DELAWARE RIVERKEEPER NETWORK™

These are records DRN received as a result of our Right to Know Request to PA Fish & Boat Commission on September 9, 2022 regarding the Jacobs Creek Pipeline Relocation Project.

DELAWARE RIVERKEEPER NETWORK
925 Canal Street, Suite 3701
Bristol, PA 19007
Office: (215) 369-1188
fax: (215)369-1181
drn@delawareriverkeeper.org
www.delawareriverkeeper.org

SXL Jacobs Creek Project General Description

Sunoco Logistics Partners, L.P. (SXL) owns and operates a 14-inch welded steel high-pressure petroleum products pipeline that transports product from SXL's Twin Oaks Terminal to their Newark Facility. Near the confluence of Jacobs Creek and the Delaware River in Ewing and Hopewell Townships, Mercer County, New Jersey and Upper Makefield Township, Bucks County, Pennsylvania, the existing pipeline is located within the stream beds of the Delaware River and Jacobs Creek. The pipeline travels across the Delaware then up the Jacobs Creek streambed, through a large concrete and stone arch culvert which supports the Delaware and Raritan Canal and State Route 29.

The project area is located near the confluence of the Delaware River and Jacobs Creek. At this location, the pipeline is within the stream bed of Jacobs Creek, running parallel to the creek. The Delaware and Raritan Canal parallels the Delaware River and New Jersey State Route 29 at this location, with Jacobs Creek bisecting them within a 24-foot wide rock and concrete arch culvert. The pipeline is exposed a total length of 301 feet within Jacobs Creek, 169-foot within the culvert, 3-feet upstream and 129-feet downstream of the culvert. The creek bed is located approximately 30-35 feet below the highway and canal surface.

Horizontal directional drill (HDD) installation techniques will be used to install the proposed pipeline across the Delaware River and up Jacob's Creek. The proposed HDD installation will be a 14-inch pipeline that will be approximately 2,500-feet in length and approximately 35-40 feet deep under the Delaware and Jacob's Creek stream beds, the concrete arch culvert and approximately 75-85 feet under the Delaware Raritan Canal and SR029

Going from PA into NJ in a west to east direction, the proposed HDD will cross under PA SR 32/River Road, the Delaware River, Jacobs Creek and the concrete culvert that supports Route 29 and the Delaware/Raritan Canal.

The proposed HDD will be installed from both the PA and NJ sides of the Delaware River. On the PA side, the HDD entry point will be within a private residential property and the (2) 1250-foot HDD pipeline strings will be assembled and tested within the same private residential and an additional residential/farm property. Access to the Gristmill property will be through a residential property off Creek Rim Drive and the existing Gristmill driveway of off NJ SR029. The contractor will travel down the driveway and continue around the back of another private residence on the same property. Large construction equipment will use an additional access location through an existing private residence property located on Creek Rim Drive.

On the NJ side the HDD exit point will be within an existing Gristmill private property and once the HHD drill and reaming process has been completed from the PA side the HDD drill rig will move to the NJ side or an additional smaller HDD rig will be installed on the NJ side to pull-back the 14-inch pipeline string that has been assembled on the PA side. Access to the PA residential and residential farm property will be off Oakdale Avenue.

The proposed HDD will be tied into the existing pipeline using trench installation techniques located land-side and outside of Jacob's Creek and the Delaware River. On the PA side the HDD installation will be tied in on the Grist Mill property and on the NJ side it will be tied in within Oakdale Avenue.

Approximately 350 feet of the exposed abandoned/existing pipeline will be removed from Jacob's Creek and the remaining existing/abandoned pipeline will be filled with grout. Access to the eastern end of the exposed pipe will be from the gristmill property into middle of Jacob's creek. Jacob's Creek will be dammed off using sand bags or a port-a dam to allow access into the stream and to the exposed pipe which will be cut and capped at this location. Access to the western end of the exposed pipe will along an existing Delaware Raritan Canal macadam road and down an existing cleared embankment into middle of Jacob's creek. Jacob's Creek will be dammed off using sand bags or a port-a dam to allow access into the stream and to the exposed pipe which will be cut and capped at this location. Once the exposed pipeline ends have been cut, the cut pipeline will be pulled through the culvert onto the Gristmill property where it will be cut into 20-foot joints and placed into roll-offs which will be hauled off-site and disposed of. All exposed pipeline removal activities will occur on the NJ side of the river. The remaining existing/abandoned pipeline will be grouted from the HDD land-side tie-in locations to the capped ends of the removed pipeline.

STV has performed wetland delineations on the Pennsylvania portion of the project. All impacts outside of the Delaware River, including access and staging areas are limited to upland areas. No wetland impacts are proposed within Pennsylvania for this project.

PROJECT LOCATION

Washington Crossing

Taylorsville

Washington Crossing United Methodist Cem

Delaware River

Delaware and Raritan Canal

NEW JERSEY / PENNSYLVANIA

Jacobs Creek

Houghs Cr

Dyers Cr

Core Cr

Scudders Falls

Gold Run

WASHINGTON CROSSING NATIONAL CEMETERY

Washington Crossing National Cem

Makefield Friends Burial Grounds

Dolington

Trenton Mercer Airport

Altura

Ewing Church Cem and Mausoleum

Scudders Falls

West Trenton

Fernwo

Ferry R

MERCER CO / BUCKS CO

RIVER DR

LAFAYETTE AVE

GENERAL KNOX RD

LAFAYETTE DR

RIVER RD

CROSSING FARM LN

STONEBRIDGE CROSSING RD

AQUEDUCT RD

MEADOW VIEW DR

SCOTT DR

OLD DOLINGTON RD

DOLINGTON ACRES RD

PONDVIEW DR

GLENWOOD DR

WALKER RD

BRUCE RD

MOUNT EYRE RD

DOLINGTON RD

N KIMBLES RD

S KIMBLES RD

FARMVIEW DR

LEEDAMS DR

BROOKFIELD RD

SUNNYSIDE LN

DELAWARE RIM RD

WOODSIDE RD

SILVERWOOD DR

TAYLORSVILLE RD

SLACK RD

OLD CABIN RD

FLY FARM LN

DAVIS DR

SENTINEL RD

WEATHERFIELD DR

CRIMSON LEAF DR

COOPER RD

DILLON WAY

DISPATCH DR

LARKSPUR LN

LITTLE RD

CANAL RUN E

CANAL RUN W

DECISION WAY W

LOOKOUT LN

MADDOCK RD

FORREST BLEND DR

JACOBS CREEK RD

TANGLEWOOD DR

BROOKSIDE DR

TODD RIDGE RD

WINDYBUSH WAY

LOCHATONG RD

SEVEN OAKS LN

FOREST LN

MONTAGUE AVE

PERRY DR

MOUNTAINVIEW RD

WESTWOOD DR

BEAR TAVERN RD

DELAWARE AVE

PARDEE PL

WILLIS DR

DUFFIELD DR

SCENIC DR

CANTERBURY LN

BERNARD DR

RONIT DR

SAMI WEINROTH RD

NURSERY RD

MERRILL DR S

SCOTCH RD

W UPPER FERRY RD

SUMMIT AVE

CENTRAL AVE

WASHINGTON AVE

WALKER AVE

HINCKLE AVE

DECOU AVE

RAILROAD AVE

GRAND AVE

SILVIA ST

CLAMER RD

PARKWAY AV

LOWER FERR

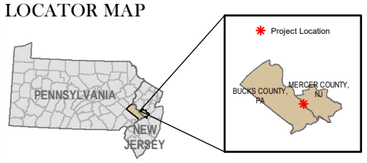
LINDENH

0 1,000 2,000 4,000 Feet

SCALE: 1 " = 2,000 '

RESOURCE INFORMATION:
United States Census Bureau (TIGER/Line Data)
United States Department of the Interior (USGS)
- *Lambertville, NJ-PA (2016)*
- *Pennington, NJ-PA (2016)*

LOCATOR MAP



STV 100 Years

CREATED BY: STV Energy Services, Inc.

