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November 26, 2024

**VIA ELECTRONIC DELIVERY**Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, Second Floor  
Harrisburg, Pennsylvania 17120**Re: Joint Letter of Notification Filing of Mid-Atlantic Interstate Transmission, LLC and FirstEnergy Pennsylvania Electric Company for the Geneva–Morgan Street 115 kV GMO Transmission Line Tap Project in Greenwood Township, Crawford County, Pennsylvania**  
**Docket No. \_\_\_\_\_**

Dear Secretary Chiavetta:

Enclosed for filing on behalf of Mid-Atlantic Interstate Transmission, LLC. (“MAIT”) and FirstEnergy Pennsylvania Electric Company (“FE PA”) is a Joint Letter of Notification (“LON”), requesting approval for the Geneva–Morgan Street 115 kV GMO Transmission Line Tap Project (“Project”). This LON is filed pursuant to the Pennsylvania Public Utility Commission’s (“Commission”) regulations at 52 Pa. Code § 57.72(d). Copies of this LON or a Notice of Filing have been served upon the parties as required by 52 Pa. Code § 57.74 and noted in the attached Certificate of Service.

MAIT and FE PA respectfully request Commission review and approval of the LON on or before the January 23, 2025 Public Meeting in order to allow construction to commence on or about February 1, 2025, in coordination with scheduled outages.

If you have any questions pertaining to this matter, please do not hesitate to contact me.

Sincerely,



Joey Chen  
Attorney ID #334709  
76 South Main St.  
Akron, OH 44308  
(610) 921-6784  
Email: [jchen@firstenergycorp.com](mailto:jchen@firstenergycorp.com)

*Counsel for Mid-Atlantic Interstate Transmission, LLC  
and FirstEnergy Pennsylvania Electric Company*

Enclosures

cc: Deb Backer – Bureau of Technical Utility Services (via electronic service)  
Jordan Van Order – Bureau of Technical Utility Services (via electronic service)



2. FE PA is a public utility and wholly owned subsidiary of FirstEnergy that provides transmission and distribution service to about 2,108,000 electric utility customers within approximately 32,400 square miles across the Commonwealth of Pennsylvania. FE PA is subject to the jurisdiction of the Commission over the siting and construction of transmission lines pursuant to Chapter 57, Subchapter G, of the Commission's regulations. *See* 52 Pa. Code §§ 57.71 - 57.77.

3. The addresses of MAIT's and FE PA's principal business offices are:

Mid-Atlantic Interstate Transmission, LLC 76 South Main Street Akron, OH 44308	FirstEnergy Pennsylvania Electric Company 800 Cabin Hill Drive Greensburg, PA 15601
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4. MAIT and FE PA are jointly represented in this matter by the following attorney, who is authorized to receive notices and communications on the Companies' behalf:

Joey T. Chen  
Attorney ID #334709  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308  
(610) 921-6784  
Email: [jchen@firstenergycorp.com](mailto:jchen@firstenergycorp.com)

MAIT and FE PA agree to accept electronic service in this proceeding.

5. MAIT and FE PA also request that a copy of all notices and communications regarding this matter be sent to:

Michael DeSarro  
Transmission Specialist II  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308  
(330)384-3721  
Email: [madesarro@firstenergycorp.com](mailto:madesarro@firstenergycorp.com)

6. The Companies provide the following attached exhibits in support of this LON:
- **Exhibit 1:** a topographic map depicting the general location of the proposed Project;
  - **Exhibit 2:** an overview depicting the general layout of the Project;
  - **Exhibit 3:** a depiction of the general configuration for a single circuit wood pole equivalent tubular steel tap structure vertical single pole;
  - **Exhibit 4:** a depiction of the general configuration for a single circuit wood pole structure horizontal post delta single pole angle, 0° to 2°;
  - **Exhibit 5:** a depiction of the general configuration for a single circuit tubular steel unitized 1200A Switch Structure;
  - **Exhibit 6:** a copy of the PJM RTEP Committee May 16, 2024 Need Meeting and June 13, 2024 Solution Meeting Slides;
  - **Exhibit 7:** a copy of the Waters Delineation Report prepared by Civil & Environmental Consultants, Inc., dated August 2024.
  - **Exhibit 8:** a copy of the Pennsylvania Natural Diversity Inventory review report, dated July 26, 2024; and
  - **Exhibit 9:** a copy of the Pennsylvania State Historic Preservation Office clearance letter, dated August 20, 2024.

7. For this Project, the Companies propose to install a transmission line tap from the existing Geneva–Morgan Street 115 kV GMO Transmission Line (“Existing Line”) to a proposed substation owned by FE PA’s end customer, Vitro Meadville Flat Glass, LLC (“Vitro Glass” or “End Customer”) in order to provide 115 kV electrical service for the End Customer. This Project is located in Greenwood Township, Crawford County, Pennsylvania. A depiction of the general location of the Project is attached as **Exhibit 1**. A depiction of the general layout of the Project is attached as **Exhibit 2**. As shown in Exhibit 2, MAIT will extend a new 115 kV transmission line approximately 250 feet from a new tap structure, Structure #5A, to Vitro Glass’s new substation (“Vitro Glass Substation”). The centerline of the proposed new 115 kV transmission line tap will be located on a new 100-ft. right-of-way (“ROW”), and all rights have been secured for this Project. MAIT will construct the transmission line and own the line segment from the new Structure #5A along the Existing Line to a new point of interconnection (POI#1) with FE PA,

marked by new Structure #5C. FE PA will own the last span of the line extension, as a distribution facility, from Structure #5C to the End Customer's substation termination point—i.e., second point of interconnection (POI#2). The two points of interconnection are reflected in Exhibit 2. As such, the Project meets the parameters of 52 Pa. Code § 57.72 (d)(1)(vi) for filing a Letter of Notification in lieu of a full application for a transmission line having a proposed route of less than two miles.

8. The proposed Project will require the removal of two existing wood structures, Structures #4 and #5, currently along the centerline of the Existing Line. Four (4) new structures will be installed along the Existing Line as a part of this Project to support the proposed tap line. The new structures will consist of the following: one (1) single circuit wood pole equivalent steel tap structure, Structure #5A, as shown in **Exhibit 3**; one (1) single circuit wood pole structure, Structure #4, as shown in **Exhibit 4**; and two (2) single circuit switch steel poles on drilled shaft foundations, Structures #5 and #5B, as shown in **Exhibit 5**. Proposed Structures #5 and #5B will be installed along the Existing Line. Additionally, one (1) single circuit switch steel pole on a drilled shaft foundation—Structure #5C, as shown in Exhibit 5—will be installed on the proposed line extension to the new Vitro Glass Substation. The proposed new steel structures will have porcelain insulators, and the new wood pole will have polymer post insulators. The heights of the proposed structures will range from 65' to 72'-6".

9. The existing shield wire (3/8" EHS Steel) and conductor (636 kcmil 24/7 Strand "Rook" ACSR) on the Existing Line will be transferred to the four (4) new structures that will be installed along the Existing Line. Approximately 250 feet of new 7#8 Alumoweld shield wire and 795 kcmil 26/7 Strand "Drake" ACSR conductor will be installed on the new tap line to the Vitro Glass Substation.

10. The design, construction, and operation of the Project will meet or exceed all applicable safety standards established by the Occupational Safety and Health Administration (“OSHA”). Moreover, the Project will be constructed following MAIT’s and FE PA’s standard construction practices to perform all work safely. All work will be performed in accordance with NESC, OSHA and all other applicable state and federal requirements.

11. The transmission line extension will be designed to meet or exceed all requirements of the latest revision of the National Electrical Safety Code (“NESC”) under all operating conditions as well as current MAIT design criteria. These criteria state that 115 kV transmission lines shall have a designed vertical conductor-to-ground clearance of 26 feet. This design value exceeds the NESC minimum of 20.1 feet by a margin of 5.9 feet. In general, MAIT design clearance criteria exceed NESC minimums by various margins, ranging from two feet to seven feet or more, which are dependent on the voltage and specific objects. The maximum operating temperature for the proposed 115 kV transmission line extension will be 212 degrees Fahrenheit.

12. The Project is needed to provide a new 115 kV retail delivery point to End Customer, Vitro Glass. The End Customer requested the proposed delivery point for electric service to a new glass production line. The proposed load addition is approximately 31 MVA. The Project is not part of a larger project/initiative and is solely needed to provide the requested new 115 kV retail delivery point.

13. The entirety of the proposed Project will consist of tapping the Geneva–Morgan Street 115 kV GMO Transmission Line, installing three 115 kV transmission line switches, constructing approximately one to two spans of 115 kV transmission line for the extension, adjusting remote end-relay settings, integrating customer protection and controls, and installing a 115 kV revenue meter (collectively the “direct connection facilities”). All three 115 kV

transmission line switches will be outfitted with Supervisory Control and Data Acquisition (“SCADA”). All new network path components associated with the proposed Project will be sized such that the new equipment will not reduce the present rating of the Existing Line. The Project will be designed in accordance with FirstEnergy’s “Requirements for Transmission Connected Facilities” document (Figure 1B).<sup>1</sup>

14. PJM Interconnection, LLC (“PJM”) is the regional transmission organization for Pennsylvania and 12 other states plus the District of Columbia. PJM functions as the regional transmission planning coordinator, transmission planner, and transmission operator to preserve the reliability of the bulk electricity grid under its operational control. The PJM planning process culminates in a PJM Board-approved Regional Transmission Expansion Plan (“RTEP”), which identifies the need and timing of transmission system upgrades and enhancements that will provide for the operational, economic, and reliability requirements of PJM customers. The RTEP consists of system upgrades produced from one or more of four planning processes: reliability planning; economic planning; interconnection planning; and local planning.

15. The proposed Project is a “Supplemental Project,” or upgrade, initiated by a Transmission Owner (“TO”)—e.g., MAIT—as part of PJM’s local planning process, which is governed by Attachment M-3 of the PJM Open Access Transmission Tariff.<sup>2</sup> In accordance with the Attachment M-3 process, FirstEnergy provides information regarding the criteria used to plan and identify Supplemental Projects at a PJM Assumptions Meeting. The process for developing Supplemental Projects requires the identification and review of a system “need” at a meeting of

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<sup>1</sup> <https://firstenergycorp.com/content/dam/feconnect/files/wholesale/Requirements-for-Transmission-Connected-Facilities.pdf>

<sup>2</sup> MAIT’s supplemental upgrades typically involve, among other things, a request for electric service from new or existing customers and/or a project identified pursuant to FirstEnergy’s Reliability Enhancement methodology.

the PJM Subregional RTEP (“SRRTEP”) Committee, which provides an opportunity for industry stakeholders to comment on the project need. Next, there is a “solutions” meeting where a proposed solution to the previously identified need is presented along with any alternatives that were considered. Stakeholders may then provide comments on the proposed solution. Once PJM completes a “do-no-harm” analysis of the proposed project, PJM will assign the project a Supplemental Identifier beginning with an “s” followed by a four-digit number. Supplemental upgrades, while part of the local planning process, are not mandated or directed by PJM; however, the upgrades are necessary in order to address planning functions not transferred to PJM (e.g., asset management and customer interconnections).

16. In accordance with the Attachment M-3 process, the need for the proposed Project was presented at a PJM SRRTEP – Mid Atlantic “Needs” meeting on May 16, 2024, and then later at a “Solutions” meeting on June 13, 2024. A copy of the Companies’ SRRTEP – Mid Atlantic Need and Solution presentation slides is attached as **Exhibit 6**. PJM assigned the proposed Project the Supplemental Project ID Number s3436.1. MAIT and PJM Transmission Planning evaluated the proposed load addition and did not identify any MAIT or PJM Planning Criteria violations attributable to the load addition. Therefore, no transmission system upgrades are required as a result of the proposed load addition other than the required direct connection facilities necessary to provide electric service to the End Customer.

