

# **ENVIRONMENTAL IMPACT ASSESSMENT**

**FOR**

## **HAMMONTON LAKE PARK RECREATION AMENITIES IMPROVEMENTS**

### **GREEN ACRES GRANT FUNDING APPLICATION 2026**

**BLOCK: 3801, PORTION OF: LOT 15**

**TOWN OF HAMMONTON, ATLANTIC COUNTY  
NEW JERSEY**

**JANUARY 2026**

**FOR SUBMISSION TO:**

**GREEN ACRES PROGRAM  
401 EAST STATE STREET  
TRENTON, NJ  
08625**

**PREPARED FOR:**

**Town of Hammonton  
100 Central Ave.  
Town of Hammonton, New Jersey, 08037**

**SUBMITTED BY:**



**Adams, Rehmann & Heggan Associates, Inc.  
215 Bellevue Avenue  
Hammonton, New Jersey, 08037  
Telephone: (609) 561-0482  
Telefax: (609) 567-8909**

**ARH #2025-0895**

## **TABLE OF CONTENTS**

<u>SECTION</u>	<u>PAGE</u>
1. PROJECT INFORMATION.....	1
a. Project Description and Location .....	1
b. Project Need and Objective .....	2
2. DESCRIPTION OF ENVIRONMENT .....	2
a. Vegetation .....	2
b. Wildlife (threatened/endangered species).....	2
c. Geology, Topography and Soils .....	2
d. Water Resources, Hydrology .....	3
e. Historic and Archaeological Resources .....	3
f. Transportation and Access to Site.....	4
g. Adjacent Land Uses .....	4
3. ENVIRONMENTAL IMPACT OF PROPOSED ACTION .....	4
a. Resources and Impacts.....	4
b. Short and Long Term Impacts .....	4
c. Benefits of Recreation Use .....	5
d. Adjacent Resources and Potential Impacts .....	5
e. List of Permits.....	5
f. Natural Heritage Program Response .....	5
g. Effects to Sea Level and Considerations .....	5
4. ALTERNATIVES TO PROPOSED ACTION.....	6
a. Alternative Sites.....	6
b. Alternate Levels or Types of Development.....	6
c. Environmental Impacts .....	6
5. MITIGATIVE MEASURES .....	6

## **TABLE OF CONTENTS** **(Continued)**

### **APPENDICES**

#### **A Figures:**

- Figure No. 1      Digital Ortho Map (Aerial)
- Figure No. 2      Tax Map
- Figure No. 3      U.S.G.S. Location Map
- Figure No. 4      Soils Survey Map
- Figure No. 5      Geology
- Figure No. 6      FEMA “Firmette”

#### **B Existing Photographs**

#### **C Natural Heritage Program Response**

#### **D Qualifications**

## 1. PROJECT INFORMATION

### a. Project Description and Location:

This Environmental Impact Assessment (EIA) is being submitted for the FY2026 Green Acres Grant application for the construction of various recreation amenities at the Hammonton Lake Park facility. Hammonton Lake Park is situated on a portion of Block 3801, Lot 15 an existing ±35 acre Town owned property situated north of Park Avenue, Town of Hammonton, Atlantic County. The project proposal includes additional recreational amenities including:

- Permeable bocce ball courts;
- Outdoor fitness court;
- ADA accessible floating kayak launch
- Renovation of the pavilion to an event area with synthetic turf surface area;
- ADA walkways to the areas;
- Stormwater Management Facilities.

The total 2026 improvements listed above includes an area of approximately 33,000 SF ( $\pm 0.75$  acres) of proposed disturbance and construction activities. Site improvements for ADA accessibility and recreation amenities will be in compliance with local regulations and building codes.

Appendix A of the report includes Figure No. 1 displaying the site location for improvements on a Digital Ortho (Aerial Map) and Figure No. 2 displays Block 3801, Lot 15 on the appropriate Municipal Tax Map. The property is located within the Town of Hammonton's designated Pinelands Town per the NJ Pinelands Comprehensive Management Plan (CMP) designation. The existing Town of Hammonton Park has been in existence for over 30 years.

The project proposes the installation of those amenities listed above for the 2026 Grant funding at Hammonton Lake Park. Paved pedestrian ADA accessible connecting walkways are proposed to access the kayak launching area, outdoor event area, and outdoor fitness court area from the parking areas and recreation areas. The Town has previously incorporated ADA compliant and all-inclusive activities into the existing characteristics of the Park under previous Green Acre Grants in 2025.

The objectives by the Town of Hammonton for the overall Park setting layout is to provide connectivity to all areas of the park system while ensuring public safety, inclusive recreation areas, and ADA accessibility.

See ground level photographs of existing conditions for the proposed improvement areas. See Appendix B.

Phasing of the project would be completed as follows:

- Phase 1 – Demolition, grading of the areas and preparation of the areas for construction
- Phase 2 – Installation of improvements proposed as identified on the enclosed plans, stormwater amenities, and access walkways

**b. Project Need and Objective:**

The Town of Hammonton proposes improvements to include additional ADA accessible areas for recreation (fitness area, kayak boat launch, and event area), to provide improved space for recreational uses of the facility by the public. The “*project need*” has been expressed by the Town’s recreational department and stakeholders to provide ADA accessible amenities for use by the public in the form of completely inclusive areas as described. Currently these facilities do not exist within the Park.

**2. DESCRIPTION OF THE ENVIRONMENT**

**a. Vegetation**

The areas of proposed improvements are located within a partially improved and clear areas of the Hammonton Lake Park recreational area. Photos of existing areas in question have been included in Appendix B. A few canopy trees specifically exist in the area of the fitness court, and event area, avoidance of any tree removal for these improvements will be made to the best extent practicable. Prior to construction these areas will be further assessed to avoid removal.

