## PA Conservation Explorer



June 2015











### **Topics for today**

**Current Conservation Tools** 

PA Conservation Explorer

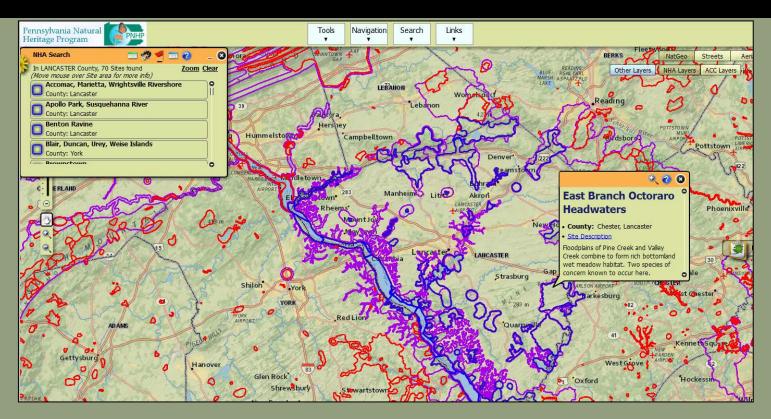
- Conservation Planning
- PNDI Environmental Review

### **Next Steps**



## **Current Conservation Tools**

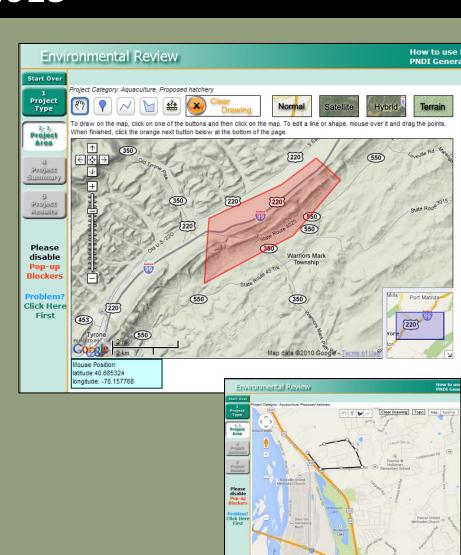
### **Current Planning Tool**

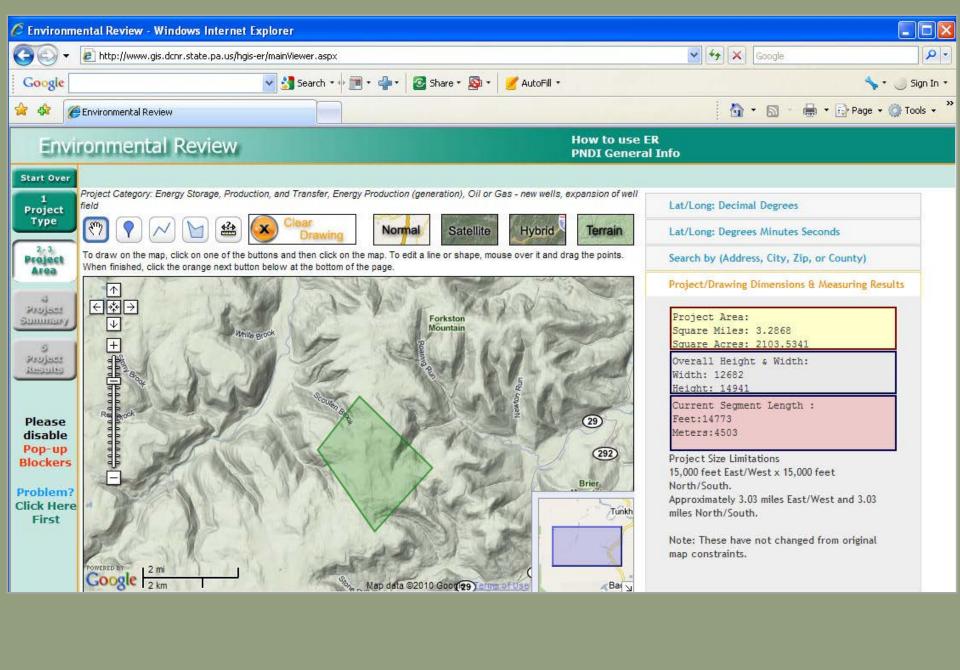


- County Natural Heritage Inventories & Interactive Map
  - View entire report by county
  - Click to get individual area reports
  - Limited threatened and endangered species information

