Detention Basin (d)

Address:
Silver Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
149. Silver Court Detention Basin (d)

<u>Address:</u>
Silver Ct
Trenton, NJ 08690

Outlet structure and inlet

Basin bottom looking south

Sediment accumulation in front of inlet

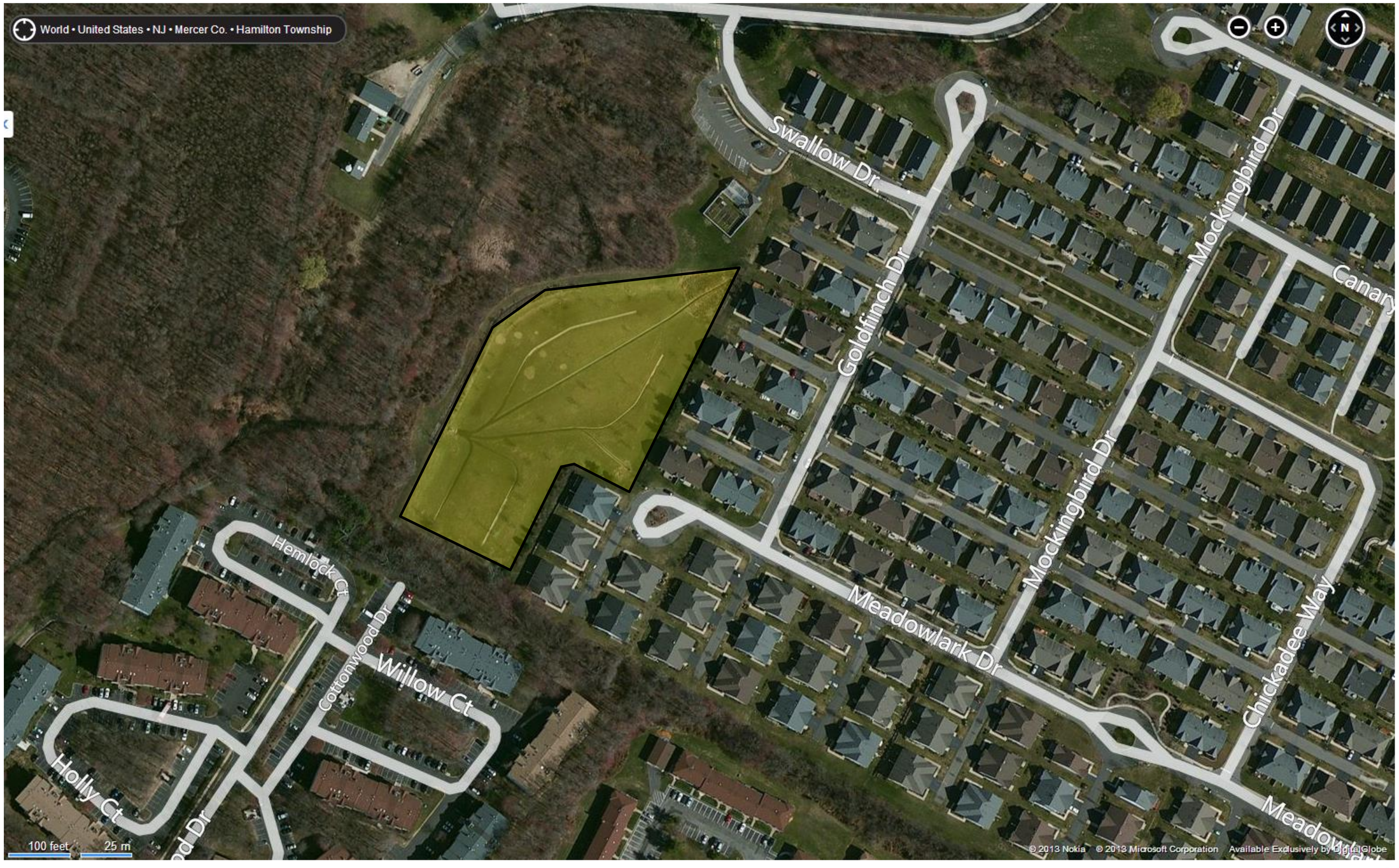
NOTES:

- Basin infiltrates most of stormwater
- The basin has NJDOT #57 stone stream-bed features and NJDOT #57 stone aprons
- Inlets and outlet have minimal debris and sediment accumulation
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment
150. Meadowlark Drive Detention Basin

Address:
Meadowlark Dr and Goldfinch Dr
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
150. Meadowlark Drive Detention Basin

Address:
Meadowlark Dr and Goldfinch Dr
Trenton, NJ 08690

Overgrown eastern inlet structure

Outlet structure and clogged trash rack

Overgrown northern inlet structure

Basin looking west

NOTES:

- There is excess sediment accumulated in the low flow channel, in front of inlets, and the outlet low flow orifice
- There is excessive woody and weed growth around inlets
- The outlet low flow orifice is clogged with sediment, leaves, and debris
- Outlet primary weir could use a trash rack to prevent failures

Home

Hamilton Township
Stormwater Basin Assessment
151. RWJ University Hospital Detention Basin (a)

Address:
85 Hamilton Health Pl
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
151. RWJ University Hospital Detention Basin (a)

Address:
85 Hamilton Health Pl
Trenton, NJ 08690

Outlet low flow orifice

Emergency overflow

Standing water in front of western inlet

Basin bottom looking west

NOTES:

- There is excess sediment accumulated in front of the outlet low flow orifice
- There is rip rap in front of western inlet that is restricting the flow of water into the basin
- Overall well maintained

Home

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

Address:
63 Hamilton Health Pl
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
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

NOTES:

- 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

Home

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

<u>Address:</u>
Hamilton Health Pl & Klockner Rd
Trenton, NJ 08690

Home

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

Address:
Hamilton Health Pl & Klockner Rd
Trenton, NJ 08690

Outlet structure

Slumping behind outlet

Exposed earth alongside low flow channel

Basin bottom looking south

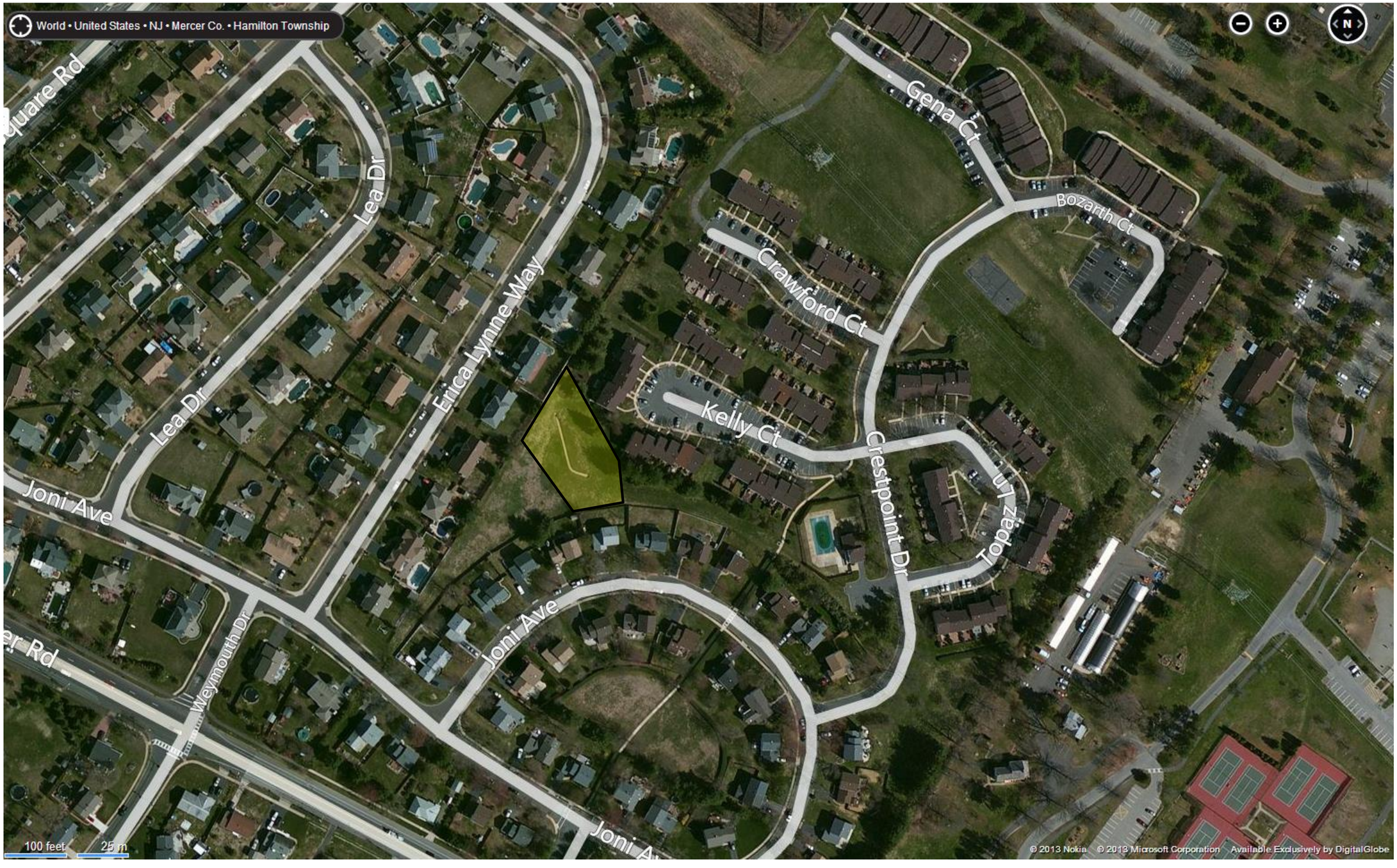
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
154. Kelly Court Residential Detention Basin

<u>Address:</u>
Kelly Ct
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
154. Kelly Court Residential Detention Basin

Address:
Kelly Ct
Trenton, NJ 08690

Outlet structure

Basin bottom looking south

Minimal erosion at base of outlet structure

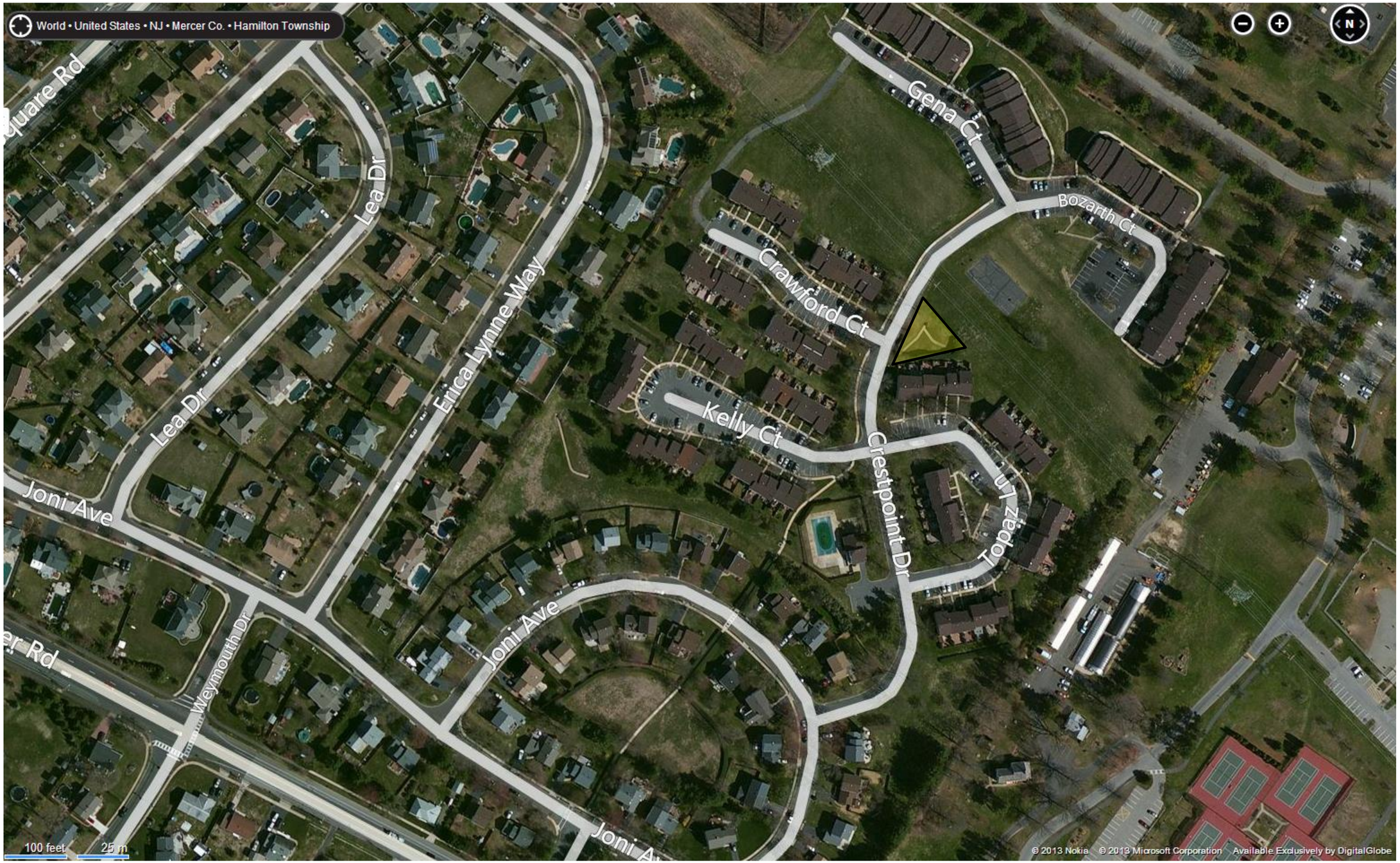
NOTES:

- Outlet structure has some cracks in parging and minimal erosion at base
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment
155. Crawford Court Residential Detention Basin

Address:
Crawford Ct and Crestpoint Dr
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
155. Crawford Court Residential Detention Basin

Address:
Crawford Ct and Crestpoint Dr
Trenton, NJ 08690

Basin looking south

Western inlet

Outlet structure

Eastern inlet

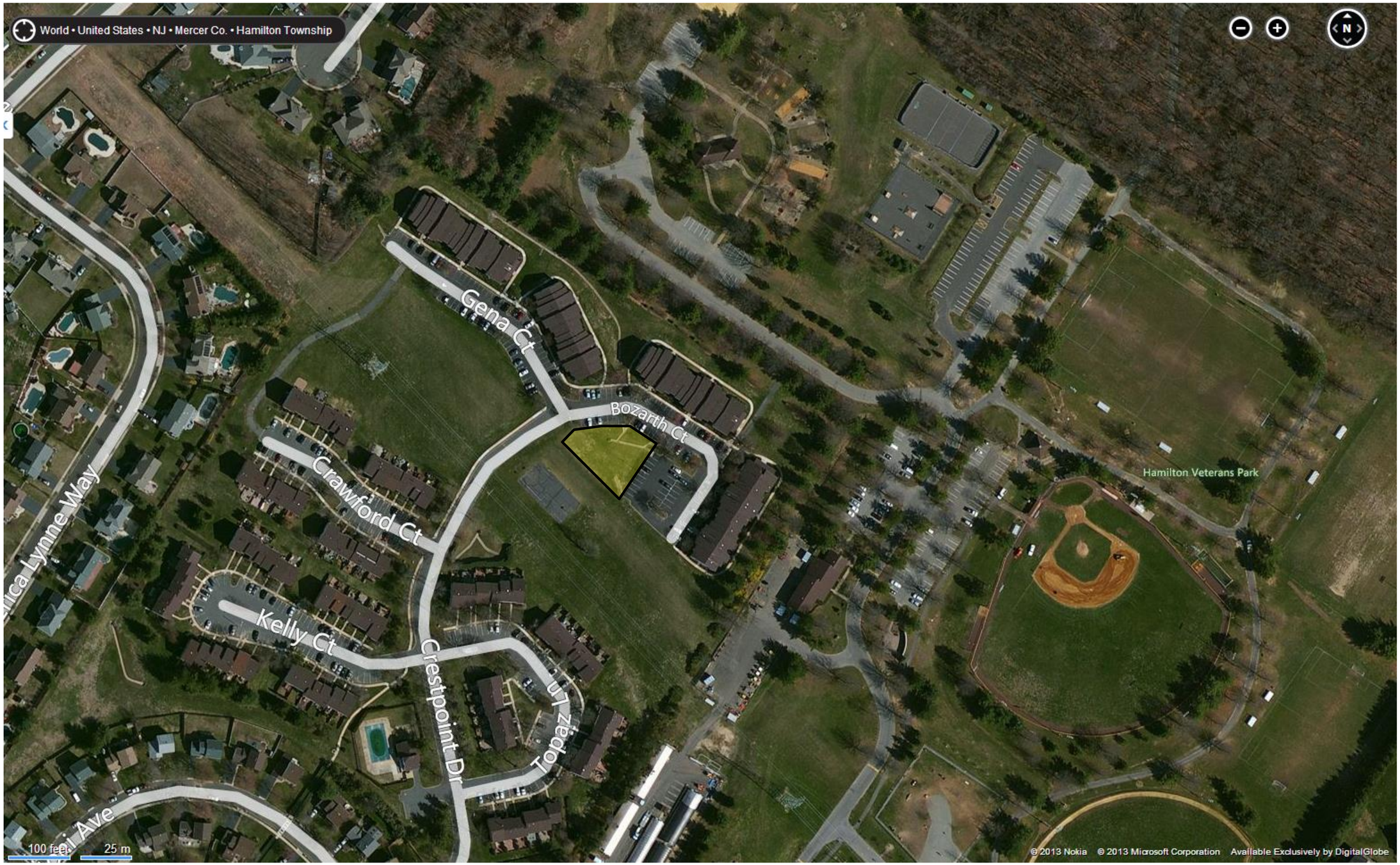
NOTES:

- Both inlets have severe damage with reinforcement showing, should be replaced in a timely manner
- Minor clogging in outlet low flow orifice
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment
156. Bozarth Court Residential Detention Basin

