

To: Tiffani Doer  
Evergreen Resources Management  
Operations  
2 Righter Parkway, Suite 120,  
Wilmington, DE 19083

From: Jenny Kachel  
1060 Andrew Drive, Suite 140  
West Chester, PA

Project/File: 213403364      Date: December 21, 2021

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**Reference: Updated Pennsylvania Natural Diversity Inventory Search, Area of Interest 9, Former Philadelphia Refinery**

As part of the sitewide ecological assessment activities, Stantec Consulting Services Inc (Stantec) completed Pennsylvania Natural Diversity Inventory Searches (PNDI) for Area of Interest (AOI) 9 (and other AOIs) in 2018 and again in 2021. This memo provides a brief summary of each PNDI search and includes the search results as attachments. The final 2021 survey results and associated agency letters along with results of any individual species site surveys will be included in the Sitewide Ecological Risk Assessment (ERA) to be submitted in June 2022 as per the June 2020 First Amendment to Consent Order and Agreement.

The 2021 draft PNDI (**Attachment A**) is very similar to the previous PNDI from 2018 (**Attachment B**) that Stantec used as a basis for the ecological assessment work performed 2018 through 2019. Fewer total species have been identified in the PNDI in 2021.

**Pennsylvania Game Commission**

- Species are identical on both versions:
  - Marsh Wren
  - Least Bittern
- Species were included in the previous ERA work.

**Pennsylvania Department of Conservation and Natural Resources (PA DCNR)**

- Species are identical on both versions:
  - Waterhemp Ragweed
- Species were included in the previous ERA work that included a field botanical survey.

**US Fish and Wildlife**

- Did not identify any species of concern in 2018 or 2021

**Pennsylvania Fish and Boat Commission (PFBC)**

- In recent years, PFBC has not been identifying by name many species of concern on PNDIs. 2021 was no exception; however, there were some differences between the 2018 and 2021 lists:

**Reference:** Updated Pennsylvania Natural Diversity Inventory Search, Area of Interest 9, Former Philadelphia Refinery

<b>2018</b>	<b>2021</b>
3 unnamed endangered species	4 unnamed endangered species
1 named endangered species - Hickory Shad	1 unnamed threatened species
1 unnamed special concern species	
1 unnamed threatened species	
<b>6 Total</b>	<b>5 Total</b>

- Through additional correspondence with PFBC in 2018 (**Attachment B**), three of the unnamed species were identified for further ecological risk assessment, but the PFBC was unwilling to disclose the rest of the species:
  - Atlantic Sturgeon (endangered)
  - Shortnose Sturgeon (endangered)
  - Eastern Redbelly Turtle (threatened)
- Stantec expects the 2021 list of species to be similar to those identified in 2018. According to PA Code Title 58 Chapter 75, the statuses of the four species identified by PFBC in 2018 (Atlantic Sturgeon, Shortnose Sturgeon, Hickory Shad, and Eastern Redbelly Turtle) have not changed.
- Atlantic Sturgeon, Shortnose Sturgeon, Hickory Shad, and Eastern Redbelly Turtle were included in previous risk assessment work. In addition to desktop work, activities included a monitoring program for acoustically-tagged sturgeon in the Schuylkill River and field surveys for the Eastern Redbelly Turtle (habitat survey & presence/absence basking survey). The surveys for the Eastern Redbelly Turtle included assessments of Mingo Basin, adjacent to AOI 9.

In addition, Stantec has commenced the PNDI update process for AOIs 1 through 8 and has received a similar result to the 2018 PNDI update. The final 2021 survey results and associated agency letters along with results of any individual species site surveys will be included in the Sitewide ERA to be submitted in June 2022. The ERA will also present an evaluation of potential impacts from site constituents of concern to identified species.

Stantec will be submitting follow up correspondence to the Pennsylvania Game Commission, PA DCNR, and PFBC shortly.

Thank you,

**Stantec Consulting Services Inc.**



**Jenny Kachel**

Geologist  
Phone: (610) 840-2561  
Mobile: (484) 757-7890  
jenny.kachel@stantec.com

Attachment: Attachment A: Draft 2021 PNDI Search, AOI 9  
Attachment B: 2018 PNDI Search, AOI 9

# **ATTACHMENT A**

**Draft 2021 PNDI Search, AOI 9**

## 1. PROJECT INFORMATION

Project Name: **Former Philadelphia Refinery AOI 9**

Date of Review: **12/6/2021 04:58:30 PM**

Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Spill (e.g., oil, chemical)**

Project Area: **207.32 acres**

County(s): **Philadelphia**

Township/Municipality(s): **PHILADELPHIA**

ZIP Code:

Quadrangle Name(s): **PHILADELPHIA**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **City of Philadelphia-Schuylkill River**

Decimal Degrees: **39.899850, -75.220804**

Degrees Minutes Seconds: **39° 53' 59.4604" N, 75° 13' 14.8931" W**

This is a draft receipt for information only. It has not been submitted to jurisdictional agencies for review.

## 2. SEARCH RESULTS

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

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.