# PNDI Environmental Review Tool 2005-2015

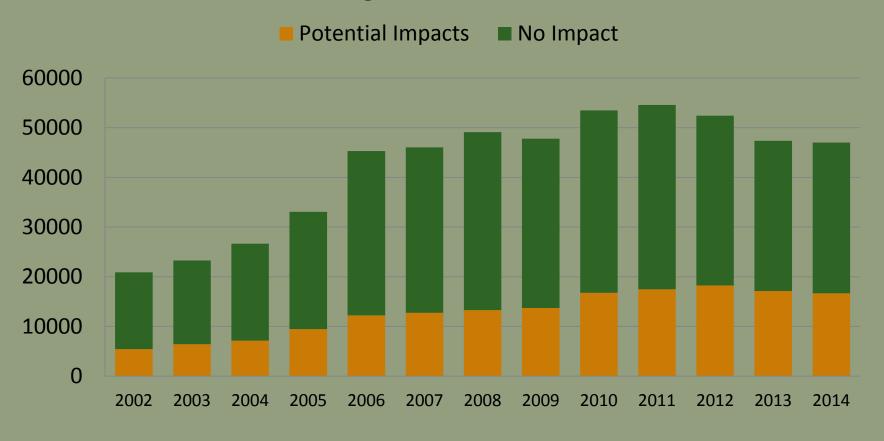
- First of its kind launched in 2005.
- Model for other states that followed, AZ, VA, NC, LA
- Pennsylvanians conduct 50,000 online searches per year. Majority No Impact
- An effective screening tool for projects.
- Quickly screens projects for potential impacts to T/E species
- Existing tool nearing end of lifespan as software and technology age.





## Usage

#### **PNDI Screenings and Further Coordination**



## Usage



- ~ 50,000: Total number of Screenings
- ~ 67%: No Coordination Required or No Species in vicinity
- ~ 33%: Further Coordination Required or Species in vicinity

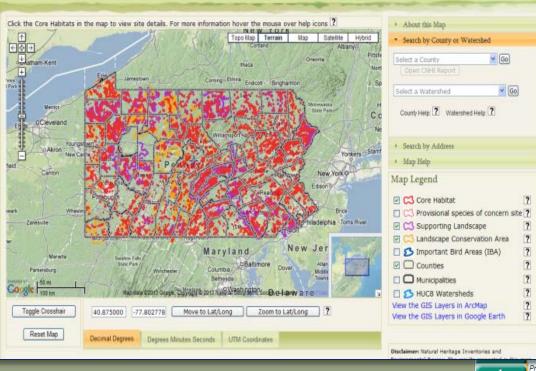
- ~ 16,600: PNDI screenings in connection with DEP permitting programs
- ~ 2% (300-400): Surveys requested by DCNR, FBC, PGC