Landscaping plans will be generated to revegetate any areas impacted, where needed. Innovative rain garden systems are proposed to provide habitat and herbaceous plantings as well as soil erosion and sediment controls.

**b. Wildlife (threatened/endangered species)**

There are no known state/federal/threatened endangered species mapped within the areas proposed for the improvements. The Park site in general, as well as specific areas proposed for disturbance, have been disturbed historically, limiting habitat values for listed floral/faunal species. The uplands, where development activities are proposed for the new site improvements, provides habitat for common mammalian/avian species, however, the intensive degree of human action at the site, inclusive of intensive recreation activities, vehicle movement, site lighting, passing traffic noise, etc., function to further marginalize this habitat.

**c. Geology, Topography and Soils**

The project site is located within the Outer Atlantic Coastal Plain which from a geologic standpoint consisted of metamorphic rock formations. The Cohansey Sand formation was deposited during the Miocene epoch, and the soils are composed of very coarse quartz-dominated (“quartzose”) sand. The site grades to the north and northeast with 2-5% grades to Hammonton Lake and tributary. A USGS location map has been included in Appendix

A. The highest topographic areas within the project area consist of elevation 86 sloping to north and northeast

The NRCS has mapped three (3) specific soil types underlying the overall Park site. These include Atsion sand (AtsAO), Lakehurst sand (LakB), and Manahawkin muck (MakAd). The majority of the active Park site is underlain by Lakehurst sand, a well-drained soil with depths to seasonal high-water table and groundwater of five (5) feet or greater.

Extensive soil exploration has been completed within the proposed project area and the surrounding Park. These geotechnical borings confirmed the soil mapping unit for the area along with seasonal high-water table and groundwater.

Appendix A includes Geology mapping and NRCS Soil Survey mapping for the project site.

#### **d. Water Resources and Hydrology**

The property is located within an existing disturbed and improved Park setting adjacent to the tributary known a Fowlers Creek which drains to the Hammonton Lake open water feature. There are freshwater wetlands within 300 feet of the fitness area. A wetlands delineation has been completed in accordance with the Pinelands Commission requirements. Proposed ADA inclusive improvements as previously described are located outside the designated 50-foot wetlands buffer as depicted on the design plans included with this application or within areas that have been previously disturbed.

The Park and all water-generating facilities within the Park are served by the Town's water and sanitary sewerage systems. From a Non-Point perspective, the project design is inclusive of stormwater management facilities meeting the current regulations referenced in the CMP and NJAC 7:8. A series of infiltration basins, existing basin expansion, and rain gardens have been proposed to collect, and recharge stormwater generated by the project infiltration facilities dispersed across the site, alleviating the need for larger facilities.

#### **e. Historic and Archaeological Resources**

A review of the New Jersey and National Registers of Historic Places and GIS mapping of known historic places shows that the site does not contain any significant historic or archeological resources. In addition, a review of the historic LUCY mapping for the area shows no impact within the Park setting. Therefore, no impact on these resources is anticipated with the development of the project site. This has been confirmed in the previous approvals received from the NJ Pinelands Commission.

#### **f. Transportation and Access to the Site**

Currently, site access/egress is off of Park Avenue to Sports Drive, where the existing internal circulation system provides access to the proposed site improvements under this application, along with the lake recreation areas including picnic areas, walking trails, and a series of ball fields situated within a graded running/walking track on the southern portion of the site. The paved loop access road to the north provides access to the boat launch area, and boat house. The entire Park is serviced by potable water supply and sanitary sewer. Access to the project area will continue to be from Sports Drive and have associated handicap parking and access via paved walkways with ADA accessibility to the restroom areas.

**g. Adjacent Land Uses**

Adjacent land uses to the Park setting include residential single family and multi-family complexes to the west and northwest. See aerial view in Appendix A of surrounding land uses. Light commercial and industrial is located to the south across Egg Harbor Road (CR 561), including the National Guard facility. To the east and northeast exist Hammonton Lake Park and vacant open land.

**3. ENVIRONMENTAL IMPACT OF PROPOSED ACTIONS**

**a. Resources and Impacts**

Impacts to site resources will be maintained by required buffers from sensitive areas that have been identified. The project area improvements are located within the park setting, and adjacent upland setting, except for the kayak floating dock system along Fowler Creek. Overall, the areas exist as previously disturbed based on past use and improvements made to the Park property. Reference is made to the photos of the existing conditions.

All design measures have been proposed to include soil erosion controls in accordance with the DelAtlantic Conservation District and requirements set by the NJ Pinelands Commission as a site proposing more than 5000 square feet of disturbance. Previous approvals have been granted.

**b. Short- and Long-Term Impacts**

Short term impacts will include construction and preparation of the project site related to associated improvements. Movement of construction vehicles and access to the site for associated construction will be demarcated during installation of these improvements. Long term impacts include vehicle movement for associated use of the areas by the public and sound levels of use. However, the long term use by those in need of ADA accessible inclusive areas will be an overall benefit.

**c. Benefits of Recreational Use**

Benefits of the ADA accessible and inclusive fitness equipment, kayak launching area and event area will improve and add other ADA inclusivity benefits to the Park. The implementation of these amenities will make the Park more accessible to those with disabilities and meet the objectives of the Town efforts to offer these amenities to the public.

**d. Adjacent Properties and Potential Impacts**

The Hammonton Lake Park is located within a Pinelands designated Town, situated adjacent to urban and residential developments. In addition, there is existing park drive access with pedestrian walking and proposed ADA accessible sidewalk systems. The objective is to provide residents with additional improvements for safe use by the public and those with disabilities. The potential impacts associated with the site improvements within Hammonton Lake Park are negligible for environmental features as the area remains partially cleared and improved.