Proposed Horizontal Directional Drill (HDD)

N

14-INCH TWIN OAKS-to-NEWARK JACOBS CREEK HORIZONTAL DIRECTIONAL DRILL PIPELINE RELOCATION

HOPEWELL and EWING TOWNSHIPS (MERCER COUNTY, NJ)
UPPER MAKEFIELD TOWNSHIP (BUCKS COUNTY, PA)

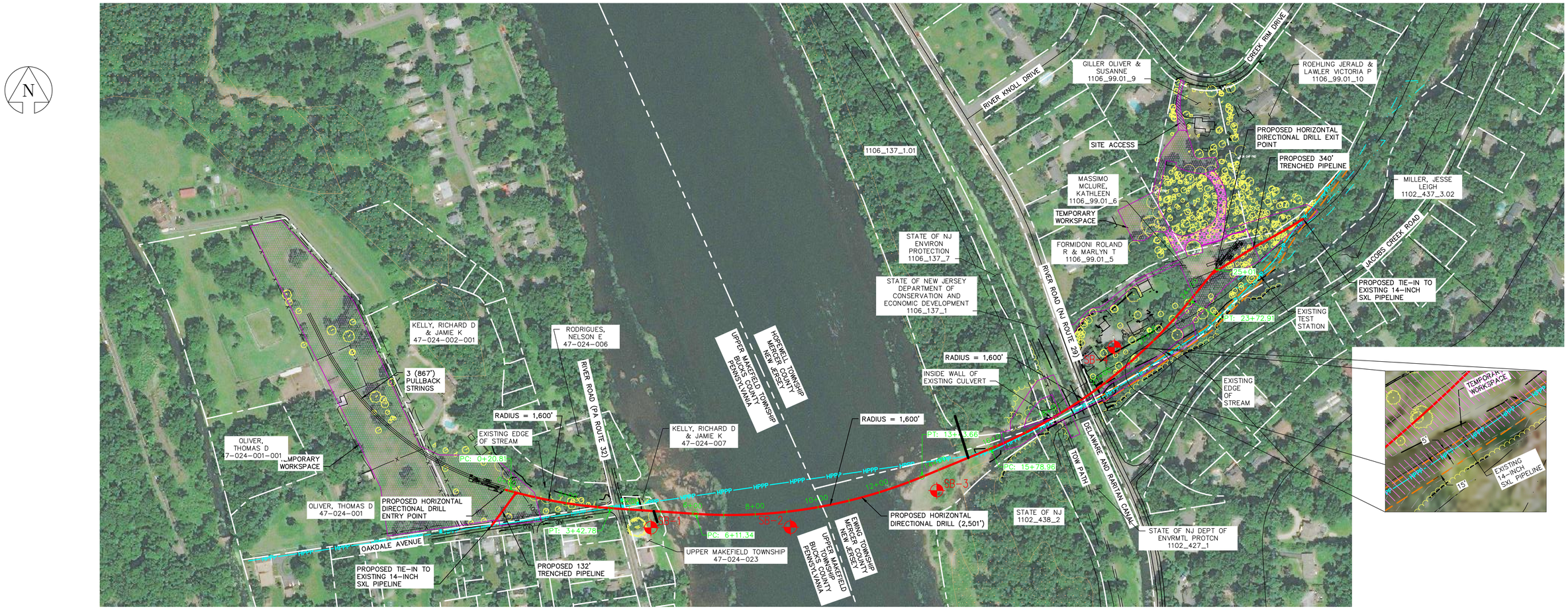
SUNOCO LOGISTICS PARTNERS L.P.

PROJECT LOCATION MAP (*USGS*)

Sunoco Logistics Partners L.P.

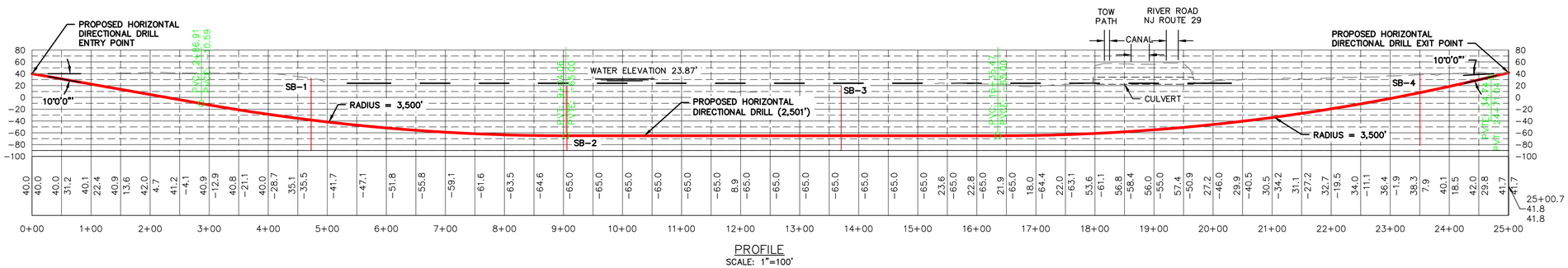
DRAWN BY: JJC III	**DATE:** 12/19/2018	**PROJECT NUMBER:** 38-16332	**COMMENTS:**
APPROVED BY:	**DATE:**	**REVISION NUMBER:**	

Document Path: I:\Projects\38\16332\16332_0001\90_CAD Models and Sheets\04_C_Civil\GIS\JacobsCreek_PrjLoc_USGS.mxd



PLAN
SCALE: 1"=150'

BORING NUMBER	NORTHING	EASTING
SB-1	526129.8557	392101.2448
SB-2	526132.3831	392543.7693
SB-3	526247.3876	393006.3173
SB-4	526878.8217	393737.2932



PROFILE
SCALE: 1"=100'

LEGEND:

- EXISTING SXL PIPELINE
- PROPOSED SXL PIPELINE
- EXISTING PIPELINE RIGHT-OF-WAY
- PROPERTY LINE
- EDGE OF WATER
- EXISTING FENCE
- EXISTING TREE LINE
- POLITICAL BOUNDARY
- EXISTING WETLAND (STV DELINIATED)
- EXISTING WETLAND (NWI)
- TEMPORARY WORKSPACE (MATTED)
- TEMPORARY WORKSPACE (STONE)
- TEMPORARY WORKSPACE
- PROPOSED SOIL BORING (SB-1)

PROFILE LEGEND:

- PROPOSED PIPELINE
- EXISTING GRADE
- EXISTING GRADE ELEV / PROPOSED TOP OF PIPE ELEV (825.2 / 821.3)

GRAPHIC SCALES

1"=150' — 150' 0 150' 300'

1"=100' — 100' 50' 0 100' 200'

STV
Baltimore, MD Bismarck, ND Denver, CO Douglassville, PA Houston, TX Pittsburgh, PA Williamsport, PA

THE LOCATION OF THE PIPELINE FACILITIES AS SHOWN HEREON MUST BE CONSIDERED AS APPROXIMATE ONLY. BEFORE DIGGING OR FOR AN EXACT LOCATION PLEASE CONTACT YOUR STATES UNDERGROUND UTILITY LOCATION SERVICE.