## Planned Improvements





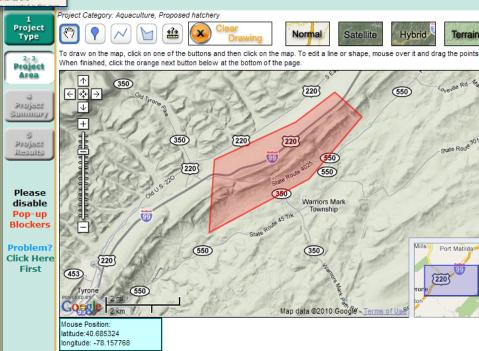




## 2 Tools in 1

PNDI Ger

**Combine Planning & Review** 



nmental Review

## Goals

Tool to support conservation and project planning

Improved user and administrative capabilities

Improved access to PA's conservation information

Protect species from disturbance or potential impacts

### **PA Conservation Explorer**

### Conservation Planning & PNDI Environmental Review Tool

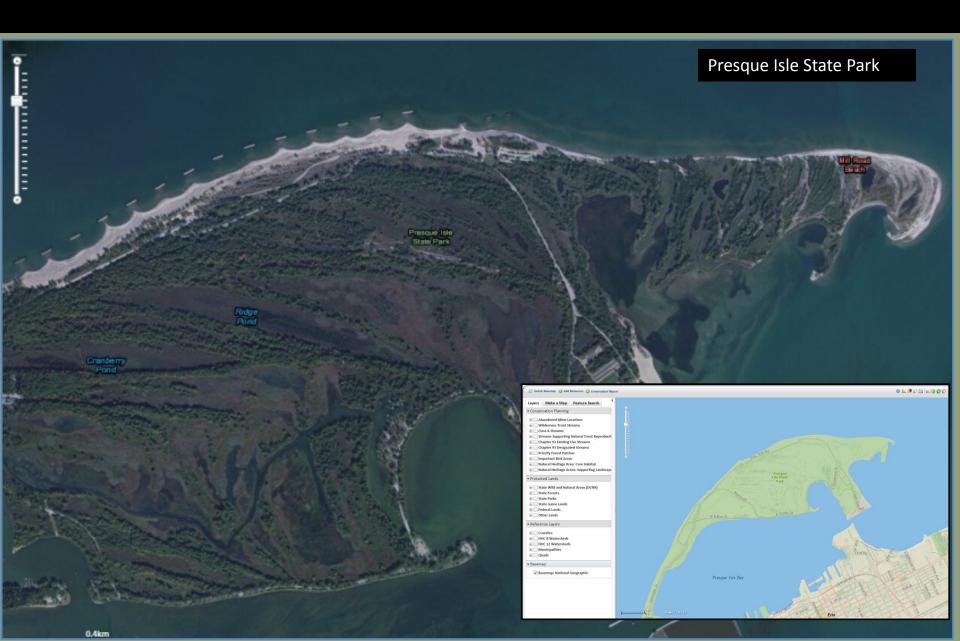


#### **Conservation Planning & Environmental Review**

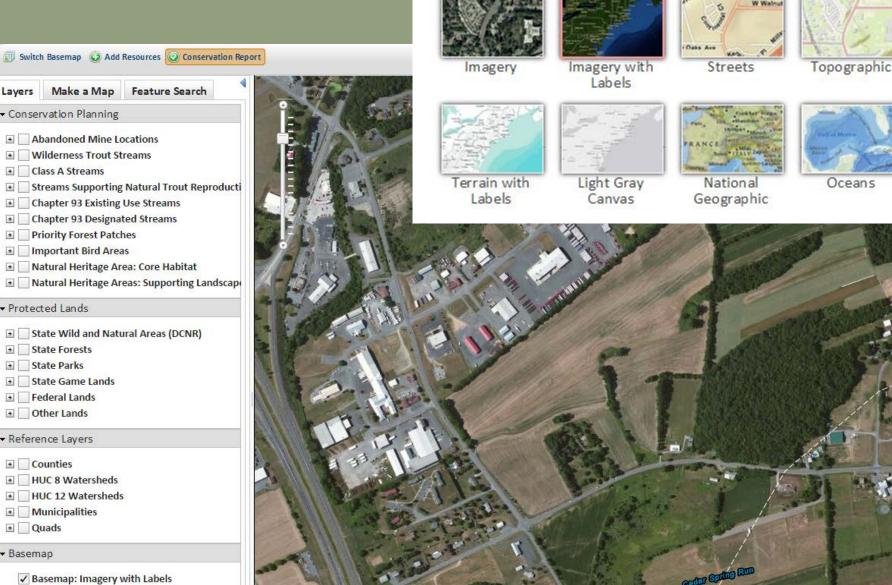
- View PA's conservation information for land-use and conservation planning
  - Anyone can view and create maps of conservation areas, statuses and values.
  - Access to Conservation Planning is open to all users
- o Perform a PNDI Environmental Review and obtain a PNDI receipt
  - Perform online screenings for potential impacts to threatened, endangered, special concern species and resources.

## **Mapping Enhancements**

## Mapping Enhancements



Oceans



Make a Map

**★** Abandoned Mine Locations Wilderness Trout Streams

**★** Chapter 93 Existing Use Streams **★** Chapter 93 Designated Streams Priority Forest Patches Important Bird Areas

Natural Heritage Area: Core Habitat

**■** State Wild and Natural Areas (DCNR)

→ Conservation Planning

Class A Streams

▼ Protected Lands

 State Forests State Parks State Game Lands Federal Lands Other Lands ▼ Reference Layers

Counties

▼ Basemap

**HUC 8 Watersheds** HUC 12 Watersheds Municipalities + Quads

✓ Basemap: Imagery with Labels

Feature Search

### **Conservation Planning**

### **Conservation Planning**

<u>Purpose</u>: Conservation Planning & Project Assessments

Open access: No login required

View Conservation Information (no PNDI info)

