



## CHAPTER 105 WATER OBSTRUCTIONS AND ENCROACHMENT GENERAL PERMIT REGISTRATION

### PLEASE MARK ("X") ALL THAT APPLY:

- ☐ GP-1 Fish Habitat Enhancement Structures  
☐ GP-2 Small Docks & Boat Launching Ramps

### Please mark ("X") the specific type of project:

- ☐ private recreational dock  
☐ public access facility  
☐ public service facility  
☐ other private or commercial facility  
☐ GP-3 Bank Rehabilitation, Bank Protection and Gravel Bar Removal  
☐ GP-4 Intake and Outfall Structures

- ☒ GP-5 Utility Line Stream Crossing  
☐ GP-6 Agricultural Crossings & Ramps  
☐ GP-7 Minor Road Crossings  
☐ GP-8 Temporary Road Crossings  
☐ GP-9 Agricultural Activities  
☐ GP-10 Abandoned Mine Reclamation  
☐ GP-11 Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments (reviewed by DEP Regional Office only)  
☐ GP-15 Private Residential Construction in Wetlands

☐ Activity Related to Oil and Gas Exploration, Production or Transmission

☐ Activity Subject to FERC approval (Docket number \_\_\_\_\_)

☐ FERC Natural Gas Act Facility

### SECTION A. APPLICANT INFORMATION

<b>Applicant's Name / Client</b> Reading Area Water Authority				<b>DEP Client ID# (if known)</b>		<b>Employer ID# (EIN)</b>	
<b>Client Information</b> - Please select Client Type / Code from drop down box under the correct entity shown to the right. (or may be written in) →				<b>Government</b>		<b>Non-Government</b>	
				AUTH Author		Individual	
<b>Mailing Address</b> 1801 Kutztown Rd				<b>City</b> Reading		<b>State</b> PA	
				<b>ZIP + 4</b> 19604			
<b>Contact Person – Last Name</b> Murray				<b>First</b> William		<b>MI</b> MI	
				<b>Suffix</b>			
				<b>Telephone</b> (610) 406-6300		<b>Email Address</b> Bill.Murray@readingpa.gov	

### SECTION B. CONSULTANT INFORMATION (Complete if different than above) ☐ N/A

<b>Contact Person – Last Name</b> Skinner				<b>First</b> Jeffrey		<b>MI</b> E	
				<b>Suffix</b>			
<b>Mailing Address</b> 920 Germantown Pike, Suite 200				<b>City</b> Plymouth Meeting		<b>State</b> PA	
				<b>ZIP + 4</b> 19462			
<b>Telephone</b> (610) 313-3100				<b>Fax</b> (610) 313-3151		<b>Email</b> jeffrey.skinner@atcassociates.com	
						<b>Employer ID# (EIN)</b>	

### SECTION C. PROJECT INFORMATION

<b>Project /Site Name:</b> RAWA/Birdsboro Power, LLC - Water Main - Stream Crossing 3				<b>DEP Site ID# (if known or leave blank)</b>			
<b>Client Relationship</b> - Please select Site-to-Client Relationship / Code from drop down box to the right. (or may be written in) →				Double-click on shaded area below to select correct Site-to-Client Relationship / Code ↓			
<b>County</b> Berks		<b>Municipality</b> Robeson		<input type="checkbox"/> City <input type="checkbox"/> Borough <input checked="" type="checkbox"/> Township		<b>OTHER Other (Explain)</b>	
<b>Site Location / Address</b> West Main Street				<b>City</b> Birdsboro		<b>State</b> PA	
				<b>ZIP + 4</b> 19508			
<b>Collection Method:</b> <input type="checkbox"/> EMAP <input type="checkbox"/> HGIS <input type="checkbox"/> GISDR* <input type="checkbox"/> ITPMP <input checked="" type="checkbox"/> GPS <input type="checkbox"/> WAAS <input type="checkbox"/> LORAN							
Check the horizontal reference datum (or projection datum) employed in the collection method. EMAP and HGIS (PNDI) have known datum and do not require checking here. <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> WGS84 (GEO84)							
Enter the date of collection if coordinates were derived from GPS, WAAS or LORAN. 03 mm 24 dd 2013 yyyy							

Applicant's Name Reading Area Water Authority		GENERAL PERMIT REGISTRATION	
SECTION D. RESOURCE IDENTIFICATION			
<p>Please place an "X" in the appropriate box to indicate if the applicant has identified that any of these resources may be present at the project site; indicate that no resources were identified or indicate and list those resources which were identified.</p> <p>Each General Permit (GP) has a specific set of restrictions and some resources may require certain actions or prohibit the project from being eligible to register use of the GP.</p> <p><b>No resources</b> identified as being present at the project site ..... <input checked="" type="checkbox"/> <b>Applicant Entry</b> <input type="checkbox"/> <b>DEP Use Only</b></p> <p>Resources identified as being present at the project site:</p> <p>- ..... <input type="checkbox"/> <input type="checkbox"/></p> <p>- ..... <input type="checkbox"/> <input type="checkbox"/></p> <p>- ..... <input type="checkbox"/> <input type="checkbox"/></p>			
SECTION E. REGISTRATION CHECK LIST AND REQUIREMENTS			
<p>Please place an "X" next to each item (1 - 16) to ensure it is completed and/or provided. Unless otherwise specified, all items are <b>required</b> to ensure a complete Registration package.</p> <p><b>**Provide ONE (1) ORIGINAL and ONE (1) COPY of the Registration package**</b></p>		<b>Applicant Entry</b>	<b>DEP Use Only</b>
1. General Permit Registration form properly completed and signed:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
- I have read the terms and conditions of the GP(s) indicated above.....		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Permit Fee:			
- General Permit Registration Fee .....		<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Chapter 105 Fee Calculation Worksheet.....		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Notification sent to the Municipality & County: (copy of <b>General Permit Registration form</b> )		<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. <b>PASPGP-5 Reporting Criteria Checklist</b> properly completed:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. <b>Location Map</b> (USGS quad map) with project site marked:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. <b>Color Photographs</b> with dates and descriptions: (see instructions) <input type="checkbox"/> N/A		<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. <b>Stream Name and Chapter 93 Classification:</b> (example: UNT to #40637 HOUSE RUN, HQ-WWF/EV)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
UNT to the Schuylkill, WWF, MF			
8. <b>Project Description:</b>			
- Project Description including PNDI avoidance measures (if applicable) .....		<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Aquatic Resource Impacts Table .....		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. <b>Site Specific and/or Standard Drawings</b> depicting the project's GP activities.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. <b>Site Plan</b> depicting the site of the project's GP activities. (see Section F.)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. <b>Erosion &amp; Sediment Control Plan (E&amp;S Plan)</b> (required for GP-11 only - see instructions)		<input type="checkbox"/>	<input type="checkbox"/>
12. <b>Written Directions to Project Site:</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
- See Attached .....		<input type="checkbox"/>	<input type="checkbox"/>
- .....		<input type="checkbox"/>	<input type="checkbox"/>
- .....		<input type="checkbox"/>	<input type="checkbox"/>
13. <b>Pennsylvania Natural Diversity Inventory (PNDI):</b>			
<b>Please place an "X" next to the appropriate box indicating the information provided:</b>			
Signed PNDI Receipt showing:			
- "No Known Impacts" .....		<input type="checkbox"/>	<input type="checkbox"/>
- "Avoidance Measures" which have ALSO been incorporated into the project description.....		<input type="checkbox"/>	<input type="checkbox"/>
- "Potential Impacts" AND proof of delivery to the appropriate agency(ies) where further coordination is required.....		<input checked="" type="checkbox"/>	<input type="checkbox"/>