### Former Philadelphia Refinery AOI 9

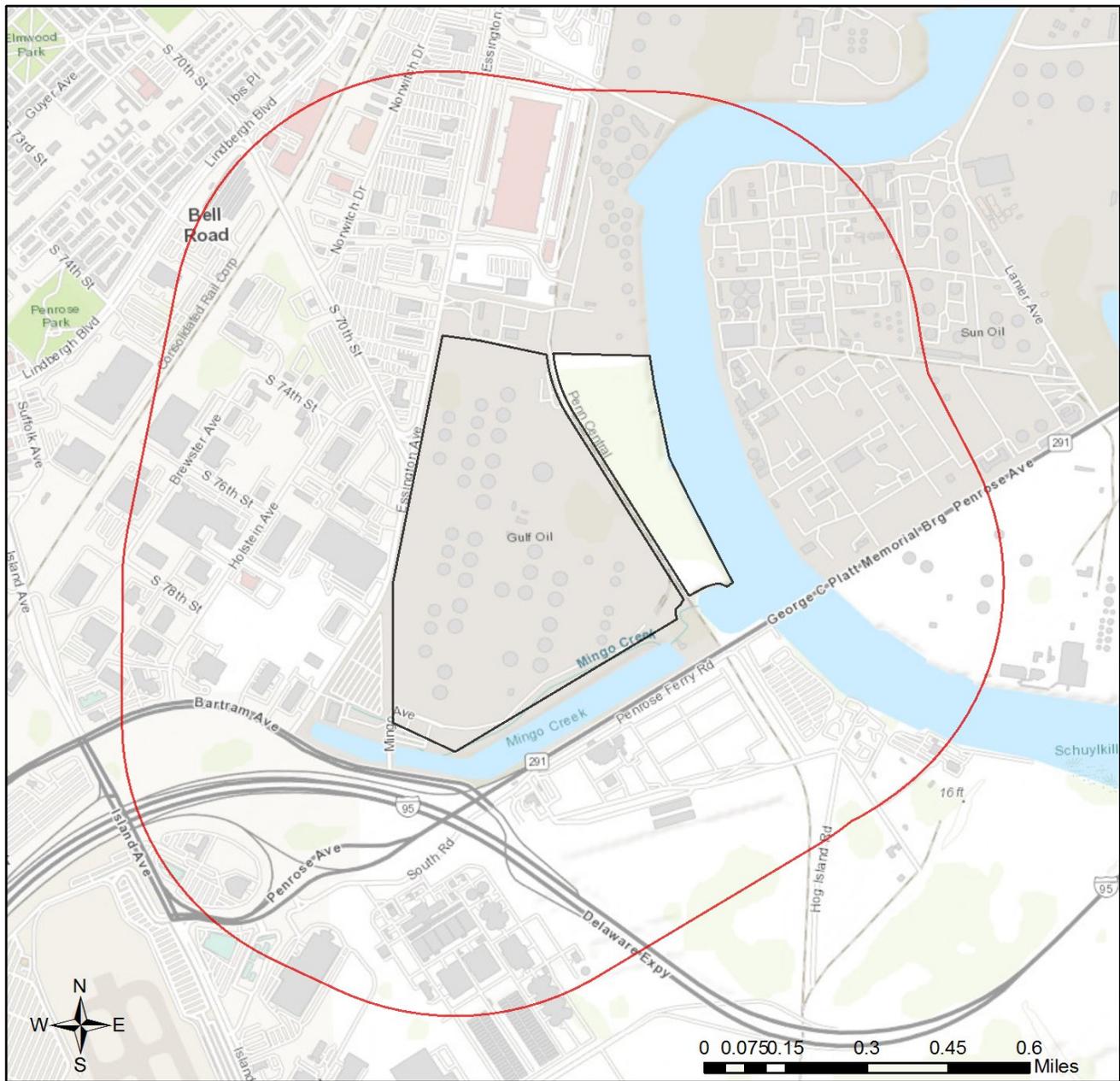


- Project Boundary
- Buffered Project Boundary



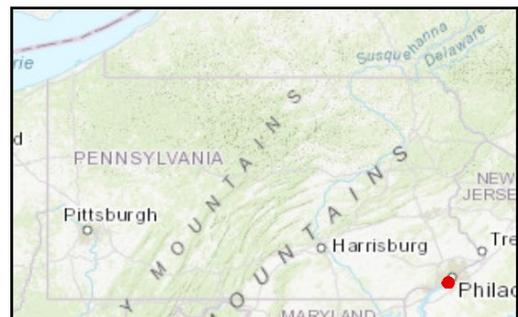
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community  
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

### Former Philadelphia Refinery AOI 9



- Project Boundary
- Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intemap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



## RESPONSE TO QUESTION(S) ASKED

**Q1:** 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 a wetland specialist, and detailed project maps should document this.)

**Q2:** 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:

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).

**PGC 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
Cistothorus palustris	Marsh Wren	Special Concern Species*
Ixobrychus exilis	Least Bittern	Endangered

#### 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: <https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Amaranthus cannabinus	Waterhemp Ragweed	Special Concern Species*	Special Concern Species*	Flowers July - September

## 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**		Endangered
Sensitive Species**		Threatened

## 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.

\* 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) (see AGENCY CONTACT INFORMATION). 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 (but not USFWS).

\*If information was requested by USFWS, applicants must email, or mail, project information to [IR1\\_ESPenn@fws.gov](mailto:IR1_ESPenn@fws.gov) to initiate a review. USFWS will not accept uploaded project materials.