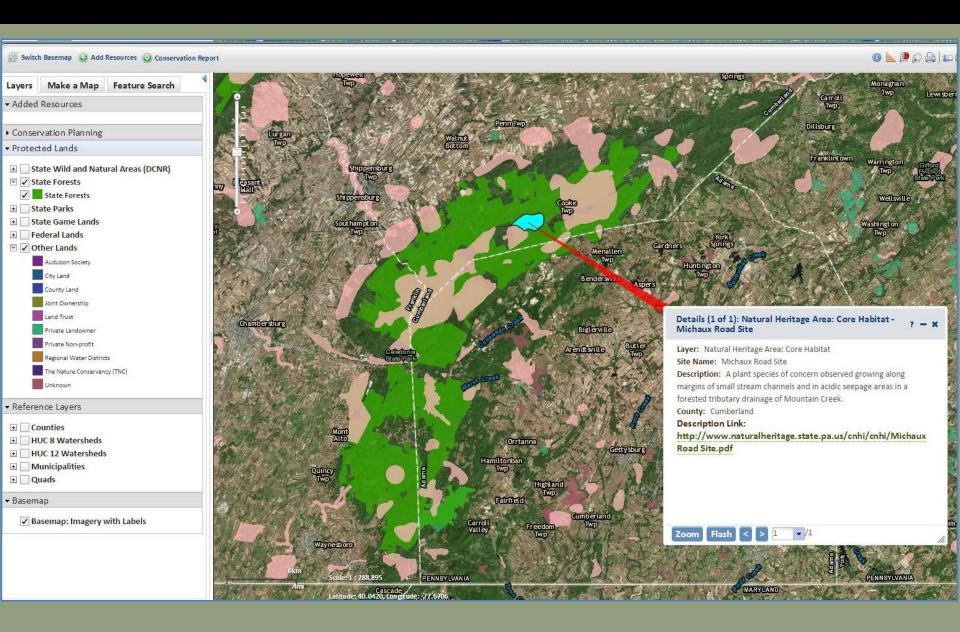
Landscape Level Assessments

**Obtain Planning Reports** 

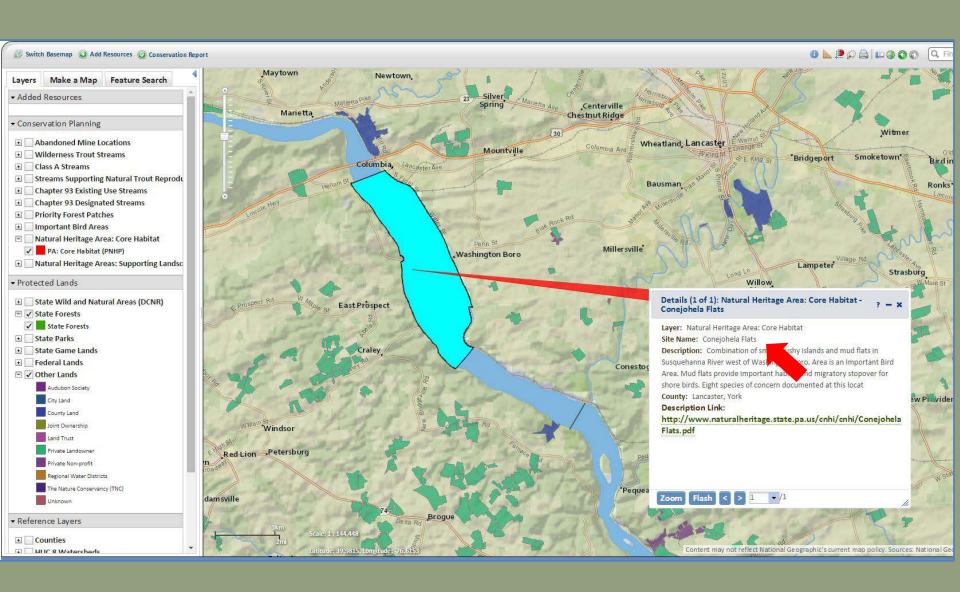
Choose from 11 Base maps

Add Your Own Data Layers

### **Visible Information**



### Access to Conservation Information



### Access to CNAI Report

Natural Heritage Site Name	Description	Reference
Strack's Dam	Extensive wetland complex supports a species of concern. Reed canary grass and common reed threaten to dominate some areas of the wetland.	<u>Link</u>

#### Strack's Dam

A **species of concern**, not named at the request of the agency overseeing its protection, occurs in a wetland near the drained Myerstown Dam. This site now consists of a twenty-two acre wetland. This shallow wetland is currently being threatened by invasive plant species, including reed canary grass (*Phalaris arundinacea*) and common reed (*Phragmites australis*). A channelized stream runs through the eastern part of this site but most of the adjacent areas consist of wooded areas. Associated species include rice-cut grass (*Leersia oryzoides*), cattail (*Typha latifolia*), watercress (*Nasturtium officinale*), sweetflag (*Acorus calamus*), and various sedges (*Carex* spp.).

#### Conservation recommendations:

Monitor for changes in hydrology and control invasive species of plants.

### **Conservation Planning Report**

## Select area Receive Conservation Report

Pennsylvania Department of Natural Resources 2/20/2015 03:55:44 PM Presque Isle State Park Conservation Planning Report Presque Isle State Park Supporting Landscapes Important Bird Areas Chapter 93 Designated Use Streams

Pennsylvania Department of Natural Resources	2/20/2015 03:55:44 PM
Conservation Planning Report	Presque Isle State Park

#### Natural Heritage Areas

Natural Heritage Areas (NHAs) are sites that have been identified as critical habitat for species or natural communities of concern. This dataset is designed to identify, map and discuss areas that support species of concern, exemplary natural communities, and broad expanses of intact natural ecosystems that support components of Pennsylvania's native species biodiversity. These areas are prioritized based upon their ecological qualities and provided with recommendations regarding their management and protection. Most of the existing NHAs have been developed through PNHP's County Natural Heritage Inventories —systematic studies of the critical biological resources of a county.

Natural Heritage Site Name	Description	Reference
Presque Isle - Bay	As one of the best natural harbors along Lake Erie, Presque Isle Bay and its tributaries provide habitat for 15 species of concern in PA. Two state endangered fish, lowa darter and Eastern sand darter, have refugia here.	View the CNHI report for more information
Presque Isle - Gull Point	This area is the only example of the Great Lakes beach-dune- sandplain complex in PA. Comprised of several dynamic lakeshore community types, the highly diverse Gull Point	View the CNHI report for more information
Presque Isle - Bay	As one of the best natural harbors along Lake Erie, Presque Isle Bay and its tributaries provide habitat for 15 species of concern in PA. Two state endangered fish, Iowa darter and Eastern sand darter, have refugia here.	View the CNHI report for more information
Presque Isle - Gull Point	This area is the only example of the Great Lakes beach-dune- sandplain complex in PA. Comprised of several dynamic lakeshore community types, the highly diverse Gull Point supports at least 53 species of concern in PA. This	View the CNHI report for more information
Presque Isle - Peninsula	Diverse natural communities on the Peninsula include shoreline, sand dunes, sandplain and new ponds, marshes and old ponds, and several forest types. This site supports more than 70 species of concern, more than any other NHA in the state.	

