

# FLOOD HAZARD AREA INDIVIDUAL PERMIT CANTERBURY DEVELOPMENT ENVIRONMENTAL REPORT

CANTERBURY DEVELOPMENT, LLC, BLOCK 320, LOTS 10.03  
204 Maple Drive, Township of Wyckoff, Bergen County, New Jersey

Prepared By:

The Nader Group, LLC  
111 Mill Street, Hackettstown, NJ 07840  
908-950-3500  
June 9, 2022

A handwritten signature in blue ink, appearing to read "Wassim Y. Nader". The signature is fluid and cursive, written over a horizontal line.

Wassim Y. Nader, PE  
NJ License No. 24GE03665000

# CANTERBURY DEVELOPMENT FHA INDIVIDUAL PERMIT CANTERBURY DEVELOPMENT, LLC

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## APPENDICES

Appendix A: Site Plan (Submitted Separately)

Appendix B: USDA Soil Map  
USGS Topographic Map  
FEMA FIRM Panel #34003C0156J

Appendix C: Natural Heritage Program Letter



## I. INTRODUCTION

Lots 10.03 and 10.04 Block 320 in the Township of Wyckoff have been undeveloped for decades. Aside from the ruins of a previous recreational area, no other man made features exist on the lots. The lots slope downward to the north where a brook (Goffle Brook) flows from west to east through the property. The site is bounded on the west, south and east by single family homes, and to the north by a railroad right of way.

Wetlands exist on site and are associated with the brook and low areas. For the purposes of this application it is assumed that the wetland areas will be classified as exceptional resource value, and will require a 150' wetland transition area. A 50' riparian buffer is assumed along the brook since the brook is classified as FW2-NT. These values reflect the conditions in a previous LOI for the property that was obtained in 2006. Note that a wetlands letter of interpretation is pending with the department for these properties as file number 0270-04-0008.1.

The proposed project is to develop lot 10.03 with a new multifamily development the new development will include 61 residential units in three four story buildings. Parking will be provided at the ground floor of each building to reduce the amount of proposed surface parking and motor vehicle surface. The site will be served by municipal water and sewer. The proposed sanitary sewer line will cross lot 10.04 in an easement and connect to an existing sanitary sewer line that runs in a northerly direction towards the western end of lot 10.04.

The proposed construction of the property will impact wetland, riparian buffer areas, and the flood hazard area. It is for this reason that permit applications are being made to the Department.

Note that the proposed project is classified as a major development under NJAC 7:8. This is because over an acre of disturbance is proposed for construction. Both motor vehicle area and impervious area will be increased on site after construction.

In order to properly and efficiently grade the site a small amount of grading is necessary in the flood hazard area. This displaced volume is being offset by grading on site to provide an equal storage volume as is being displaced by the proposed grading.

No disturbance within the riparian buffer zone is proposed as part of this project.

## II. MAPS

A USGS Topographic Map, USDA Soil Map, and FEMA FIRM Panel #34003C0156J are included in Appendix B of this report.

## III. DISTURBANCE TO RIPARIAN ZONE

All disturbed areas are contained within the flood hazard area; therefore, no impact is proposed to the riparian zone.

## IV. ENVIRONMENTAL IMPACT

The proposed work within the flood hazard area is required to provide grading for a fire road necessary to meet code for the proposed building. Once the grading activity has been completed the ground will be restored to its original condition, leaving no permanent impact. Immediately adjacent to this grading (fill) activity a second area is proposed to be graded to achieve zero net fill for the regulated activity within the flood hazard area.

A retaining wall was considered for this area, but due to its proximity to a proposed swimming pool, and the associated soil loadings it was determined that a graded slope was a superior solution, as the slope will be allowed to revert to its original vegetation.

Only standard construction practices will be necessary to accomplish the proposed grading activity, therefore standard erosion control practices will be implemented by the applicant and enforced by the Bergen County Soil Conservation Service.

Considering the above no mitigation plan or site specific monitoring system will be necessary.

## V. IMPACT TO THREATENED OR ENDANGERED SPECIES

Presently, the applicant has an application in to the Department for a wetlands LOI under file number 0270-04-0008.1. This application refers to another LOI granted on the property in 2005 and states that the limit of wetlands had remained nearly unchanged from the 2005 LOI.