**e. List of Permits**

The following is a list of permits that exist for the project improvements, these include:

- NJ Pinelands Commission Public Development (Approval 1989-0573.012);
- DelAtlantic Soil Conservation District Certification;

**f. Natural Heritage Request**

A request to the NJ Natural Heritage Program had been completed previously for the property. The response provides results for threatened/endangered species that may exist on or within the vicinity of the project site improvements. A copy of the response has been included as Appendix C.

**g. Effects to Sea Level and Considerations**

The project site as previously indicated is located at a high mean sea level elevation indicative of upland areas. The project has been reviewed relative to stormwater discharge rates and amounts based on impervious surfaces added to the project site and will be designed to meet NJAC 7:8 and all stormwater controls required by local, County and State entities. This review will minimize the impacts on the area and surface water runoff as well. The site will remain at this higher elevation from mean sea level.

## **4. ALTERNATIVES TO PROPOSED ACTION**

### **a. Alternative Sites**

As the proposed improvements are within the developed Hammonton Lake Park, there were no other alternative sites reviewed. The objective of the proposed site improvements are to provide additional ADA accessible and inclusive amenities to compliment other on-going park related improvements.

### **b. Alternate Levels and Type of Improvements**

The Town of Hammonton has reviewed the ADA accessible needs of the community and continues to improve the availability of accessible and inclusive areas for those with disabilities.

### **c. Environmental Impacts**

As previously indicated, the site exists as a disturbed recreational area and there are no environmental concerns within the upland setting associated with the project. All necessary buffers from sensitive areas have been maintained as previously indicated and with full collaboration with the Pinelands Commission for approval.

The proposed project has been designed to meet both the use of the area within the Park setting as an improved ADA accessible fitness court, and remains compatible with the existing uses.

## **5. MITIGATIVE MEASURES**

Construction of the proposed project, as displayed on the concept plan and exhibits provided, will generate the following unavoidable adverse environmental impacts:

- Ambient air quality will be degraded to a degree within the project area by any initial vegetation removal and soil disturbance activities.
- Sound levels will be elevated immediately adjacent to the project site during the project's initial phases of grading and area construction of equipment.
- Energy resources will be utilized in the construction/ operational phases of the project, both in any clearing and excavation activities and in the transport of materials.
- Minimal upland woodlands habitat will be eliminated to complete the construction of the ADA accessible/inclusive area amenities; however, the Applicant intends to minimize and avoid tree removal to the best extent practicable.

Mitigation measures approved by the DelAtlantic Soil Conservation District for disturbance over 5000 SF will be completed during construction to minimize direct and indirect impacts generated by wind or water-borne erosion. To minimize these impacts the following mitigative measures will be taken to complete construction:

The measures to be approved by the DelAtlantic Soil Conservation District include:

- a crushed stone construction vehicle entrance will be constructed to minimize the carrying of construction related sediment and debris off site where necessary;
- to control dust and wind-caused erosion, the contractor shall periodically wet down construction routes and staging areas, as needed;
- disturbed areas not scheduled for immediate construction shall be stabilized utilizing fast growing grass varieties in accordance with local Soil Conservation Service directives.
- Minimal to no clearing is necessary of native vegetation for the proposed project. Landscaping efforts will be reviewed and implemented where appropriate during the design review phase.

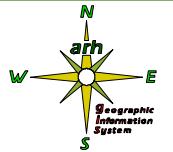
## **APPENDIX A**

### **Figures**

- Figure No. 1 Digital Ortho Map (Aerial)
- Figure No. 2 Tax Map
- Figure No. 3 U.S.G.S. Location Map
- Figure No. 4 Soils Survey Map
- Figure No. 5 Geology Map
- Figure No. 6 FEMA “Firmette”



Civil Solutions  
a division of *arch*



County - Atlantic  
Town - Hammonton  
Block - 3801  
Lot - 15  
Street - S Egg Harbor Rd  
& Park Ave  
Drawn by: MPQ  
Dated: 05/31/2024

■ Site Area  
■ Parcel

**NJDOT Roads**  
— County Route  
- - - Local Road

**Block 3801,  
Lot 15**

0 200 400  
1 inch = 400 feet



**2022 DIGITAL  
ORTHO PHOTO**

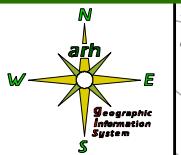
SE HAMMONTON NJ Quadrangle #1304  
ARH Project # 11-90032

Note:  
This map was developed using New Jersey Department of Environmental Protection  
Geographic Information System digital data, but this secondary product has not been  
verified by NJDEP and is not state-authorized.  
Imagery is courtesy of Atlantic County GIS.

Friday, May 31, 2024 8:38:09 AM  
W:\FILEROOM\HQ1\1190032\GIS\SPATIAL\Ortho\_Hammonton\_B3801\_L15\_8.5x11.mxd



Civil Solutions  
a division of *arth*



County - Atlantic  
Town - Hammonton  
Block - 3801  
Lot - 15  
Street - S Egg Harbor Rd  
& Park Ave  
Drawn by: MPQ  
Dated: 05/31/2024

Site Area

Block

Parcel

#### NJDOT Roads

County Route

Local Road

**Block 3801,  
Lot 15**

0 200 400  
1 inch = 400 feet

## TAX MAP

SE HAMMONTON NJ Quadrangle #1304  
ARH Project # 11-90032

Note:  
This map was developed using New Jersey Department of Environmental Protection  
Geographic Information System digital data, but this secondary product has not been  
verified by NJDEP and is not state-authorized.