### 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.



**ATTACHMENT B**  
**2018 PNDI Search, AOI 9**

## 1. PROJECT INFORMATION

Project Name: **Philadelphia Refining Complex AOI 9**

Date of Review: **6/20/2018 08:07:13 AM**

Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Spill (e.g., oil, chemical)**

Project Area: **211.49 acres**

County(s): **Philadelphia**

Township/Municipality(s): **PHILADELPHIA**

ZIP Code: **19153**

Quadrangle Name(s): **PHILADELPHIA**

Watersheds HUC 8: **Schuylkill**

Watersheds HUC 12: **City of Philadelphia-Schuylkill River**

Decimal Degrees: **39.899880, -75.220748**

Degrees Minutes Seconds: **39° 53' 59.5686" N, 75° 13' 14.6940" W**

## 2. SEARCH RESULTS

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

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.

### Philadelphia Refining Complex AOI 9

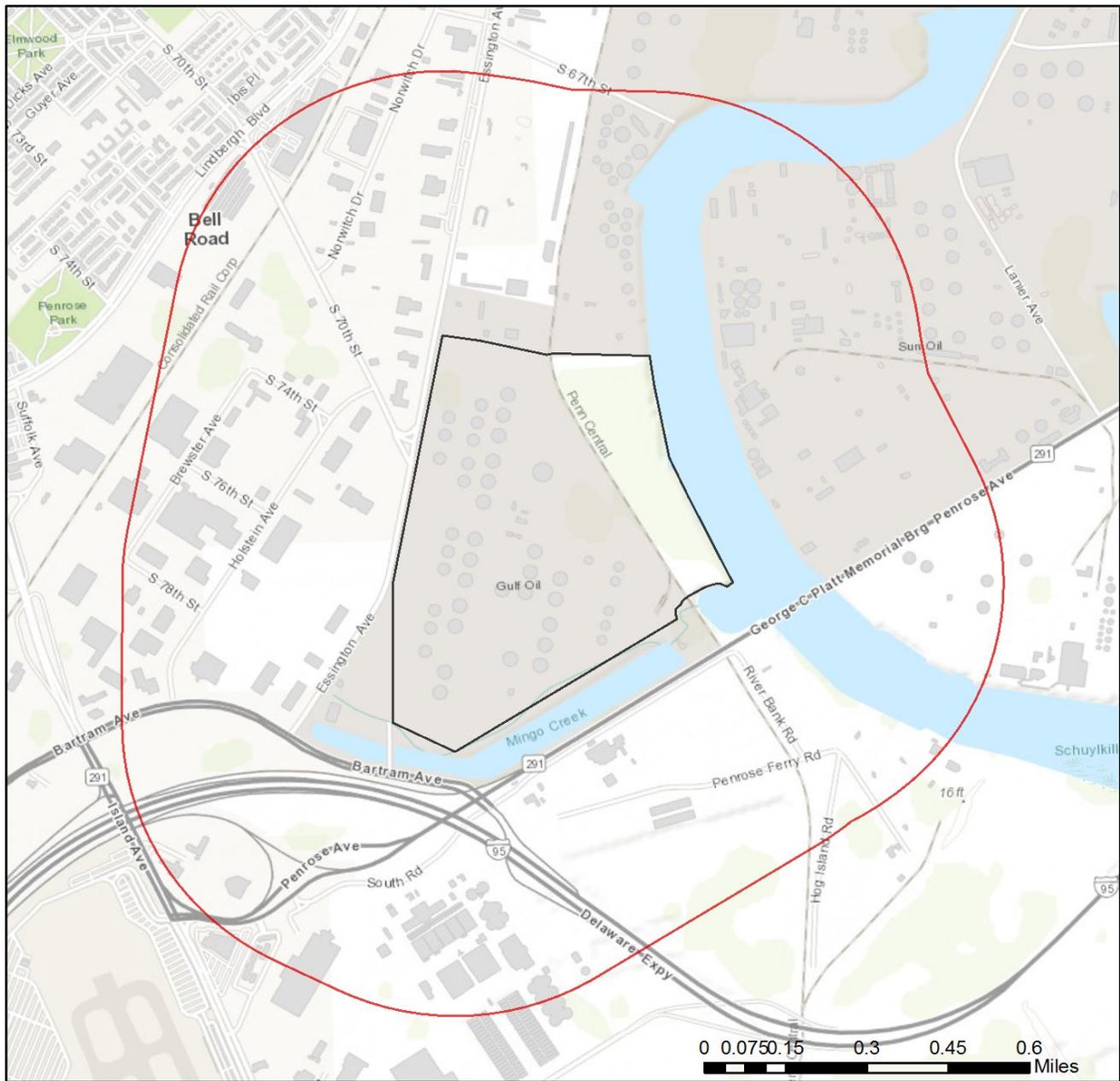


- Project Boundary
- Buffered Project Boundary



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, Garmin, © OpenStreetMap contributors, and the GIS user community

### Philadelphia Refining Complex AOI 9



- 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  
 Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,



## RESPONSE TO QUESTION(S) ASKED

**Q1:** 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:** The project area (or land parcel) has not been investigated by someone qualified to identify and delineate wetlands, or it is currently unknown if the project or project activities will affect wetlands.

**Q2:** 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:

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).

**PGC 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
<i>Cistothorus palustris</i>	Marsh Wren	Special Concern Species*
<i>Ixobrychus exilis</i>	Least Bittern	Endangered

#### 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:

<https://conservationexplorer.dcnr.pa.gov/content/survey-protocols>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Amaranthus cannabinus	Waterhemp Ragweed	Special Concern Species*	Special Concern Species*	Flowers July - September

**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**		Endangered
Sensitive Species**		Endangered
Alosa mediocris	Hickory Shad	Endangered
Sensitive Species**		Special Concern Species*
Sensitive Species**		Endangered
Sensitive Species**		Threatened

**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.

\* 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.