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<b>Applicant's Name</b> Reading Area Water Authority	<b>GENERAL PERMIT REGISTRATION</b>	
<b>SECTION H. CERTIFICATION</b>		
<p>I certify under penalty of law that the information provided in this permit registration is true and correct to the best of my knowledge and information and that I possess the authority to undertake the proposed action. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (If any of the information and/or plans is found to be in error, falsified, and/or incomplete, this authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.)</p>		
<p>_____ Signature of Applicant/Owner</p> <p>William Murray _____ Typed / Printed Name</p> <p>Executive Director _____ Typed / Printed Title</p>		<p style="text-align: right;">12/11/17 _____ Date</p>
<b>PA Fish and Boat Commission Approval</b> (for GP-1 only)		
<p>_____ Signature of Reviewer</p> <p>_____ Reviewer's Typed / Printed Name</p> <p>_____ Reviewer's Typed / Printed Title</p>		<p>_____ Date</p> <p>( ) _____ Phone Number</p> <p>_____ Email Address</p>
<p><i>This General Permit shall not be effective until the owner has had their E&amp;S Plan reviewed by the appropriate Regional Office or District, obtained Federal Authorization and, where required, obtained an SLLA from DEP.</i></p> <p style="text-align: center;"><b>AN ACKNOWLEDGED COPY OF THIS GENERAL PERMIT REGISTRATION PACKAGE (INCLUDING THE ACKNOWLEDGEMENT LETTER AND TERMS AND CONDITIONS), REQUIRED FEDERAL AUTHORIZATION, AND THE E&amp;S PLAN MUST BE AVAILABLE AT THE PROJECT SITE DURING CONSTRUCTION.</b></p>		
<b>SECTION I. ACKNOWLEDGEMENT – DEP USE ONLY</b>		
<b>Signatures authorizing acknowledgment to use and register:</b>		
<b>A. Completeness Review:</b>		
<p>_____ DEP / District Reviewer Signature</p> <p>_____ Reviewer's Typed / Printed Name</p>	<p>Begin Date: _____</p> <p>Incomplete Date: _____</p> <p>Response Date: _____</p> <p>End Date: _____</p>	<p><b>Completeness Status</b></p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>
<b>B. Eligibility Review:</b>		
<p>_____ DEP / District Reviewer Signature</p> <p>_____ Reviewer's Typed / Printed Name</p>	<p>Begin Date: _____</p> <p>Incomplete Date: _____</p> <p>Response Date: _____</p> <p>End Date: _____</p>	<p><input type="checkbox"/> Deficient - <b>DENIED</b></p>
<b>C. Decision Review:</b>		
<p>_____ DEP / District Manager Signature</p> <p>_____ Reviewer's Typed / Printed Name</p>	<p>Begin Date: _____</p> <p>End Date: _____</p>	<p><b>Disposition Status</b></p> <p><input type="checkbox"/> WITHDRAWN <input type="checkbox"/> APPROVED</p> <p><input type="checkbox"/> RETURNED <input type="checkbox"/> DENIED</p>
<b>D. Contact Information:</b>		
<p>_____ Typed / Printed Name</p>	<p>( ) _____ Phone Number</p>	<p>_____ Email Address</p>
<b>E. Permit Tracking:</b>		
<p>Received _____ Acknowledged _____ SLLA required: <input type="checkbox"/> NO <input type="checkbox"/> YES PASPGP-5: <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> REP <input type="checkbox"/> NONREP</p>		
<p>GP - _____ GP - _____ GP - _____ GP - _____ GP - _____</p>		
<p>Notes: _____</p>		



Applicant's Name / Client: Reading Area Water Authority

Project / Site Name:

[illegible]



DEP USE ONLY

- ☐ Non-Reporting  
☐ Reporting

### PASPGP-5 REPORTING CRITERIA CHECKLIST

The following questionnaire must be completed (instructions on pages 1-6) and submitted as part of all DEP Chapter 105 applications / registrations to determine the appropriate Federal Pennsylvania State Programmatic General Permit-5 (PASPGP-5) review procedure. **Incomplete submissions, including lack of certification signature, will be returned.**

Applicant / Project Name: RAWA - Birdsboro Power LLC Water Main - Crossing #3

County(s): Berks

#### SECTION A: ELIGIBILITY DETERMINATION

- YES ☐ NO ☒ 1. Does the proposed work associated with the Single and Complete Project temporarily and/or permanently impact greater than 1.0 acre of waters and/or wetlands, and/or result in the loss of greater than 1,000 linear feet of stream channel(s)?
- YES ☐ NO ☒ 2. Is any of the proposed work located waterward of the ordinary high water mark (OHWM) of any of the ineligible waterbodies identified in the instructions?
- YES ☐ NO ☒ 3. Has any portion of the proposed work been denied a DEP Chapter 105 Permit, a State Water Quality Certification as required under Section 401 of the Clean Water Act, or a Coastal Zone Consistency Determination?
- YES ☐ NO ☒ 4. Does the proposed work result in the diversion of more than 10,000 gallons per day of surface water or groundwater into or out of the Great Lakes Basin (Lake Erie Watershed)?

\*\*\*\*\*

#### SECTION B: REPORTING ACTIVITY DETERMINATION

- YES ☐ NO ☒ 1. Does the proposed work associated with a Single and Complete Project, including any attendant features, permanently and/or temporarily impact greater than 0.5 acre of waters of the United States, including jurisdictional wetlands?
- YES ☐ NO ☒ 2a. Does the application/registration include any proposed Single and Complete Projects permanently impacting greater than 250 linear feet of streams, rivers, or other watercourses (excluding wetlands)?
- YES ☐ NO ☒ 2b. Is the Single and Complete Project for stream bank stabilization, rehabilitation, protection and/or enhancement and propose impacts of greater than 500 linear feet of stream channel(s)?
- YES ☐ NO ☒ 2c. Does the Single and Complete Project qualify for DEP GP-1 for Fish and Enhancement Structures?
- YES ☐ NO ☒ 2d. Is the project covered by a programmatic State Water Quality Certification issued by DEP - that is conditioned upon receiving approval by- the Environmental Review Committee?
- YES ☐ NO ☒ 3. Does the application/registration include any Single and Complete Projects that propose the permanent conversion of greater than 0.10 acre of forested and/or shrub-scrub wetlands in association with a regulated activity?
- YES ☐ NO ☒ 4. If the application/registration is for a utility line, do any of the single and complete projects in waters of the United States, including jurisdictional wetlands, exceed 500 linear feet (excluding overhead lines)?
- YES ☐ NO ☒ 5. Is this application/registration to place a buried utility line in waters and/or wetlands in a manner that the utility line will run parallel to or along a stream bed?