The report also discusses one endangered species; the wood turtle. In the 2005 LOI the wetland classification, therefore, was set at exceptional resource value requiring a 150' transition area. The project has been designed to respect the 150' wetlands transition area in anticipation of the same determination of the Department.



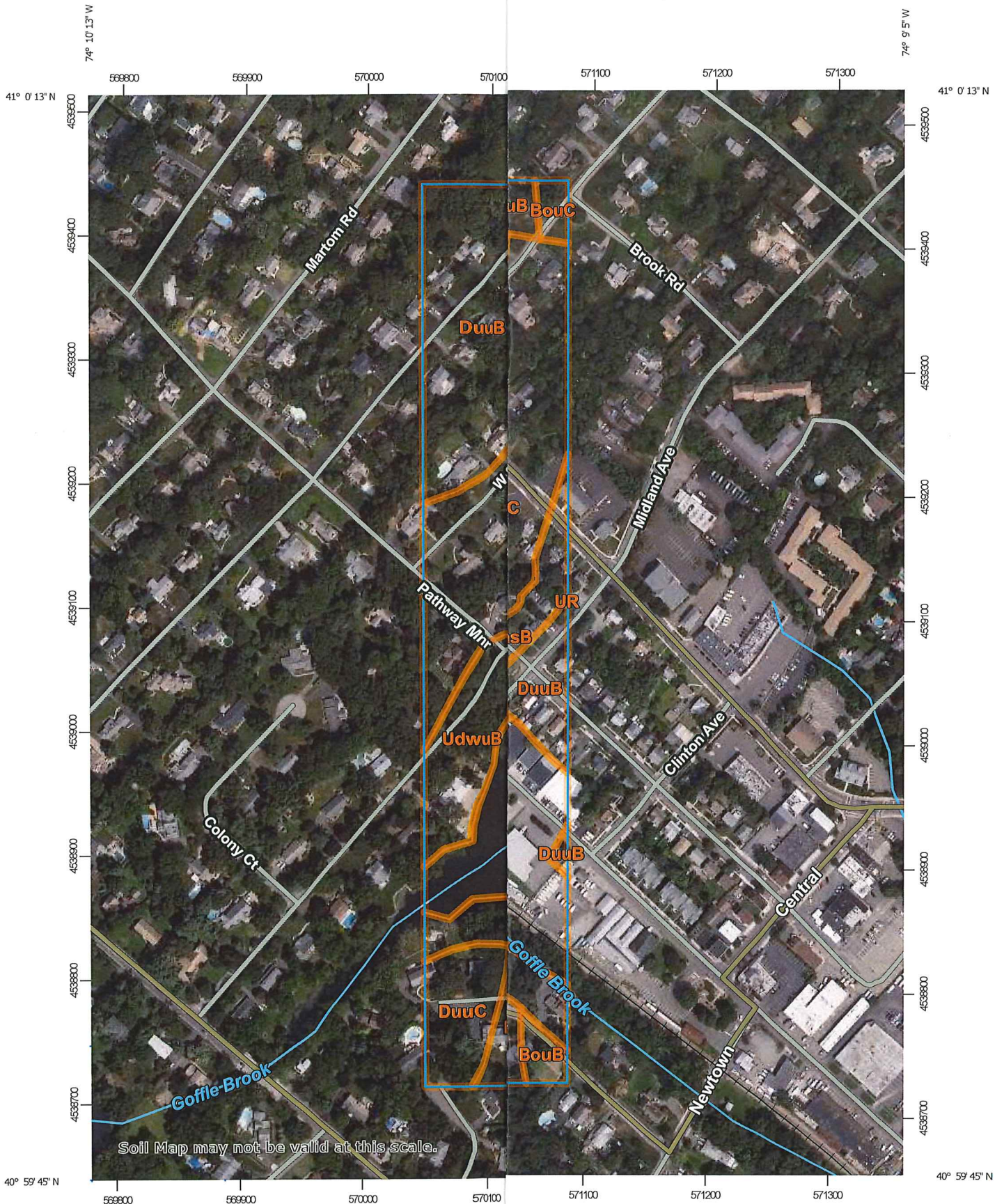
Given this design parameter, and considering that the proposed application does not impact the wetlands or state open waters on the property, there should be no impact to the wood turtle if it exists on the site.