Address:
Bozarth Ct
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
156. Bozarth Court Residential Detention Basin

Address:
Bozarth Ct
Trenton, NJ 08690

Outlet structure

Minor cracks in low flow channel

Basin bottom looking south

NOTES:

- Outlet structure has some minor cracks in parging
- There are some minor cracks in the low flow channels
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment
157. Gena Court Residential Detention Basin

Address:
Gena Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
157. Gena Court Residential Detention Basin

Address:
Gena Ct
Trenton, NJ 08690

Minimal sediment accumulation

Soil moving over low flow channel

Outlet structure

Basin bottom looking northwest

NOTES:

- Some soil is moving onto the low flow channel near the western end
- Outlet structure has some minor cracks in parging and the low flow orifice could use a restrictor plate
- Sub-pumps from residents are directed to basin
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment
158. Hamilton Veterans Park Detention Basin (a)

Address:
Bozarth Ct
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
158. Hamilton Veterans Park Detention Basin (a)

Address:
Bozarth Ct
Trenton, NJ 08690

Northeastern inlet structure

Southern inlet structure filled with sediment

Outlet structure and gullying

Basin bottom looking southwest

NOTES:

- The southern inlet is about halfway filled with sediment
- The northeastern inlet is in need of replacement
- The basin bottom has many gullies throughout and excess sediment accumulation
- There is standing water and erosion in front of the outlet

Home

Hamilton Township
Stormwater Basin Assessment
159 & 160. Hamilton Veterans Park Detention Basins (b & c)

Address:
224 Kruser Rd
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
159 & 160. Hamilton Veterans Park Detention Basins (b & c)

Address:
224 Kruser Rd
Trenton, NJ 08690

Basin #159 bottom looking west

Basin #159 inlet structure

Basin #160 bottom looking north

Basin #160 outlet structure

NOTES:

- Basin #159 collects runoff from adjacent fields then discharges to basin #160 where it spreads out over a grassed area
- The inlet and outlet structures in both basins are clogged with sediment
- Basin #160 has ponding in the basin bottom

Home

Hamilton Township
Stormwater Basin Assessment
161. Hamilton Veterans Park Detention Basin (d)

Address:
224 Kruser Rd
Trenton, NJ 08690

Home

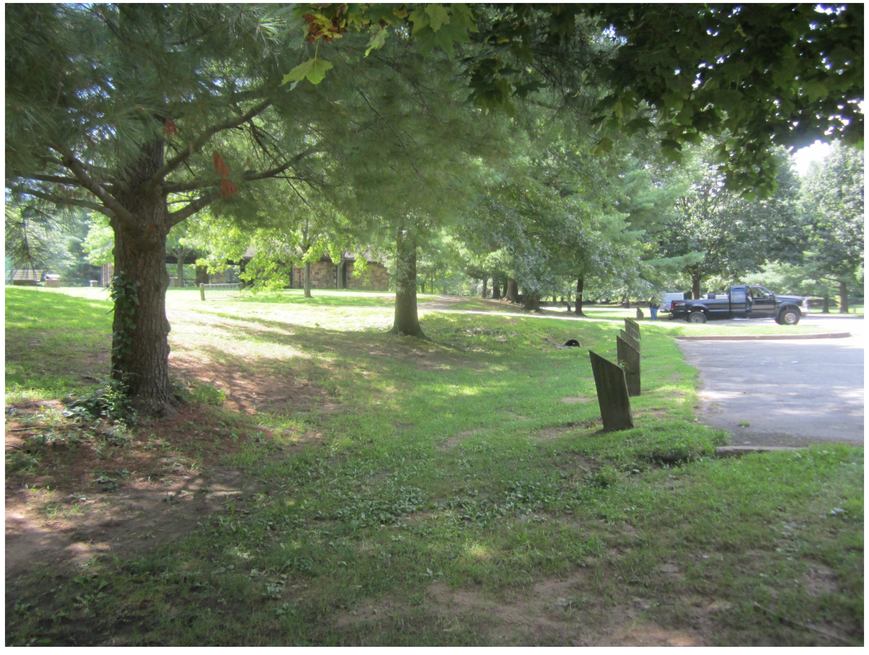
Hamilton Township
Stormwater Basin Assessment
161. Hamilton Veterans Park Detention Basin (d)