## SECTION B: REPORTING ACTIVITY DETERMINATION (CONT)

- YES ☐ NO ☒ 6. Is the application/registration associated with a Single and Complete Project whereby a previous Department of the Army authorization has been issued through an Individual Permit, a Nationwide Permit, or a PASPGP processed by the Corps as a Category III/Reporting Activity? **If YES, please complete the following table.**

Authorization Type	Authorization Number	Date (mm/dd/yyyy)	Federal Permitted Impacts	
			Wetlands	Waters

- YES ☐ NO ☒ 7a. Is the proposed project located in waterways occupied by Federally listed, proposed, or candidate mussels or fish, or in waters of the United States within 300 feet of these listed waterways? *See instructions for list of waterways.*
- YES ☐ NO ☐ 7b. If 7a is yes, have you received documented clearance from the USFWS, or a Section 7 of the Endangered Species Act (ESA) "no effect" determination from the Corps? Documented clearance from the USFWS could include PNDI language stating "NO KNOWN IMPACT"; or, if in a USFWS letter the language must indicate "no effect" or "the project or activity will not affect Federally listed species."
- YES ☐ NO ☒ 8a. Does the project propose impacts to Federally regulated wetlands in a county that requires bog turtle screening procedures? *See instructions for list of counties.*
- YES ☐ NO ☐ 8b. If 8a is YES, have you received documented clearance from the USFWS, or a Section 7 ESA "no effects" determination from the Corps? Documented clearance from the USFWS could include PNDI language stating "NO KNOWN IMPACT"; or, if in a USFWS letter the language must indicate "no effect" or "the project or activity will not affect Federally listed species."
- YES ☒ NO ☐ 9a. Does the completed Pennsylvania Natural Diversity Inventory (PNDI) search receipt identify a potential conflict(s) for a Federally listed species?
- YES ☒ NO ☐ 9b. If YES for 9a, have you received additional documented Section 7 ESA clearance, or do you agree, through signing of the PNDI receipt, to comply with all avoidance measures identified on the PNDI receipt associated with Federally listed species for the proposed work?
- YES ☐ NO ☒ 10. Is the proposed work associated with maintenance dredging of a reservoir's design storage capacity, including the removal of accumulated sediments? This corresponds to activities authorized pursuant to Section 7 of the Dam Safety and Encroachments Act (DSEA), 32 P.S. § 693.1, et seq., and the rules and regulations promulgated there under in the PA Bulletin (codified at 25 PA. Code, Chapter 105, § 105.131(c)).
- YES ☐ NO ☒ 11a. If the DEP Chapter 105 application/registration requires submittal of a Cultural Resources Notification Form as part of the application/registration, have you included the response letter from the State Historic Preservation Officer (SHPO), i.e., Pennsylvania Historic and Museum Commission (PHMC) with your application/registration?
- YES ☐ NO ☒ 11b. Has the PHMC determined that archaeological or other cultural resources are believed to exist within the permit area?
- YES ☐ NO ☒ 11c. If yes for 11b, have you received follow-up documented clearance from PHMC, or a Section 106 "no effect" determination from the Corps?
- YES ☐ NO ☒ 12a. Does the proposed work occur in a component of the National Wild and Scenic River System or in a river officially designated by Congress as a "Study River" for possible inclusion in the System? *See instructions for listing.*
- YES ☐ NO ☒ 12b. If yes for 12a, have you received a written determination from the Federal agency with direct management responsibility for such river that the proposed activity will not adversely affect any Wild and Scenic River including study rivers?
- YES ☐ NO ☒ 13. Does the proposed project require the preparation of an Environmental Impact Statement?
- YES ☐ NO ☒ 14. Does the proposed regulated activity or area of indirect impact (secondary impact) extend across state boundaries (i.e., the work is not wholly located within the Commonwealth of Pennsylvania)?

## SECTION B: REPORTING ACTIVITY DETERMINATION (CONT)

- YES ☐ NO ☒ 15. Is the proposed work authorized pursuant to DEP Chapter 105 permits in conjunction with coal and non-coal mining permits issued by the DEP District Mining Offices (Bureau of Mining and Reclamation), including activities authorized pursuant to Chapter 105 Waiver 4 [25 Pa. Code §105.12(a)(4)] and GP-101 and GP-102]?
- YES ☐ NO ☒ 16. Is the proposed work associated with the construction of a Mitigation Bank or In Lieu Fee site developed to meet the requirements of the Corps and EPA April 10, 2008 Compensatory Mitigation for Losses of Aquatic Resources: Final Rule?
- YES ☐ NO ☒ 17. Will the proposed work alter, use, build upon, attempt to possess, or that may harm or impair any existing or proposed Corps Civil Works project, and any Corps-owned or managed property?
- YES ☐ NO ☒ 18a. Does the Single and Complete Project involve the construction or expansion of a residential, commercial or institutional subdivision or development?
- YES ☐ NO ☒ 18b. Does greater than 0.25 acre of wetland(s) exist within the property boundary that are not proposed to be directly impacted as part of this application/registration? **If YES, provide wetland acreage: \_\_\_\_\_ acres.**
- YES ☐ NO ☒ 18c. Are you proposing to protect the wetland area(s) through a deed restriction or conservation easement that follows the Corps' Model Protective Covenant?
- YES ☐ NO ☒ 19. Does the proposed work temporarily impact waters and/or wetlands that will remain in place for more than 1 year?
- YES ☐ NO ☒ 20. Do you have any other pending applications/registrations with the DEP or Corps that are necessary for this total proposed project to function and meet its intended purpose? **If YES, provide following information.**

Application / Registration Number / Type	Project Name	Date of Submittal to DEP (mm/dd/yyyy)	DEP / CCD Reviewing Office	Corps Reviewing Office

- YES ☐ NO ☒ 21. Are you proposing to do work in the Delaware River (upstream from the U.S. Route 202 Bridge in New Hope, Pennsylvania.) and/or the Lehigh River (from the mouth to Francis E. Walter Dam, located in Carbon and Luzerne County, Pennsylvania between March 15 and June 30)?
- YES ☐ NO ☒ 22a. Does the proposed work occur in any of the waters listed in the instructions?
- YES ☒ NO ☐ 22b. Will you comply with all of the identified conservation measures?

\*\*\*\*\*



### SECTION C: CERTIFICATION

I certify that the information provided on this form is true and correct to the best of my knowledge and information. If any of the information and/or plans is found to be in error, falsified, and/or incomplete, your Chapter 105/PASPGP-5 authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.

  
\_\_\_\_\_  
Signature of Applicant

12/4/17  
\_\_\_\_\_  
Date

William Murray  
\_\_\_\_\_  
Name Typed or Printed

\*\*\*\*\*

### IMPERVIOUS SURFACE DATA FOR CORPS

- YES ☒ NO ☐ 1a. Is your project located in the Corps of Engineers Philadelphia District (Delaware River Watershed), or in Chester, Lancaster, or York County?
- YES ☐ NO ☒ 1b. Does your project propose impervious surfaces within waters and wetlands? If YES, provide area of impervious surface within the footprint of waters and wetlands: \_\_\_\_\_ square feet
- YES ☐ NO ☒ 1c. Does any part of your project propose the removal of any impervious surfaces? If YES, provide area of impervious surface being removed: \_\_\_\_\_ square feet

### FOR DEP USE ONLY

\_\_\_\_\_  
DEP / District Manager Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name Typed or Printed

\_\_\_\_\_  
Permit Number

## CHAPTER 105 FEE(S) CALCULATION WORKSHEET

Additional information can be found at 25 PA Code §105.13 (relating to regulated activities – information and fees), the General Permit Registration (3150-PM-BWEW0500), the Joint Permit Application (3150-PM-BWEW0036) and the Dam Permit Application (3140-PM-BWEW0001)

**Federal, State, county or municipal agencies or municipal authorities:**

☒ **EXEMPT from fees**

These entities are exempt from these fees. If the applicant falls into one of these categories, please check the box above and provide only the first page of this worksheet with the project application or registration.