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## WHAT TO SEND TO JURISDICTIONAL AGENCIES

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**\*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)

### 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 Fish and Boat Commission

Division of Environmental Services  
595 E. Rolling Ridge Dr., Bellefonte, PA 16823  
Email: [RA-FBPACENOTIFY@pa.gov](mailto:RA-FBPACENOTIFY@pa.gov)

### 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: JENNIFER MENGES  
Company/Business Name: STANTEC CONSULTING SERVICES INC.  
Address: 1060 ANDREW DRIVE, SUITE 140  
City, State, Zip: WEST CHESTER, PA 19380  
Phone: ( 610 ) 840-2540 Fax: ( 610 ) 840-2501  
Email: JENNIFER.MENGES@STANTEC.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.

Jennifer Menges  
applicant/project proponent signature

6/20/2018  
date



**Stantec Consulting Services Inc.**  
1060 Andrew Drive, Suite 140  
West Chester, Pennsylvania 19380

June 20, 2018

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

**Reference: Potential PNDI Conflict**  
**Philadelphia Refining Complex AOI 9**  
**PNDI Search ID: PNDI-659365**  
**Philadelphia, Philadelphia County, Pennsylvania**

Dear Sir/Madam,

Stantec Consulting Services, Inc. (Stantec) is continuing with Site Characterization Reports (SCRs) on behalf of Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC (Evergreen) for select aboveground storage tanks located in the Philadelphia Energy Solutions Refining and Marketing LLC (PES) Philadelphia Refining Complex (Complex) located at 3144 Passyunk Avenue, Philadelphia (**Figure 1**) in response to tank related incidents. The Schuylkill River Tank Farm (SRTF) is part of the PES Complex, and is also referred to as Area of Interest (AOI) 9. Additionally, the PES Complex is part of the One Cleanup Program which provides a mechanism for properties participating in the Pennsylvania Land Recycling Program to also satisfy the requirements of the Environmental Protection Agency (EPA) Corrective Measures program. As a part of this program, Stantec is currently preparing an Ecological Risk Assessment to examine potential impacts to threatened species, endangered species, and species of special concern.

The storage tank Corrective Action Process (CAP) regulations in 25 PA Code Chapter 245, Subchapter D, specifically §245.310(a)(28) and §245.310(b)(4), as well as the Land Recycling Program regulations in 25 PA Code Chapter 250, specifically §250.311 and §250.402, require an evaluation of ecological receptors at the site. According to the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool search (PNDI Search ID: PNDI-659365), potential impacts may exist within the project area under the jurisdiction of the Pennsylvania Department of Conservation and Natural Resources (PADCNR).

The PNDI search identified the Waterhemp ragweed (*Amaranthus cannabinus*) as a species of special concern within the project area. A copy of the PNDI Project Environmental Review Receipt is attached.



June 20, 2018  
Page 2 of 2

**Reference: Potential PNDI Conflict  
Philadelphia Refining Complex AOI 9  
PNDI Search ID: PNDI-659365  
Philadelphia, Philadelphia County, Pennsylvania**

AOI 9 is approximately 200 acres and is located on the west side of the Schuylkill River. The SRTF is located on industrial property with access restricted by fencing and security measures. The current and intended future uses of AOI 9 are non-residential. Currently, activities at the SRTF include storage and blending of refined petroleum products. Approximately 37 aboveground storage tanks (ASTs) and numerous liquefied petroleum gas (LPG) tanks are currently in operation.

The SRTF is bounded to the north and west by commercial and light industrial properties, to the west by Essington Avenue, to the south by the Mingo Creek Flood Control Basin, and to the east by the Schuylkill River. The SRTF is bisected by a property owned by a local auto salvage business. A large wooded tract exists on the eastern side of the SRTF along the Schuylkill River, reportedly used historically for disposal of municipal waste. A Site Plan depicting AOI 9 is included as **Figure 2**.

We request a determination from the PADCNR as to whether or not projects at the SRTF could affect sensitive species as identified by the PNDI Environmental Project Review PADCNR jurisdiction. If you have questions on the enclosed material or require any additional information to make your determination, please feel free to contact me at (610) 840-2540.

Regards,

**STANTEC CONSULTING SERVICES INC.**

A handwritten signature in purple ink that reads "Jennifer Menges".

Jennifer Menges  
Principal, LRS  
1060 Andrew Drive, Suite 140  
West Chester, PA 19380  
Phone: (610) 840-2540  
jennifer.menges@stantec.com

Attachments: PNDI Project Environmental Review Receipt  
Figure 1 – Site Location Map  
Figure 2 – Site Plan

c. Stantec Project File  
Evergreen Project File

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BUREAU OF FORESTRY

June 29, 2018

**PNDI Number: 659365**  
Version: Final\_1; 6/20/18

**Jennifer Menges**

**Stantec**

1060 Andrew Drive

West Chester, PA 19380

Email: Jennifer.menges@stantec.com (hard copy will not follow)

**Re: Philadelphia Refining Complex AOI 9**  
**City of Philadelphia, Philadelphia County, PA**

Dear Jennifer Menges,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number **659365** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated per Avoidance**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. The information you submitted indicated that there would be no impacts to the forested riverbank within the project area. Therefore, this project would avoid potential impacts to DCNR species and resources. Based on this information, 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.