17. A field review for wetlands and streams in the Project Area was conducted in July 2024 by Civil & Environmental Consultants, Inc., and a copy of the Waters Delineation Report—i.e., a wetland and stream identification report—dated August 2024 is included as **Exhibit 7**. As a result of the field review, wetland impacts are anticipated during construction. Impacts will be in the form of temporary crossings of wetlands associated with equipment access, work areas, and

minimal permanent wetland impacts at the pole location for two switch structures and the aerial crossing of the new utility line. Timber matting will be utilized for equipment crossings of wetlands and non-existing roads and work areas are expected to be temporary. The delineation identified three wetlands, some with multiple parts, including Palustrine Emergent (PEM), Palustrine Scrub-Shrub (PSS), and Palustrine Forested (PFO). The wetlands are located within and along the edges of the existing ROW, and all but one wetland is open-ended at the delineation boundary. No streams or other waters were identified within the delineation boundary.

18. A General National Pollutant Discharge Elimination System (“NPDES”) Permit will be required for the Geneva-Morgan St. 115 kV GMO Transmission Line Project. A NPDES permit application will be submitted to the Crawford County Conservation District for approval. The pole construction, workspaces, and access roads are included in the permit application. Wetland crossings will be covered under Title 25 of the Pennsylvania Code, Chapter 105.12(a)(3) (Waiver 3) concerning utility crossings associated with single pole structures.

19. A Pennsylvania Natural Diversity Inventory (“PNDI”) search was conducted for the proposed Project Area, and a copy of the PNDI report is enclosed as **Exhibit 8**. As reflected in the PNDI report, the U.S. Fish and Wildlife Service, PA Game Commission, PA Department of Conservation and Natural Resources, and PA Fish and Boat Commission have all indicated no impacts to protected resources are anticipated by the construction of the Project.

20. Consultation with the PA State Historic Preservation Office (“SHPO”) was initiated on August 15, 2024. A SHPO response dated August 20, 2024, concluded that the proposed Project will have no effect on above-ground cultural resources or archaeological resources. The SHPO response is included as **Exhibit 9**.

21. Construction of the Project is expected to commence on February 1, 2025, and the Project is forecasted to be in service by May 31, 2025.

22. MAIT will construct the transmission line tap on behalf of both Companies. As stated above, MAIT will own the proposed line segment from the new tap structure to the first point of interconnection. FE PA will own the “last span” from the last structure to the substation termination point. The total estimated cost of the Project is approximately \$1,695,500, with a breakdown of project costs as follows:<sup>3</sup>

Estimated Transmission Line Costs:

Engineering.....	\$334,500
Material.....	\$226,000
Construction.....	<u>\$1,135,000</u>
<b>Total.....</b>	<b><u>\$1,695,500</u></b>

23. At the time of the filing, no comments from state or local officials have been received for the Project to date.

24. This Letter of Notification Filing is being sent to the Commission on the date of the accompanying cover letter. As required by 52 Pa. Code § 57.72(d)(4), the Companies recognize that:

The Commission will review and, by order, approve or disapprove a letter of notification. If the Commission approves a letter of notification, the HV line shall be located and constructed without the application process set forth in this subletter. If the Commission does not approve the letter of notification, its order shall direct the applicant to comply with the application process set forth in this subchapter.


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<sup>3</sup> MAIT will be responsible for approximately \$840,743 of the total estimated project costs, for the network portion of the proposed work, which for this project includes modifications to the main line and relay work. The remaining costs will be allocated between FE PA and the End Customer, with a “true-up” of actual costs upon project completion. As currently estimated, the End Customer will be responsible for approximately \$782,748 without tax, which includes the costs for installing the new tap segment and integration of customer protection and controls.

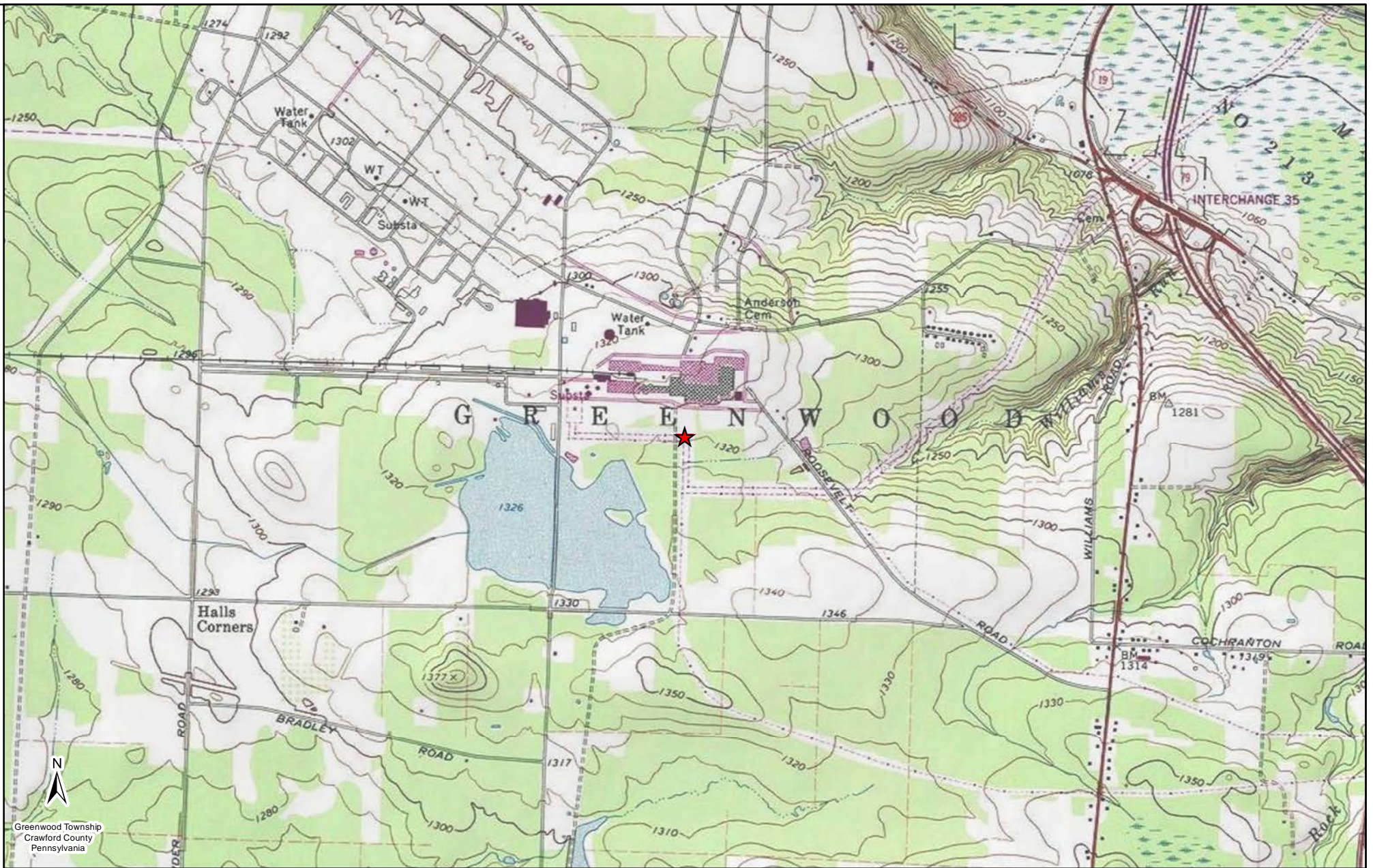
25. A copy of this Letter of Notification filing is being served by certified mail upon those who are entitled to receive a copy of an application or notice of filing an application as set forth in 52 Pa. Code § 57.74, in accordance with the provisions of 52 Pa. Code § 57.72(d)(3) and as shown in the attached Certificate of Service.

WHEREFORE, Mid-Atlantic Interstate Transmission, LLC and FirstEnergy Pennsylvania Electric Company respectfully request that the Commission review and approve this joint Letter of Notification on or before the January 23, 2025 Public Meeting.

Date: November 26, 2024

By:   
\_\_\_\_\_  
Joey T. Chen  
Attorney ID # 334709  
76 South Main Street  
Akron, OH 44308  
(610) 921-6784  
Email: jchen@firstenergycorp.com

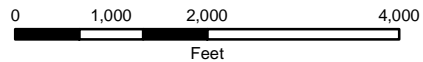
*Counsel for Mid-Atlantic Interstate  
Transmission, LLC and FirstEnergy  
Pennsylvania Electric Company*



Greenwood Township  
Crawford County  
Pennsylvania

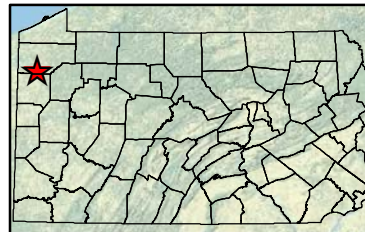
**LEGEND:**

★ Project Location



**Reference:**  
USGS Topographical Overlay; PennDOT, PADCNR PAMAP

**Coordinate System:**  
NAD\_1983\_StatePlane\_Pennsylvania\_North\_FIPS\_3701\_Feet  
WKID: 2271 Authority: EPSG



**EXHIBIT 1**



**Geneva-Morgan Street 115 kV  
GMO Transmission Line Tap  
Project**

GREENWOOD TOWNSHIP  
CRAWFORD COUNTY  
STATE OF PENNSYLVANIA

AIR  
PRODUCTS  
SUBSTATION

VITRO GLASS  
SUBSTATION

VITRO  
GLASS  
SUBSTATION

POI #2 - Customer  
owned structure

POI #1

#5C Switch A-125

#3-2

#3-3

#3-1

#3-4

#4

#5  
SWITCH A-213

SWITCH A-215

#5C

TBR #5

#5A

#5B  
SWITCH A-214

#6

TO GENEVA SUB

Geneva-Morgan Street 115 kV GMO

2708-095-70014  
Vitro Meadville Flat  
Glass LLC

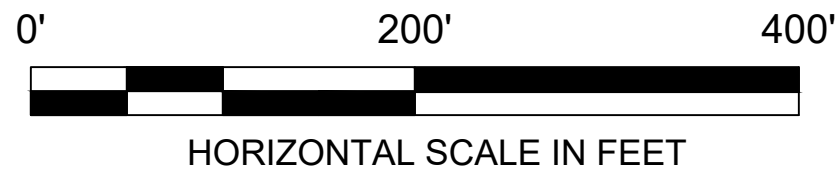
GENEVA - WAYNE 115kV WAG

TO MORGAN STREET SUB

#7

**LEGEND**

- TRANSMISSION CENTERLINE
- - - OTHER TRANSMISSION CENTERLINE
- ... CREEK
- ⊕ PROPOSED STEEL SWITCH POLE
- EXISTING POLE
- ⊗ PROPOSED STEEL POLE
- ⊗ CUSTOMER SUBSTATION
- ⊕ WOOD POLE TO BE REMOVED
- PROPOSED WOOD POLE
- FEPA Owned Conductor