## VI. IMPACT TO RIPARIAN ZONE

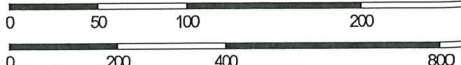
No impact is proposed to the riparian zone..

## VII. PINELANDS AREA

The site upon which this project is proposed is not located within Pinelands Area as designated by Section 10(a) of the Pinelands Protection Act, N.J.S.A. 13:18-1 et seq.



Map Scale: 1:4,260 if printed on B landscape (17" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ti





## MAP LEGEND

- Area of Interest (AOI)
- Area of Interest (AOI)
- Soils**
  - Soil Map Unit Polygons
  - Soil Map Unit Lines
  - Soil Map Unit Points
- Special Point Features**
  - Blowout
  - Borrow Pit
  - Clay Spot
  - Closed Depression
  - Gravel Pit
  - Gravelly Spot
  - Landfill
  - Lava Flow
  - Marsh or swamp
  - Mine or Quarry
  - Miscellaneous Water
  - Perennial Water
  - Rock Outcrop
  - Saline Spot
  - Sandy Spot
  - Severely Eroded Spot
  - Sinkhole
  - Slide or Slip
  - Sodic Spot
- Water Features**
  - Streams and Canals
- Transportation**
  - Rails
  - Interstate Highways
  - US Routes
  - Major Roads
  - Local Roads
- Background**
  - Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bergen County, New Jersey  
Survey Area Data: Version 18, Aug 30, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.


Date(s) aerial images were photographed: Apr 13, 2021—Sep 14, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BohB	Boonton moderately well drained gravelly loam, 3 to 8 percent slopes	4.1	2.2%
BouB	Boonton-Urban land complex, 0 to 8 percent slopes	8.9	4.8%
BouC	Boonton-Urban land complex, 8 to 15 percent slopes	13.1	7.0%
BouD	Boonton-Urban land complex, 15 to 25 percent slopes	16.4	8.8%
DuuB	Dunellen-Urban land complex, 3 to 8 percent slopes	42.5	22.8%
DuuC	Dunellen-Urban land complex, 8 to 15 percent slopes	50.6	27.1%
FmhAt	Fluvaquents, loamy, 0 to 3 percent slopes, frequently flooded	6.0	3.2%
HasB	Haledon-Urban land complex, 3 to 8 percent slopes	1.5	0.8%
UdwB	Udorthents, wet substratum, 0 to 8 percent slopes	19.6	10.5%
UdwuB	Udorthents, wet substratum-Urban land complex	11.9	6.4%
UR	Urban land	7.4	3.9%
WATER	Water	4.7	2.5%
<b>Totals for Area of Interest</b>		<b>186.6</b>	<b>100.0%</b>



Department of Environmental Protection <b>Office of Natural Lands Management</b> Mail Code 501-04, P.O. Box 420 Trenton, New Jersey 08625-0420 Tel. (609) 984-1339; Fax. (609) 984-1427				<h1 style="font-size: 2em; margin: 0;">Invoice</h1>	
		Date	Invoice #		
		7/22/2021	22483		
Bill to: The Nader Group 111 Mill Street Hackettstown, NJ 07840		<p><b><u>Make check payable to:</u></b>                  DEP - Office of Natural Lands Management</p> <p><b><u>Include this invoice with payment &amp; send to:</u></b>                  NJDEP Office of Natural Lands Management                  Mail Code 501-04, P.O. Box 420                  Trenton, New Jersey 08625-0420</p>			
Quantity (hrs.)	Description	Rate (per hr.)	Amount		
1	Natural Heritage Database search for locational information of rare species and ecological communities. Project: 21-4007486-22483	\$ 70.00	\$ 70.00		
Maryam Echreshzadeh Project Name: Byram Municipal Complex		<b>Total</b>	\$ 70.00		



State of New Jersey

MAIL CODE 501-04  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF PARKS & FORESTRY  
NEW JERSEY FOREST SERVICE  
OFFICE OF NATURAL LANDS MANAGEMENT  
P.O. BOX 420  
TRENTON, NJ 08625-0420  
Tel. (609) 984-1339 Fax (609) 984-0427