Civil Solutions  
a division of *arc*



County - Atlantic  
Town - Hammonton  
Block - 3801  
Lot - 15  
Street - S Egg Harbor Rd  
& Park Ave  
Drawn by: MPQ  
Dated: 05/30/2024

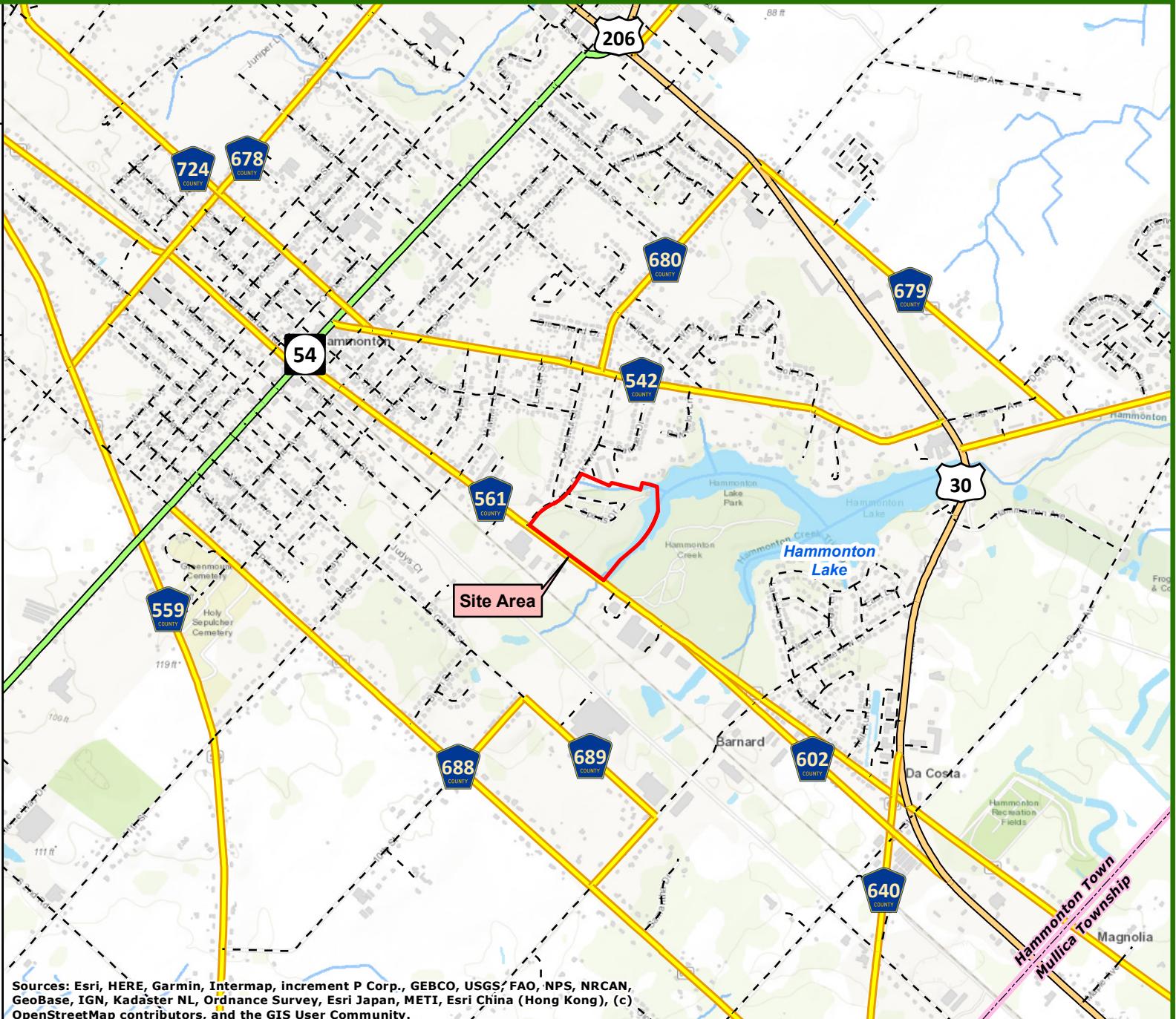
Site Area  
 Municipal Boundary

#### NJDOT Roads

- US Highway
- State Highway
- County Route
- Ramp
- Local Road

**Block 3801,  
Lot 15**

0 1,000 2,000  
1 inch = 2,000 feet



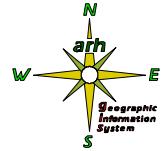
**USGS MAP**

SE HAMMONTON NJ Quadrangle #1304  
ARH Project # 11-90032

**Note:**  
This map was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.



Civil Solutions  
a division of *arth*



County - Atlantic  
Town - Hammonton  
Block - 3801  
Lot - 15  
Street - S Egg Harbor Rd  
& Park Ave  
Drawn by: MPQ  
Dated: 05/31/2024