**MAIT**  
Mid-Atlantic Interstate Transmission, LLC  
A Westinghouse Company

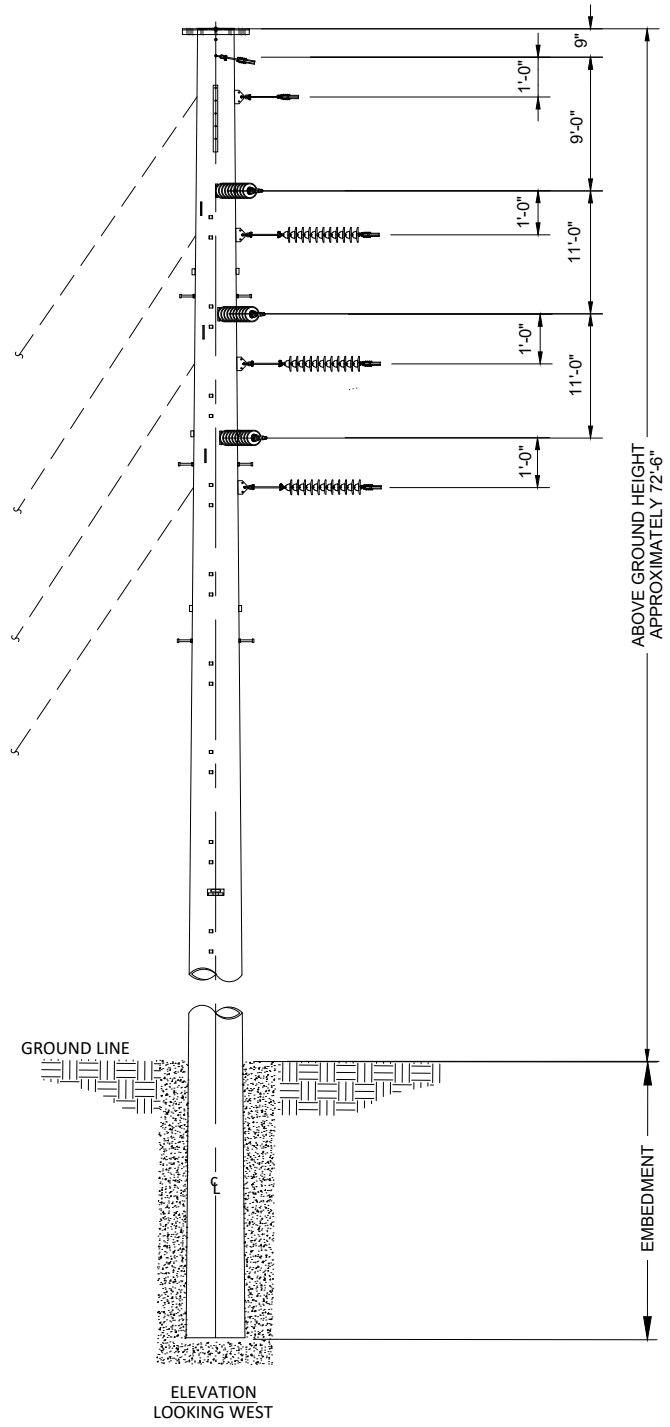
Geneva-Morgan Street 115 kV GMO Transmission  
Line Tap Project

GENERAL LAYOUT

Exhibit 2

PAPER SIZE: 17X11

SCALE: NTS

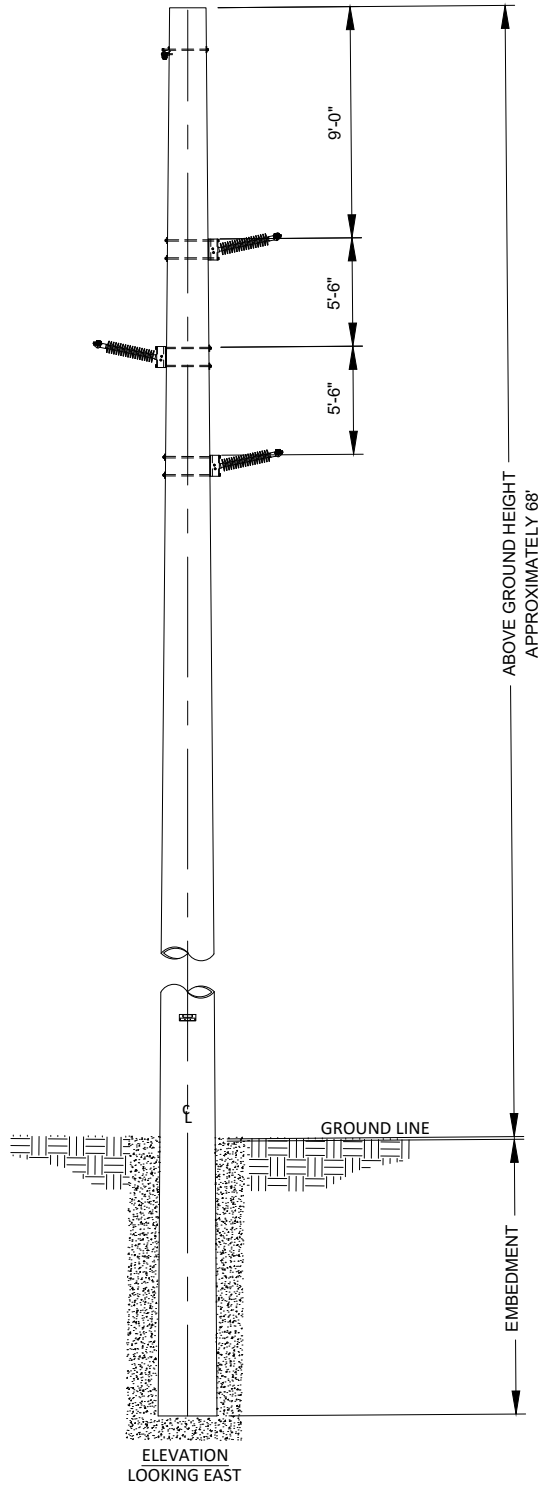


STRUCTURE	AGH (FT)
5A	72.5

PAPER SIZE: 8.5X11

SCALE: NTS

	Geneva-Morgan Street 115 kV GMO Transmission Line Tap Project
	115kV Single Circuit Wood Pole Equivalent Tubular Steel Tap Structure Vertical Single Pole
<b>Exhibit 3</b>	



STRUCTURE	AGH (FT)
4	68

PAPER SIZE: 8.5X11

SCALE: NTS

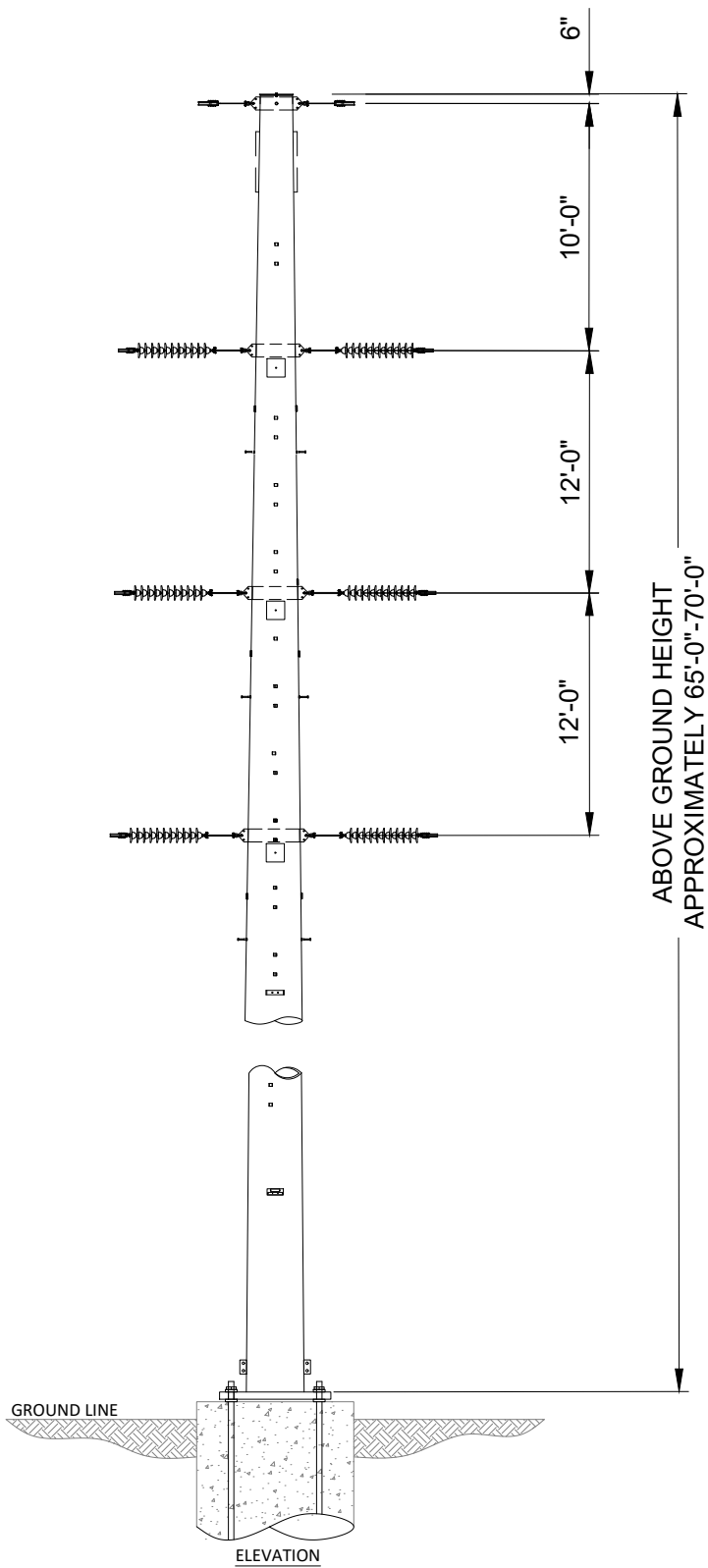


Geneva-Morgan Street 115 kV GMO Transmission Line Tap Project

115 kV Single Circuit Wood Pole Structure  
Horizontal Post Delta Single Pole Angles 0 to 2

Exhibit 4

STRUCTURE	AGH (FT)
5	70
5B	65
5C	70



	<p>Geneva-Morgan Street 115 kV GMO Transmission Line Tap Project</p>
<p><b>115 kV Single Circuit Tubular Steel Unitized 1200A Switch Structure</b></p>	
<p><b>Exhibit 5</b></p>	



## Penelec Transmission Zone M-3 Process Geneva – Morgan Street 115 kV Line Customer Connection

**Need Number:** PN-2024-020

**Process Stage:** Need Meeting – 5/16/2024

**Project Driver(s):**

*Customer Service*

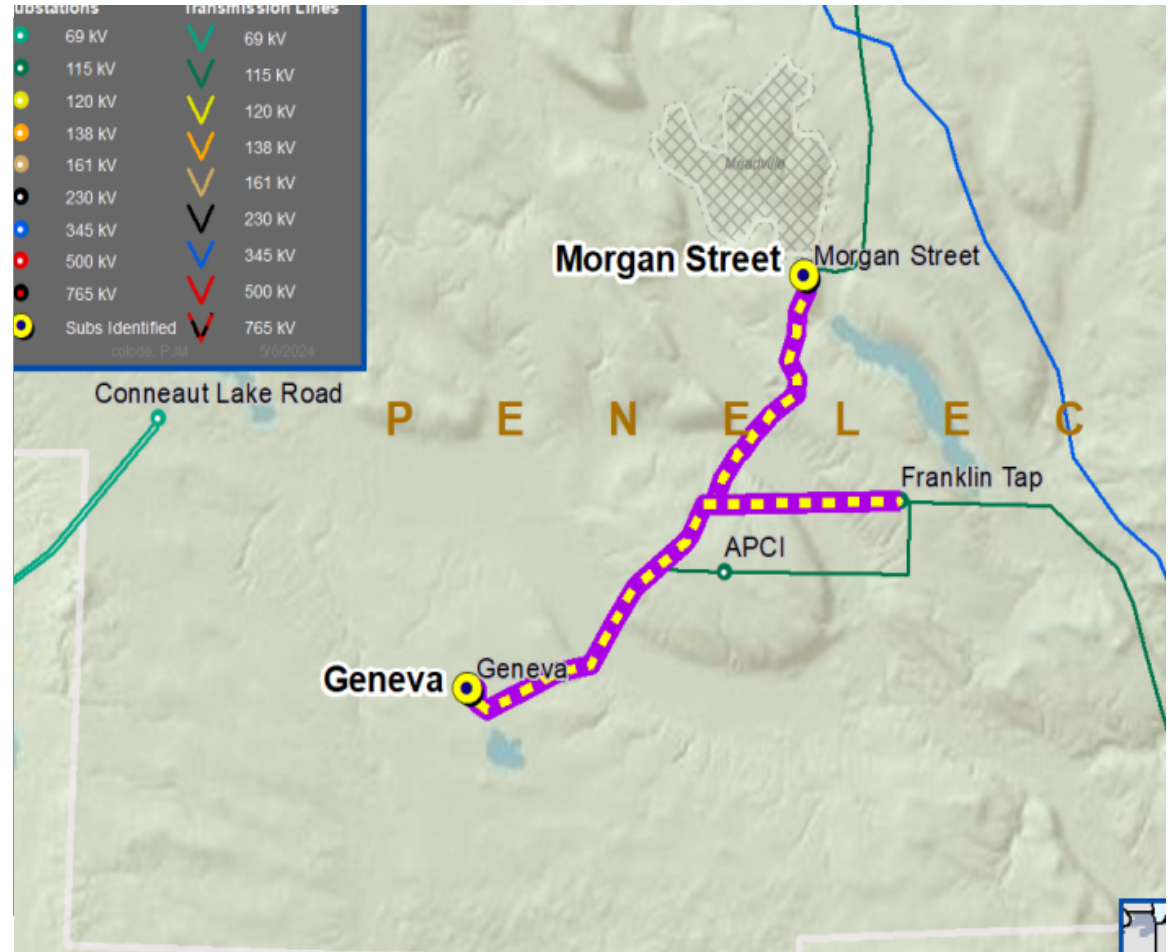
**Specific Assumption Reference(s)**

New customer connection request will be evaluated per FirstEnergy’s “Requirements for Transmission Connected Facilities” document and “Transmission Planning Criteria” document.