PRELIMINARY DRAFT

REV.	DATE	APP#	DESCRIPTION	APPROVAL

ENGINEERING RECORD	
DRAWN BY	RFG
CHECKED BY	MWS
APPROVED BY	
DATE	02/20/19
SCALE	AS SHOWN

Sunoco Logistics Partners L.P.

14-INCH TWIN OAKS TO NEWARK
JACOBS CREEK
HORIZONTAL DIRECTIONAL DRILL
PLAN AND PROFILE

HOPEWELL AND EWING TOWNSHIPS
UPPER MAKEFIELD TOWNSHIP

MERCER COUNTY, NEW JERSEY
BUCKS COUNTY, PENNSYLVANIA

OLD DRAWING NO.

DWG. NO. 38-16332-EXHIBIT-301

REV. NO. 0

pennsylvania
FISH AND BOAT COMMISSION

October 11, 2022

Anneke van Rossum
925 Canal St, Suite 3701
Bristol, PA 19007
e-mail: anneke@delawareriverkeeper.org

Dear Anneke van Rossum:

Thank you for your request to the Pennsylvania Fish and Boat Commission (PFBC) for information pursuant to the Pennsylvania Right-To-Know Law, 65 P.S. §§ 67.101, *et seq.* (RTKL). Your request was received in this office on September 7, 2022 , and on September 14, 2022 we notified you of the need for an extension therefore a reply is due to you by October 14, 2022. You requested the following records:

> The Delaware Riverkeeper Network requests all electronic PDF copies of the Species Impact Review regarding the Jacobs Creek Pipeline Replacement Project in Upper Makefield Township, Bucks County, PNDI Search No. 683927_1 . This includes letters, reports, correspondences, and habitat assessments regarding the project from June 2019 to the present.

Our review is complete, and your request is granted. The files you've requested are attached.

If you have further questions, please do not hesitate to call me. This correspondence will serve to close this record with our office as permitted by law.

Respectfully,

Bernard M. Matscavage
Agency Open Records Officer
Director, Bureau of Administration

cc: Wayne Melnick, Esq.

Pennsylvania Fish & Boat Commission
established 1866

Division of Environmental Services
Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

June 12, 2019

IN REPLY REFER TO
SIR# 51347

STV, Inc.
James McGinley
205 W. Welsh Drive
Douglassville, Pennsylvania 19518

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 683917_1
Jacobs Creek Pipeline Replacement
BUCKS County: Upper Makefield Township

Dear James McGinley:

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 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*, PA threatened)

Based on the review of this information and the proximity of the project to known element occurrences of the Eastern Redbelly Turtle (Delaware River and Delaware Canal), nesting areas for the redbelly turtle could be present within the proposed disturbance area. Therefore, I recommended that no construction be conducted during the redbelly turtle nesting and hatching season, **May 15th to October 15th.**

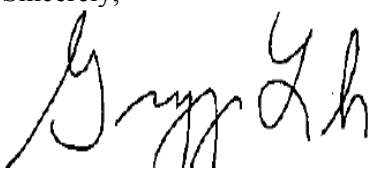
Provided this stipulation is met, I do not foresee any adverse impacts to the Eastern Redbelly Turtle from the proposed project. **Should the above timing restriction not be feasible, conservation measures may be necessary to avoid impacts, therefore consultation should be reinitiated.**

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 Greg Lech at 610-847-8772 and refer to the SIR # 51347. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,



Greg Lech
Natural Gas Section

GPL/dn

Pennsylvania Fish & Boat Commission
established 1866

Division of Environmental Services
Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

August 29, 2019

IN REPLY REFER TO
SIR# 51347

STV, Inc.
James McGinley
205 W. Welsh Drive
Douglassville, Pennsylvania 19518

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 683917_1
Jacobs Creek Pipeline Replacement
BUCKS County: Upper Makefield Township

Dear James McGinley:

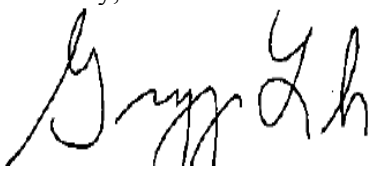
This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search. The Pennsylvania Fish and Boat Commission provided a consultation letter dated June 12, 2019, outlining potential impacts to the Eastern Redbelly Turtle (*Pseudemys rubriventris*). In response, Scott Bush, GHD, submitted a habitat assessment to describe the habitat on-site.

I concur with the conclusions of the evaluation and I do not foresee the proposed project resulting in adverse impacts to the Eastern Redbelly Turtle (*Pseudemys rubriventris*).

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 Greg Lech at 610-847-8772 and refer to the SIR # 51347. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,



Greg Lech
Natural Gas Section

GPL/dn

pennsylvania
FISH AND BOAT COMMISSION

September 13, 2022

IN REPLY REFER TO
SIR# 51347

STV, Inc.
James McGinley
205 W. Welsh Drive
Douglassville, Pennsylvania 19518

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 683917_2
Jacobs Creek Pipeline Replacement
Upper Makefield Township: BUCKS County

Dear James McGinley:

This responds to your updated 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 and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the 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 and Boat Code (Chapter 75), or the Wildlife Code.

Northern Red-bellied Cooter (*Pseudemys rubriventris*, Threatened).

Previous consultation for this project resulted in submission of a habitat assessment, performed by Scott Bush, GHD, to describe the habitat on-site. Additionally, based on your September 6, 2022, update, no changes to the project or onsite conditions have occurred since the original review.

We concur with the results of the habitat assessment and no changes to the available species data have occurred; therefore, we do not foresee the proposed project resulting in adverse impacts to the Northern Red-bellied Cooter (*Pseudemys rubriventris*).

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 Gregory Lech at 814-470-6776 or glech@pa.gov and refer to the SIR # 51347. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Gregory Lech
Resource Extraction Section

/GPL/dn

August 16, 2019 Reference No.11200878

Mr. Greg Lech
Pennsylvania Fish and Boat Commission
Natural Gas Section
595 E. Rolling Ridge Drive
Bellefonte, PA 16823

Dear Mr. Lech:

Re: SIR# 51347
PNDI Search No. 683917_1
Redbelly Turtle Nesting Habitat Assessment
Jacobs Creek Pipeline Replacement
Upper Makefield Township, Bucks County, Pennsylvania

GHD Services, Inc. (GHD) was retained by STV Energy Services Inc (STV) to conduct an eastern redbelly turtle (*Pseudemys rubriventris*) nesting habitat assessment for the Jacobs Creek Pipeline Replacement project in Upper Makefield Township, Bucks County, Pennsylvania. The location of the Site is shown on the USGS topographic map provided as Figure 1. An aerial photograph showing the project area, existing conditions, and proposed limits of temporary disturbance (temporary workspace) is provided as Figure 2. Activities proposed within the temporary workspace include horizontal directional drilling, pullback, access and staging.

A Pennsylvania Natural Diversity Inventory Search (PNDI Search No. 683917_1) was conducted for the project that identified a potential conflict with a threatened species under the jurisdiction of the Pennsylvania Fish and Boat Commission (PFBC). In a correspondence dated June 12, 2019, the PFBC identified the eastern redbelly turtle as the potential project conflict and requested a seasonal work restriction during the redbelly turtle nesting and hatching season (May 15th to October 15th), given the proximity of the project to the Delaware River and Delaware Canal. A copy of PFBC's June 12, 2019 letter is provided in Attachment A.

In response to PFBC's correspondence and at the request of STV, Mr. Scott Bush, an agency-approved redbelly turtle surveyor, conducted a nesting habitat assessment on July 23, 2019 in the project area. Given the timing of the habitat assessment, it was assumed that if the temporary workspace was being utilized by turtles for nesting, evidence of nesting would be observable. This report provides the methodology and results of GHD's nesting habitat assessment.