PHILIP D. MURPHY  
*Governor*

SHEILA Y. OLIVER  
*Lt. Governor*

SHAWN M. LATOURETTE  
*Commissioner*

July 22, 2021

Maryam Echreshzadeh  
The Nader Group  
111 Mill Street  
Hackettstown, NJ 07840

Re: Byram Municipal Complex  
Block(s) - 365, Lot(s) - 16.01  
Byram Township, Sussex County

Dear Ms. Echreshzadeh:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the map(s) submitted with the Natural Heritage Data Request Form into our GIS. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

We have also checked the Landscape Project habitat mapping and Biotics Database for all occurrences of rare wildlife species or wildlife habitat within one mile of the referenced site. Please refer to Table 3 (attached) to determine if any rare wildlife species or wildlife habitat is documented within one mile of the project site. Detailed reports are provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on the project site.

For requests submitted in order to make a riparian zone width determination as part of a Flood Hazard Area Control Act (FHACA) rule application, we report records for all rare plant species and ecological communities tracked by the Natural Heritage Program that may be on, or in the immediate vicinity of, your project site. A subset of these plant species is also covered by the FHACA rules when the records are located within one mile of the project site. One mile searches for FHACA plant species will only report precisely located occurrences for those wetland plant species identified under the FHACA regulations as being critically dependent on the watercourse. Please refer to Table 3 (attached) to determine if any precisely located rare wetland plant species covered by the FHACA rules have been documented. Detailed reports are



provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on, or in the immediate vicinity of, the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1, 2 and 3 (attached) to determine if any priority sites are located on, in the immediate vicinity, or within one mile of the project site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from [http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes\\_2010.pdf](http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf).

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL, <https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7>, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at <http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html>.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf>.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica  
Administrator

c: NHP File No. 21-4007486-22483

**Table 1: On Site Data Request Search Results (6 Possible Reports)**

<b><u>Report Name</u></b>	<b><u>Included</u></b>	<b><u>Number of Pages</u></b>
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	Yes	See emailed attachments
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	1 page(s) included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included



**Rare Wildlife Species or Wildlife Habitat on the  
Project Site Based on Search of  
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Aves</i>	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	<i>Strix varia</i>	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Great Blue Heron	<i>Ardea herodias</i>	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	<i>Buteo lineatus</i>	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Veery	<i>Catharus fuscescens</i>	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Worm-eating Warbler	<i>Helminthos vermivorum</i>	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	<i>Mammalia</i>	Bobcat	<i>Lynx rufus</i>	Capture Location	4	NA	State Endangered	G5
Bobcat		<i>Lynx rufus</i>	Live Individual Sighting	4	NA	State Endangered	G5	S2
Bobcat		<i>Lynx rufus</i>	On Road	4	NA	State Endangered	G5	S2

Vernal Pool Habitat on the  
Project Site Based on Search of  
Landscape Project 3.3

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	3010
Total number of records:	1

**Rare Wildlife Species or Wildlife Habitat  
On the Project Site Based on Search of  
Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
131610	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3

Total number of records: 1



**Table 2: Vicinity Data Request Search Results (6 possible reports)**

<b><u>Report Name</u></b>	<b><u>Included</u></b>	<b><u>Number of Pages</u></b>
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	Yes	1 page(s) included
2. Natural Heritage Priority Sites within the Immediate Vicinity	Yes	See emailed attachments
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	2 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	1 page(s) included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

**Immediate Vicinity of the Project Site  
Based on Search of Natural Heritage Database  
Rare Plant Species and Ecological Communities Currently Recorded in  
the New Jersey Natural Heritage Database**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Regional Status	Grank	Srank	Identified	Last Observed	Location
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Rein Orchid			HL	G47T4Q	S2	Y	2008-09-08	On both sides of small stream, at point where trail comes closest to the south side of the stream, within 0.2 mile east-northeast of school, ca. 1 1/2 miles south of Wolf Lake, Roseville.
<i>Ranunculus micranthus</i>	Rock Buttercup			HL	G5	S2	Y	1998-04-14	South side of small hill between road and Lubber's Run, ca. 1.4 miles south-southwest of Wolf Lake.