**Problem Statement**

New Customer Connection – A retail customer requested 115 kV service for load of approximately 31 MVA near the Geneva – Morgan Street 115 kV Line. The service request location is approximately one mile from Geneva Substation.

Requested in-service date is 05/31/2025





## Penelec Transmission Zone M-3 Process Geneva – Morgan Street 115 kV Line Customer Connection

**Need Number:** PN-2024-020

**Process Stage:** Solution Meeting – 06/13/2024

**Previously Presented:** Need Meeting – 05/16/2024

**Project Driver(s):**

*Customer Service*

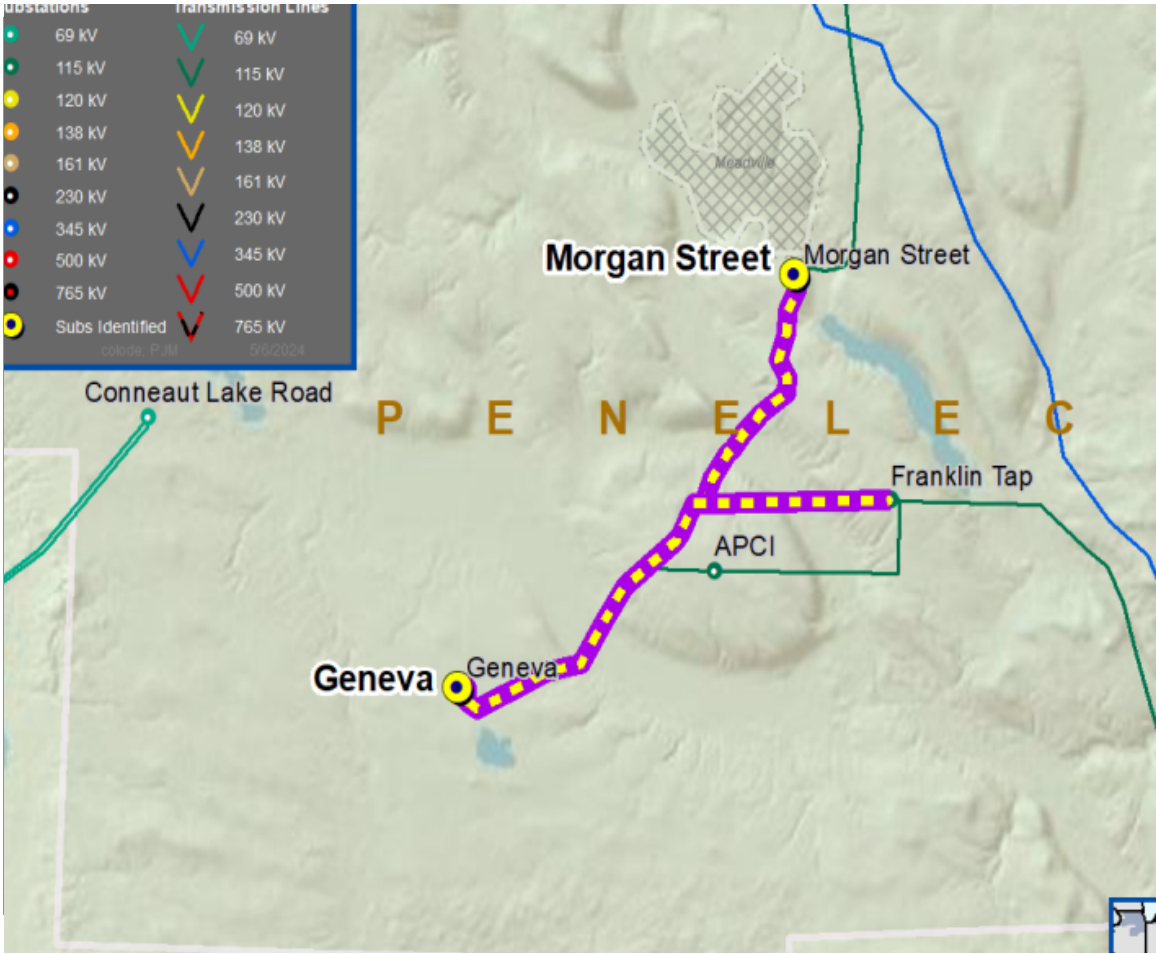
**Specific Assumption Reference(s)**

New customer connection request will be evaluated per FirstEnergy’s “Requirements for Transmission Connected Facilities” document and “Transmission Planning Criteria” document.

**Problem Statement**

New Customer Connection – A retail customer requested 115 kV service for load of approximately 31 MVA near the Geneva – Morgan Street 115 kV Line. The service request location is approximately one mile from Geneva Substation.

Requested in-service date is 05/31/2025





**Need Number:** PN-2024-020

**Process Stage:** Solution Meeting – 06/13/2024

**Proposed Solution:**

**115 kV Transmission Line Tap**

- Install three SCADA controlled transmission line switches
- Construct approximately 1-2 spans of transmission line from tap point to customer substation
- Install one 115 kV revenue metering package at customer substation
- Modify relay settings at Geneva and Morgan Street substations

**Alternatives Considered:**

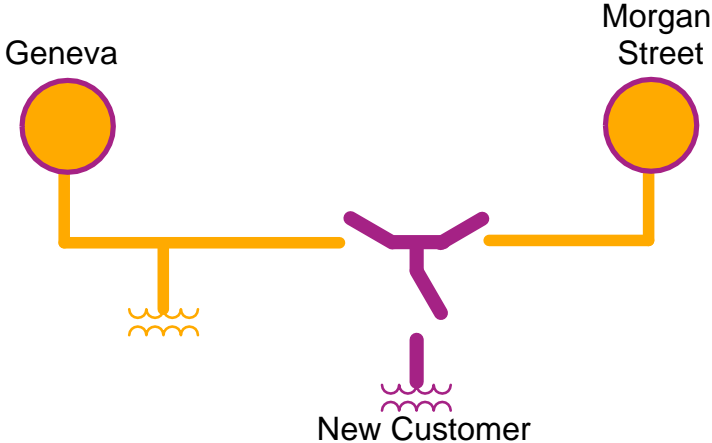
- No other feasible alternatives considered due to the customers proximity to the Geneva – Morgan Street 115 kV Line.

**Estimated Project Cost:** \$1.6M

**Projected In-Service:** 5/31/2025

**Status:** Engineering

Penelec Transmission Zone M-3 Process  
Geneva – Morgan Street 115 kV Line Customer Connection



Legend	
500 kV	
345 kV	
115 kV	
69 kV	
34.5 kV	
23 kV	
New	

**WATERS DELINEATION REPORT**  
**GENEVA-MORGAN ST. 115KV LINE**  
**GREENWOOD TOWNSHIP**  
**CRAWFORD COUNTY, PENNSYLVANIA**

**Prepared For:**

**MID-ATLANTIC INTERSTATE TRANSMISSION (MAIT),**  
**A FIRSTENERGY SERVICE COMPANY**  
**800 CABIN HILL DRIVE,**  
**GREENSBURG, PA 15601**

**Prepared By:**

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.**  
**700 CHERRINGTON PARKWAY,**  
**MOON TOWNSHIP, PA 15108**

**CEC Project 326-630.0047**

**AUGUST 2024**

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Table 2 Delineated Wetlands

**FIGURES**

Figure 1 Site Location Map  
Figure 2 Environmental Data Review Map  
Figure 3 Waters Delineation Map

**APPENDICES**

Appendix A Photographic Summary  
Appendix B Wetland Determination Data Sheets  
Appendix C Antecedent Precipitation Tool Analysis

## **1.0 INTRODUCTION**

Civil & Environmental Consultants, Inc. (CEC) conducted a waters delineation of the Geneva-Morgan Street 115kv Line project located in Crawford County, Pennsylvania (41.529936, -80.211804; Figure 1). The proposed project includes connecting an existing transmission line to a proposed new substation. This report includes the findings of a desktop data review and field delineation of current site conditions. The purpose was to identify, characterize, and delineate wetlands, streams, and other waters located within the area of interest (AOI). This report presents the methodology and findings.

The U.S. Army Corps of Engineers (USACE) regulates the discharge of dredged or fill material into waters of the United States (WOTUS) under Section 404 of the federal Clean Water Act (CWA), and the placement of structures in or over navigable waters under Sections 9 and 10 of the Rivers and Harbors Act of 1899. Navigable waters are those waters subject to the ebb and flow of the tide shoreward to the mean high water mark and/or are presently used, or have been used in the past, or may be susceptible to use in interstate or foreign commerce, as defined in 33 Code of Federal Regulations (CFR) 329.4. Federally jurisdictional WOTUS are defined in 33 CFR Part 328 as traditional navigable waters, their relatively permanent tributaries, wetlands adjacent with a continuous surface connection to jurisdictional waters, and certain other waterbodies (lakes, ponds, impoundments, and captured streams) if not isolated or otherwise categorically excluded. Wetlands, streams, and other waters that meet the guidelines contained in the Corps Manual, Regional Supplement, and/or exhibit ordinary high water marks (OHWM) might be subject to regulation by USACE as WOTUS as defined by 33 CFR 328.3(a).

This report is intended to document potentially jurisdictional waters using regulatory guidelines. The status and extent of waters are subject to jurisdictional determination by the USACE and state agencies. Under the current federal WOTUS rule, ephemeral streams may not be considered WOTUS since they may not be Relatively Permanent Waterbodies (RPWs). The relatively permanent standard is flowing or standing water year-round or continuously during certain times of the year. "Certain times of the year" is intended to include extended periods of standing or continuously flowing water occurring in the same geographic feature year after year, except in

times of drought. RPWs do not include tributaries with flowing or standing water for only a short duration in direct response to precipitation. No minimum flow duration for RPWs has been established because flow duration qualifying as “continuously during certain times of the year” varies extensively by regional climate. The flow regimes ascribed to the delineated streams are a preliminary opinion based on channel conditions at the time of the field delineation and may require supplemental data for jurisdictional determination purposes. Similarly, isolated streams or wetlands that lack a continuous surface connection to RPWs may also not qualify as WOTUS, but downstream connectivity of the delineated waters may require further investigation to sufficiently determine jurisdictional status according to the adjacency test.

## **2.0 METHODOLOGY**

### **2.1 ENVIRONMENTAL DATA REVIEW**

Prior to the field delineation, the following data sources were consulted to aid in the identification of potential wetlands, streams, and other waters within the AOI:

- U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle maps;
- U.S. Department of Agriculture, Natural Resource Conservation Service (USDA-NRCS) Soil Survey Geographic (SSURGO) Database;
- Federal Emergency Management Agency (FEMA) flood hazard data;
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI);
- National Hydrography Dataset (NHD);
- Aerial imagery from various sources; and
- Antecedent Precipitation Tool (APT).

These publicly available data sources aided in overall habitat characterizations and facilitated potential water resource identification within the AOI; topographic depressions, mapped hydric soils, mapped NWI and NHD features, and FEMA floodplains have higher potential to contain wetlands, streams, and other surface water features.