#### State Lands

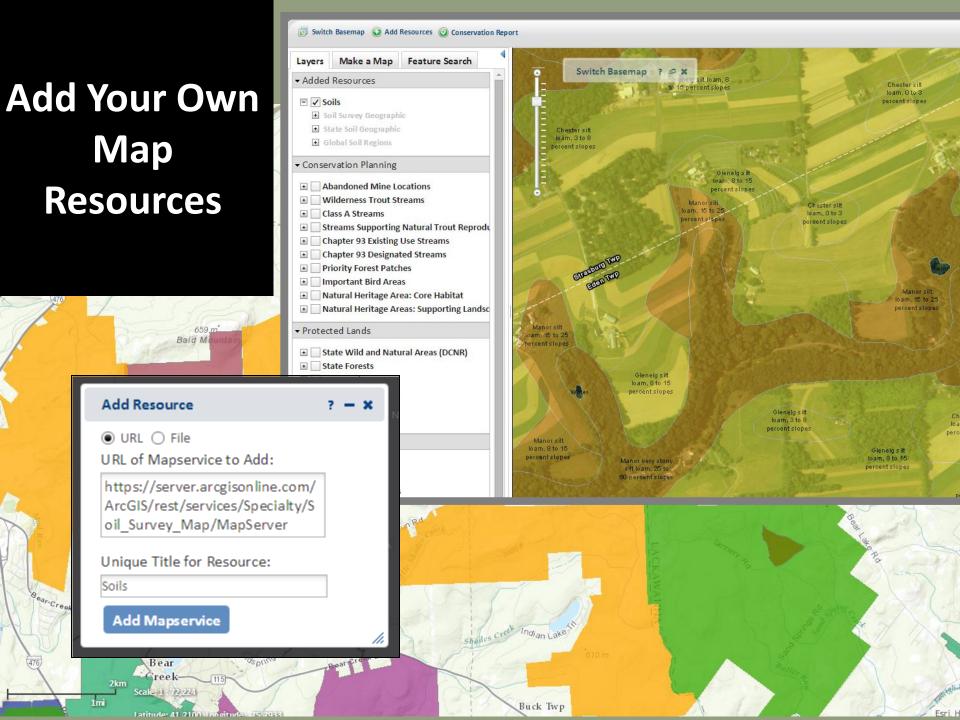
These include lands managed by the Department of Natural Resources (DCNR) Bureau of Forestry (BOF) for long-term forest health and native plant conservation; Pennsylvania Game Commission (PGC) for hunting, trapping and fishing; and DCNR Bureau of State Parks (BSP) for healthful outdoor recreation and environmental education.

Name	Wild Area Type	Wild Area Name	Manager	Total Acres	
	Presque Isle State Park	None	NA	BSP	2017.85

#### Important Bird Areas (IBAs)

These are areas recognized as being globally important habitat for the conservation of bird populations. Currently there are about 10,000 IBAs worldwide. The program was developed and sites are identified by BirdLife International.

IBA Site Number	Name	Reference
1	Presque Isle State Park	<u>Link</u>





### **Conservation Planning**

- Municipal and County planning
- Landscape-level project planning
- Grant planning
- Conservation assessments
- Site assessments
- Conservation planning layers







### **PNDI Environmental Review**

<u>Purpose</u>: Project-Specific Screening

Register, Data Sharing & Login Required

Fee Access for PNDI Screening & PNDI Receipt

View PNDI Species Habitat Info & Conservation Layers

Submit Project Materials Via Tool

#### User login

E-mail \*

Password \*

- · Create new account
- Request new password

Log in



#### Pennsylvania Natural Heritage Program

Home

Мар

Terms & Conditions

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Help

#### **Pennsylvania Conservation Explorer**

Conservation Planning and PNDI Environmental Review





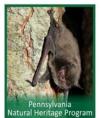
Welcome to **Pennsylvania Conservation Explorer**—for conservation planning and PNDI environmental reviews. The web-mapping tool allows anyone to perform online searches for potential impacts to threatened, endangered, special concern species and natural heritage resources.

For conservation planning, users do not need to register or log in.



Anyone can view and create maps of natural heritage areas by clicking the Map tab. You will need create an account to view environmental review polygons and generate a PNDI receipt for pre-permitting. You must be a registered user to view known locations of threatened, endangered, and special concern species and/or submit a project site for review. Note: Your project may require avoidance measures, conservation measures, or agency-

specific response(s).



To register, click on Create new account.

News & Updates
Subscribe to Wild Heritage News

The latest edition of PNHP Quarterly Newsletter is available. This issue includes articles on Beaver and Chester Natural Heritage County updates and the Natural Communities and Heritage of Raccoon Creek State Park. View the issue here.