### ALL OTHERS:

1. Please place an "X" in the box next to all authorizations that apply to the project and complete the fee information below those authorization(s). Projects may require multiple authorizations and fees, further clarification and examples are included below and at the end of this document.
2. Total each authorization, Section, and Part. Part One is for Water Obstructions and Encroachment authorizations, Part Two is for Dam Safety authorizations.
3. Please provide this completed worksheet (page 1 and page 2 and/or page 3, as is appropriate to the project) and a check for the applicable fee(s) with the project application or registration. The check should be made payable to the "**Commonwealth of Pennsylvania Clean Water Fund**" OR "**\_\_\_\_\_ Conservation District Clean Water Fund**", whichever is the reviewing entity.

### NOTES:

Per 25 PA Code §105.13(c)(2)(iii) Disturbance review fees are calculated by individually adding all of the permanent and temporary impacts to waterways, floodways, floodplains and bodies of water including wetlands to the next highest tenth acre and multiplying the permanent and temporary impacts by the respective fees and then these amounts are added to the other applicable fees.

Entities proposing structures or activities to occupy a Submerged Lands of the Commonwealth must obtain a Submerged Lands License Agreement (SLLA) and pay the appropriate annual charge. The applicant will be contacted if this charge applies to the project.

**Floodway** – The channel of the watercourse and portions of the adjoining floodplains which are reasonably required to carry and discharge the 100-year frequency flood. Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the 100-year frequency floodway, it is assumed, absent evidence to the contrary, that the floodway extends from the stream to 50 feet from the top of the bank of the stream.

### Wetland and Stream Clarification:

<sup>1</sup> In many instances, wetlands are located within the floodplain of a stream. These resources for the purposes of calculating disturbance fees are considered co-located or overlapping and the area of disturbance would only be used once.

<sup>2</sup> In the case of GP-5, GP-7 and GP-8 fees are charged per structure per resource crossing and the following also applies to the disturbance fees:

- A crossing of the stream and the floodplain with wetlands present within the floodplain is considered one resource crossing.
- When the crossing traverses a stream and the floodplain and a wetland that is located outside of the floodplain or a wetland that extends out beyond the floodplain, it is considered two resource crossings.

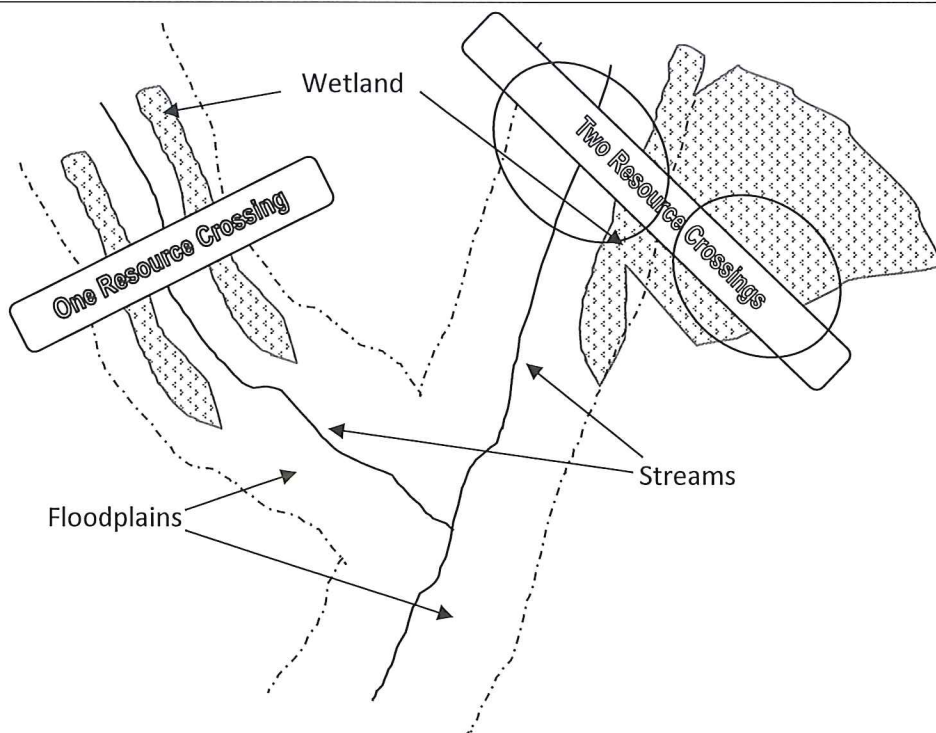






Photo #1: Looking South Where Stream Enters the Culvert (11-25-2016)



Photo #2: Looking Northwest Where Stream Enters Culvert (11-25-2016)





Photo #3: Looking North Where Culvert Discharges (11-25-2016)



Photo #4: Looking Southeast at the Discharge Side of the Culvert (11-25-2016)





Photo #3: Looking Southeast Where Proposed Pipe will Cross (11-25-2016)



Photo #3: Looking Northwest Where Proposed Pipe will Cross (11-25-2016)



## 1. PROJECT INFORMATION

Project Name: **Birdsboro Power LLC PA Route 724 Water Main**

Date of Review: 12/15/2016 03:50:00 PM

Project Category: Water extraction/transfer, Water line construction

Project Area: 19.35 acres

County(s): Berks

Township/Municipality(s): BIRDSBORO; ROBESON

ZIP Code: 19508

Quadrangle Name(s): BIRDSBORO

Watersheds HUC 8: Schuylkill

Watersheds HUC 12: Angelica Creek-Schuylkill River; Hay Creek; Sixpenny Creek-Schuylkill River