### **2.2 FIELD METHODS**

CEC performed a waters delineation to identify and delineate wetlands, streams, and other waters within the AOI. The following sections outline the field methods used to delineate these waters.

#### **2.2.1 Wetland Delineation**

CEC ecologists identified, characterized, and delineated wetlands in accordance with the routine, on-site determination methodology described in the U.S. Army Corps of Engineers' (USACE)

*Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987); referred to hereafter as Corps Manual), supplemented by the following technical guidance documents:

- *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0)* (USACE 2012); (referred to hereafter as Regional Supplement);
- *National Wetland Plant List* (USACE 2022); and
- *Field Indicators of Hydric Soils in the United States Version 8.2* (USDA-NRCS 2018).

CEC ecologists walked the AOI and collected data at representative locations within each plant community cover type and areas with potential water features characteristics (e.g. localized depressions, converging slopes, evident hydrology, etc.). Data collected at each sampling point were recorded on USACE Wetland Determination Data Sheets. The sampling plan was modified as necessary if additional plant community cover types or potential water features characteristics were encountered.

At each sampling point, the following parameters were assessed: vegetation, soils, and hydrology. First, visual estimates of percent absolute cover of plant species were recorded for each of the following strata, when present: tree, sapling/shrub, herb, and woody vine. A determination of whether the plant community was dominated by hydrophytic (wetland) plants was then made using the Rapid Test or Dominance Test indicators. Next, soils were sampled to determine if soils met hydric soil indicators. Lastly, wetland hydrology indicators (e.g., surface water, high water table, saturation, etc.) were recorded, if present.

The sampling point data were used to determine whether that point was located in a wetland or non-wetland (i.e. upland). If a wetland was identified, further sampling was performed to delineate the wetland/non-wetland boundary. Each wetland was also classified according to the NWI classification system developed by the Federal Geographic Data Committee (2013) and Cowardin et al. (1979).

- **Palustrine emergent wetland (PEM):** rooted herbaceous and grass like plants which stand erect above the water or ground surface characterize this wetland class (excluding

mosses or lichens). Vegetation is present for most of the growing season in most years. Emergent wetlands include marshes, meadows, and fens.

- **Palustrine scrub-shrub wetland (PSS):** woody vegetation less than 20 feet tall dominate this wetland class. Plant species include true shrubs, young trees, and trees or shrubs that are small or stunted because of environmental conditions. Scrub-shrub wetlands include shrub swamps and bogs.
- **Palustrine forested wetland (PFO):** woody vegetation 20 feet or taller dominate this wetland class. Forested wetlands generally include an overstory of trees, an understory of young trees and shrubs, and an herbaceous layer.
- **Palustrine unconsolidated bottom (PUB):** nontidal wetland lacking vegetation but is less than 8 hectare (20 acres) in size with a water depth in the deepest part of basin less than 2.5 meters (8.2 feet) at low water. Includes all wetlands and deepwater habitats with at least 25 percent cover of particles smaller than stones (less than 6-7 centimeter), and a vegetative cover less than 30 percent.

If more than one Cowardin classification type was identified within a wetland, the boundary between the types was delineated. Wetland boundaries were recorded using a mapping-grade handheld Global Navigational Satellite System (GNSS) receiver capable of sub-meter accuracy.

Upland habitats were also recorded on USACE Wetland Determination Data Sheets. Upland sampling points were documented adjacent to wetland delineation boundaries, as well as at representative upland habitats throughout the AOI.

### 2.2.2 Stream and Other Waters Delineation

Concurrent with the wetland delineation, CEC ecologists walked the AOI to identify streams and other waters. These waters were evaluated for the presence of an ordinary high water mark (OHWM) in accordance with USACE Regulatory Guidance Letter (RGL) No. 05-05: Ordinary High Water Mark Identification (USACE 2005), USACE *Interim National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams* (USACE 2022), and definitions under 33 CFR 328. As described in these OHWM guidance materials and 33 CFR 328.3(c)(4), an OHWM is established by a clear, natural line impressed upon the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas. Potential jurisdiction limits are delineated using OHWM indicators as weight of evidence including geomorphic (e.g. breaks in slope), transition of vegetation types, changes in sediment type, and other indicators demarcating the regular high flow surface water elevation (e.g. observed flow event, wrack, of leaf litter disturbed or washed away). The uppermost limit of an ephemeral stream was established where the stream loses its defined bed and bank or OHWM.

In addition, all watercourses, which include streams, are defined in Pennsylvania as [“a channel or conveyance of surface water having defined bed and banks” (P.A. Code § 106.1)]. The federal and state guidance were applied to determine the extents of streams.

For streams, physical and biological data were used to infer the stream’s hydrologic flow regime, using a weight-of-evidence approach. CEC used field indicators such as flow, substrate composition, presence of defined bed and bank, origin of hydrologic sources, presence/absence of vegetation within the stream channel, and presence/absence benthic macroinvertebrates, fish, and other aquatic biota to classify onsite stream segments into one of three stream types:

- **Ephemeral:** surface water flows or pools only in direct response to precipitation (e.g., rain or snow fall);

- **Intermittent:** surface water flows continuously during certain times of the year and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated or when snowpack melts); and
- **Perennial:** surface water flows continuously year-round during normal rainfall. Ground water provides the primary hydrology.

The uppermost limit of an ephemeral stream was established where the stream loses its defined bed and bank or OHWM. Stream boundaries were located using GNSS receivers capable of sub-meter accuracy. The physical characteristics of the streams and field observations were summarized on field data forms.

### **3.0 RESULTS**

#### **3.1 ENVIRONMENTAL DATA REVIEW**

The USGS 7.5-minute topographic quadrangle and NHD stream layer identified no streams within the AOI (Figures 1 and 2). The NWI data did not identify any wetlands within the AOI (Figure 2). The SSURGO data identified three soil mapping units within the AOI, which were all rated as predominantly hydric (Appendix A and Figure 2).

**Table 1. SSURGO Soil Mapping Units within the Study Areas**

<b>Soil Map Unit Symbol</b>	<b>Soil Map Unit Name</b>	<b>Drainage Class</b>	<b>Hydric Rating</b>
Ad	Alden silt loam	Poorly Drained	Predominantly Hydric
FhA	Frenchtown silt loam, 0 to 3 percent slopes	Poorly Drained	Predominantly Hydric
FhB	Frenchtown silt loam, 3 to 8 percent slopes	Poorly Drained	Predominantly Hydric

<sup>(1)</sup> Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov>), accessed 07/29/2024.

#### **3.2 FIELD RESULTS**

CEC staff conducted a field delineation on July 1, and July 29, 2024, to identify, delineate, and classify wetlands, streams, and other waters within the AOI. The AOI consisted of a maintained lawn adjacent to an industrial development, meadow right-of-way, forest, and emergent and scrub-shrub wetlands. In total, three wetlands comprised of seven components were found within the AOI (Figure 3). No streams or other waters were observed. A photographic summary is included in Appendix B. Wetland Determination Data Sheets are provided in Appendix C.

CEC ran the Antecedent Precipitation Tool (APT) to assess the climatic conditions at the time of the field delineation. The APT compares antecedent or recent rainfall conditions for this location versus the range of normal rainfall conditions that occurred during the preceding 30 years. The APT tool evaluates normal precipitation conditions, assesses the presence of drought conditions, and the approximate dates of wet and dry seasons for a given location. The APT analysis indicated

normal conditions were present at the time of the field delineation. Additionally, the Palmer Drought Severity Index (PDSI) indicated incipient drought at the time of the analysis. The results of the APT analysis are included in Appendix E.

**3.2.1 Wetland Delineation**

Seven (7) wetland components comprising three wetland complexes were identified within the AOI. In addition, five (5) sampling points were taken to document upland habitats within the AOI.

**Table 2. Delineated Wetlands**

Wetland Identifier	Area (acres)	Cowardin Classification <sup>1</sup>	Sampling Point
W001A*	0.906	PEM	SP-01
W001B	0.047	PSS	SP-02
W002*	1.826	PEM	SP-05
W003A*	0.205	PFO	SP-07
W003B*	0.743	PEM	SP-08
W003C	0.018	PEM	SP-08
W003D	0.029	PFO	SP-07
Total	3.774		

<sup>(1)</sup>As interpreted from *USFWS Classification of Wetlands and Deepwater Habitats of the United States*. (1979). Palustrine emergent (PEM), Palustrine scrub-shrub (PSS), and Palustrine forested (PFO).

\*Continues beyond the study area.

**3.2.2 Stream and Other Waters Delineation**

No streams or other waters were identified within the AOI.

#### **4.0 CONCLUSIONS**

CEC conducted a waters delineation within the AOI on July 1 and July 29, 2024, CEC identified the following within the AOI:

- 7 wetland components, totaling approximately 3.77 acres.

## **5.0 REGULATORY CONSIDERATIONS**

The USACE has the authority to permit the discharge of dredged or fill material into WOTUS under Section 404 of the federal Clean Water Act, and to permit work and the placement of structures in navigable waters under Sections 9 and 10 of the Rivers and Harbors Act of 1899. Wetlands, streams, and other waters that meet the guidelines contained in the Corps Manual, Regional Supplement, and Regulatory Guidance Letter No. 05-05 are subject to regulation by USACE as WOTUS as defined by 33 CFR 328.3(a), and the currently in effect regulatory definition (SCOTUS 2023).

As a result of ongoing litigation with the January 2023 Revised Definition of ‘Waters of the United States’ Rule (2023 WOTUS Rule), federal agencies will implement the 2023 WOTUS Rule, as amended by the conforming rule, in 23 states, the District of Columbia, and the U.S. Territories. In the other 27 states and for certain parties, the agencies are interpreting "WOTUS" consistent with the pre-2015 regulatory regime and the Supreme Court's decision in *Sackett v. Environmental Protection Agency* (May 24, 2023) until further notice.

If CWA Section 404 authorization and/or other federal permits are required for the proposed project, consultation with the USFWS will likely be required pursuant to Section 7 of the Endangered Species Act. Furthermore, consultation with the State Historic Preservation Office may also be required relative to potential effects to resources listed on or eligible for listing on the National Register of Historic Places.

The PADEP has coinciding jurisdiction over “waters of the Commonwealth” as established by the Dam Safety and Encroachments Act (P.L. 1375, No. 325) and the Clean Streams Law (P.L. 1987, No. 3941). The PA Code of State Regulations, in Title 25, Chapter 105 Dam Safety and Waterway Management, defines “waters of the Commonwealth” as any watercourse, stream, waterbody, or wetland, including their floodways. Like the USACE, the PADEP generally considers channels to be potentially jurisdictional if they exhibit defined bed and banks, whether natural or artificial, with perennial or intermittent flow. The PADEP regulates encroachments, defined as “any structure or activity which changes, expands or diminishes the course, current or cross section of

a watercourse, floodway, or body of water” through the Chapter 105 permit process. The floodway is defined as extending 50 feet from the top of bank of watercourses if not delineated by a Federal Emergency Management Agency (FEMA) study.

In Pennsylvania, the USACE has delegated authority to the PADEP to authorize minor qualifying activities through the state-wide Section 404 permit titled PA State Programmatic General Permit 6 (PASPGP-6), with concurrent review by USACE for certain categories of impacts. A Joint Permit Application to PADEP and USACE is typically required for activities with more significant impacts that exceed the thresholds of PA Chapter 105 General Permits and PASPGP-6. In addition to encroachments, permits for discharges to waters, including from construction stormwater runoff or erosion, may be required by National Pollutant Discharge Elimination System (NPDES) and PA Chapter 102 regulations.

Waters within the AOI were delineated using guidelines set forth by the [Pennsylvania DEP] and USACE, which have final regulatory authority on the jurisdiction and extents of wetlands, streams, and other waters.

**It is the responsibility of any party that intends to discharge dredge or fill material into WOTUS and/or isolated waters to comply with all applicable regulations.**

## 6.0 LEVEL OF CARE

This waters delineation has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with USACE and other applicable agency guidelines, and with the level of care and skill ordinarily exercised by members of the environmental consulting profession practicing contemporaneously under similar conditions in the locality of the site. The waters boundaries described in this report may change subsequent to CEC's delineation based on changes in the regulatory criteria, seasonal variations in hydrology, alterations to drainage patterns, and other human activities and/or land disturbances.