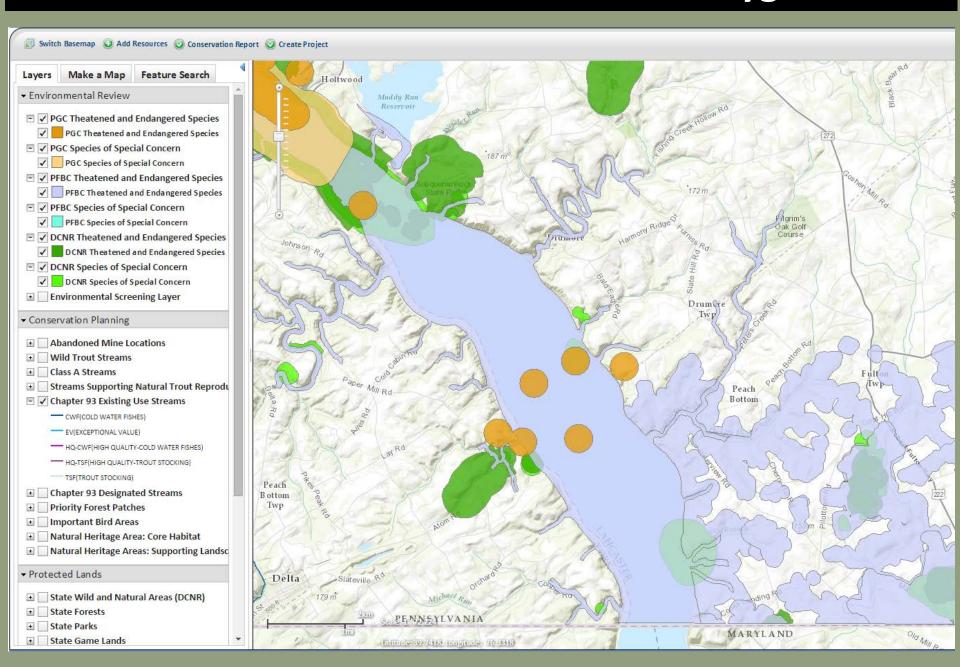
#### User login

E-mail \*

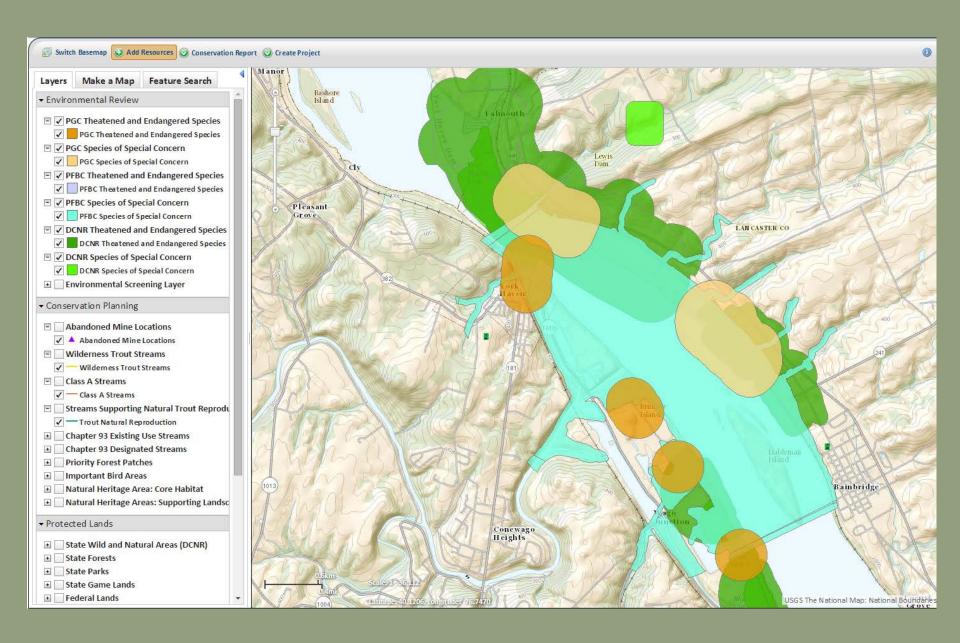
Password \*



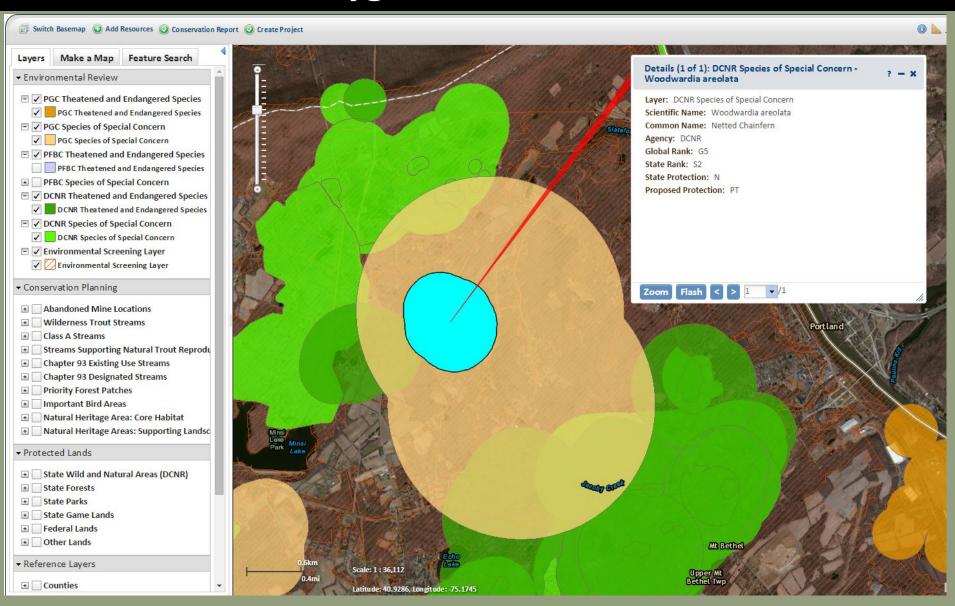
### **Environmental Review—Visible Polygons**