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 and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes 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 Megan Pulver, Ecological Information Specialist, by phone (717-705-2819) or via email (c-mpulver@pa.gov).**

Sincerely



Greg Podnieszinski, Section Chief  
Natural Heritage Section

November 8, 2018

**PNDI Numbers: 659359 and 659365**

Versions: Final\_1; 6/19/18 and Final\_1; 6/20/18

**Jennifer Menges**

**Stantec**

1060 Andrew Drive

West Chester, PA 19380

Email: Jennifer.menges@stantec.com (hard copy will not follow)

**Re: Philadelphia Refining Complex AOIs 1-8 and Philadelphia Refining Complex AOI 9  
City of Philadelphia, Philadelphia County, PA**

Dear Jennifer Menges,

Thank you for the submission of the botanical survey report for Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Numbers **659359 and 659365**. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**Coordination History**

The PNDI search results of species potentially within the project or its vicinity included seven species for PNDI 659359 (AOIs 1-8) and one species for PNDI 359365 (AOI 9). Given the disturbed and fragmented condition of AOIs 1-8, the avoidance of impacts to the forested area along the riverbank within AOI 9, and the nature of the project as hazardous waste clean-up/site remediation, DCNR did not request a botanical survey. However, at the request of the Pennsylvania Department of Environmental Protection, Stantec conducted a botanical survey in Areas of Interest 1-8 and 9 for seven plant species of concern.

**No Impact per Survey**

Stantec ecologists conducted a survey for *Amaranthus cannabinus* (waterhemp ragweed), *Baccharis halimifolia* (eastern baccharis), *Echinochloa walteri* (Walter's barnyard grass), *Heteranthera multiflora* (multiflowered mud plantain), *Lycopus rubellus* (bugleweed), *Pluchea odorata* (shrubby camphor weed), and *Schoenoplectus fluviatilis* (river bulrush) on August 15, 16, and 29, 2018. One of the target species, *Baccharis halimifolia*, was observed within AOIs 3 and 8. Except for one plant along the Schuylkill River, all individuals were observed in anthropogenically disturbed areas within an active industrial site. Based on the disturbed nature of on-site habitat and the lack of natural habitat (coastal wetlands) identified by the survey, these populations are not a conservation priority. DCNR concurs with Stantec's conclusion that the proposed remedial actions would not impact the continued viability of the existing *Baccharis halimifolia* populations. No further coordination is needed with our agency.

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 and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes 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 Megan Pulver, Ecological Information Specialist, by phone (717-705-2819) or via email (c-mpulver@pa.gov).**

Sincerely

A handwritten signature in black ink that reads "Greg Podnieszinski". The signature is written in a cursive style and is centered within a light gray rectangular box.

Greg Podnieszinski, Section Chief  
Natural Heritage Section



**Stantec Consulting Services Inc.**  
1060 Andrew Drive, Suite 140  
West Chester, Pennsylvania 19380

June 20, 2018

PA Fish and Boat Commission  
Division of Environmental Services  
595 East Rolling Ridge Drive  
Bellefonte, PA 16823

**Reference: Potential PNDI Conflict**  
**Philadelphia Refining Complex AOI 9**  
**PNDI Search ID: PNDI-659365**  
**Philadelphia, Philadelphia County, Pennsylvania**

Dear Sir/Madam,

Stantec Consulting Services, Inc. (Stantec) is continuing with Site Characterization Reports (SCRs) on behalf of Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC (Evergreen) for select aboveground storage tanks located in the Philadelphia Energy Solutions Refining and Marketing LLC (PES) Philadelphia Refining Complex (Complex) located at 3144 Passyunk Avenue, Philadelphia (**Figure 1**) in response to tank related incidents. The Schuylkill River Tank Farm (SRTF) is part of the PES Complex, and is also referred to as Area of Interest (AOI) 9. Additionally, the PES Complex is part of the One Cleanup Program which provides a mechanism for properties participating in the Pennsylvania Land Recycling Program to also satisfy the requirements of the Environmental Protection Agency (EPA) Corrective Measures program. As a part of this program, Stantec is currently preparing an Ecological Risk Assessment to examine potential impacts to threatened species, endangered species, and species of special concern.

The storage tank Corrective Action Process (CAP) regulations in 25 PA Code Chapter 245, Subchapter D, specifically §245.310(a)(28) and §245.310(b)(4), as well as the Land Recycling Program regulations in 25 PA Code Chapter 250, specifically §250.311 and §250.402, require an evaluation of ecological receptors at the site. According to the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool search (PNDI Search ID: PNDI-659365), potential impacts may exist within the project area under the jurisdiction of the Pennsylvania Fish and Boat Commission (PAFBC). The search identified five undisclosed sensitive species as endangered and/or threatened within the general project area. Additionally, named is the *Alosa mediocris* (hickory shad) as an endangered species.

A Species Impact Review (SIR) request form is included with this submission, which provides necessary information to conduct a database search for species of special concern listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, the Pennsylvania Fish and Boat Code, or the Wildlife Code.



June 20, 2018  
Page 2 of 3

**Reference: Potential PNDI Conflict  
Philadelphia Refining Complex AOI 9  
PNDI Search ID: PNDI-659365  
Philadelphia, Philadelphia County, Pennsylvania**

AOI 9 is approximately 200 acres and is located on the west side of the Schuylkill River. The SRTF is located on industrial property with access restricted by fencing and security measures. The current and intended future uses of AOI 9 are non-residential. Currently, activities at the SRTF include storage and blending of refined petroleum products. Approximately 37 aboveground storage tanks (ASTs) and numerous liquefied petroleum gas (LPG) tanks are currently in operation.