Decimal Degrees: 40.266356, -75.819603

Degrees Minutes Seconds: 40° 15' 58.8805" N, 75° 49' 10.5702" W

## 2. SEARCH RESULTS

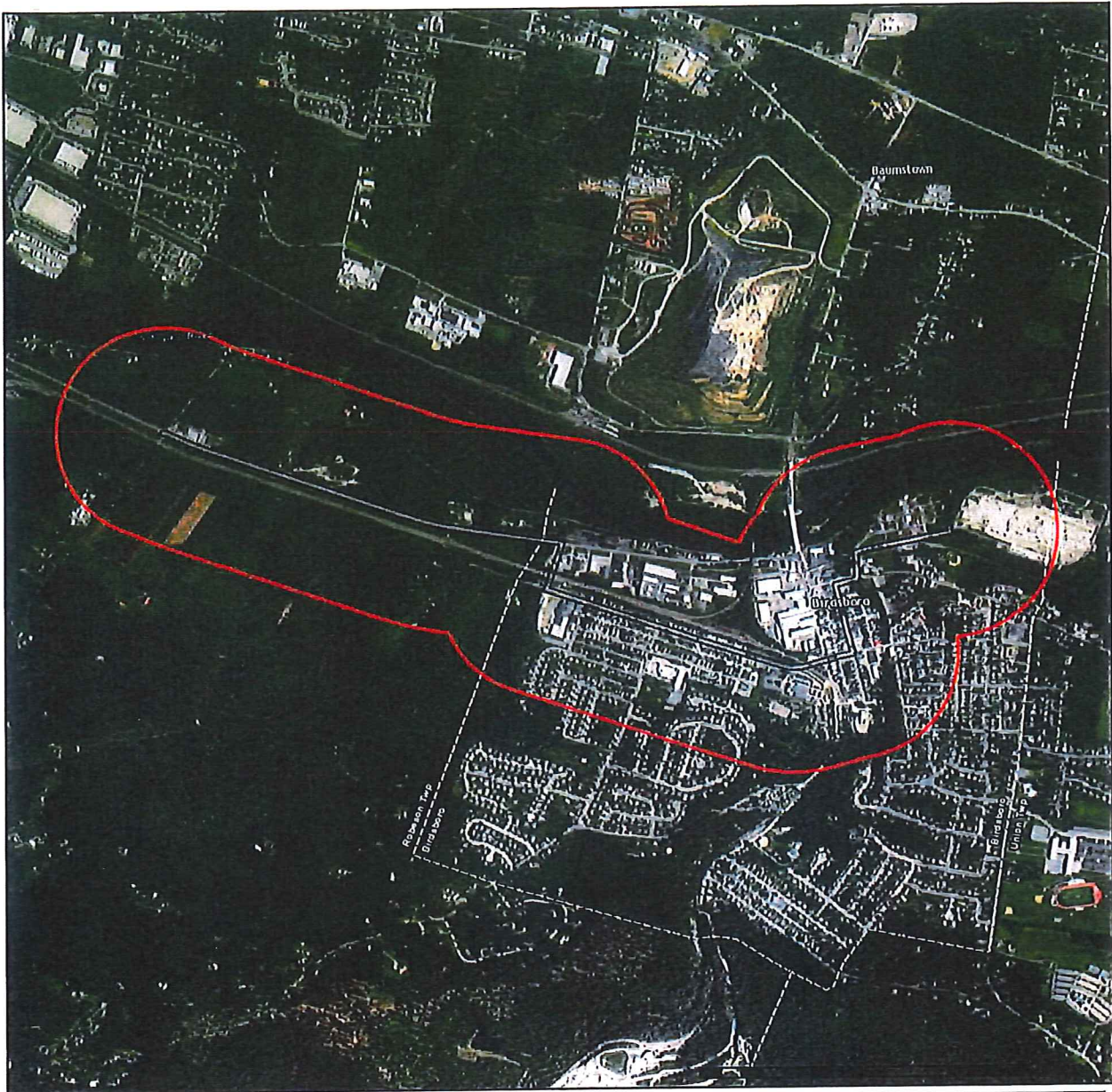
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
U.S.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

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

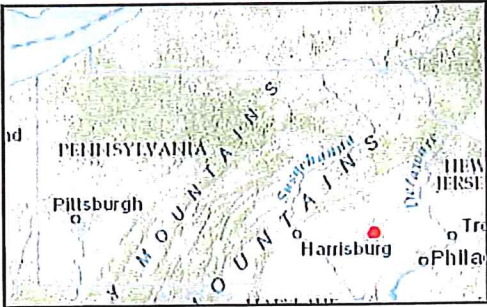


Birdsboro Power LLC PA Route 724 Water Main



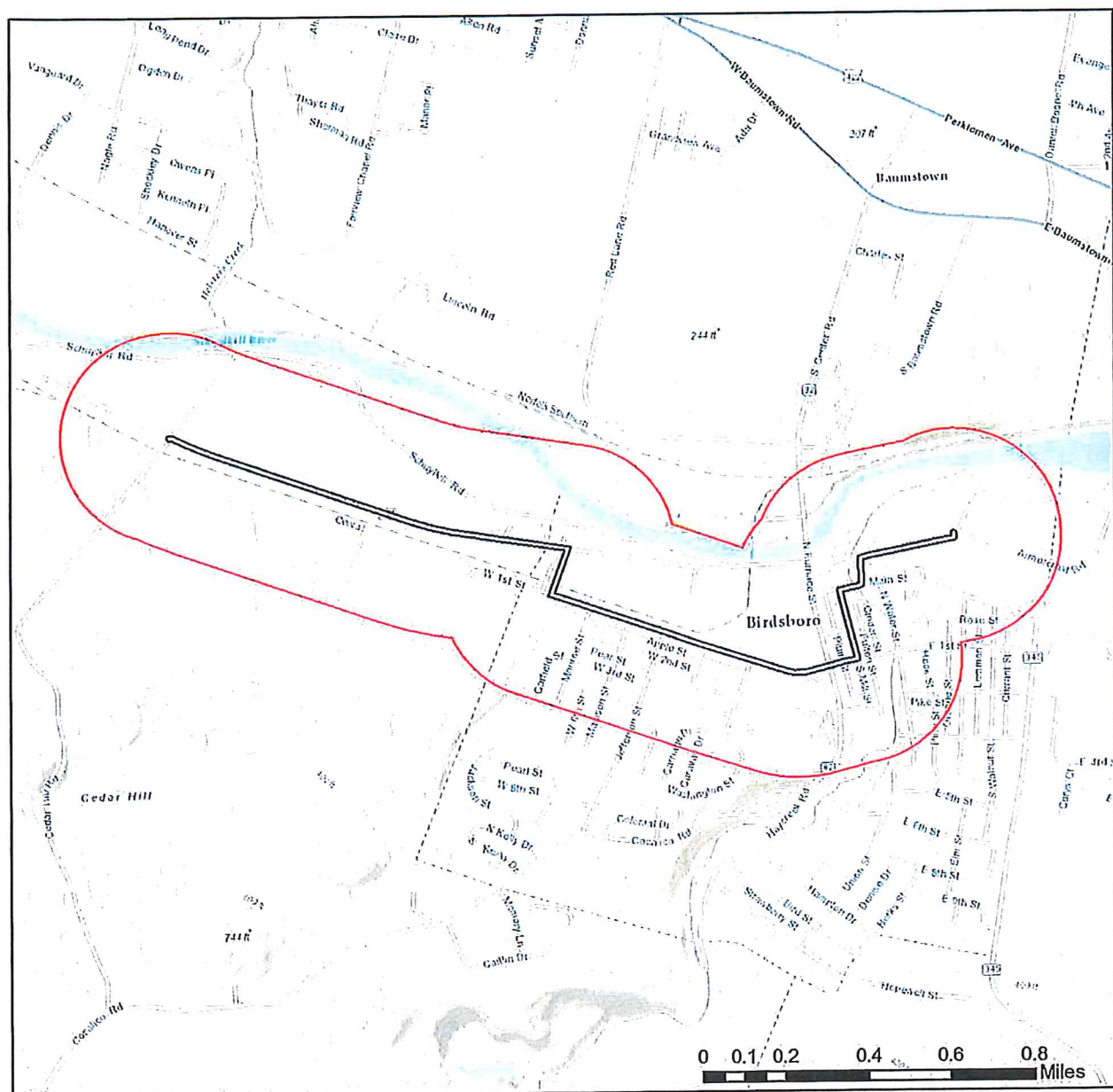
- ☐ Project Boundary
- ☐ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community  
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user





## Birdsboro Power LLC PA Route 724 Water Main



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





## RESPONSE TO QUESTION(S) ASKED

**Q1:** Will this project or any project-related activities require any in-stream work, or a permanent or temporary crossing of a waterway (stream, river, creek, tributary)?

**Your answer is:** Yes

**Q2:** Will the entire project area (including any discharge), plus a 300 feet buffer around the project area, all occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?

**Your answer is:** No

**Q3:** Accurately describe what is known about wetland presence in the project area or on the land parcel. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** Someone qualified to identify and delineate wetlands has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

**Q4:** Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

**Your answer is:** Someone qualified to identify and delineate wetlands has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

**Q5:** Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats?

**Your answer is:** Yes

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.