Site Area

Parcel

#### NJDOT Roads

County Route

Local Road

#### USDA NRCS Soils

AtsA

BerAr

HboA

LakB

LasB

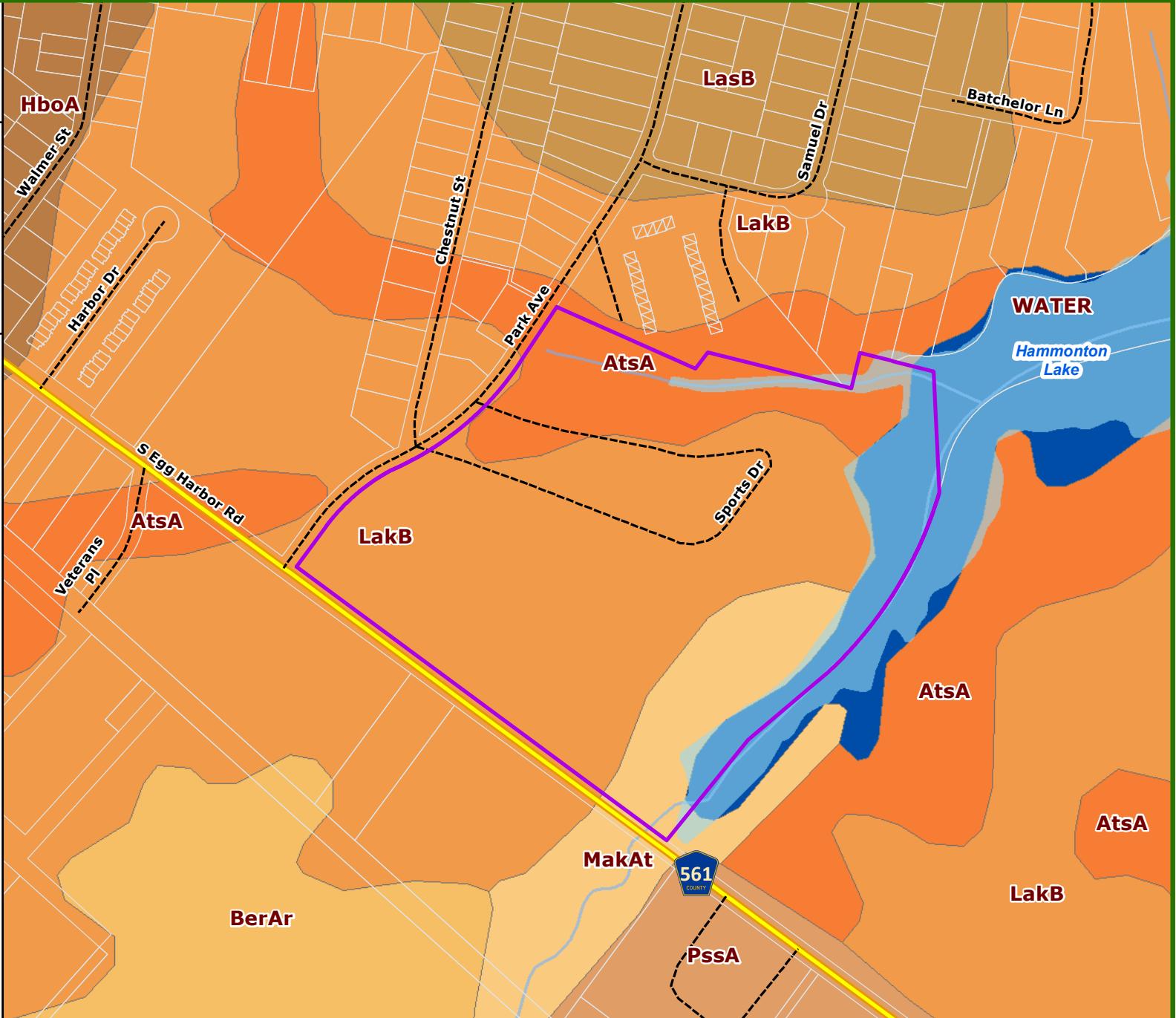
MakAt

PssA

WATER

**Block 3801,  
Lot 15**

0 200 400  
1 inch = 400 feet



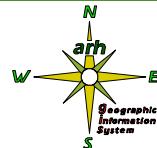
**SOIL MAP**

SE HAMMONTON NJ Quadrangle #1304  
ARH Project # 11-90032

Note:  
This map was developed using New Jersey Department of Environmental Protection  
Geographic Information System digital data, but this secondary product has not been  
verified by NJDEP and is not state-authorized.  
W:\FILEROOM\HQ11190032\GIS\SPATIAL\SOILMAP\_Hammonton\_B3801\_L15\_8.5x11.mxd



Civil Solutions  
a division of *arch*



County - Atlantic  
Town - Hammonton  
Block - 3801  
Lot - 15  
Street - S Egg Harbor Rd  
& Park Ave  
Drawn by: MPQ  
Dated: 01/10/2025