The SRTF is bounded to the north and west by commercial and light industrial properties, to the west by Essington Avenue, to the south by the Mingo Creek Flood Control Basin, and to the east by the Schuylkill River. The SRTF is bisected by a property owned by a local auto salvage business. A large wooded tract exists on the eastern side of the SRTF along the Schuylkill River, reportedly used historically for disposal of municipal waste. A Site Plan depicting AOI 9 is included as **Figure 2**.

We request that PAFBC provide the names of the threatened species and endangered species listed in the PNDI receipt so that Stantec can perform an Ecological Risk Assessment for those species in accordance with the Land Recycling Program. Stantec intends to examine whether there is a potential for an unacceptable risk to exist to these species as a result of historic releases to soil and groundwater at the SRTF. If you have questions on the enclosed material or require any additional information to make your determination, please feel free to contact me at (610) 840-2540.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Jennifer Menges  
Principal, LRS  
1060 Andrew Drive, Suite 140  
West Chester, PA 19380  
Phone: (610) 840-2540  
jennifer.menges@stantec.com



June 20, 2018  
Page 3 of 3

**Reference: Potential PNDI Conflict**  
**Philadelphia Refining Complex AOI 9**  
**PNDI Search ID: PNDI-659365**  
**Philadelphia, Philadelphia County, Pennsylvania**

Attachments: PNDI Project Environmental Review Receipt  
PAFBC SIR Request Form  
Figure 1 – Site Location Map  
Figure 2 – Site Plan

c. Stantec Project File  
Evergreen Project File

COMMONWEALTH OF PENNSYLVANIA  
**FISH AND BOAT COMMISSION**  
 NATURAL DIVERSITY SECTION  
**SPECIES IMPACT REVIEW (SIR) REQUEST FORM**

A. This form provides the site information necessary to perform a computer database search for species of special concern listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, the Pennsylvania Fish and Boat Code or the Wildlife Code.

B. Use only **one form** for each proposed project or location. Complete the information below and **mail** form to:

Natural Diversity Section  
 Division of Environmental Services  
 PA Fish and Boat Commission  
 450 Robinson Lane  
 Bellefonte, PA 16823  
 Fax: (814) 359-5175

C. This form, a cover letter including a project narrative, and accompanying maps should be sent to the above address for environmental reviews that **only** concern **reptiles, amphibians, fishes and aquatic invertebrates**. Reviews for other natural resources must be submitted to other appropriate agencies.

D. The absence of recorded information from our databases and files does not necessarily imply actual conditions on site. Future field investigations could alter this determination. The information contained in our files is routinely updated. A review is valid for one year.

E. **Please send us only one (1) copy of your request** – either by fax or by mail – not both. Mail is preferred to improve legibility of maps. Facsimile submission will not improve our response turn-around time.

F. **Allow 30 days for completion of the review from the date of PFBC receipt**. Large projects and workload may extend this review timeframe.

G. **In any future correspondence with us following your receipt of the SIR response, please refer to the assigned SIR number at the top left of our cover letter.**

H. **FORMS THAT ARE NOT COMPLETED IN FULL WILL NOT BE REVIEWED.**

**PLEASE PRINT OR TYPE:** If available, provide the potential conflict **PNDI Search Number:** \_\_\_\_\_

PFBC response should be sent to:

Company/Agency: \_\_\_\_\_ Form Preparer: \_\_\_\_\_

Address: \_\_\_\_\_

Phone (8:00 AM to 4:00 PM): \_\_\_\_\_

Project Description: \_\_\_\_\_

Indicate if the project is: Transportation  or Non-transportation  (check one)

Will the proposed project encroach directly or indirectly (e.g., runoff) upon wetlands or waterways? Circle one for each:

Wetlands: Yes No Unknown Waterways: Yes No Unknown

County: \_\_\_\_\_ Township/Municipality: \_\_\_\_\_

Name of the United States Geological Survey (U.S.G.S.) 7.5 Minute Quadrangle Map where project is located: \_\_\_\_\_

Project size (in acres): \_\_\_\_\_

Attach an 8.5" by 11" photocopy (**DO NOT REDUCE**) of the section of the U.S.G.S. Quadrangle Map which identifies the project location. On this map, indicate the location of the project center (if linear, depict both ends) and outline the approximate boundaries of the project area.

Specify latitude/longitude of the project center. **Latitude:** \_\_\_\_\_ ° / \_\_\_\_\_ ' / \_\_\_\_\_ " N

Indicate latitude/longitude in degrees-minutes-seconds format only. **Longitude:** \_\_\_\_\_ ° / \_\_\_\_\_ ' / \_\_\_\_\_ " W

Three steps are needed to convert from decimal degrees to degrees-minutes-seconds: (1) Degrees will be the whole number. (2) To get minutes, multiply the decimal degree portion by 60. (3) Multiply the decimal minute portion by 60 to get seconds.

Example: (Latitude) 40.93748 = **40°**; 0.93748 x 60 = 56.2488' = **56'**; 0.2488 x 60 = 14.928 = **15"** = **40°56'15" N**

(Longitude) 75.94740 = **75°**; 0.94740 x 60 = 56.844' = **56'**; 0.844 x 60 = 50.64 = **51"** = **75°56'51" W**

**FOR PFBC USE ONLY**

SIR#	Quad Name	Data Source	Search Result-Potential Species Conflict	Action



## Pennsylvania Fish & Boat Commission

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**Division of Environmental Services**  
Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

June 29, 2018

**IN REPLY REFER TO**  
SIR# 49720

Stantec  
Jennifer Menges  
1060 Andrew Drive  
West Chester, Pennsylvania 19380

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 659365\_1  
Philadelphia Refining Complex AOI 9  
PHILADELPHIA County: Philadelphia City**

Dear Jennifer Menges:

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.