Address:
224 Kruser Rd
Trenton, NJ 08690

Northeastern inlet

Northwestern inlet

Outlet structure



Swale that conveys two inlets to basin

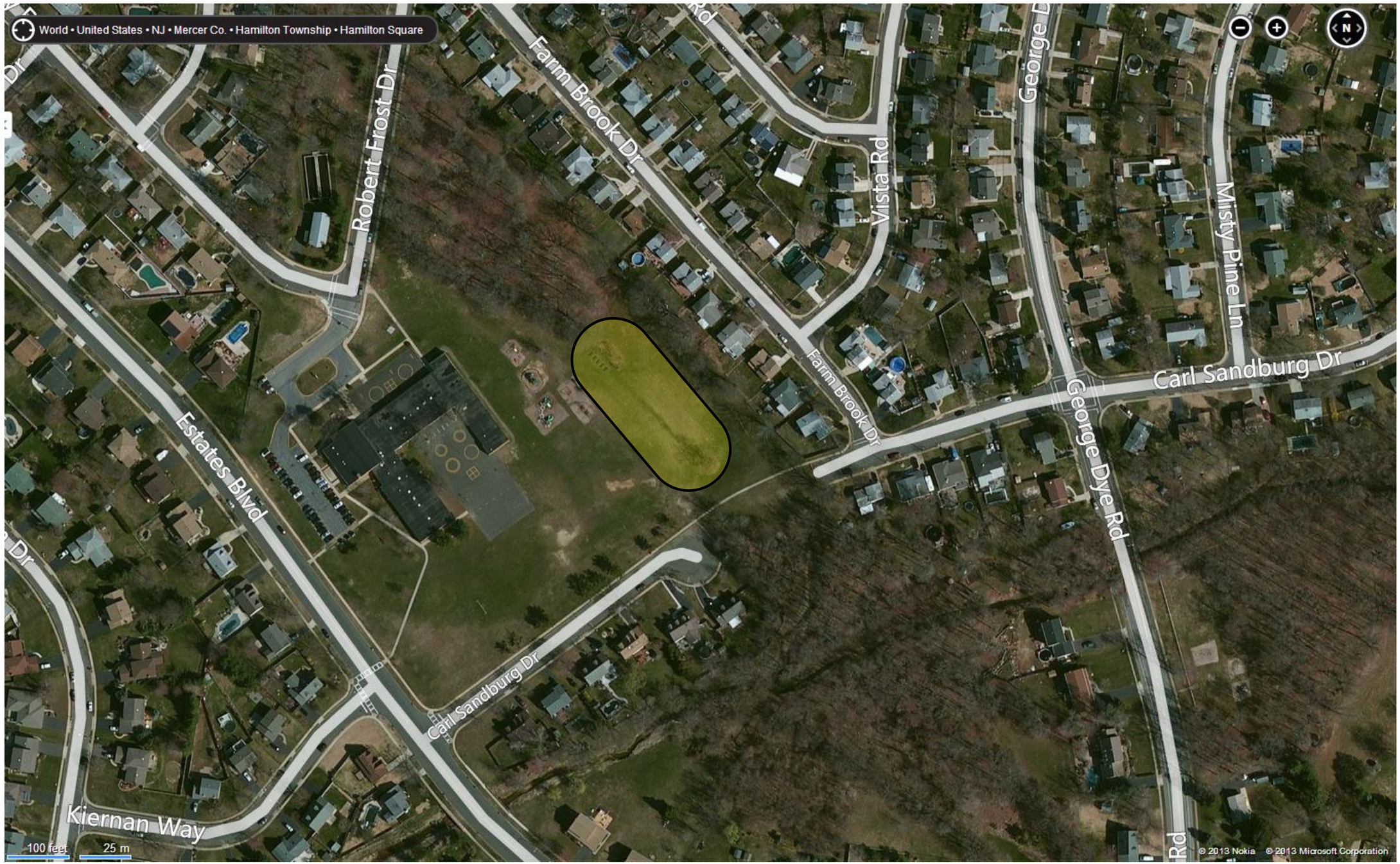
NOTES:

- There is a swale that collects runoff from the nearby parking lots which conveys the water into the basin
- The basin has 5 total inlets
- The northeastern inlet is in need of replacement
- The northwestern inlet is clogged with sediment that is restricting the flow of water
- The outlet has a large low flow orifice that could use a restrictor plate
- The basin bottom has areas of gullying and tread marks

Home

Hamilton Township
Stormwater Basin Assessment
162. Alexander Elementary School Detention Basin

Address:
End of Carl Sandburg Dr
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
162. Alexander Elementary School Detention Basin

Address:
End of Carl Sandburg Dr
Trenton, NJ 08690

Basin bottom looking southwest

Excessive plant growth around outlet

NOTES:

- Basin collects runoff from grassed area behind school
- The outlet is completely overgrown by various trees and vines making it inaccessible

Home

Hamilton Township
Stormwater Basin Assessment
163. Hamilton Green Limewood Detention Basin

Address:
Mint Leaf Dr and Limewood Dr
Trenton, NJ 08690

*Did not assess due to limited accessibility

Home

Hamilton Township
Stormwater Basin Assessment
164. Great Oak Road Residential Detention Basin

<u>Address:</u>
Great Oak Rd and Dukoff Dr
Trenton, NJ 08690

Home

Hamilton Township
Stormwater Basin Assessment
164. Great Oak Road Residential Detention Basin

<u>Address:</u>
Great Oak Rd and Dukoff Dr
Trenton, NJ 08690

Basin bottom looking east

Excessive sediment in front of inlet

Secondary emergency overflow

Outlet structure

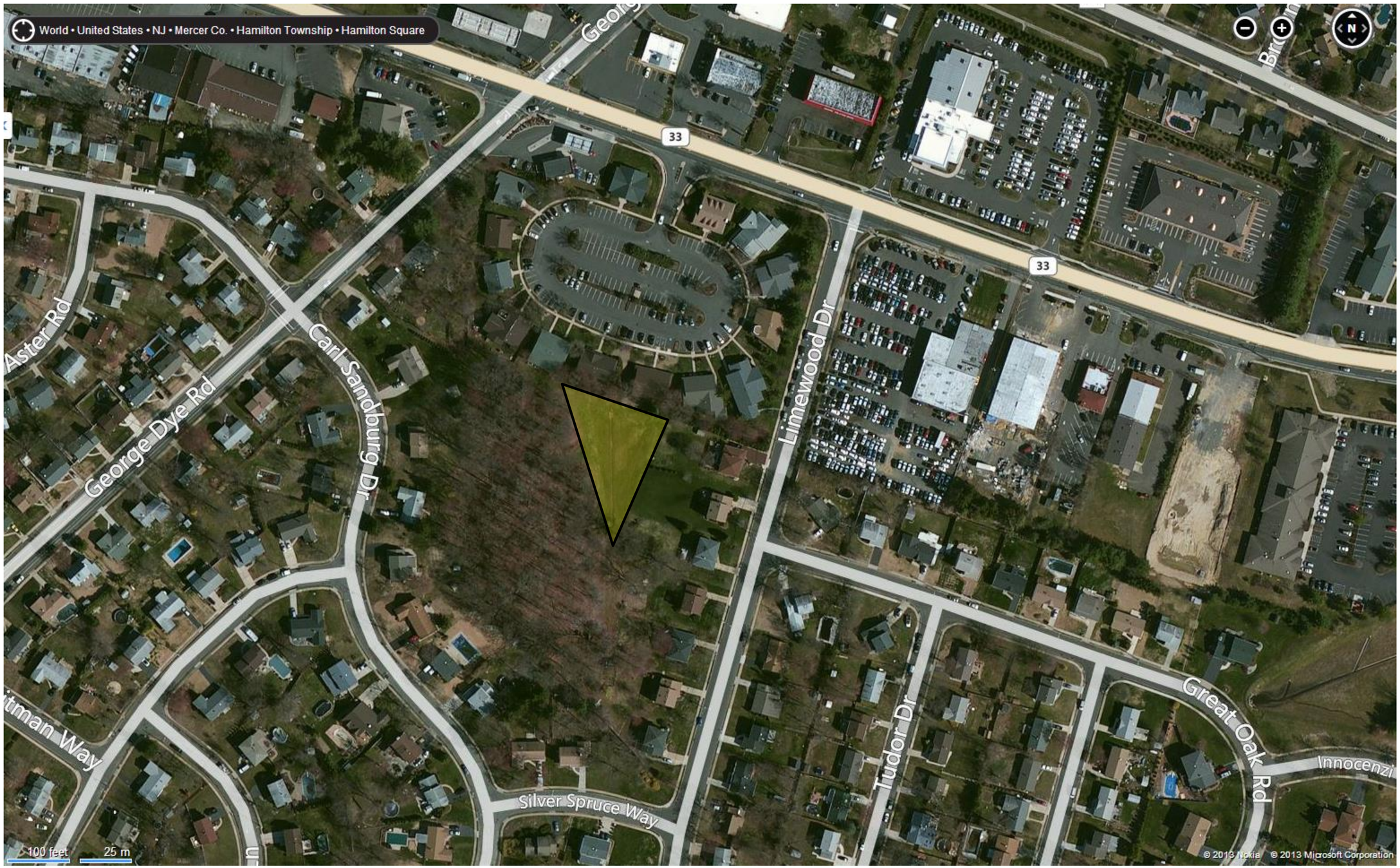
NOTES:

- Low flow channels in basin are clogged with accumulated sediment; there is ponding in the channels that appears very stagnant
- It appears that sediment was removed from the low flow channel, but left in the basin. The sediment needs to be hauled away.
- The inlet structures all have excessive sediment accumulated in front of them
- The southwestern inlet has some concrete deterioration and should be replaced
- The outlet structure is missing a trash rack and has some cracks in parging

Home

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

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



Home

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

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

Basin bottom looking south

Erosion in basin bottom

Outlet structure in need of replacement

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment

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

166 & 167. Innocenzi Drive Residential Detention Basins

Home

Hamilton Township
Stormwater Basin Assessment
166. Innocenzi Drive Residential Detention Basin (a)

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

Basin bottom looking northeast

Stream connecting to low flow channel

Southeastern inlet

Outlet structure

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
167. Innocenzi Drive Residential Detention Basin (b)

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

Basin bottom looking northwest

Overgrown eastern inlet

Overgrown western inlet

Outlet structure

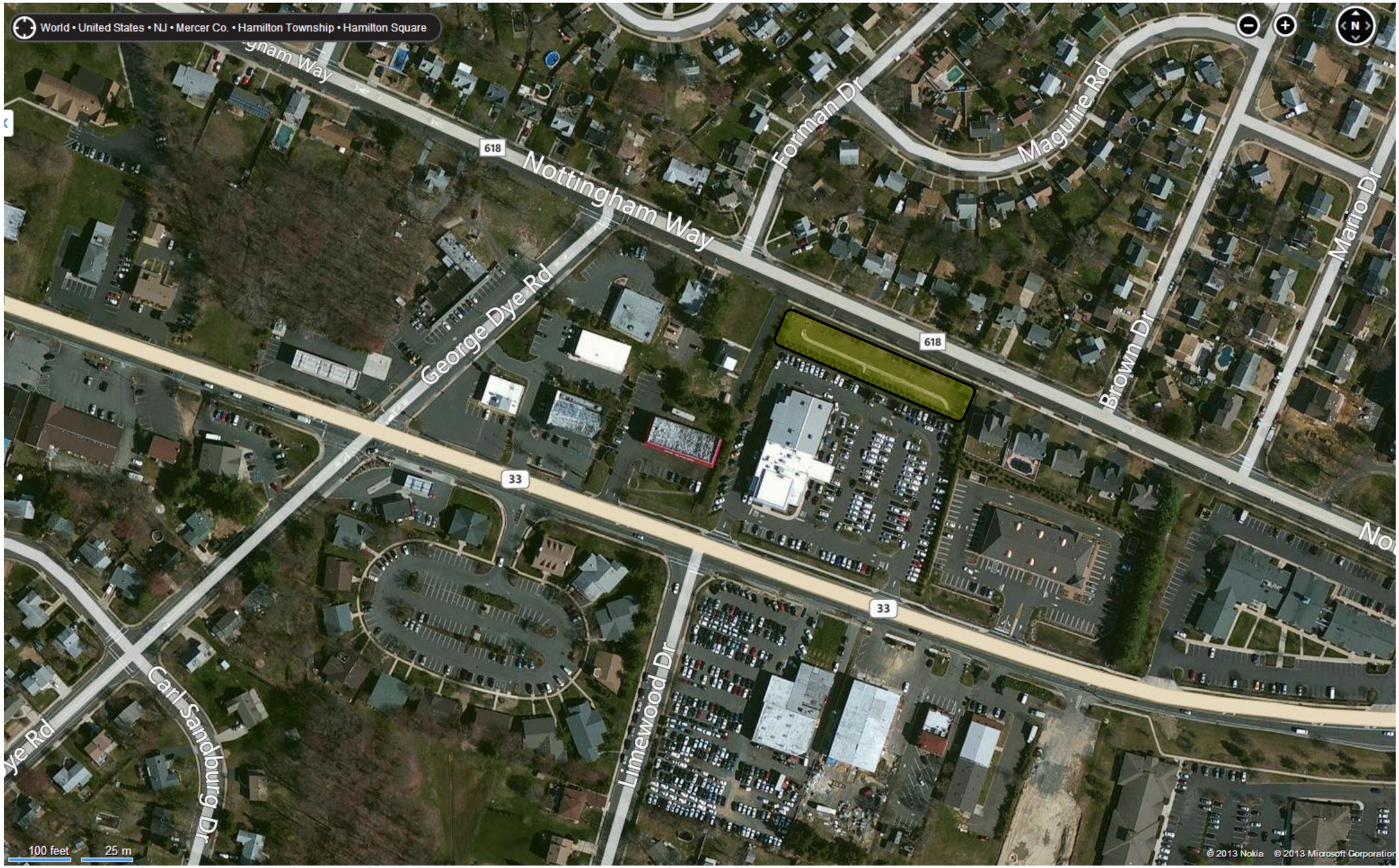
NOTES:

- There is excess sediment accumulated and standing water in the low flow channel
- The eastern and western inlets both have excess sediment accumulation and are overgrown with various types of vegetation
- The outlet structure has cracks in parging, the trash rack is broken, and the water is not discharging from the outlet causing the entire basin to back up

Home

Hamilton Township
Stormwater Basin Assessment
168. Hamilton Volkswagon Detention Basin

Address:
2200 RT-33
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
168. Hamilton Volkswagon Detention Basin

Address:
2200 RT-33
Trenton, NJ 08690

Outlet overflow missing grate

Outlet structure

Eastern inlet structure

Basin bottom looking southeast

NOTES:

- The outlet overflow is missing a grate
- There is minimal sediment accumulation in the low flow channel near the outlet
- Overall well maintained

Home

Hamilton Township
Stormwater Basin Assessment

Address:
4265 RT-33
Trenton, NJ 08690

169 & 170. The Shoppes at Nottingham Pointe Detention Basins

Home

Hamilton Township
Stormwater Basin Assessment
169. The Shoppes at Nottingham Pointe Detention Basin (a)

Address:
4265 RT-33
Trenton, NJ 08690

Basin bottom looking south

Inlet structure

Outlet structure

NOTES:

- Basin has gabion walls on east side
- The outlet structure low flow orifice is clogged with pine needles
- This basin is connected with basin #170 through a secondary overflow shown in the top left photo

Home

Hamilton Township
Stormwater Basin Assessment
170. The Shoppes at Nottingham Pointe Detention Basin (b)

Address:
4265 RT-33
Trenton, NJ 08690

Two western inlets

Basin bottom looking southwest

Basin bottom looking west

Inlet and outlet structures

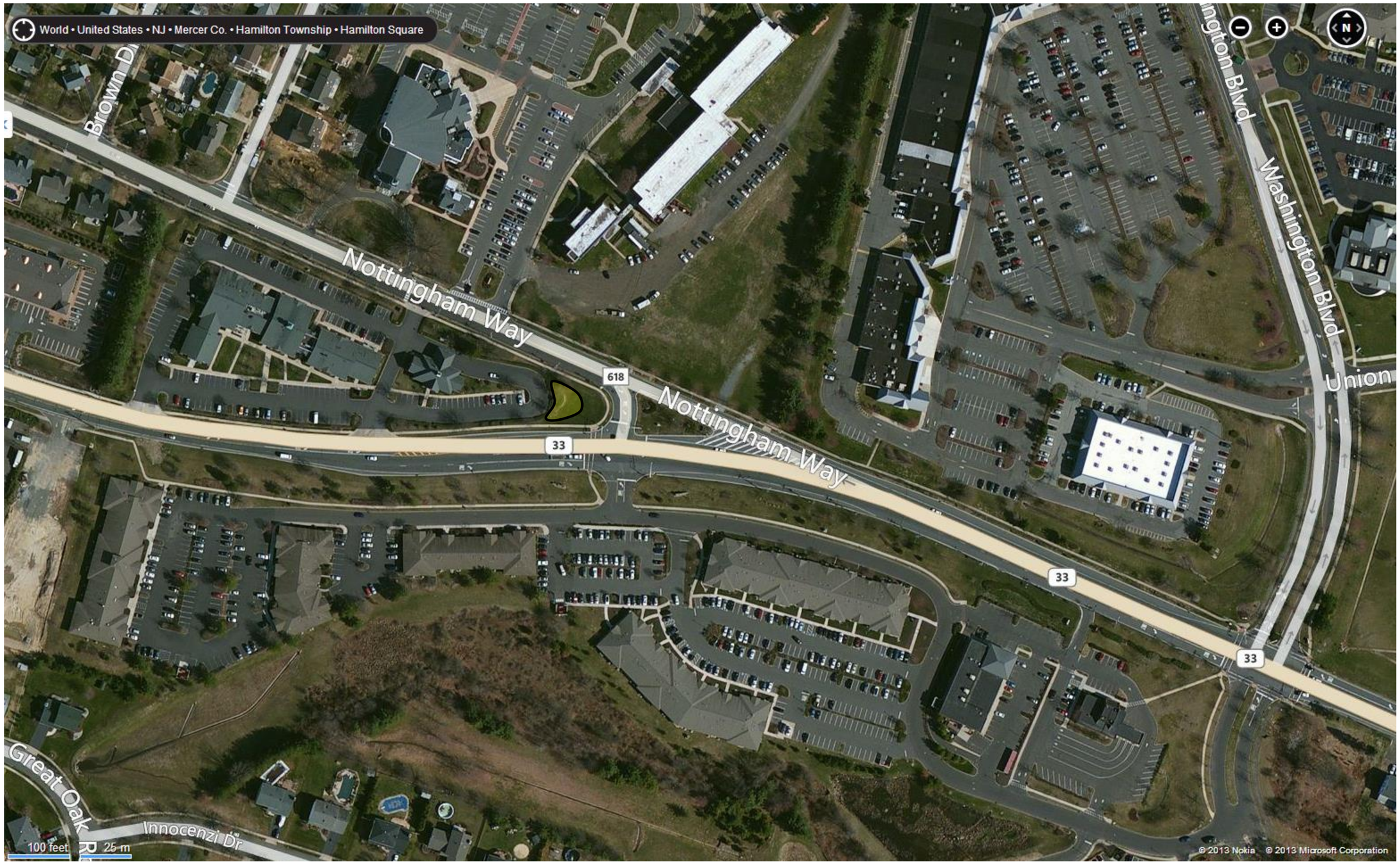
NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
171. PNC Bank Detention Basin

Address:
2307 Rt-33
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
171. PNC Bank Detention Basin