Report Prepared By:



08/07/2024

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Alexandrea F. Geraci  
Staff Scientist  
Civil & Environmental Consultants, Inc.

Date

Report Reviewed By:



08/07/2024

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Trevor C. Conlow  
Principal  
Civil & Environmental Consultants, Inc.

Date

## 7.0 REFERENCES

- Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. Publication No. FWS/OBS-79/31, Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service.
- Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1, Vicksburg, Mississippi: Department of the Army, U.S. Army Engineer Waterways Experiment Station.
- Federal Geographic Data Committee. 2013. *Classification of Wetlands and Deepwater Habitats of the United States*. FGDC-STD-004-2013. Second Edition. Wetlands Subcommittee, Federal Geographic Data Committee and U.S. Fish and Wildlife Service, Washington, DC.
- U.S. Congress. 1977. *Clean Water Act*. Codified at 33 U.S.C. 1251 (et seq.), Washington, DC: U.S. Government Printing Office.
- U.S. Congress. 1986. *Definition of "Waters of the United States"*. Codified at 33 CFR 328.3 (et seq.), Washington, DC: U.S. Government Printing Office.
- U.S. Congress. 1899. *Rivers and Harbors Appropriation Act of 1899*. Codified at 33 U.S.C. 403 (et seq.), Washington, DC: U.S. Government Printing Office.
- USACE. 2022. *National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams, Interim Version*. Report #ERDC/CRREL TR-22-16. Available from <http://dx.doi.org/10.21079/11681/46102>.
- . 2022. National Wetland Plant List, version 3.6. <https://wetland-plants.sec.usace.army.mil/>
- . 2005. "Ordinary High Water Mark Identification." *Regulatory Guidance Letter No. 05-05*. Washington, DC: U.S. Army Corps of Engineers.
- . 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0*. Edited by J. F. Berkowitz, J. S. Wakeley, R. W. Lichvar and C. V. Noble. Vicksburg, Mississippi: U.S. Army Engineer Research and Development Center.
- USDA-NRCS. 2018. *Field Indicators of Hydric Soils in the United States, Version 8.2*. Edited by L. M. Vasilas, G. W. Hurt and J. F. Berkowitz. Washington, D.C.: USDA-NRCS, in cooperation with the National Technical Committee for Hydric Soils.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <https://websoilsurvey.nrcs.usda.gov/>.

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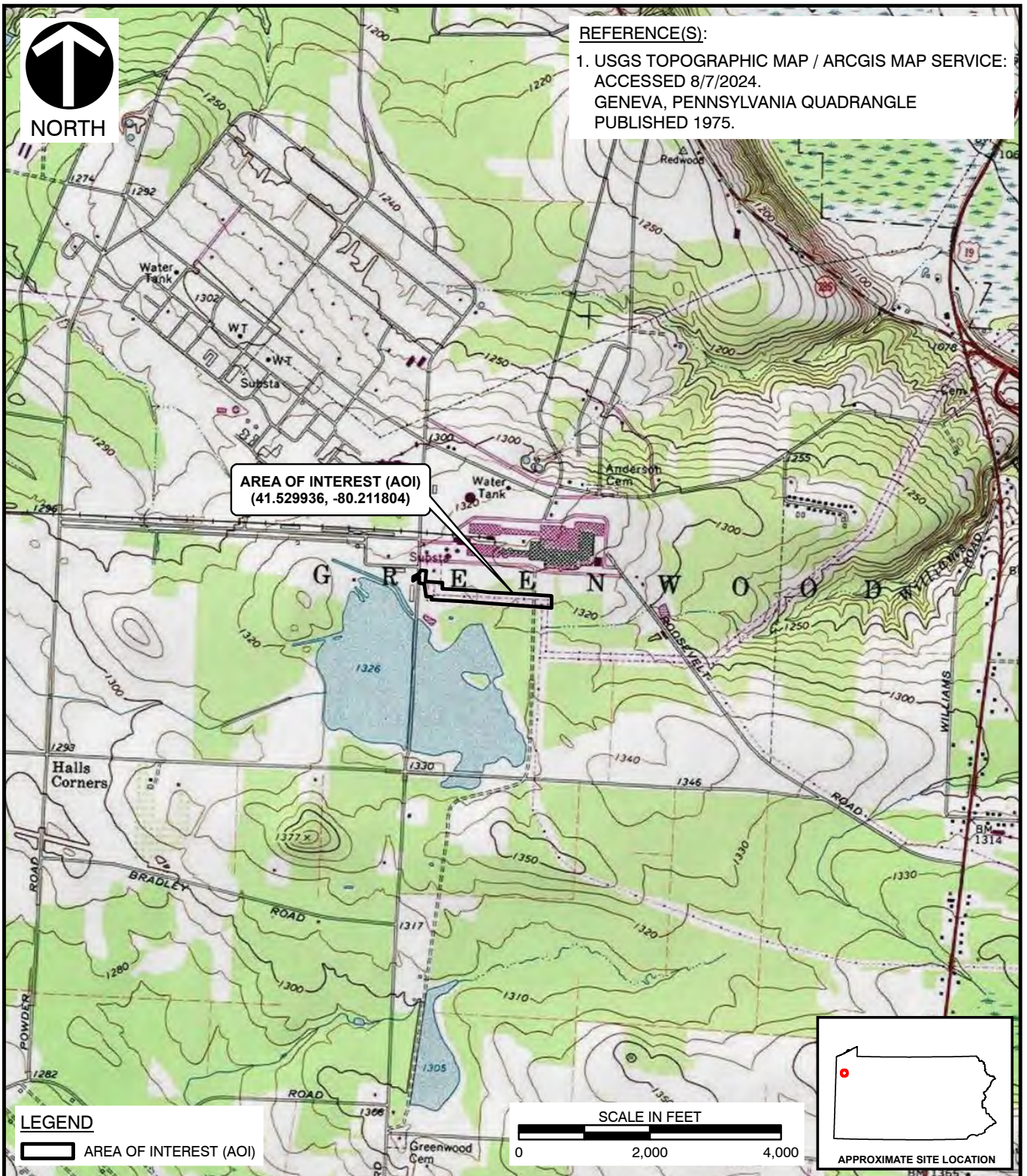
**FIGURES**

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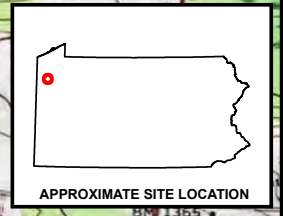
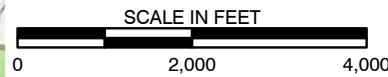
**REFERENCE(S):**

1. USGS TOPOGRAPHIC MAP / ARCGIS MAP SERVICE:  
ACCESSED 8/7/2024.  
GENEVA, PENNSYLVANIA QUADRANGLE  
PUBLISHED 1975.



**LEGEND**

AREA OF INTEREST (AOI)



\\svr-fs-pitt\Projects\320.000\326-630-GIS\Maps\EC59-Task0047\_Geneva\_Delineation\326630\_EC59\_Task0047\_Geneva\_Delineation.aprx 7/30/2024 1:31 PM (small)

		700 Cherrington Parkway Moon Township, PA 15108 Ph: 412.429.2324 · 800.365.2324 www.cecinc.com		MID-ATLANTIC INTERSTATE TRANSMISSION (MAIT) GENEVA-MORGAN ST. 115KV LINE CRAWFORD COUNTY, PENNSYLVANIA	
Civil & Environmental Consultants, Inc.		www.cecinc.com		<b>SITE LOCATION MAP</b>	
DRAWN BY:	NTP/SRS	CHECKED BY:	AFG	APPROVED BY:	TCC*
DATE:	7/30/2024	SCALE:	1"=2,000'	PROJECT NO:	326-630
					<b>1</b>

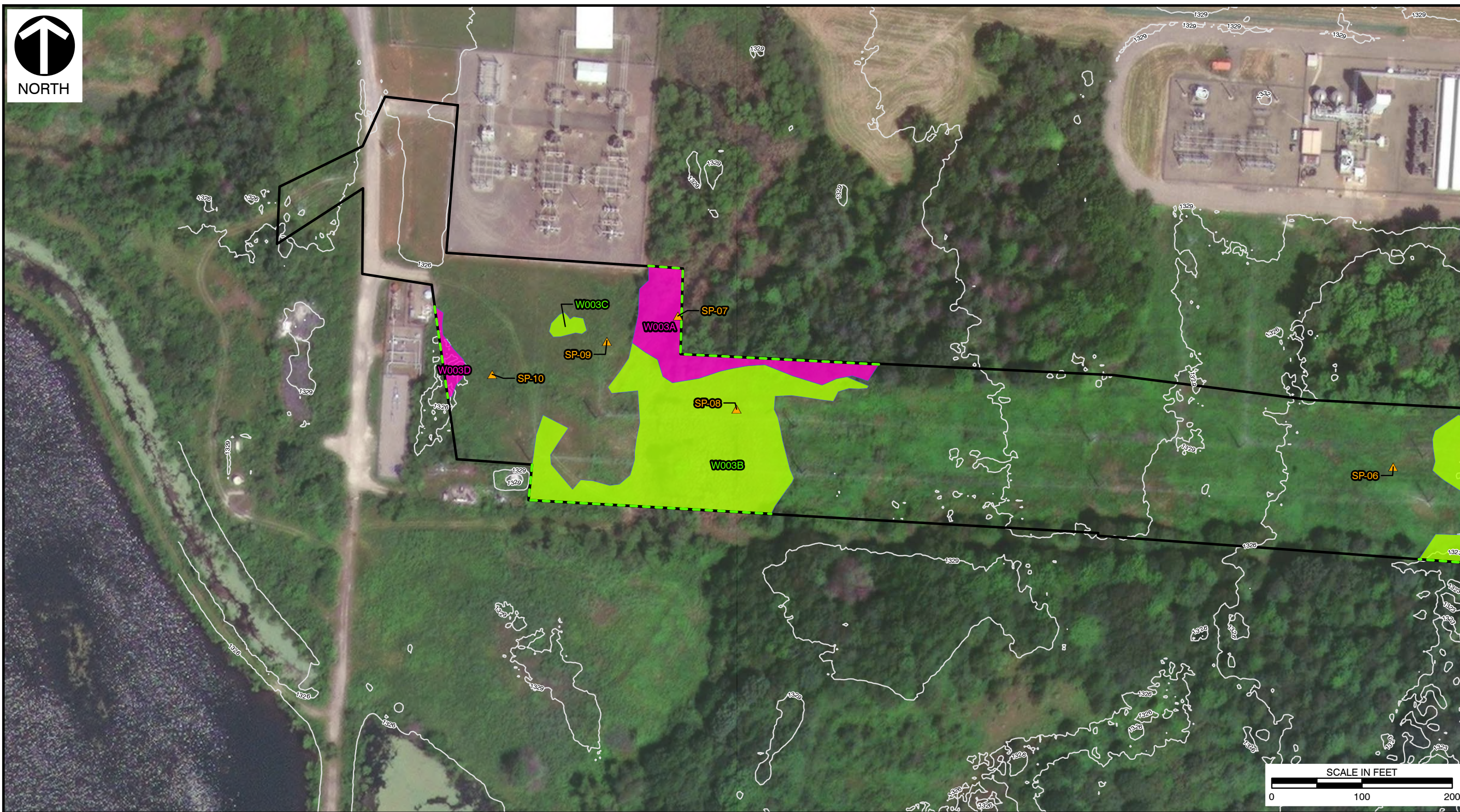
\*Hand Signature on file



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<b>LEGEND</b>		<b>REFERENCES</b>		<b>CEC</b>		<b>MID-ATLANTIC INTERSTATE TRANSMISSION (MAIT)</b>	
—	STREAM/RIVER	■	LAKE	<b>Civil &amp; Environmental Consultants, Inc.</b>	700 Cherrington Parkway Moon Township, PA 15108 Ph: 412.429.2324 · 800.365.2324 www.cecinc.com	GENEVA-MORGAN ST. 115KV LINE CRAWFORD COUNTY, PENNSYLVANIA	
—	MAPPED NON-HYDRIC SOIL	■	RIVERINE			<b>ENVIRONMENTAL DATA REVIEW MAP</b>	
—	MAPPED HYDRIC SOIL	—	AREA OF INTEREST (AOI)			DRAWN BY:	NTP/SRS
				DATE:	8/7/2024	SCALE:	1" = 150'
				APPROVED BY:	TCC*	PROJECT NO:	326-630
						FIGURE NO:	<b>2</b>

\*Hand Signature on file



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<b>LEGEND</b>	
SAMPLING POINT	WETLAND - PEM
OPEN BOUNDARY	WETLAND - PFO
3 FT. INTERVAL CONTOURS	AREA OF INTEREST (AOI)

**REFERENCES**  
 1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:  
 HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY,  
 ACCESSED 8/7/2024  
 2. PAMAP PROGRAM LIDAR DATA, 1' INTERVAL, 2020.