**Eastern Redbelly Turtle (*Pseudemys rubriventris*, Threatened)**

We will need to conduct a more thorough evaluation of the potential adverse impacts that the proposed project could have on the species of concern. We will need to review items **such as:** color photographs of the project area highlighting wetlands or waterways keyed to a site plan, basic site plans, a project narrative describing exactly how the construction/maintenance activity is to be conducted, waterway and/or wetland acreage to be impacted (directly and indirectly), a description of the onsite soils, and a water-body characterization (i.e., depth, width, flow velocity, substrate/bottom type, presence of aquatic vegetation, and woody debris or other basking areas, etc.). Pending the review of this information, further consultation may be needed and/or a survey targeting the species of concern may be warranted.

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.

**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.*

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.

**If you have any questions regarding this review, please contact Robert Morgan at 814-359-5129 and refer to the SIR # 49720.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/RTM/dn





## Pennsylvania Fish & Boat Commission

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**Division of Environmental Services**  
Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

October 31, 2018

**IN REPLY REFER TO**  
SIR# 49720

Stantec  
Jennifer Menges  
1060 Andrew Drive  
West Chester, Pennsylvania 19380

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species**  
**PNDI Search No. 659365\_1**  
**Philadelphia Refining Complex AOI 9**  
**PHILADELPHIA County: Philadelphia City**

Dear Jennifer Menges:

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.

**Eastern Redbelly Turtle (*Pseudemys rubriventris*, Threatened)**

You provided an evaluation of habitats on site by Bryon DuBois to determine their potential to support the species of concern. Mr. DuBois identified existing water bodies (E; Mingo Creek) on the site, as well as the Schuylkill River, and the vegetated areas in proximity to these water bodies as potential habitat for the Eastern Redbelly Turtle. I concur with the results of this evaluation; therefore, impacts to these features should be avoided.

**If the identified suitable habitats or the area within 300ft of these water features are to be disturbed from project activity**, we will need to conduct a more thorough evaluation of the potential adverse impacts to the species of concern. Items **such as**: basic project plans, project narrative, general habitat descriptions, and color photographs keyed to a site map or diagram of the project area, wetlands identification and delineation, stream characterization (flow velocity, width, depth, substrate type, pools and riffles, identification of basking areas, logs, woody debris, presence of aquatic vegetation) would expedite our review process. Pending the review of information, a habitat assessment or survey targeting the presence of the species of concern may be warranted.

**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.*

**However, if the identified suitable habitats or the area within 300ft of these water features are not to be disturbed from project activity**, and provided that best management practices are employed and strict erosion and sedimentation measures are maintained, I do not foresee any adverse impacts to the Eastern Redbelly Turtle (*Pseudemys rubriventris*) from the proposed project.

Additionally, for the purposes of your Ecological Risk Assessment, based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files, the following rare or protected species are known from the River in the vicinity of the project site:

**Common Name (Scientific Name, PA Status)**

Atlantic Sturgeon (*Acipenser oxyrinchus*, Endangered)

Hickory Shad (*Alosa mediocris*, Endangered)

Shortnose Sturgeon (*Acipenser brevirostrum*, Endangered)

Measures to prevent the release of sediment and harmful chemicals into waterways should be implemented. We recommend construction techniques that avoid instream work, sediment release, and changes to water quality and that fuel storage tanks for equipment re-fueling be located at least 100 feet away from waterways. Storm sewers and retention basins should be designed so as to minimize/remove all silt from the water before it is released into the stream. Strict erosion and sedimentation control measures, as well as best management practices should be employed.

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.

**If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 49720.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,



Christopher A. Urban, Chief  
Natural Diversity Section

CAU/KDG/dn



## Pennsylvania Fish & Boat Commission

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### Division of Environmental Services

Natural Diversity Section  
595 E Rolling Ridge Dr.  
Bellefonte, PA 16823  
814-359-5237

October 22, 2019

### IN REPLY REFER TO

SIR# 49720

Stantec  
Jennifer Menges  
1060 Andrew Drive  
West Chester, Pennsylvania 19380

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 659365\_1  
Philadelphia Refining Complex AOI 9  
PHILADELPHIA County: Philadelphia City**

Dear Jennifer Menges:

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.

Based on records maintained in the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files, the following rare or protected species are known from the Schuylkill River in the vicinity of the project site:

**Common Name (Scientific Name, PA Status)**

Eastern Redbelly Turtle (*Pseudemys rubriventris*, Threatened)  
Atlantic Sturgeon (*Acipenser oxyrinchus*, Endangered)  
Hickory Shad (*Alosa mediocris*, Endangered)  
Shortnose Sturgeon (*Acipenser brevirostrum*, Endangered)

In 2019, Bryon DuBois of DuBois Environmental Consultants conducted a Redbelly Turtle presence/absence survey (Phase 2) at the above site, in Mingo Creek where potential habitat had been identified in the habitat assessment from 2018. According to the resulting report, *Pseudemys rubriventris* was confirmed as occupying the Mingo Creek flood control basin, as well as being known to occur within the Schuylkill River proper; therefore, impacts to these features should be avoided.