## PA Game Commission

### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

## PA Department of Conservation and Natural Resources

### 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).

**DCNR Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: [http://www.gis.dcnr.state.pa.us/hgis-er/PNDI\\_DCNR.aspx](http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx).)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
<i>Solidago speciosa</i> var. <i>speciosa</i>	Showy Goldenrod	Special Concern Species*	Threatened	Flowers late August - October

## 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 Pennsylvania Conservation Explorer 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
Sensitive Species**		Threatened

## U.S. Fish and Wildlife Service

### RESPONSE:

Information Request: Conduct a Bog Turtle Habitat (Phase 1) Survey in accordance with USFWS Guidelines for Bog Turtle Surveys (April 2006). Evaluate all wetlands within 300 feet of the project area, which includes all areas that will be impacted by earth disturbance or project features (e.g., roads, structures, utility lines, lawns, detention basins, staging areas, etc.). IF THE PHASE 1 SURVEY IS DONE BY A QUALIFIED BOG TURTLE SURVEYOR (see <https://www.fws.gov/northeast/pafo/endangered/surveys.html>): 1) Send positive results to USFWS for concurrence, along with a project description documenting how impacts will be avoided. OR, conduct a Phase 2 survey and send Phase 1 and 2 results to USFWS for concurrence. 2) Send a courtesy copy of negative results to USFWS (label as "Negative Phase 1 Survey Results by Qualified Bog Turtle Surveyor: USFWS Courtesy Copy"). USFWS approval of negative results is not necessary when a qualified surveyor does the survey in full accordance with USFWS guidelines. IF THE PHASE 1 SURVEY IS NOT DONE BY A QUALIFIED SURVEYOR: Send ALL Phase 1 results to USFWS for concurrence, and if potential habitat is found, also send a project description documenting how impacts will be avoided. As a qualified bog turtle surveyor, I \_\_\_\_\_ (name) certify that I conducted a Phase 1 survey of all wetlands in and within 300 feet of the project area on \_\_\_\_\_ (date) and determined that bog turtle habitat is absent.

\_\_\_\_\_  
(Signature)

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.



## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email\* the following information to the agency(s). Instructions for uploading project materials can be found [here](#). This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies. Alternatively, applicants may email or mail their project materials (see AGENCY CONTACT INFORMATION).

**\*Note:** U.S.Fish and Wildlife Service requires applicants to mail project materials to the USFWS PA field office (see AGENCY CONTACT INFORMATION). USFWS will not accept project materials submitted electronically (by upload or email).

### Check-list of Minimum Materials to be submitted:

\_\_\_\_ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.

\_\_\_\_ A map with the project boundary and/or a basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

**In addition to the materials listed above, USFWS REQUIRES the following**

\_\_\_\_ **SIGNED** copy of a Final Project Environmental Review Receipt

**The inclusion of the following information may expedite the review process.**

\_\_\_\_ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

\_\_\_\_ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

## 6. AGENCY CONTACT INFORMATION

### PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section  
400 Market Street, PO Box 8552  
Harrisburg, PA 17105-8552  
Email: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)  
Fax: (717) 772-0271

**PA Fish and Boat Commission**  
Division of Environmental Services  
450 Robinson Lane, Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### U.S. Fish and Wildlife Service

Pennsylvania Field Office  
Endangered Species Section  
110 Radnor Rd; Suite 101  
State College, PA 16801  
NO Faxes Please

### PA Game Commission

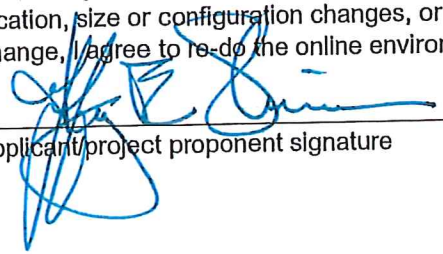
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue, Harrisburg, PA 17110-9797  
Email: [RA-PGC\\_PNDI@pa.gov](mailto:RA-PGC_PNDI@pa.gov)  
NO Faxes Please

## 7. PROJECT CONTACT INFORMATION

Name: JEFFREY E. SKINNER  
Company/Business Name: BCM ENGINEERS  
Address: 920 GERMANTOWN PIKE, SUITE 200  
City, State, Zip: PLYMOUTH MEETING, PA 19462  
Phone: (610) 313-3100 Fax: (610) 313-3151  
Email: jeffrey.skinner@atcassoc.com

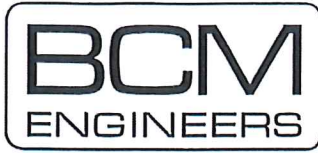
## 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

  
applicant/project proponent signature

12/16/16  
date





ATC GROUP SERVICES LLC

920 Germantown Pike, Suite 200  
Plymouth Meeting, PA 19462  
Telephone 610-313-3100  
Fax 610-313-3151  
[www.atcgroupservices.com](http://www.atcgroupservices.com)

February 14, 2017

VIA EMAIL: [RA-HeritageReview@pa.gov](mailto:RA-HeritageReview@pa.gov)

Pennsylvania Department of Conservation and Natural Resources  
Bureau of Forestry, Ecological Services Section  
400 Market Street, P.O. Box 8552  
Harrisburg, PA 17105-8552

Subject: PNDI-605225  
Potential Impact – Further Review  
Reading Area Water Authority  
Birdsboro Power LLC PA Route 724 Water Main  
BCM #Z057000215

To Whom It May Concern:

Attached is a copy of the PNDI search results for the referenced project. As stated in the results, further review is required by the PA DCNR for the potential impact to the Showy Goldenrod within the project's buffered boundary. Also attached are the projects plans and color photos of the project area and a copy of the No Impact Review from the U.S. Fish and Wildlife Service for Bog Turtle Habitat.

### **Project Background**

Reading Area Water Authority (RAWA) is under agreement to provide 2,500 gallons per minute (GPM) to the Birdsboro Power's proposed facility in Birdsboro Borough, Berks County, Pennsylvania. The water will be used for process and cooling. What water is not evaporated will be discharged directly to the Birdsboro Sewer Authority for treatment. At Birdsboro's request, RAWA will also be providing a possible future interconnection to Birdsboro Borough water distribution system. To do this, RAWA must extend a portion of its existing distribution system along PA Route 724 in Birdsboro, PA.

### **Project Construction**

Recently RAWA expanded its distribution system along PA Route 724 to the intersection with Cedar Hill Road. This was completed to service a development proposed in the area. In order to service the proposed power plant, a 16" water main will be extended easterly from this location, along PA Route 724 (Main Street) to Birdsboro Borough. Once in the Borough, it will follow Jackson Street, First Street, and Mill Street. At Mill Street near Main Street, the pipe will be constructed through private properties to and then along Armorcast Road to the power plant site. This part is approximately 12,500 feet long.

Most of the construction will be within the paved roads. The Route 724 alignment will also include some construction in the grassed shoulder. This portion also has 4 culvert crossings. The depth of the structures allows for the water main to be installed above the culverts.