 <b>Civil &amp; Environmental Consultants, Inc.</b>	700 Cherrington Parkway Moon Township, PA 15108 Ph: 412.429.2324 · 800.365.2324 www.cecinc.com	
	DRAWN BY: NTP/SRS DATE: 8/7/2024	CHECKED BY: AFG SCALE: 1" = 100'

MID-ATLANTIC INTERSTATE TRANSMISSION (MAIT) GENEVA-MORGAN ST. 115KV LINE CRAWFORD COUNTY, PENNSYLVANIA		
<b>WATERS DELINEATION MAP</b>		
APPROVED BY: TCC*	PROJECT NO: 326-630	FIGURE NO: <b>3-1</b>

\*Hand Signature on file



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**LEGEND**

- ▲ SAMPLING POINT
- OPEN BOUNDARY
- 3 FT. INTERVAL CONTOURS
- WETLAND - PEM
- WETLAND - PSS
- AREA OF INTEREST (AOI)

**REFERENCES**

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:  
HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\_IMAGERY,  
ACCESSED 8/7/2024
2. PAMAP PROGRAM LIDAR DATA, 1' INTERVAL, 2020.

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DATE:	8/7/2024	SCALE:	1" = 100'

**MID-ATLANTIC INTERSTATE TRANSMISSION (MAIT)  
GENEVA-MORGAN ST. 115KV LINE  
CRAWFORD COUNTY, PENNSYLVANIA**

**WATERS DELINEATION MAP**

APPROVED BY:	TCC*	FIGURE NO: <b>3-2</b>
PROJECT NO:	326-630	

\*Hand Signature on file

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**APPENDIX A**

**PHOTOGRAPHIC SUMMARY**

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1. Sample Point SP-01, W001A  
Facing Northeast



2. W001A (PEM) Overview  
Facing South



3. Sample Point SP-02, W001B  
Facing Southwest



4. W001B (PSS) Overview  
Facing East



5. Sample Point SP-03, Upland  
Facing Southeast



6. Sample Point SP-04, Upland  
Facing South



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A FirstEnergy Company  
Geneva-Morgan Street 115kv Line  
326-630.0047**

**Photographs Taken: July 1, 2024**



7. Sample Point SP-05, W002  
Facing East



8. W002 (PEM) Overview  
Facing North



9. Sample Point SP-06, Upland  
Facing Northeast



10. Sample Point SP-07, W003A  
Facing Southeast



11. W003A (PFO) Overview  
Facing Northeast



12. Sample Point SP-08, W003B  
Facing West



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326-630.0047**

**Photographs Taken: July 1 & July 29, 2024**



**13. W003B (PEM) Overview  
Facing East**



**14. Sample Point SP-09, Upland  
Facing Northwest**



**15. Sample Point SP-10, Upland  
Facing West**



**16. W003C (PEM) Overview  
Facing West**



**17. W003D (PFO) Overview  
Facing Southwest**



**18. Site Overview  
Facing North**



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326-630.0047**

**Photographs Taken: July 1 & July 29, 2024**



**19. Site Overview  
Facing West**



**20. Site Overview  
Facing South**



**21. Site Overview  
Facing West**



**22. Site Overview  
Facing West**



**23. Site Overview  
Facing East**



**24. Access Road Overview  
Facing North**



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**Mid-Atlantic Interstate Transmission (MAIT),  
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Geneva-Morgan Street 115kv Line  
326-630.0047**

**Photographs Taken: July 1 & July 29, 2024**

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**APPENDIX B**

**WETLAND DETERMINATION DATA SHEETS**

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**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/04/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-01  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529553 Long: -80.210153 Datum: NAD83 (2011)  
 Soil Map Unit Name: Frenchtown silt loam, 3 to 8 percent slopes; FhB NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland W001 is a PEM wetland complex located in a concave ROW.	
<i>Wetland ID: W001; Cowardin Class: PEM</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0.5</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Surface water in small concave areas throughout wetland.	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-01

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Cornus amomum</u>	5	Y	FACW	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>5</u> = Total Cover			
50% of total cover: <u>2.5</u>		20% of total cover: <u>1</u>		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Typha angustifolia</u>	15	Y	OBL	
2. <u>Phalaris arundinacea</u>	15	Y	FACW	
3. <u>Solidago gigantea</u>	10	Y	FACW	
4. <u>Scirpus cyperinus</u>	10	Y	FACW	
5. <u>Juncus effusus</u>	10	Y	FACW	
6. <u>Carex intumescens</u>	10	Y	FACW	
7. <u>Onoclea sensibilis</u>	10	Y	FACW	
8. <u>Carex gynandra</u>	5	N	OBL	
9. <u>Spiraea alba</u>	5	N	FACW	
10. <u>Carex lurida</u>	5	N	OBL	
11. <u>Carex scoparia</u>	5	N	FACW	
	<u>100</u> = Total Cover			
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

Yes 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-02  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529823 Long: -80.210357 Datum: NAD83 (2011)  
 Soil Map Unit Name: Frenchtown silt loam, 3 to 8 percent slopes; FhB NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland W001B is a PSS complex and is located in a concave ROW.	
<i>Wetland ID: W001B; Cowardin Class: PSS</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-02

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Cornus amomum</u>	25	Y	FACW	
2. <u>Spiraea alba</u>	20	Y	FACW	
3. <u>Cephalanthus occidentalis</u>	5	N	OBL	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>50</u> = Total Cover			
50% of total cover: <u>25</u>		20% of total cover: <u>10</u>		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Scirpus cyperinus</u>	15	Y	FACW	
2. <u>Solidago gigantea</u>	10	Y	FACW	
3. <u>Onoclea sensibilis</u>	10	Y	FACW	
4. <u>Carex intumescens</u>	5	N	FACW	
5. <u>Eupatorium perfoliatum</u>	5	N	FACW	
6. <u>Juncus effusus</u>	5	N	FACW	
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	<u>50</u> = Total Cover			
50% of total cover: <u>25</u>		20% of total cover: <u>10</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

Yes 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-03  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None (flat) Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529819 Long: -80.210758 Datum: NAD83 (2011)  
 Soil Map Unit Name: Alden silt loam; Ad NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Representative upland sample point is located adjacent to W001	
<i>Wetland ID: Upland ; Cowardin Class:</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-03

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )					
1. <u>None</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
0 = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____	
50% of total cover: _____					
20% of total cover: _____					
<b>Sapling/Shrub Stratum</b> (Plot size: _____ ft radius )					
1. <u>None</u>					<b>Hydrophytic Vegetation Indicators:</b> No 1 - Rapid Test for Hydrophytic Vegetation No 2 - Dominance Test is >50% No 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
0 = Total Cover				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
50% of total cover: _____					
20% of total cover: _____					
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )					
1. <u>Anthoxanthum odoratum</u>	20	Y	FACU		<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
2. <u>Solidago canadensis</u>	20	Y	FACU		
3. <u>Bromus inermis</u>	15	Y	UPL		
4. <u>Achillea millefolium</u>	10	N	FACU		
5. <u>Leucanthemum vulgare</u>	10	N	UPL		
6. <u>Phleum pratense</u>	10	N	FACU		
7. <u>Toxicodendron radicans</u>	5	N	FAC		
8. <u>Juncus tenuis</u>	5	N	FAC		
9. <u>Agrimonia parviflora</u>	5	N	FACW		
10. _____					
11. _____					
100 = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
50% of total cover: <u>50</u>			20		
20% of total cover: _____					
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )					
1. <u>None</u>					
2. _____					
3. _____					
4. _____					
5. _____					
0 = Total Cover					
50% of total cover: _____					
20% of total cover: _____					
Remarks: (Include photo numbers here or on a separate sheet.)					



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-04  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529919 Long: -80.211824 Datum: NAD83 (2011)  
 Soil Map Unit Name: Alden silt loam; Ad NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Representative upland sample point is located between W002 and forested area.	
<i>Wetland ID: Upland ; Cowardin Class:</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-04

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: 30 ft radius )				
1. None				
2.				
3.				
4.				
5.				
6.				
7.				
0 = Total Cover				
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: 15 ft radius )				
1. None				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
0 = Total Cover				
50% of total cover: _____		20% of total cover: _____		
<b>Herb Stratum</b> (Plot size: 5 ft radius )				
1. Phalaris arundinacea	30	Y	FACW	
2. Apocynum androsaemifolium	25	Y	FACU	
3. Dichanthelium clandestinum	10	N	FAC	
4. Anthoxanthum odoratum	10	N	FACU	
5. Potentilla simplex	10	N	FACU	
6. Solidago canadensis	5	N	FACU	
7. Solidago altissima	5	N	FACU	
8. Juncus effusus	5	N	FACW	
9.				
10.				
11.				
100 = Total Cover				
50% of total cover: 50		20% of total cover: 20		
<b>Woody Vine Stratum</b> (Plot size: 30 ft radius )				
1. None				
2.				
3.				
4.				
5.				
0 = Total Cover				
50% of total cover: _____		20% of total cover: _____		
<p>Remarks: (Include photo numbers here or on a separate sheet.)</p>				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

No 2 - Dominance Test is >50%

No 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-05  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529788 Long: -80.211922 Datum: NAD83 (2011)  
 Soil Map Unit Name: Alden silt loam; Ad NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland W002 is a PEM wetland located in a concave ROW.	
<i>Wetland ID: W002; Cowardin Class: PEM</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
 Surface water in small concave areas on edges of wetland.