1. Habitat Requirements for the Eastern Redbelly Turtle

The eastern redbelly turtle (*Pseudemys rubriventris*) is a state-listed threatened species known to occur in the Delaware River. The redbelly turtle is a large, aquatic species, which primarily inhabits open water,

such as, ponds, lakes, relatively large, deep, and slow-moving creeks, rivers, and canals, as well as, large marshes. This species is known to frequent brackish water at the mouth of a river or canal, but is primarily a fresh water turtle. Ample basking sites, sufficient aquatic vegetation for foraging activities, and a soft sandy or muddy substrate for overwintering are important components of redbelly turtle habitat. Suitable nesting sites in upland areas are also an essential habitat requirement.

Suitable nesting sites are typically located in well-drained or excessively-drained sandy or loamy soils with a relatively open canopy to allow sunlight to warm the soil and aid in development of the eggs. Nests sites are located at higher elevations than the water body to keep the eggs from becoming submersed beneath the water for prolonged periods of time. Nests have been observed in areas with and without ground vegetation. The nesting season is generally from mid-May through July. A gravid female may travel more than 800 feet (250m) from water to locate a suitable nesting site. However, nests are generally located within 300 feet (90m) or closer from suitable aquatic habitats. An abundance of mammalian predators (skunk, fox, raccoon, house cats, etc.) can have a detrimental effect on the survival of redbelly turtle eggs and hatchlings.

2. Methodology of Nesting Habitat Assessment

Mr. Scott Bush, an agency-approved surveyor, conducted a nesting habitat assessment on July 23, 2019 and observed the key physical and biological attributes occurring within the project area to determine if suitable redbelly turtle nesting habitat was present or absent. GHD assessed the soils and vegetation within the project area as well as access from the Delaware River and Delaware Canal to determine the suitability for nesting by redbelly turtles. Given the timing of the habitat assessment during the end of the typical nesting season, GHD also looked for evidence of nests and nesting activity (ground disturbance, test pits, nests, vegetation disturbance, eggs, eggshell fragments, etc.).

3. Project Area Description

As shown on the USGS Map (Figure 1), the project area is generally located north of Oakdale Road, between the Delaware River and Delaware Canal. Hughes Creek, a tributary to the Delaware River, occurs to the east of the temporary workspace. The project area lies within the floodplain of Hughes Creek and the Delaware River and is relatively flat, with elevations ranging from 40 to 44 feet above mean sea level. The project area very gently slopes east towards Hughes Creek and the Delaware River. As shown on the aerial photograph (Figure 2), the project area consists primarily of maintained residential lawn and active horse pasture. Wooded areas occur to the east, along Hughes Creek and between the temporary workspace and the Delaware River.

The habitat within the temporary workspace consists of maintained residential lawn and horse pasture within the floodplain. The dominant vegetation consists of herbaceous species tolerant of grazing and regular mowing including stilt grass (*Microstegium vimineum*), ground ivy (*Glechoma hederacea*), curled dock (*Rumex crispus*), white clover (*Trifolium repens*), lady's thumb (*Polygonum persicaria*), common

crabgrass (*Dactylis glomerata*), dogbane (*Apocynum* sp.), English plantain (*Plantago major*), common plantain (*Plantago lanceolata*) and field pennycress (*Thlaspi arvense*). The horse pasture and lawn areas include scattered individual trees consisting of sycamore (*Platanus occidentalis*), green ash (*Fraxinus pennsylvanica*), black walnut (*Juglans nigra*), eastern red cedar (*Juniperus virginiana*), southern catalpa (*Catalpa speciosa*), black cherry (*Prunus serotina*), bald cyprus (*Taxodium distichum*), weeping willow (*Salix babylonica*) and Bradford pear (*Pyrus calleryana*).

The project area is relatively low-lying and relatively flat. The surface soils within the project area were observed to consist of floodplain silt loams and did not appear to be well-drained soils favored by the eastern redbelly turtle for nesting. Much of the project area is dominated by plant species tolerant of moist soil conditions.

Color photographs of the project area and existing conditions are provided as Attachment B.

4. Results of Nesting Habitat Assessment

On July 23, 2019, GHD walked the project area and documented the habitat types occurring within and adjoining the temporary workspace and their potential to provide nesting habitat. The Delaware River and Delaware Canal are known aquatic habitats for the eastern redbelly turtle. Despite being in proximity to these known aquatic habitats, the project area is separated from these areas by wide open lawn areas. Additionally, the project area is continually disturbed by human and livestock activities (mowing and grazing) resulting in sub-optimal conditions for nesting by the redbelly turtle.

Moreover, the project area lies within the floodplain and does not contain areas that appeared well or excessively drained and thus favorable for redbelly turtle nesting. Based on the moist soil conditions observed and the continual mowing and horse grazing in this area, GHD determined that project area provides poor nesting habitat for redbelly turtles. Given the timing of the nesting habitat assessment, during the active nesting period, GHD also examined the ground surface within the project area for signs of nesting. No evidence of turtle nesting activity (nests, empty nest excavations, eggs or eggshell fragments) was observed in the project area.

5. Conclusions

The habitats within the project area consist of residential mowed lawn and horse pasture characterized by floodplain soils. These conditions result in the project area being poor nesting habitat for the eastern redbelly turtle. Additionally, no signs of nesting or nesting turtles were observed during our July 23, 2019 site visit. Based on these findings, it is GHD's opinion that redbelly turtles are not currently utilizing the project area for nesting purposes and that the proposed temporary project disturbance will not impact redbelly turtles or their habitats.

We look forward to your review, recommendations, and project approval. If you have any questions or require any additional information, please contact me at 610-646-7486 or scott.bush@ghd.com.

Sincerely,

GHD

Scott E. Bush, PWS

CM/sb/1

Encl.

cc: Jim McGinley, STV

Figures

Energy Transfer 14-inch Twin Oaks to Newark Directional Drill
Upper Makefield Township, Bucks County, Pennsylvania