A drainage ditch along the side of the road has also been identified as a wetlands and Bog Turtle habitat. Every effort will be made to have the construction in this area completed between November and March. Should this be unavoidable, the following standard bog turtle avoidance measures will be used:

- Prior to performing any construction work in wetlands, streams, or uplands within 300 feet of the potential bog turtle habitat, all areas of expected disturbance will be surveyed by a QRBTS for the presence of bog turtles immediately prior to construction;
- Prior to the survey, herbaceous vegetation will be cut to a height of 4 to 6 inches using a hand-held trimmer and carefully raked away by hand from searched areas;
- Immediately following the bog turtle survey, super silt fencing will be installed by and between the wetland and the construction zone, while the bog turtle surveyor will be present to ensure that the fencing will be properly installed in the correct location;
- If bog turtles are located during the bog turtle survey, the USFWS and PFBC will be contacted immediately, and construction will not proceed until further consultation occurs; and
- All fencing will be removed immediately following construction.

The attached clearance was received from the U.S. Fish and Wildlife for Bog Turtle Habitat impact for the project.

As with all the construction associated with this project, all standard precautions and best management practices will be used to contain sediment.

The water main in this part will also cross Hay Creek, an environmentally sensitive stream adjacent to the Birdsboro Municipal Building. The pipe will be placed within a casing pipe that will be installed under the creek and adjoining wetlands by the boring method. The pits needed for this method will be installed away from the creek and wetlands and with best management practices to ensure that sediment does not enter the sensitive ecosystem.



### **Project Impact**

A PNDI Investigation has revealed the potential impact to the Showy Goldenrod within the project's buffered boundary. As previously stated, the construction is almost completely within paved areas. The Hay Creek crossing will be bored so as to not disturb the environmentally sensitive stream. This area was cleared by U.S. Fish and Wildlife in the attached review. The remaining areas of disturbance are mowed lawns and grasses.

For these reasons, it expected that the project will not impact the Showy Goldenrod.

Very truly yours,



Jeffrey E. Skinner, P.E. & P.L.S.  
Project Engineer

JES:sws

Enclosures

Engineering\Projects\RAWA\Emberclear\Permits\PNDI\PA DCNR Rt 724.docx



**pennsylvania**  
DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

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BUREAU OF FORESTRY

December 16, 2016

PNDI Number: PNDI-605225

Jeffrey Skinner  
BCM Engineers  
920 Germantown Pike, Suite 200  
Plymouth Meeting, PA 19462  
Email: [Jeffrey.skinner@atcassociates.com](mailto:Jeffrey.skinner@atcassociates.com) (hard copy not to follow)

Re: Birdsboro Power LLC PA Route 724 Water Main  
Robeson Township, and Borough of Birdsboro, Berks County, PA

Dear Mr. Skinner,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Environmental Review Receipt Number PNDI-605225 for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated**

PNDI records indicate species or resources under DCNR's jurisdiction located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

DCNR recommends the following to help prevent the spread of invasive plant species and to encourage the use of native plants:

- Avoid using seed mixes that include invasive plant species if the project requires re-vegetating the area (<http://www.ernstseed.com/seed-mixes/>). Please also attempt to use weed-free straw or hay mixes when possible. A complete list of all Pennsylvania invasive plant species can be found here: [http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr\\_20026634.pdf](http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr_20026634.pdf).

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Frederick Sechler, Jr., Ecological Information Specialist, by phone (717-705-2819) or via email ([c-frsechle@pa.gov](mailto:c-frsechle@pa.gov)).

Sincerely,

Greg Podnieszinski, Section Chief  
Natural Heritage Section, DCNR Bureau of Forestry

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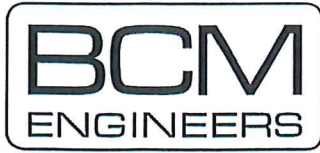
conserve

sustain

enjoy

P.O. Box 8552, Harrisburg, PA 17015-8552 717-787-3444 (fax) 717-772-0271





ATC GROUP SERVICES LLC

920 Germantown Pike, Suite 200  
Plymouth Meeting, PA 19462  
Telephone 610-313-3100  
Fax 610-313-3151  
www.atcgroupservices.com

February 14, 2017

VIA EMAIL: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

Pennsylvania Fish and Boat Commission  
Division of Environmental Services  
450 Robinson Lane  
Bellefonte, PA 16823

Subject: PNDI-605225  
Potential Impact – Further Review  
Reading Area Water Authority  
Birdsboro Power LLC PA Route 724 Water Main  
BCM #Z057000215

To Whom It May Concern:

Attached is a copy of the PNDI search results for the referenced project. As stated in the results, further review is required by the PA Fish and Boat Commission for the potential impact to a Sensitive Species within the project's buffered boundary. Also attached are the projects plans and color photos of the project area and a copy of the No Impact Review from the U.S. Fish and Wildlife Service for Bog Turtle Habitat.

### **Project Background**

Reading Area Water Authority (RAWA) is under agreement to provide 2,500 gallons per minute (GPM) to the Birdsboro Power's proposed facility in Birdsboro Borough, Berks County, Pennsylvania. The water will be used for process and cooling. What water is not evaporated will be discharged directly to the Birdsboro Sewer Authority for treatment. At Birdsboro's request, RAWA will also be providing a possible future interconnection to Birdsboro Borough water distribution system. To do this, RAWA must extend a portion of its existing distribution system along PA Route 724 in Birdsboro, PA.

### **Project Construction**

Recently RAWA expanded its distribution system along PA Route 724 to the intersection with Cedar Hill Road. This was completed to service a development proposed in the area. In order to service the proposed power plant, a 16" water main will be extended easterly from this location, along PA Route 724 (Main Street) to Birdsboro Borough. Once in the Borough, it will follow Jackson Street, First Street, and Mill Street. At Mill Street near Main Street, the pipe will be constructed through private properties to and then along Armorcast Road to the power plant site. This part is approximately 12,500 feet long.

Most of the construction will be within the paved roads. The Route 724 alignment will also include some construction in the grassed shoulder. This portion also has 4 culvert crossings. The depth of the structures allows for the water main to be installed above the culverts.

A drainage ditch along the side of the road has also been identified as a wetlands and Bog Turtle habitat. Every effort will be made to have the construction in this area completed between November and March. Should this be unavoidable, the following standard bog turtle avoidance measures will be used:

- Prior to performing any construction work in wetlands, streams, or uplands within 300 feet of the potential bog turtle habitat, all areas of expected disturbance will be surveyed by a QRBTS for the presence of bog turtles immediately prior to construction;
- Prior to the survey, herbaceous vegetation will be cut to a height of 4 to 6 inches using a hand-held trimmer and carefully raked away by hand from searched areas;
- Immediately following the bog turtle survey, super silt fencing will be installed by and between the wetland and the construction zone, while the bog turtle surveyor will be present to ensure that the fencing will be properly installed in the correct location;
- If bog turtles are located during the bog turtle survey, the USFWS and PFBC will be contacted immediately, and construction will not proceed until further consultation occurs; and
- All fencing will be removed immediately following construction.

The attached clearance was received from the U.S. Fish and Wildlife for Bog Turtle Habitat impact for the project.

As with all the construction associated with this project, all standard precautions and best management practices will be used to contain sediment.

The water main in this part will also cross Hay Creek, an environmentally sensitive stream adjacent to the Birdsboro Municipal Building. The pipe will be placed within a casing pipe that will be installed under the creek and adjoining wetlands by the boring method. The pits needed for this method will be installed away from the creek and wetlands and with best management practices to ensure that sediment does not enter the sensitive ecosystem.



### **Project Impact**

A PNDI Investigation has revealed the potential impact to a Sensitive Species within the project's buffered boundary. As previously stated, the construction is almost completely within paved areas. The Hay Creek crossing will be bored so as to not disturb the environmentally sensitive stream. This area was cleared by U.S. Fish and Wildlife in the attached review.