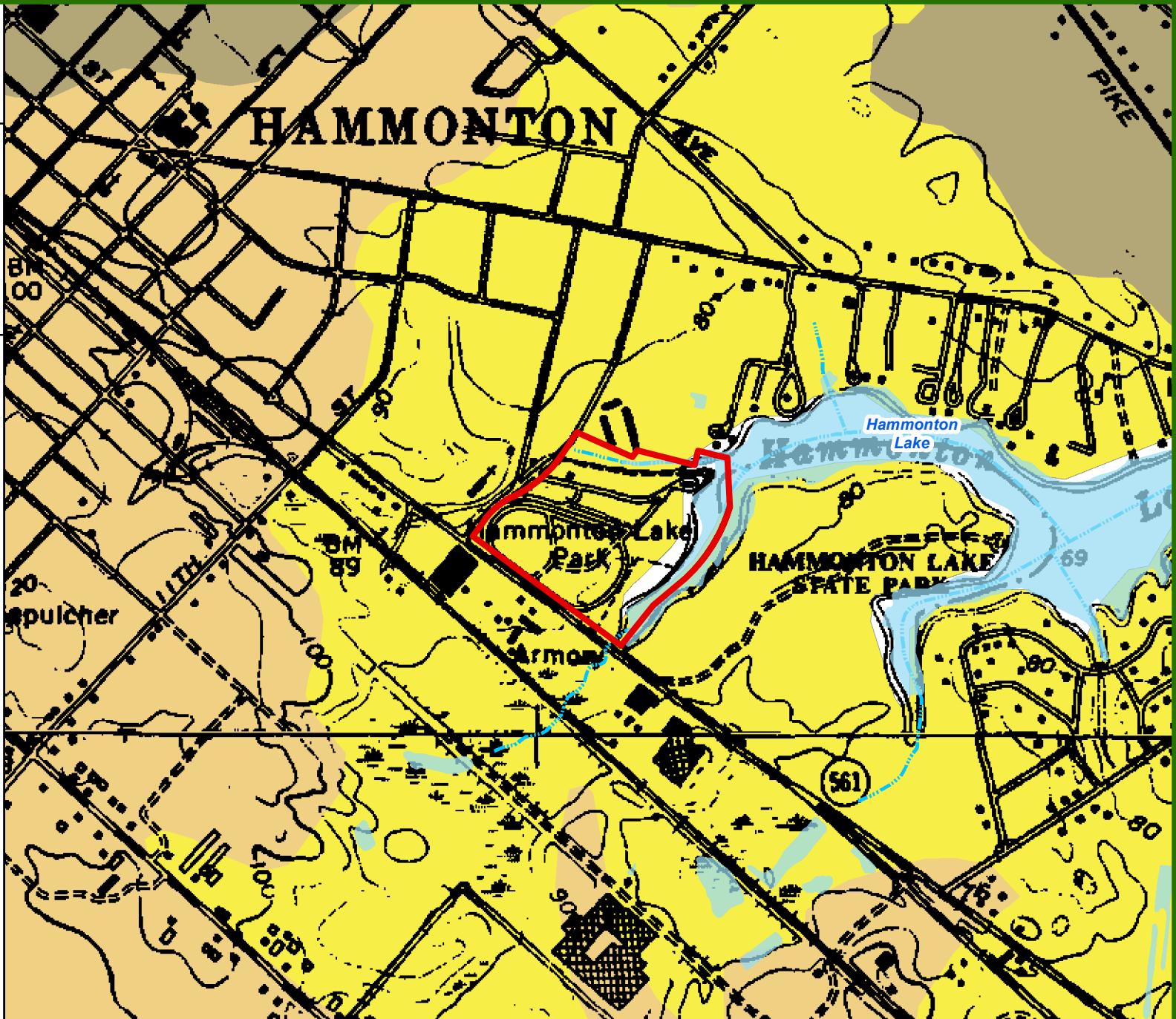
- Site Area
- Water bodies (NJDEP)
- Streams (NJDEP)

#### Surficial Geology

- BRIDGETON FORMATION
- UPPER STREAM TERRACE DEPOSITS
- WEATHERED COASTAL PLAIN FORMATIONS

Block 3801,  
Lot 15

0 500 1,000  
1 inch = 1,000 feet



## SURFICIAL GEOLOGY MAP

SE HAMMONTON NJ Quadrangle #1304  
ARH Project # 11-90032

Note:  
This map was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.

Friday, January 10, 2025 7:41:08 AM  
W:\FILEROOM\HQ\11190032\GIS\SPATIAL\GEOLOGY\_Hammonton\_B3801\_L15\_8.5x11 - Copy.mxd

# National Flood Hazard Layer FIRMette



FEMA

74°47'37"W 39°38'N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

### SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (BFE) Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

### OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone D

### OTHER AREAS

— Channel, Culvert, or Storm Sewer

||||| Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance  
17.5 Water Surface Elevation