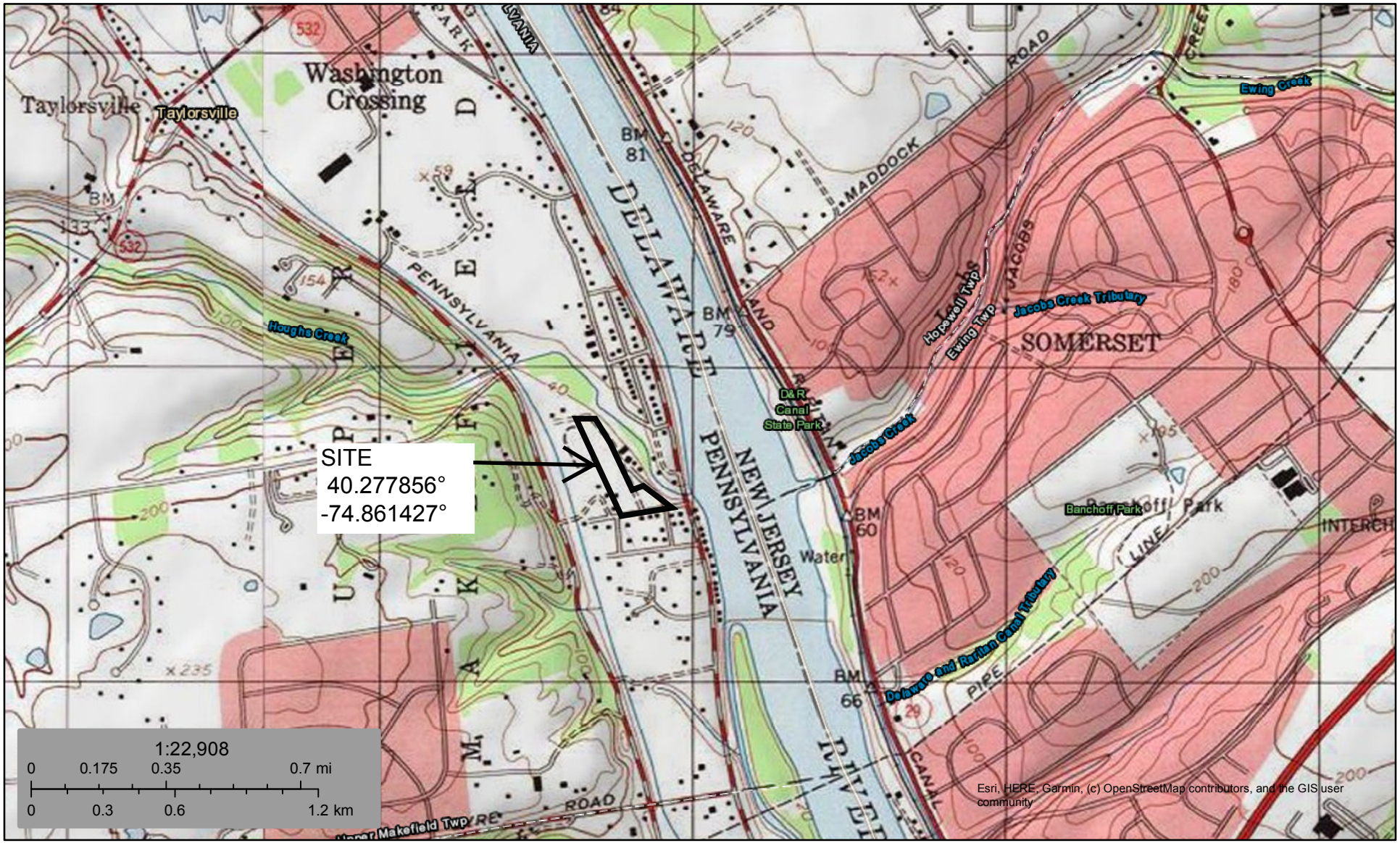


FIGURE 1
USGS MAP

PLAN
SCALE: 1"=60'

LEGEND:

- TEMPORARY WORKSPACE (MATTED)
- TEMPORARY WORKSPACE (STONE)
- TEMPORARY WORKSPACE

CONFIDENTIAL

GRAPHIC SCALE
1"=60' 60' 0 60' 120'

NOTES/REFERENCE DRAWINGS

STV
Baltimore, MD Bismarck, ND Denver, CO Douglasville, PA Houston, TX Pittsburgh, PA Williamsport, PA

THE LOCATION OF FACILITY SUBSURFACE STRUCTURES, EQUIPMENT, UTILITIES OR PIPING MAY NOT BE SHOWN HEREON. IF SHOWN, LOCATION MUST BE CONSIDERED AS APPROXIMATE ONLY. FOLLOW REQUIRED ONE-CALL OR FACILITY PROCEDURES PRIOR TO EXCAVATING OR PROBING TO DETERMINE ACTUAL CONDITIONS.

STV PROJECT No.: 38-16332

REV	DESCRIPTION	BY	DATE	CHK'D	APP'D

FACILITY CODE OR ACCOUNT NO:
CONSTRUCTION YEAR:

	BY	DATE
DRAWN	RFG	XX/XX/XX
CHECK	MWS	
APPROVED		

SCALE: AS-SHOWN

ENERGY TRANSFER

14-INCH TWIN OAKS TO NEWARK
JACOBS CREEK HORIZONTAL DIRECTIONAL DRILL
PIPELINE RELOCATION

UPPER MAKEFIELD TOWNSHIP BUCKS COUNTY, PENNSYLVANIA
HOPEWELL AND EWING TOWNSHIPS MERCER COUNTY, NEW JERSEY

AFE NO.

FIGURE 2

OLD DRAWING NO.

DRAWING NO. 38-16332-C-702

REV. NO. 0

FILENAME: i:\Projects\3816332\3816332_000\90_CAD Models And Sheets\04_C_Civil\38-16332-C-7PA.dwg PLOTTED: 6/21/2019 1:54:53 PM PLOTTED BY: ----

Attachment A
PFBC June 12, 2019 Correspondence

Pennsylvania Fish & Boat Commission
established 1866

Division of Environmental Services
Natural Gas Section
595 E Rolling Ridge Dr.
Bellefonte, PA 16823

June 12, 2019

IN REPLY REFER TO
SIR# 51347

STV, Inc.
James McGinley
205 W. Welsh Drive
Douglassville, Pennsylvania 19518

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 683917_1
Jacobs Creek Pipeline Replacement
BUCKS County: Upper Makefield Township

Dear James McGinley:

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 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*, PA threatened)

Based on the review of this information and the proximity of the project to known element occurrences of the Eastern Redbelly Turtle (Delaware River and Delaware Canal), nesting areas for the redbelly turtle could be present within the proposed disturbance area. Therefore, I recommended that no construction be conducted during the redbelly turtle nesting and hatching season, **May 15th to October 15th.**

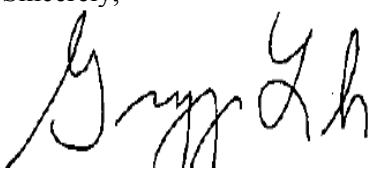
Provided this stipulation is met, I do not foresee any adverse impacts to the Eastern Redbelly Turtle from the proposed project. **Should the above timing restriction not be feasible, conservation measures may be necessary to avoid impacts, therefore consultation should be reinitiated.**

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 Greg Lech at 610-847-8772 and refer to the SIR # 51347. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,



Greg Lech
Natural Gas Section

GPL/dn

Attachment B
Photographs

Photo 1- Looking north at northern end of horse pasture

Photo 2- Looking west at northern end of horse pasture

Photo 3- Looking south at northern end of horse pasture

Photo 4- Looking west at central part of horse pasture and horse stalls.

Photo 5- Looking west at southern portion of horse pasture.

Photo 6- Looking north from southern end of horse pasture.

Photo 7- Looking east at residential lawn from southern end of horse pasture.

Photo 8- Looking north at residential lawn from Oakdale Ave.