Total number of records: 2

***Vascular Plants***

**Rare Wildlife Species or Wildlife Habitat Within the  
Immediate Vicinity of the Project Site Based on Search of  
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank
<i>Aves</i>	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythrophthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Broad-winged Hawk	Buteo platyterus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Least Flycatcher	Empidonax minimus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Nest	4	NA	State Endangered	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
	Worm-eating Warbler	Helminthos vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N

*Mammalia*



**Rare Wildlife Species or Wildlife Habitat Within the  
Immediate Vicinity of the Project Site Based on Search of  
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Bobcat	Lynx rufus	Capture Location	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	On Road	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Telemetry: Home Range	4	NA	State Endangered	G5	S2
<b>Reptilia</b>	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G3	S2

**Vernal Pool Habitat  
In the Immediate Vicinity of  
Project Site Based on Search of  
Landscape Project 3.3**

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**Vernal Pool Habitat Type**      **Vernal Pool Habitat ID**

Vernal habitat area      3010

Total number of records:      1

**Rare Wildlife Species or Wildlife Habitat  
In the Immediate Vicinity of the  
Project Site Based on Search of  
Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank	Last Observed	Count
131610	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3
136227	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3
151658	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3

Total number of records: 3



***Table 3: Within 1 Mile for Riparian Zone Width Determination  
(6 possible reports)***

<b><u>Report Name</u></b>	<b><u>Included</u></b>	<b><u>Number of Pages</u></b>
1. Rare Plant Species Occurrences for Riparian Zone Width Determination (Flood Hazard Area Control Act Rule Application) - Within One Mile of the Project Site Based on Search of Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites for Riparian Zone Width Determination - Within One Mile of the Project Site	Yes	See emailed attachments
3. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	4 page(s) included
4. Vernal Pool Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	Yes	1 page(s) included
6. Other Animal Species for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Search of Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank
<i>Amphibia</i>	Jefferson Salamander	Ambystoma jeffersonianum	Occupied Habitat	2	NA	Special Concern	G4	S3
	Jefferson Salamander	Ambystoma jeffersonianum	On Road	2	NA	Special Concern	G4	S3
<i>Aves</i>	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Nest	4	NA	State Endangered	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythrophthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Broad-winged Hawk	Buteo platypterus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
Canada Warbler	Wilsonia canadensis	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N	

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Search of Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
	Cerulean Warbler	Dendroica cerulea	Breeding Sighting	2	NA	Special Concern	G4	S3B,S3N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Nest	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Least Flycatcher	Empidonax minimus	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Nest	4	NA	State Endangered	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G4	S3B,S4N
	Worm-eating Warbler	Helminthos vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N

*Insecta*



**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Search of Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank
	Arrowhead Spiketail	Cordulegaster obliqua	Foraging	2	NA	Special Concern	G4	S3
	Arrowhead Spiketail	Cordulegaster obliqua	Occupied Habitat	2	NA	Special Concern	G4	S3
	Rapids Clubtail	Gomphus quadricolor	Exuviae Sighting	2	NA	Special Concern	G3G4	S3
	Rapids Clubtail	Gomphus quadricolor	Foraging	2	NA	Special Concern	G3G4	S3
	Rapids Clubtail	Gomphus quadricolor	Territorial Display	2	NA	Special Concern	G3G4	S3
	Tiger Spiketail	Cordulegaster erronea	Occupied Habitat	2	NA	Special Concern	G4	S3
<i>Mammalia</i>								
	Bobcat	Lynx rufus	Capture Location	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	On Road	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Physical evidence	4	NA	State Endangered	G5	S2
	Bobcat	Lynx rufus	Telemetry: Home Range	4	NA	State Endangered	G5	S2

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Search of Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
<i>Reptilia</i>	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G3	S2

**Vernal Pool Habitat for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Search of Landscape Project 3.3**

<b>Vernal Pool Habitat Type</b>	<b>Vernal Pool Habitat ID</b>
Vernal habitat area	2990
Vernal habitat area	2997
Vernal habitat area	3009
Vernal habitat area	3010
Potential vernal habitat area	2157
Potential vernal habitat area	2162
Potential vernal habitat area	2175
Total number of records:	7

**Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination  
 Within One Mile of the Project Site  
 Based on Search of Landscape Project 3.3 Stream Habitat File**

Link ID	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank	Last Observed	Count
131610	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3
136227	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3
151658	Triangle Floater	Alasmidonta undulata	Occupied Habitat	3	NA	State Threatened	G4	S2	2002	3