8— Coastal Transect

~~~ 513 ~~~ Base Flood Elevation Line (BFE)

— Limit of Study

— Jurisdiction Boundary

— Coastal Transect Baseline

— Profile Baseline

— Hydrographic Feature

### OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/17/2024 at 7:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## **APPENDIX B**

### **Existing Photographs**



View of Proposed ADA Walkway Access Area to Bocce and Fitness Court from Parking Lot



View of Event Area and Surrounding Area



View of Kayak Launching Area/Parking (existing)



View of Proposed Kayak Launch



View of Access Drive to Park

## **APPENDIX C**

### **Natural Heritage Database Response (2023)**



## State of New Jersey

MAIL CODE 501-04

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE PARKS, FORESTS & HISTORIC SITES

OFFICE OF NATURAL LANDS MANAGEMENT

501 East State Street

P.O. Box 420, Mail Code 501-04

Trenton, NJ 08625-0420

Tel. (609) 984-1339 • Fax (609) 984-0427

SHAWN M. LATOURETTE

Commissioner

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

July 31, 2023

Marianne G. Risley  
ARH Associates, Inc.  
215 Bellevue Avenue  
Hammonton, NJ 08337

Re: Hammonton Lake Park  
Block(s) - 3801, Lot(s) - 85  
Hammonton Town, Atlantic County

Dear Marianne G. Risley:

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  $\frac{1}{4}$  mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within  $\frac{1}{4}$  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.

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 and 2 (attached) to determine if any priority sites are located on or in the immediate vicinity of the 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 <https://nj.gov/dep/parksandforests/natural/heritage/database.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 [https://nj.gov/dep/parksandforests/natural/docs/nhpcodes\\_2010.pdf](https://nj.gov/dep/parksandforests/natural/docs/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>.

Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements (species and/or ecological communities) or their locations. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

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. 23-3907467-28237

**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 | Yes                    | 1 page(s) included            |
| 2. Natural Heritage Priority Sites On Site                                                                                                                                             | No                     | 0 pages included              |
| 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                                                                                                    | No                     | 0 pages included              |
| 5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File                                                          | No                     | 0 pages included              |
| 6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program                                                              | Yes                    | 1 page(s) included            |

**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**

| Scientific Name | Common Name | Federal Protection Status | State Protection Status | Regional Status | Grank | Srank | Identified | Last Observed | Location |
|-----------------|-------------|---------------------------|-------------------------|-----------------|-------|-------|------------|---------------|----------|
|-----------------|-------------|---------------------------|-------------------------|-----------------|-------|-------|------------|---------------|----------|

***Vascular Plants***

|                      |                    |  |        |    |    |   |            |                                                                                                  |
|----------------------|--------------------|--|--------|----|----|---|------------|--------------------------------------------------------------------------------------------------|
| Utricularia purpurea | Purple Bladderwort |  | LP, HL | G5 | S3 | Y | 2006-08-08 | Hammonton Lake, Hammonton;<br>shallow coves at the southern and<br>western portions of the lake. |
|----------------------|--------------------|--|--------|----|----|---|------------|--------------------------------------------------------------------------------------------------|

Total number of records: 1

**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   |
|-------------|-------------|---------------------------------|--------------|------|---------------------------|-------------------------|-------|---------|
| <b>Aves</b> |             |                                 |              |      |                           |                         |       |         |
|             | Bald Eagle  | <i>Haliaeetus leucocephalus</i> | Foraging     | 4    | NA                        | State Endangered        | G5    | S1B,S2N |

**Other Animal Species  
On 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 | Srank |
|------------------------------------|----------------------|---------------------------|-------------------------|-------|-------|
| <b><i>Invertebrate Animals</i></b> |                      |                           |                         |       |       |
| <i>Cucullia alfarata</i>           | A Moth               |                           |                         | G4    | S2?   |
| <i>Datana ranaecepis</i>           | A Hand-maid Moth     |                           |                         | G3G4  | S3S4  |
| <i>Grammia placentia</i>           | Placentia Tiger Moth |                           |                         | G3G4  | S1S3  |
| Total number of records:           | 3                    |                           |                         |       |       |

**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                                                                                                                                     | No                     | 0 pages included              |
| 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                    | 1 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                                              | No                     | 0 pages included              |
| 6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program                                                  | Yes                    | 1 page(s) 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 |
|-------------------------------|----------------------|---------------------------|-------------------------|-----------------|-------|-------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b><i>Vascular Plants</i></b> |                      |                           |                         |                 |       |       |            |                                                                                                                                                                                                                     |          |
| Utricularia gibba             | Humped Bladderwort   |                           | LP, HL                  | G5              | S3    | Y     | 2017-09-29 | Hammonton Lake, Hammonton Town, Atlantic County. Approximately 1,600 feet east of the intersection of South Egg Harbor Road (County Route 561) and Park Ave. Hammonton Lake waters shared with Hammonton Creek WMA. |          |
| Utricularia purpurea          | Purple Bladderwort   |                           | LP, HL                  | G5              | S3    | Y     | 2006-08-08 | Hammonton Lake, Hammonton; shallow coves at the southern and western portions of the lake.                                                                                                                          |          |
| Utricularia resupinata        | Reversed Bladderwort | E                         | LP, HL                  | G4              | S2    | Y     | 1917-07-19 | Hammonton Lake, Hammonton.                                                                                                                                                                                          |          |

Total number of records: 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**

| Class           | Common Name         | Scientific Name                            | Feature Type      | Rank | Federal Protection Status | State Protection Status | Grank | Srank   |
|-----------------|---------------------|--------------------------------------------|-------------------|------|---------------------------|-------------------------|-------|---------|
| <b>Aves</b>     |                     |                                            |                   |      |                           |                         |       |         |
|                 | 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 |
|                 | Hooded Warbler      | <i>Wilsonia citrina</i>                    | Breeding Sighting | 2    | NA                        | Special Concern         | G5    | S3B,S4N |