1. PROJECT INFORMATION

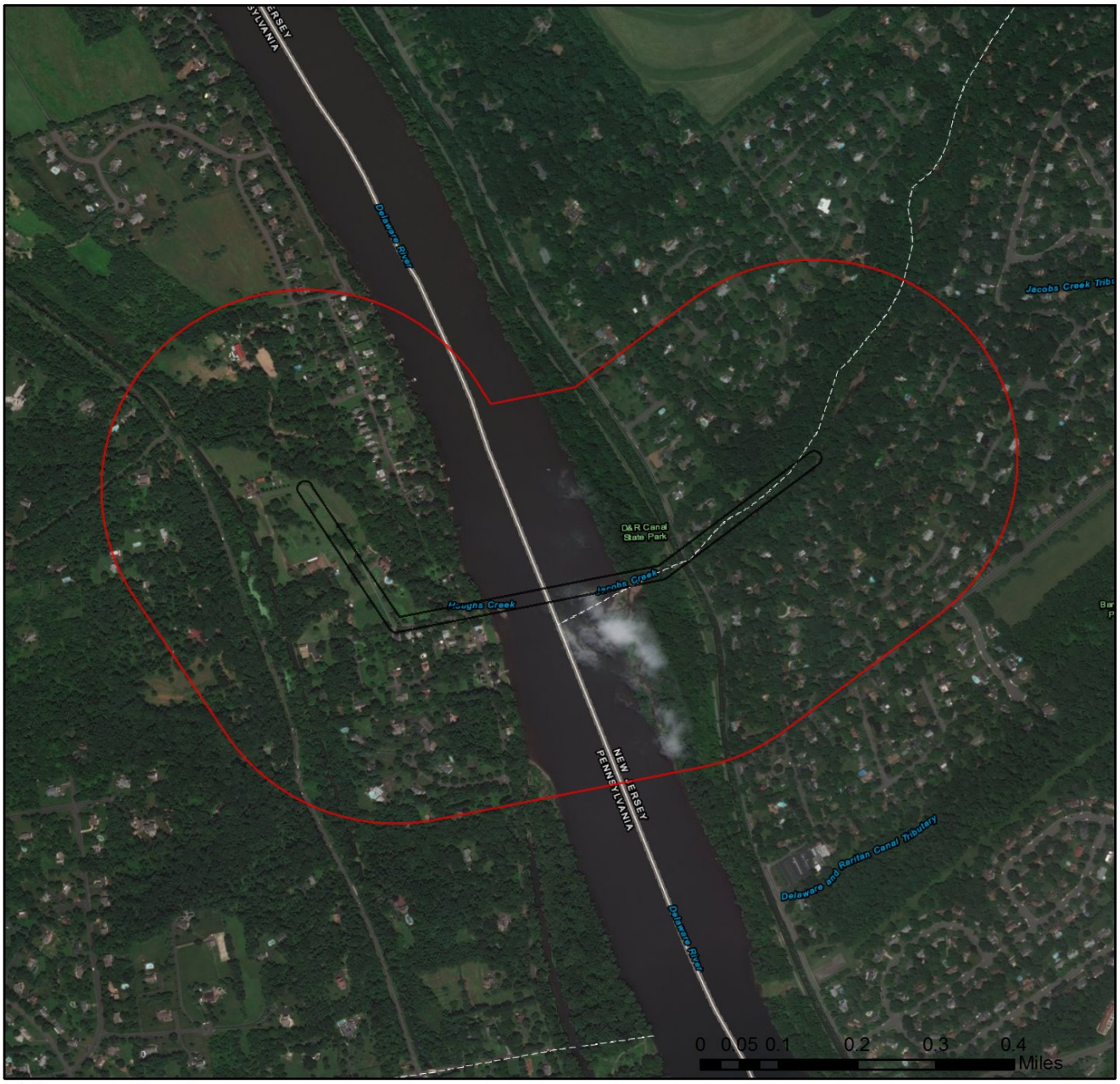
Project Name: **Jacobs Creek Pipeline Replacement**
Date of Review: **5/22/2019 10:11:39 AM**
Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW (construction of new line in a new location)**
Project Area: **9.93 acres**
County(s): **Bucks**
Township/Municipality(s): **UPPER MAKEFIELD**
ZIP Code: **18977**
Quadrangle Name(s): **PENNINGTON**
Watersheds HUC 8: **Middle Delaware-Musconetcong**
Watersheds HUC 12: **Buck Creek-Delaware River; Jacobs Creek-Delaware River**
Decimal Degrees: **40.277867, -74.856544**
Degrees Minutes Seconds: **40° 16' 40.3210" N, 74° 51' 23.5590" W**

2. SEARCH RESULTS

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

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.

Jacobs Creek Pipeline Replacement

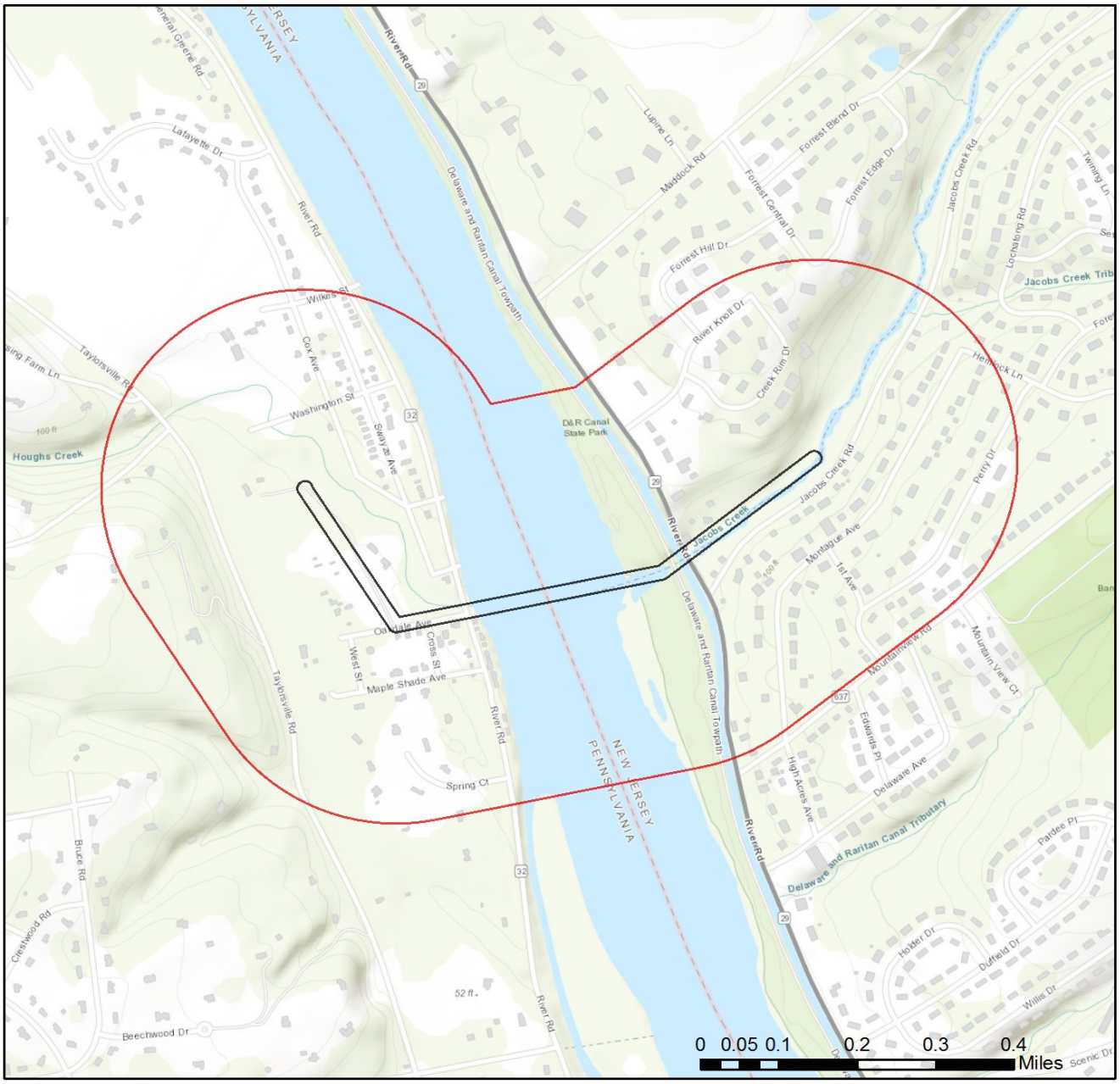


Project Boundary

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, (c) OpenStreetMap contributors, and the GIS user community

Jacobs Creek Pipeline Replacement



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. "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 NO 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.)