Address:
2307 RT-33
Trenton, NJ 08690

Inlet structure

Outlet structure

Basin bottom looking north

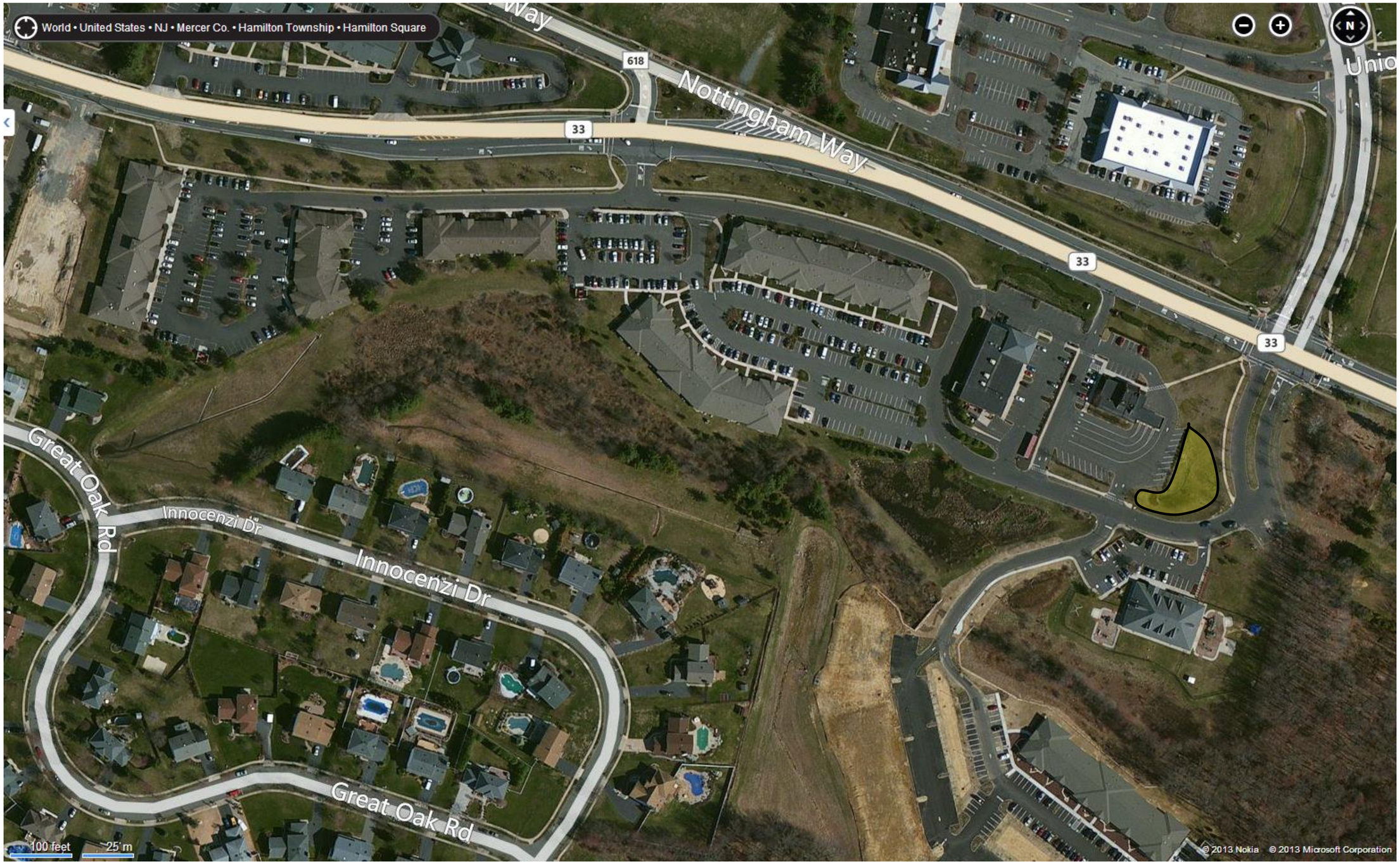
NOTES:

- There is excess sediment accumulated in the flow channel
- The outlet low flow orifice is clogged

Home

Hamilton Township
Stormwater Basin Assessment
172. TD Bank Detention Basin

Address:
2307 RT-33
Trenton, NJ 08690



Home

Hamilton Township
Stormwater Basin Assessment
172. TD Bank Detention Basin

Address:
2307 RT-33
Trenton, NJ 08690

Overgrown outlet

Inlet structure

Clogged low flow channel

Basin looking northwest

NOTES:

- There is excess sediment accumulated in front of the inlet structure and throughout the low flow channel, restricting the flow of water
- There is a large shrub and cattails established around and in front of the outlet structure making it inaccessible

Home

Hamilton Township
Stormwater Basin Assessment
173. Foxmoor Detention Basin

Address:
1027 Washington Blvd
Trenton, NJ 08691

Home

Hamilton Township
Stormwater Basin Assessment
173. Foxmoor Detention Basin

Address:
1027 Washington Blvd
Trenton, NJ 08691

Inlet and low flow covered in sediment

Inlet filled with sediment

Outlet structure

Basin bottom looking east

NOTES:

- 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

Home

Hamilton Township
Stormwater Basin Assessment
174 & 175. Golden Crest and Kindercare Detention Basins

<u>Address:</u>
2311 RT-33
Trenton, NJ 08691

Home

Hamilton Township
Stormwater Basin Assessment
174. Golden Crest Detention Basin

Address:
2311 RT-33
Trenton, NJ 08691

Outlet structure

Basin bottom looking southwest

Inlet structure and low flow channel

NOTES:

- This basin was not designed to be a retention basin. The area where the outlet discharges to is backed up, thus not allowing water to leave the basin
- Cattails and other marsh plants have established growth throughout the basin with excessive algal growth also present
- The outlet is in need of repair and is severely clogged with sediment
- The stream which the basin discharges to needs to be inspected to find the cause of flow restriction so proper basin performance can be obtained

Home

Hamilton Township
Stormwater Basin Assessment
175. Kindercare Detention Basin

Address:
2311 RT-33
Trenton, NJ 08691

Basin bottom looking southwest

Basin bottom looking southeast

NOTES:

- The basin is completely overgrown
- No structures are accessible or visible through the plant growth
- There was some standing water in the basin bottom

Home