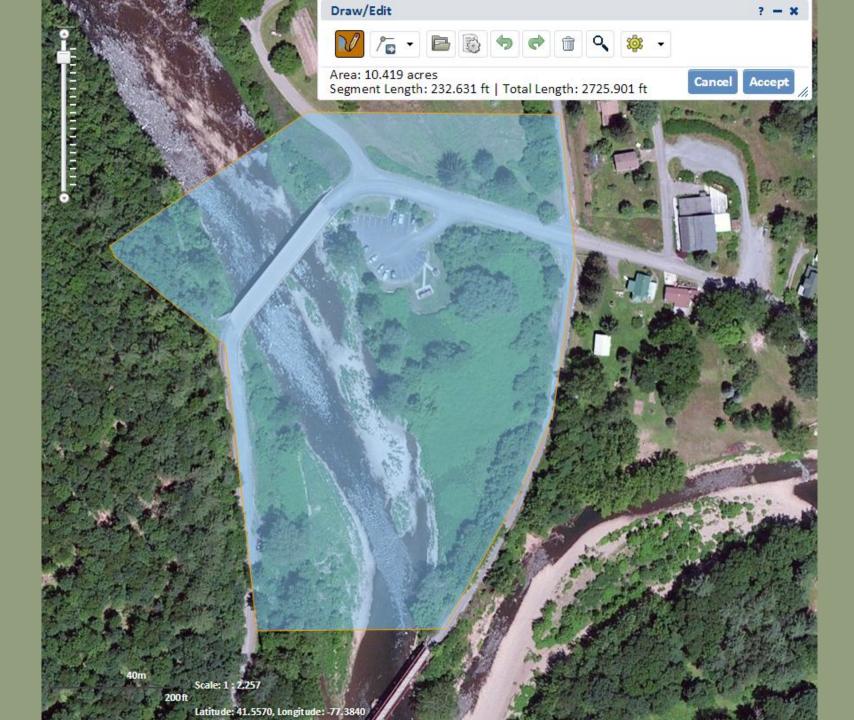


### **Environmental Review**



# Environmental Review Visible Polygons & Non-T&E Names

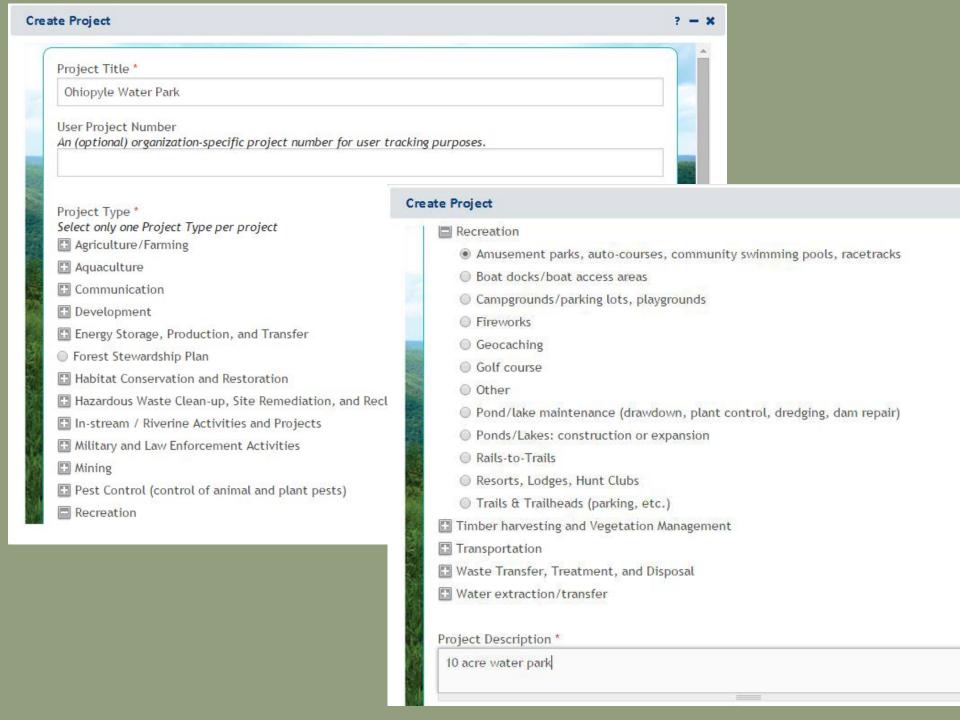


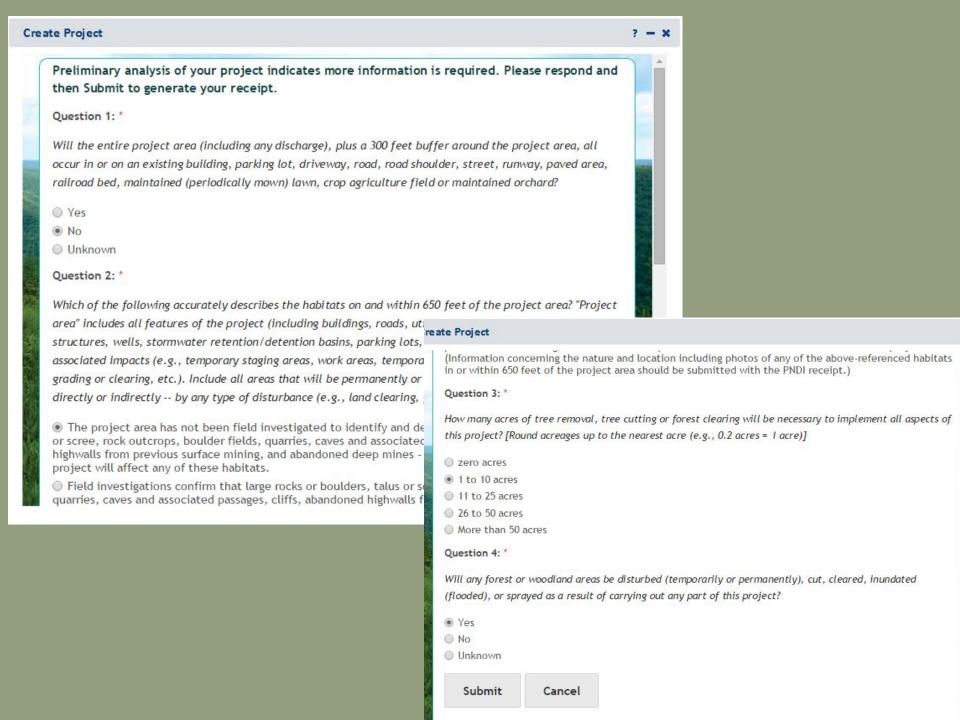


## Proposed PNDI Receipt Fee

### **Proposed PNDI Fee**

- To recoup administrative costs of tool and data mgmt
  - Ensure sustainability of PNDI tool and information
- \$40/PNDI Receipt
- No cost option to users—obtain review directly from agencies, rather than tool
- T&E Names will be displayed on PNDI Receipt





### **Project Receipt**

#### Summary results of the PNDI screening are displayed in the receipt.

Pennsylvania Department of Natural Resources

PNDI Receipt: project\_report\_test\_project\_2564\_3663.pdf

#### 1. PROJECT INFORMATION

Project Name: Test Project

Date of Review: 4/1/2015 10:02:50 AM

Project Category: Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW

Project Search ID: PNDI-109

(construction of new line in a new location)

Project Area: 159.43 acres County(s): Lancaster

Township/Municipality(s): FULTON

ZIP Code: 17563

Quadrangle Name(s): WAKEFIELD

Watersheds HUC 8: Lower Susquehanna

Watersheds HUC 12: Conowingo Creek; Fishing Creek-Susquehanna River

Decimal Degrees: 39.756495 N, -76.227861 W

Degrees Minutes Seconds: 39° 45' 23.3830" N, 76° 13' 40.2990" W

#### 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

#### PA Fish and Boat Commission RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status	
Percina bimaculata	Chesapeake Logperch	Threatened	
Sensitive Species**		Endangered	

#### U.S. Fish and Wildlife Service RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

#### \*\*Names of sensitive species hidden

### **Project Upload**

### Upload Maps and Supporting Documents

Users can upload project documents if there is a potential impact

User to have a shorter project review timeline

Agencies would access info from site for review



### **Summary of Enhancements**

#### Administrative functions

Improved ability to make tool changes, upgrades and fixes

#### Conservation Planning

- Clicking conservation info on/off
- Conservation Reports

#### Visual Species Habitat Info

- Public: see conservation information for planning
- Environmental Review: users register see visible species habitat for the review process

#### Updated species polygons:

- Move from the use of mostly Generic species buffers vs Species Habitat-based polygons
- Improved ability to see areas of potential habitat conflict/impact

#### Project Submission

Submit to agencies via tool

### **Next Steps**



- Obtain feedback from users
- November 2015: Roll out
- Trainings for users throughout 2015-2016