Q2: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).
Your answer is: No forests, woodlots or trees will be affected by the project.

Q3: 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

Q4: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: No

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

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
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). 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). 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

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

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
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name:_____
Company/Business Name:_____
Address:_____
City, State, Zip:_____
Phone:(_____)_____Fax:(_____)_____
Email:_____

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 date

1. PROJECT INFORMATION

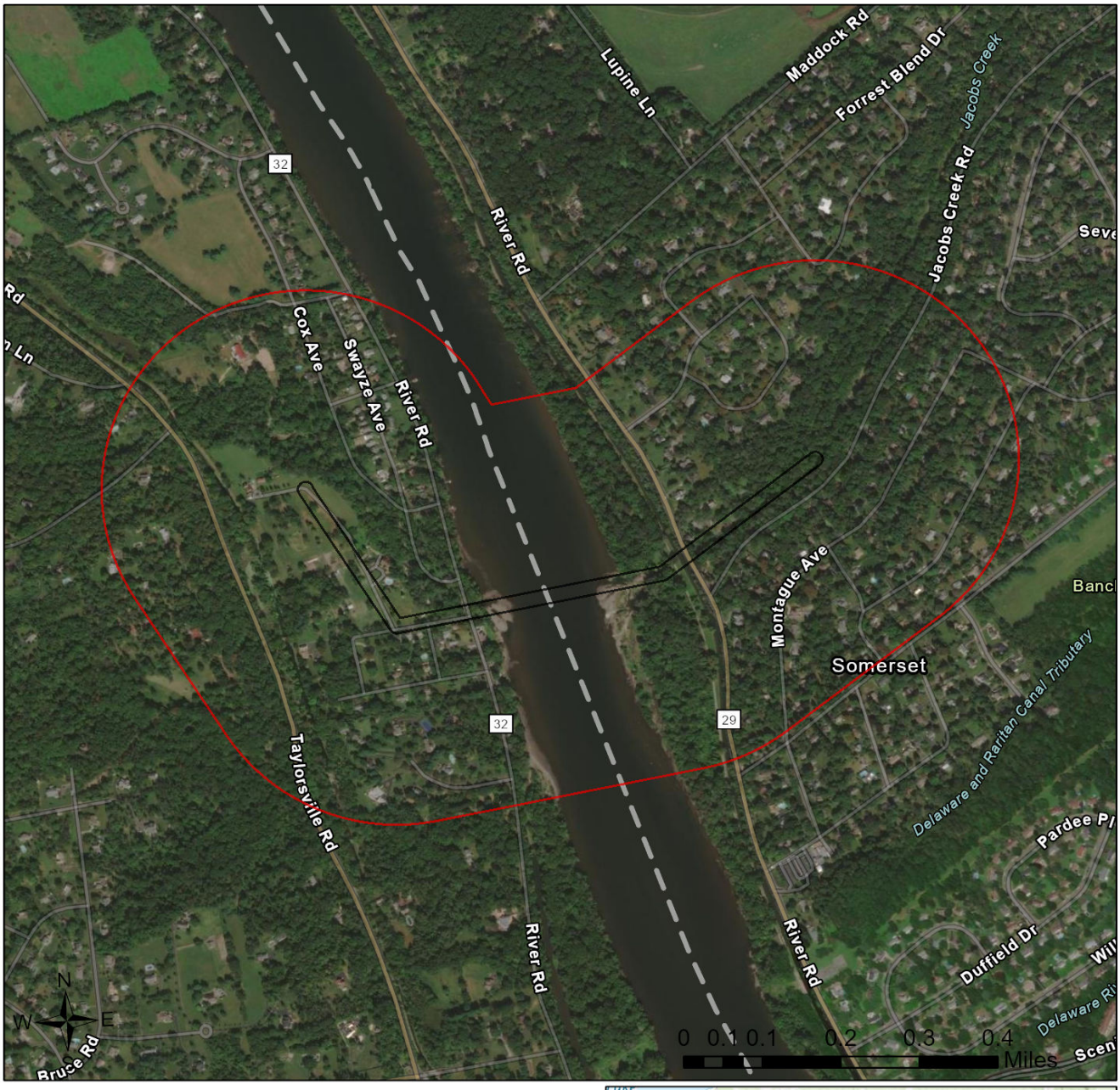
Project Name: **Jacobs Creek Pipeline Replacement**
Date of Review: **9/2/2022 08:37:10 AM**
Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW (construction of new line in a new location)**
Project Area: **9.93 acres**
County(s): **Bucks**
Township/Municipality(s): **UPPER MAKEFIELD TOWNSHIP**
ZIP Code:
Quadrangle Name(s): **PENNINGTON**
Watersheds HUC 8: **Middle Delaware-Musconetcong**
Watersheds HUC 12: **Buck Creek-Delaware River; Jacobs Creek-Delaware River**
Decimal Degrees: **40.277867, -74.856544**
Degrees Minutes Seconds: **40° 16' 40.3210" N, 74° 51' 23.5590" W**

2. SEARCH RESULTS

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

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.