Total number of records: 3



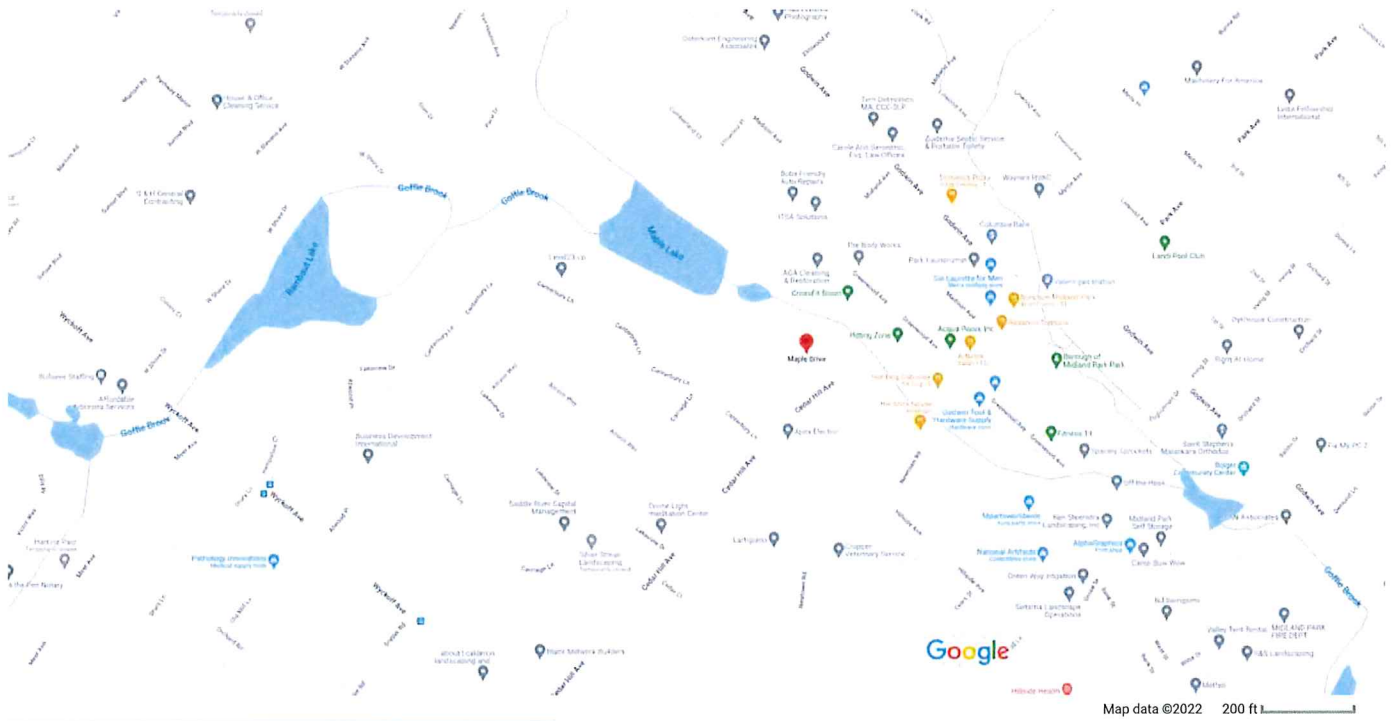
**Other Animal Species for Riparian Zone Width Determination  
Within One Mile of the Project Site  
Based on Additional Species Tracked by  
Endangered and Nongame Species Program**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Strank
<i>Vertebrate Animals</i>					
Myotis leibii	Eastern Small-footed Myotis		G4		S1
Total number of records: 1					





Maple Dr  
Canterbury Development



Maple Dr  
Wyckoff, NJ 07481

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Document Pages: 31	Signatures: 0
Certificate Pages: 1	Initials: 0
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Envelopeld Stamping: Enabled	Envelope Originator:
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Electronic Record and Signature Disclosure:  
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In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	6/9/2022 7:28:47 PM
Certified Delivered	Security Checked	6/9/2022 7:28:56 PM
Signing Complete	Security Checked	6/9/2022 7:29:26 PM
Completed	Security Checked	6/9/2022 7:29:26 PM
Payment Events	Status	Timestamps