### 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.*

We recommend that the identified occupied waterbodies and existing vegetated areas within 300ft of these water features not be disturbed from project activity, and that best management practices are employed and strict erosion and sedimentation measures are maintained. Measures to prevent the release of sediment and harmful chemicals into waterways should be implemented. We recommend construction techniques that avoid instream work, sediment release, and changes to water quality and that fuel storage tanks for equipment re-fueling be located at least 100 feet away from waterways. Storm sewers and retention basins should be designed so as to minimize/remove all silt from the water before it is released into the stream.

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.

**If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 and refer to the SIR # 49720.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

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

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/KDG/dn



**Stantec Consulting Services Inc.**  
1060 Andrew Drive, Suite 140  
West Chester, Pennsylvania 19380

June 20, 2018

PA Game Commission  
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue  
Harrisburg, PA 17110-9797

**Reference: Potential PNDI Conflict**  
**Philadelphia Refining Complex AOI 9**  
**PNDI Search ID: PNDI-659365**  
**Philadelphia, Philadelphia County, Pennsylvania**

Dear Sir/Madam,

Stantec Consulting Services, Inc. (Stantec) is continuing with Site Characterization Reports (SCRs) on behalf of Philadelphia Refinery Operations, a series of Evergreen Resources Group, LLC (Evergreen) for select aboveground storage tanks located in the Philadelphia Energy Solutions Refining and Marketing LLC (PES) Philadelphia Refining Complex (Complex) located at 3144 Passyunk Avenue, Philadelphia (**Figure 1**) in response to tank related incidents. The Schuylkill River Tank Farm (SRTF) is part of the PES Complex, and is also referred to as Area of Interest (AOI) 9. Additionally, the PES Complex is part of the One Cleanup Program which provides a mechanism for properties participating in the Pennsylvania Land Recycling Program to also satisfy the requirements of the Environmental Protection Agency (EPA) Corrective Measures program. As a part of this program, Stantec is currently preparing an Ecological Risk Assessment to examine potential impacts to threatened species, endangered species, and species of special concern.

The storage tank Corrective Action Process (CAP) regulations in 25 PA Code Chapter 245, Subchapter D, specifically §245.310(a)(28) and §245.310(b)(4), as well as the Land Recycling Program regulations in 25 PA Code Chapter 250, specifically §250.311 and §250.402, require an evaluation of ecological receptors at the site. According to the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool search (PNDI Search ID: PNDI-659365), potential impacts may exist within the project site under the jurisdiction of the Pennsylvania Game Commission (PAGC). The PNDI search identified one special concern species, the marsh wren (*Cistothorus palustris*) and one endangered species, the least bittern (*Ixobrychus exilis*) within the project area. A copy of the PNDI Project Environmental Review Receipt is attached.

AOI 9 is approximately 200 acres and is located on the west side of the Schuylkill River. The SRTF is located on industrial property with access restricted by fencing and security measures. The current and intended future uses of AOI 9 are non-residential. Currently, activities at the SRTF include storage and blending of refined petroleum products. Approximately 37 aboveground storage tanks (ASTs) and numerous liquefied petroleum gas (LPG) tanks are currently in operation.



June 20, 2018  
Page 2 of 2

**Reference: Potential PNDI Conflict**  
**Philadelphia Refining Complex AOI 9**  
**PNDI Search ID: PNDI-659359**  
**Philadelphia, Philadelphia County, Pennsylvania**

The SRTF is bounded to the north and west by commercial and light industrial properties, to the west by Essington Avenue, to the south by the Mingo Creek Flood Control Basin, and to the east by the Schuylkill River. The SRTF is bisected by a property owned by a local auto salvage business. A large wooded tract exists on the eastern side of the SRTF along the Schuylkill River, reportedly used historically for disposal of municipal waste. A Site Plan depicting AOI 9 is included as **Figure 2**.

We request a determination from the PAGC as to whether or not projects at the SRTF could affect sensitive species as identified by the PNDI Environmental Project Review PAGC jurisdiction. If you have questions on the enclosed material or require any additional information to make your determination, please feel free to contact me at (610) 840-2540.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Jennifer Menges  
Principal, LRS  
1060 Andrew Drive, Suite 140  
West Chester, PA 19380  
Phone: (610) 840-2540  
jennifer.menges@stantec.com

Attachments: PNDI Project Environmental Review Receipt  
Figure 1 – Site Location Map  
Figure 2 – Site Plan

c. Stantec Project File  
Evergreen Project File



August 1, 2018

Ms. Jennifer Menges  
Stantec  
1060 Andrew Drive  
West Chester, Pennsylvania 19380  
[jennifer.menges@stantec.com](mailto:jennifer.menges@stantec.com)

PNDI Receipt File: *project\_receipt\_philadelphia\_refining\_com\_659365\_FINAL\_1.pdf*  
Re: Philadelphia Refining Complex AOI 9  
City of Philadelphia, Philadelphia County, Pennsylvania

Dear Ms. Menges,

Thank you for submitting Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt *project\_receipt\_philadelphia\_refining\_com\_659365\_FINAL\_1.pdf* for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

### **No Impact Anticipated**

PNDI records indicate species or resources of concern are located within 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, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this 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). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural

Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us).

Sincerely,



Olivia A. Braun  
Environmental Planner  
Division of Environmental Planning & Habitat Protection  
Bureau of Wildlife Habitat Management  
Phone: 717-787-4250, Extension 3128  
Fax: 717-787-6957  
E-mail: Olbraun@pa.gov

A PNHP Partner



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cc: File