| <b>Reptilia</b> |                     |                                            |                   |      |                           |                         |       |         |
|                 | Northern Pine Snake | <i>Pituophis melanoleucus melanoleucus</i> | Occupied Habitat  | 3    | NA                        | State Threatened        | G4T4  | S2      |

**Vernal Pool Habitat  
In the Immediate Vicinity of  
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             | 2699                          |
| Potential vernal habitat area   | 675                           |
| Potential vernal habitat area   | 690                           |
| Total number of records:        | 3                             |

**Other Animal Species  
In the Immediate Vicinity 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 | Srank |
|------------------------------------|----------------------|---------------------------|-------------------------|-------|-------|
| <b><i>Invertebrate Animals</i></b> |                      |                           |                         |       |       |
| <i>Cucullia alfarata</i>           | A Moth               |                           |                         | G4    | S2?   |
| <i>Datana ranaecepis</i>           | A Hand-maid Moth     |                           |                         | G3G4  | S3S4  |
| <i>Grammia placentia</i>           | Placentia Tiger Moth |                           |                         | G3G4  | S1S3  |
| Total number of records:           | 3                    |                           |                         |       |       |

## **APPENDIX D**

### **Qualifications**



## Marianne G. Risley PWS

Associate/Environmental Scientist



### SUMMARY

Marianne is a leading environmental scientist and project manager that allows her to coordinate various types of environmental projects including Pinelands, NJDEP-Land Use Regulation, and US Army Corps of Engineers wetland delineation projects, as well as corresponding permit applications. She oversees all aspects of environmental permitting projects including scheduling and preparation of applications for local, State and Federal permits, licensing agreements, and construction approvals encompassing a wide variety of project evaluations and permitting approaches. Her strategic thinking and regulatory knowledge have consistently led to successful and timely approvals.

Marianne has completed numerous wetland delineations throughout New Jersey with much success, with proposed development sites ranging from 2 to 200 acres. In addition to wetland delineations and permit applications, she conducts environmental field analyses including soil and vegetation analysis. Her project work includes data collection, site evaluation, and preparation of various environmental impact statements/feasibility studies. This involves the efficient site evaluation for environmental impacts, interpretation of GIS generated mapping resources, and thorough review. She is also experienced in the preparation, submission, and follow-up status reporting of project applications made to a diverse range of agencies for appropriate approvals:

- Freshwater/Coastal Wetland Delineations (various agencies)
- Freshwater Wetlands General Permits
- Tidelands / CAFRA / Waterfront Development
- Flood Hazard Area Individual Permits
- NJ Pinelands Commission
- US Army Corps of Engineers
- County Soil Conservation District Certifications/NJPDES 5G3
- NJDEP Treatment Works Approvals

She is highly proficient in providing supportive documentation for applications made to the local, County and State levels. Her coordination and compilation of required permits associated with major site plans, major subdivisions, and minor subdivision applications have proved to project success for many landmark projects including structural projects such as bridge and dam replacements, road design, and site design for buildings, multi-purpose trails, athletic fields, parks and solar arrays. Her experience in permitting services includes alternatives analysis, negotiation, critical path management, permit strategy development, applications, environmental impact report and compliance statements.

### PROFESSIONAL EXPERIENCE

#### NJDEP, Division of Land Use and Pinelands

Expertise and known for specialized permitting for various permits within NJ, extensive experience providing environmental planning support for various

### EDUCATION

Stockton University  
BS, Environmental Science,  
1984

### LICENSES / CERTIFICATIONS

Professional Wetlands  
Scientist

Wetlands Delineator Program

NJDEP Flood Hazard Control  
Act

NJ Annual Flood Management  
Conference

### YEARS OF EXPERIENCE

40

### PROFESSIONAL EXPERIENCE

- Environmental Field Analysis
- Wetlands Delineation
- Regulatory Authorizations Procurement
- Environmental Permitting

agencies throughout the State including but not limited to: NJDEP, Division of Land Use (Freshwater Wetlands, Flood Hazard, Pinelands, Tidelands, etc.).

### Representative Environmental Permitting Projects

**NJ Natural Gas – Ocean County and Monmouth Counties** – Gas Main Linear Extensions – both projects entailed pre-application screening, associated meetings with various permitting agencies. Ocean County extension included CAFRA Waterfront Development Permitting, Freshwater and Coastal Wetlands delineations, flood hazard area permitting, US Army Corps of Engineers Nationwide Permitting, and Tidelands associated with the utility improvements proposed.

**Atlantic City Electric (ACE)** – Various Counties – coordination of proposed sub-station improvements and completion of Soil Erosion Control authorizations. In addition, completion of various NJPDES discharge coordinated efforts for authorization of discharges needed as part of construction process. (ie NJPDES 5G3, etc...)

**Solvay – West Deptford, Gloucester County** – 150+ acre solar project site. Various permitting efforts were involved associated with the managing, and coordination of an NJDEP - Upland Waterfront Development Permit, Flood Hazard Individual Permit/Verification, Freshwater Wetlands Letter of Interpretation (LOI), and the USACOE Jurisdictional Determination.

**South Jersey Gas (SJG)** – Various projects including the management and coordination of subsurface system rehabilitation and replacement. Obtain and coordinate NJDEP Treatment Works approvals and associated construction management. Various SJI facility improvements and coordination.

### Various Municipal Work Projects:

**Hammonton, Atlantic County:** - Various efforts, management and coordination with municipality to complete required lake lowering permitting for lake maintenance, reviews of stormwater basin design during construction including evaluation of soils, Pinelands Town applications for linear development projects, and demolition of various structures.

**Pemberton Township, Burlington County** – Various efforts, management and coordination with municipality to complete permitting located within the NJ Pinelands jurisdiction, conduct evaluation of wetlands, soils and obtain Public Development approvals for related work for park systems, trail projects, dam reconstruction, and sewer/water improvements.

**Brick Township, Ocean County** – Various efforts, coordination and permitting required to obtain appropriate approvals for municipal building construction (ie: Special Operations building), evaluation of related NJDEP – Division of Land Use requirements, completion of coordination with agencies to complete Township objectives.

### Marinas:

**Brick Township, Ocean County** – Traders Cove Marina – dredging maintenance permitting through the NJDEP Division of Land Use and US Army Corps of Engineers, regulatory coordination.

**All Seasons Marina, Cape May County** - Dredging maintenance permitting through the NJDEP Division of Land Use and US Army Corps of Engineers, regulatory coordination.

**Bridge and Dam Projects:**

**8<sup>th</sup> Street Folsom BV-2, Atlantic County** - Design, Rehabilitation - Permitting including Pinelands and Freshwater Wetlands, Flood Hazard and Soil Conservation.

**Burlington County Bridge B4.61** - Design, Rehabilitation - Permitting including overlapping jurisdictions NJDEP Division of Land Use, Tidelands and US Army Corps of Engineers, Soil Conservation.

**Fairton Bridge Replacement, Cumberland County**- Design, Replacement - Permitting including overlapping jurisdictions NJDEP Division of Land Use and US Army Corps of Engineers, Soil Conservation.

**Beals Road Bridge – Cumberland County**– Design, Rehabilitation/Replacement – Permitting including overlapping jurisdictions NJDEP Division of Land Use and US Army Corps of Engineers, Soil Conservation.

**Van Lieus Bridge, Hunterdon County** – Design, Rehabilitation/Replacement – Permitting including wetlands delineation, NJDEP Division of Land Use and Flood Hazard Individual Permits, Soil Conservation.

**Class B Recycling General Permitting (NJAC 7:26A)** – Class B Recycling General Permit Approvals and Modifications for existing and new Class B Recycling Facilities. Coordination and completion with NJDEP Division of Solid and Hazardous Waste – Bureau of Recycling.