Jacobs Creek Pipeline Replacement

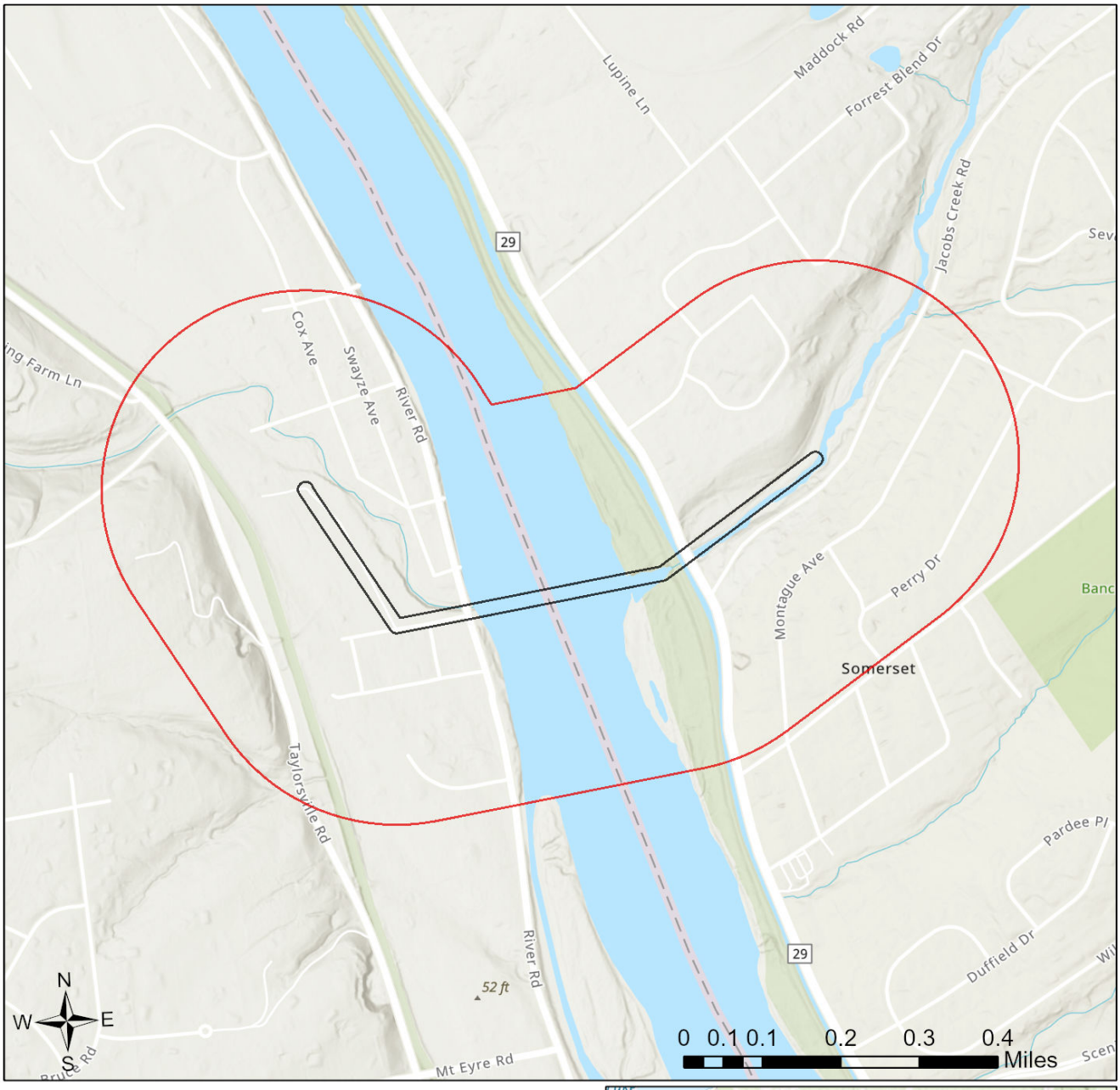


Buffered Project Boundary

Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

Jacobs Creek Pipeline Replacement



Buffered Project Boundary

Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap 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. "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 (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that NO 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.)

Q2: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).
Your answer is: No forests, woodlots or trees will be affected by the project.

Q3: 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: No

Q4: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: No

Q5: Select the statement below that accurately describes where the proposed project and project-associated activities will occur. "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.).
Your answer is: No project activities will occur in a waterway or waterbody (river, creek, stream, tributary, lake, pond), or on the banks of a waterway or waterbody, but some project activities will occur within 100 feet of a waterway/waterbody or its banks.

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 jursidictional 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:

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

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
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 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). 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

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
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

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: James McGinley
Company/Business Name: STV Inc
Address: 205 West Welsh Drive
City, State, Zip: Douglassville, PA 19518
Phone: (610) 655-7654 Fax: ( )
Email: jim.mcginley@stvinc.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

9/6/22
date

1. PROJECT INFORMATION

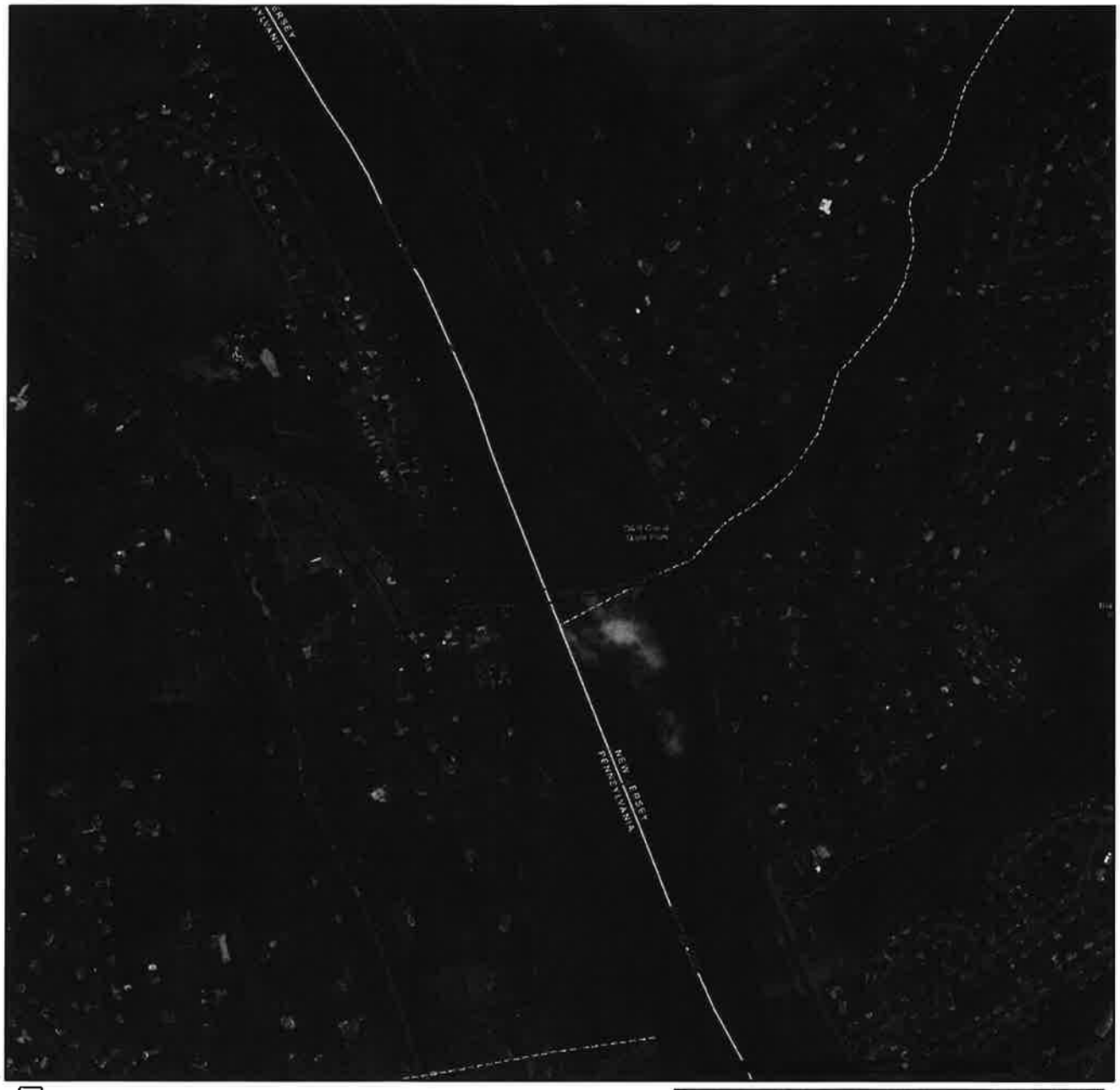
Project Name: **Jacobs Creek Pipeline Replacement**
Date of Review: **5/22/2019 10:11:39 AM**
Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW (construction of new line in a new location)**
Project Area: **9.93 acres**
County(s): **Bucks**
Township/Municipality(s): **UPPER MAKEFIELD**
ZIP Code: **18977**
Quadrangle Name(s): **PENNINGTON**
Watersheds HUC 8: **Middle Delaware-Musconetcong**
Watersheds HUC 12: **Buck Creek-Delaware River; Jacobs Creek-Delaware River**
Decimal Degrees: **40.277867, -74.856544**
Degrees Minutes Seconds: **40° 16' 40.3210" N, 74° 51' 23.5590" W**

2. SEARCH RESULTS

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

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.

Jacobs Creek Pipeline Replacement



☐ 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, (c) OpenStreetMap contributors, and the GIS user community

Jacobs Creek Pipeline Replacement

☐ 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. "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 NO 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.)

Q2: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).
Your answer is: No forests, woodlots or trees will be affected by the project.

Q3: 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

Q4: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: No

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

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
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). 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). 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

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

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
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: James McGinley
Company/Business Name: STV Energy Services
Address: 205 West Welsh Dr
City, State, Zip: Douglassville, PA 19518
Phone: (610) 655-7654 Fax: ( )
Email: jim.mcginley@stvinc.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

6/5/19
date