For these reasons, it expected that the project will not impact any sensitive species.

Very truly yours,



Jeffrey E. Skinner, P.E. & P.L.S.  
Project Engineer

JES:sws

Enclosures

Engineering\Projects\RAWA\Emberclear\Permits\PNDI\PA Fish and Boat Commision Rt 724.docx



## Pennsylvania Fish & Boat Commission

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Division of Environmental Services  
Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16823  
814-359-5237

March 20, 2017

**IN REPLY REFER TO**  
SIR# 47043

BCM Engineers  
Jeffrey Skinner  
920 Germantown Pike  
Plymouth Meeting, Pennsylvania 19462

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species**  
**PNDI Search No. 605225\_1**  
**Birdsboro Power LLC PA Route 724 Water Main**  
**BERKS County: Birdsboro Borough, Robeson Township**

Dear Jeffrey Skinner:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

### Our Mission:

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*



**If you have any questions regarding this review, please contact Robert Morgan at 814-359-5129 and refer to the SIR # 47043.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink, reading "Christopher A. Urban". The signature is written in a cursive, flowing style.

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/RTM/dn



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Pennsylvania Field Office  
110 Radnor Road, Suite 101  
State College, Pennsylvania 16801-4850

December 8, 2016

Cheryl Matasovsky  
A.D. Marble  
2200 Renaissance Bld., Suite 260  
King of Prussia, PA 19406

RE: USFWS Project #2017-0178  
PNDI Receipt #605220

**RECEIVED**  
DEC 12 2016

BY: .....

Dear Ms. Matasovsky:

Thank you for your letter dated November 2016, which provided the Fish and Wildlife Service (Service) with additional information regarding the proposed Eberclear S.R. 0010 and S.R. 0724 water main installation project located in the City of Reading, Borough of Birdsboro, and Robeson Township, Berks County, Pennsylvania. The following comments are provided pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) to ensure the protection of endangered and threatened species.

This project is in the range of the bog turtle (*Clemmys muhlenbergii*), a species that is federally listed as threatened. Bog turtles inhabit shallow, spring-fed fens, sphagnum bogs, swamps, marshy meadows, and pastures characterized by soft, muddy bottoms; clear, cool, slow-flowing water, often forming a network of rivulets; high humidity; and an open canopy. Bog turtles usually occur in small, discrete populations occupying suitable wetland habitat dispersed along a watershed. The occupied intermediate successional stage wetland habitat is usually a mosaic of micro-habitats ranging from dry pockets, to areas that are saturated with water, to areas that are periodically flooded. Some wetlands occupied by bog turtles are located in agricultural areas and are subject to grazing by livestock.

To determine the potential effects of the proposed project on bog turtles and their habitat, you, a recognized qualified bog turtle surveyor, conducted a Phase 1 bog turtle habitat assessment on July 19 and 20, 2016. According to the report, nine wetlands were identified within 300 feet of the proposed limit of disturbance. Following the methods described under "Bog Turtle Habitat Survey" (Phase 1 survey) of the *Guidelines for Bog Turtle Surveys* (revised April 2006), you determined that two wetlands (W5 and WA) met the criteria of soils, vegetation, and hydrology typical of habitat occupied by bog turtles. However, after review of the submitted information, although the criteria may have been met, we do not concur that the wetlands are likely to be



inhabited by bog turtles. Our conclusions are based on Wetland 5 being in an area of high disturbance and Wetland A only being able to be probed to a depth of 3 inches of muck.

Based on our review, we conclude that suitable bog turtle habitat within the surveyed area is not present; therefore, no adverse effects to the species are anticipated. This determination is valid for two years from the date of this letter. If the proposed project has not been fully implemented prior to this, an additional review by this office is recommended. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

If the Phase 1 habitat assessment did not include all wetlands in all areas that will be directly or indirectly affected by the proposed project and project-associated features (e.g., roads, water and sewer lines, utility lines, stormwater and sedimentation basins, buildings and other structures, driveways, parking lots, yards/lawns, wells), expand the scope of the Phase 1 survey to include these areas. If any wetlands are located, submit the results of the expanded wetland and Phase 1 investigation to our office for review so that we can confirm whether the above determination is still valid.

This response relates only to endangered and threatened species under our jurisdiction, based on an office review of the proposed project's location. No field inspection of the project area has been conducted by this office. Consequently, this letter is not to be construed as addressing potential Service concerns under the Fish and Wildlife Coordination Act or other authorities.

*To avoid potential delays in reviewing your project, please use the above-referenced USFWS project tracking number in any future correspondence regarding this project.*

Please contact Bonnie Dershem of this office at (814) 234-4090 if you have any questions or require further assistance regarding this matter.

Sincerely,



Lora Z. Lattanzi  
Field Office Supervisor



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Pennsylvania Field Office  
110 Radnor Road, Suite 101  
State College, Pennsylvania 16801-4850

December 5, 2017

Cheryl Matasovsky  
A.D. Marble  
2200 Renaissance Bld., Suite 260  
King of Prussia, PA 19406

RE: USFWS Project #2017-0178  
PNDI Receipt #605220, 605225, 612090

Dear Ms. Matasovsky:

Thank you for your letter dated November 17, 2017, which provided the Fish and Wildlife Service (Service) with additional information regarding the proposed Emberclear S.R. 0010 and S.R. 0724 water main installation project located in the City of Reading, Borough of Birdsboro, and Robeson Township, Berks County, Pennsylvania. The following comments are provided pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) to ensure the protection of endangered and threatened species.

This project is in the range of the bog turtle (*Clemmys muhlenbergii*), a species that is federally listed as threatened. Bog turtles inhabit shallow, spring-fed fens, sphagnum bogs, swamps, marshy meadows, and pastures characterized by soft, muddy bottoms; clear, cool, slow-flowing water, often forming a network of rivulets; high humidity; and an open canopy. Bog turtles usually occur in small, discrete populations occupying suitable wetland habitat dispersed along a watershed. The occupied intermediate successional stage wetland habitat is usually a mosaic of micro-habitats ranging from dry pockets, to areas that are saturated with water, to areas that are periodically flooded. Some wetlands occupied by bog turtles are located in agricultural areas and are subject to grazing by livestock.

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inhabited by bog turtles. Our conclusions are based on Wetland 5 being in an area of high disturbance and Wetland A only being able to be probed to a depth of 3 inches of muck.

Based on our review, we conclude that suitable bog turtle habitat within the surveyed area is not present; therefore, no adverse effects to the species are anticipated. This determination is valid for two years from the date of this letter. If the proposed project has not been fully implemented prior to this, an additional review by this office is recommended. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

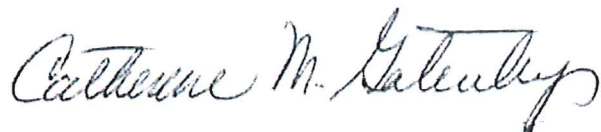
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*To avoid potential delays in reviewing your project, please use the above-referenced USFWS project tracking number in any future correspondence regarding this project.*

Please contact Bonnie Dershem of this office at (814) 234-4090 if you have any questions or require further assistance regarding this matter.

Sincerely,

A handwritten signature in cursive script, reading "Catherine M. Gatenby". The ink is dark and the signature is fluid, with a large, stylized 'C' at the beginning and a long, sweeping tail at the end.

Catherine M. Gatenby, Ph.D.  
Acting Field Office Supervisor