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-05

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				
50% of total cover: _____				20% of total cover: _____
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Cornus amomum</u>	<u>8</u>	<u>Y</u>	<u>FACW</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
_____ = Total Cover				
50% of total cover: <u>4</u>				20% of total cover: <u>1.6</u>
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Phalaris arundinacea</u>	<u>75</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Scirpus cyperinus</u>	<u>15</u>	<u>N</u>	<u>FACW</u>	
3. <u>Juncus effusus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. <u>Solidago rugosa</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
_____ = Total Cover				
50% of total cover: <u>50</u>				20% of total cover: <u>20</u>
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
50% of total cover: _____				20% of total cover: _____
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

Yes 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-06  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None (flat) Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529856 Long: -80.213117 Datum: NAD83 (2011)  
 Soil Map Unit Name: Alden silt loam; Ad NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Representative upland sample pointed is located in an open field adjacent to W002	
<i>Wetland ID: Upland ; Cowardin Class:</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-06

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Dichanthelium clandestinum</u>	30	Y	FAC	
2. <u>Phalaris arundinacea</u>	20	Y	FACW	
3. <u>Solidago rugosa</u>	20	Y	FAC	
4. <u>Solidago canadensis</u>	10	N	FACU	
5. <u>Rubus phoenicolasius</u>	10	N	FACU	
6. <u>Parathelypteris noveboracensis</u>	10	N	FAC	
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	<u>100</u> = Total Cover			
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

Yes 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: \_\_\_\_\_ State: PA Sampling Point: SP-07  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None (flat) Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.530211 Long: -80.213640 Datum: NAD83 (2011)  
 Soil Map Unit Name: Frenchtown silt loam, 0 to 3 percent slopes; FhA NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Representative upland sample point is located in open field adjacent to substation.	
Wetland ID: <u>Upland</u> ; Cowardin Class: _____	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-07

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
0 = Total Cover				
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Cornus amomum</u>	5	Y	FACW	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
5 = Total Cover				
50% of total cover: <u>2.5</u>		20% of total cover: <u>1</u>		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Cirsium arvense</u>	20	Y	FACU	
2. <u>Dichanthelium clandestinum</u>	15	Y	FAC	
3. <u>Phalaris arundinacea</u>	15	Y	FACW	
4. <u>Euthamia graminifolia</u>	15	Y	FAC	
5. <u>Solidago canadensis</u>	15	Y	FACU	
6. <u>Glyceria striata</u>	10	N	OBL	
7. <u>Hypericum prolificum</u>	5	N	FACU	
8. <u>Rubus allegheniensis</u>	5	N	FACU	
9. _____				
10. _____				
11. _____				
100 = Total Cover				
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
0 = Total Cover				
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

Yes 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/29/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-07  
 Investigator(s): AFG/JMP Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.530197 Long: 80.215879 Datum: NAD83 (2011)  
 Soil Map Unit Name: FhA: Frenchtown silt loam, 0 to 3 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: W003A is a PFO wetland complex located in a depression. W003A continues out of boundary.	
<i>Wetland ID: W003; Cowardin Class: PFO</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-07

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>Salix nigra</u>	20	Y	OBL	
2. <u>Quercus palustris</u>	10	Y	FACW	
3. <u>Populus tremuloides</u>	5	N	FAC	
4. <u>Ulmus rubra</u>	5	N	FAC	
5. _____				
6. _____				
7. _____				
50% of total cover: <u>20</u>		<u>40</u> = Total Cover	20% of total cover: <u>8</u>	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Spirea japonica</u>	10	Y	NA	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
50% of total cover: <u>5</u>		<u>10</u> = Total Cover	20% of total cover: <u>2</u>	
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Phalaris arundinacea</u>	80	Y	FACW	
2. <u>Asclepias incarnata</u>	5	N	OBL	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
50% of total cover: <u>42.5</u>		<u>85</u> = Total Cover	20% of total cover: <u>17</u>	
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
50% of total cover: _____		<u>0</u> = Total Cover	20% of total cover: _____	
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

Yes 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/01/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-08  
 Investigator(s): AFG/LKK Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.530072 Long: -80.210947 Datum: NAD83 (2011)  
 Soil Map Unit Name: Alden silt loam; Ad NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland W003 is a PSS wetland located adjacent to W002.	
Wetland ID: <b>W003</b> ; Cowardin Class: <b>PSS</b>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-08

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: 30 ft radius )				
1. <i>Acer saccharum</i>	10	Y	FAC	
2. <i>Populus tremuloides</i>	5	Y	FAC	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	15 = Total Cover			
50% of total cover: 7.5		20% of total cover: 3		
<b>Sapling/Shrub Stratum</b> (Plot size: 15 ft radius )				
1. <i>Cornus amomum</i>	50	Y	FACW	
2. <i>Quercus bicolor</i>	3	N	FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	53 = Total Cover			
50% of total cover: 26.5		20% of total cover: 10.6		
<b>Herb Stratum</b> (Plot size: 5 ft radius )				
1. <i>Poa palustris</i>	20	Y	FACW	
2. <i>Carex gynandra</i>	15	Y	OBL	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	35 = Total Cover			
50% of total cover: 17.5		20% of total cover: 7		
<b>Woody Vine Stratum</b> (Plot size: 30 ft radius )				
1. None				
2. _____				
3. _____				
4. _____				
5. _____				
	0 = Total Cover			
50% of total cover: _____		20% of total cover: _____		

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

Yes 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

Yes 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

Morphological adaptations are present on *Acer saccharum* due to buttressed roots.



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/29/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-08  
 Investigator(s): AFG/JMP Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.529918 Long: -80.215631 Datum: NAD83 (2011)  
 Soil Map Unit Name: FhA: Frenchtown silt loam, 0 to 3 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: W003B is a PEM wetland complex located in a plain. W003B continues out of boundary and connects to W003A.	
<i>Wetland ID: W003; Cowardin Class: PEM</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Surface water in small concave areas throughout wetland.	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-08

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>Viburnum dentatum</u>	3	N	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>3</u> = Total Cover			
50% of total cover: <u>1.5</u>		20% of total cover: <u>0.6</u>		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Phalaris arundinacea</u>	70	Y	FACW	
2. <u>Scirpus cyperinus</u>	10	N	FACW	
3. <u>Thyrsanthella difformis</u>	10	N	FACW	
4. <u>Japanese Spirea</u>	10	N	NA	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	<u>100</u> = Total Cover			
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A)

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

Yes 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/29/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-09  
 Investigator(s): AFG/JMP Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None (flat) Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.530113 Long: -80.216163 Datum: NAD83 (2011)  
 Soil Map Unit Name: FhA: Frenchtown silt loam, 0 to 3 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Representative upland sample point located on open field adjacent to W003A and W003B.	
<i>Wetland ID: Upland; Cowardin Class:</i>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-09

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Herb Stratum</b> (Plot size: <u>5 ft radius</u> )				
1. <u>Solidago canadensis</u>	30	Y	FACU	
2. <u>Dipsacus fullonum</u>	20	Y	FACU	
3. <u>Achillea millefolium</u>	15	N	FACU	
4. <u>Dichanthelium clandestinum</u>	10	N	FAC	
5. <u>Phalaris arundinacea</u>	10	N	FACW	
6. <u>Anthoxanthum odoratum</u>	5	N	FACU	
7. <u>Festuca rubra</u>	5	N	FACU	
8. <u>Juncus tenuis</u>	5	N	FAC	
9. _____				
10. _____				
11. _____				
	<u>100</u> = Total Cover			
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

---

**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

No 2 - Dominance Test is >50%

No 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

---

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region**

Project/Site: Geneva/Morgan Street 115kv Line City/County: Crawford County Sampling Date: 07/29/2024  
 Applicant/Owner: FirstEnergy Service Company State: PA Sampling Point: SP-10  
 Investigator(s): AFG/JMP Section, Township, Range: N/A  
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None (flat) Slope (%): 0-2%  
 Subregion (LRR or MLRA): LRR N Lat: 41.530003 Long: -80.216624 Datum: NAD83 (2011)  
 Soil Map Unit Name: FhA: Frenchtown silt loam, 0 to 3 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upland sample point located adjacent t to W003D.	
Wetland ID: <u>Upland</u> ; Cowardin Class:	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>6</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SP-10

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
<b>Herb Stratum</b> (Plot size: <u>ft x ft</u> )				
1. <u>Solidago canadensis</u>	30	Y	FACU	
2. <u>Solidago altissima</u>	20	Y	FACU	
3. <u>Securigera varia</u>	15	N	UPL	
4. <u>Anthoxanthum odoratum</u>	15	N	FACU	
5. <u>Phalaris arundinacea</u>	10	N	FACW	
6. <u>Euthamia graminifolia</u>	5	N	FAC	
7. <u>Clinopodium vulgare</u>	5	N	NA	
8. _____				
9. _____				
10. _____				
11. _____				
	<u>100</u> = Total Cover			
50% of total cover: <u>50</u>		20% of total cover: <u>20</u>		
<b>Woody Vine Stratum</b> (Plot size: <u>30 ft radius</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u> = Total Cover			
50% of total cover: _____		20% of total cover: _____		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

---

**Hydrophytic Vegetation Indicators:**

No 1 - Rapid Test for Hydrophytic Vegetation

No 2 - Dominance Test is >50%

No 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Definitions of Four Vegetation Strata:**

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vine** – All woody vines greater than 3.28 ft in height.

---

**Hydrophytic Vegetation Present?** Yes  No



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**APPENDIX C**

**ANTECEDENT PRECIPITATION TOOL ANALYSIS**

---

# Antecedent Precipitation Tool v2.0 - Watershed Sampling Summary

Generated on 2024-07-30

## User Inputs

Coordinates	41.529936, -80.211804
Date	2024-07-28
Geographic Scope	HUC12
Used Gridded Precipitation	False

## Intermediate Data

Hydrologic Unit Code	050100040703
Watershed Size	21.11 mi <sup>2</sup>
# Random Sampling Points	5

## Preliminary Result

Average Antecedent Precipitation Score	10.0
Preliminary Determination	Normal Conditions

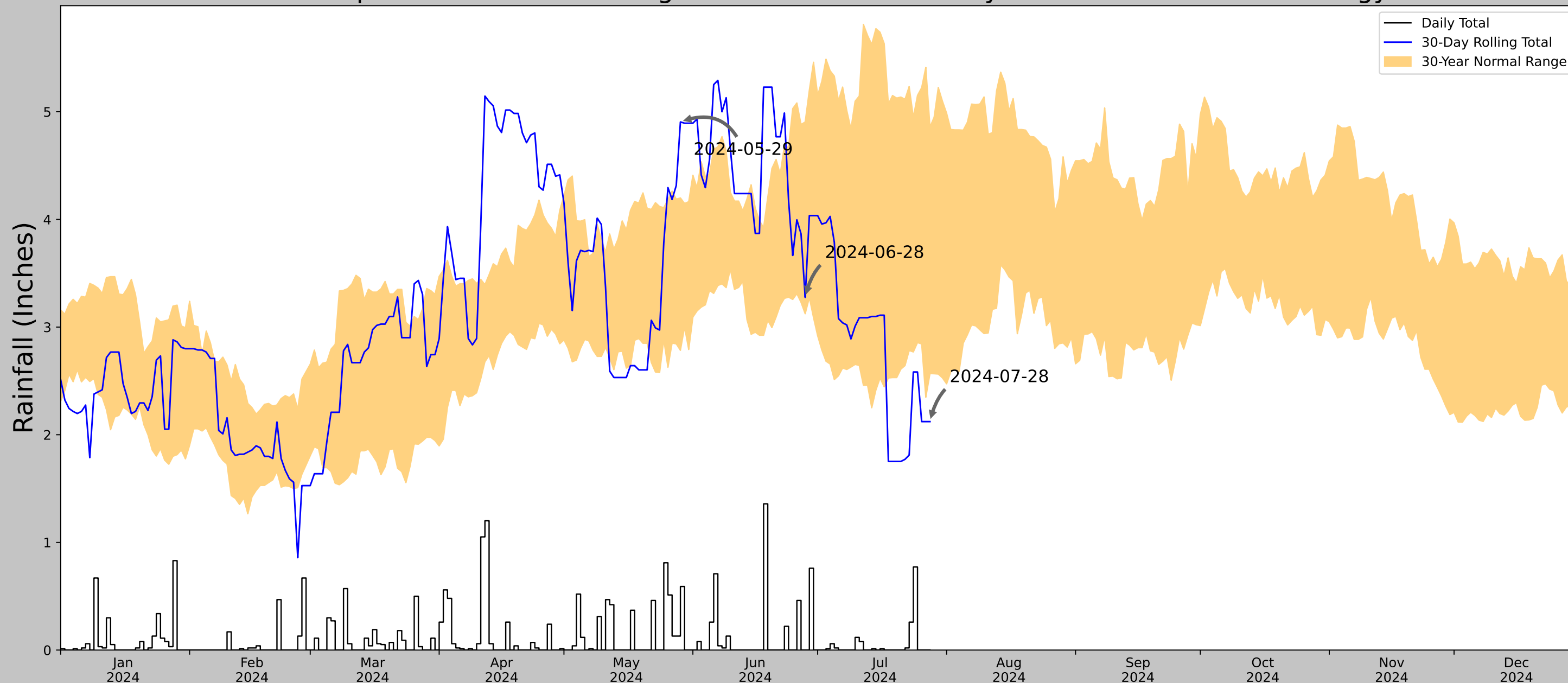


Normal Conditions

## Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H <sub>2</sub> O Balance	Drought Index (PDSI)	# of Points
10	Normal Conditions	Dry Season	Incipient drought (2024-06)	5

## Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



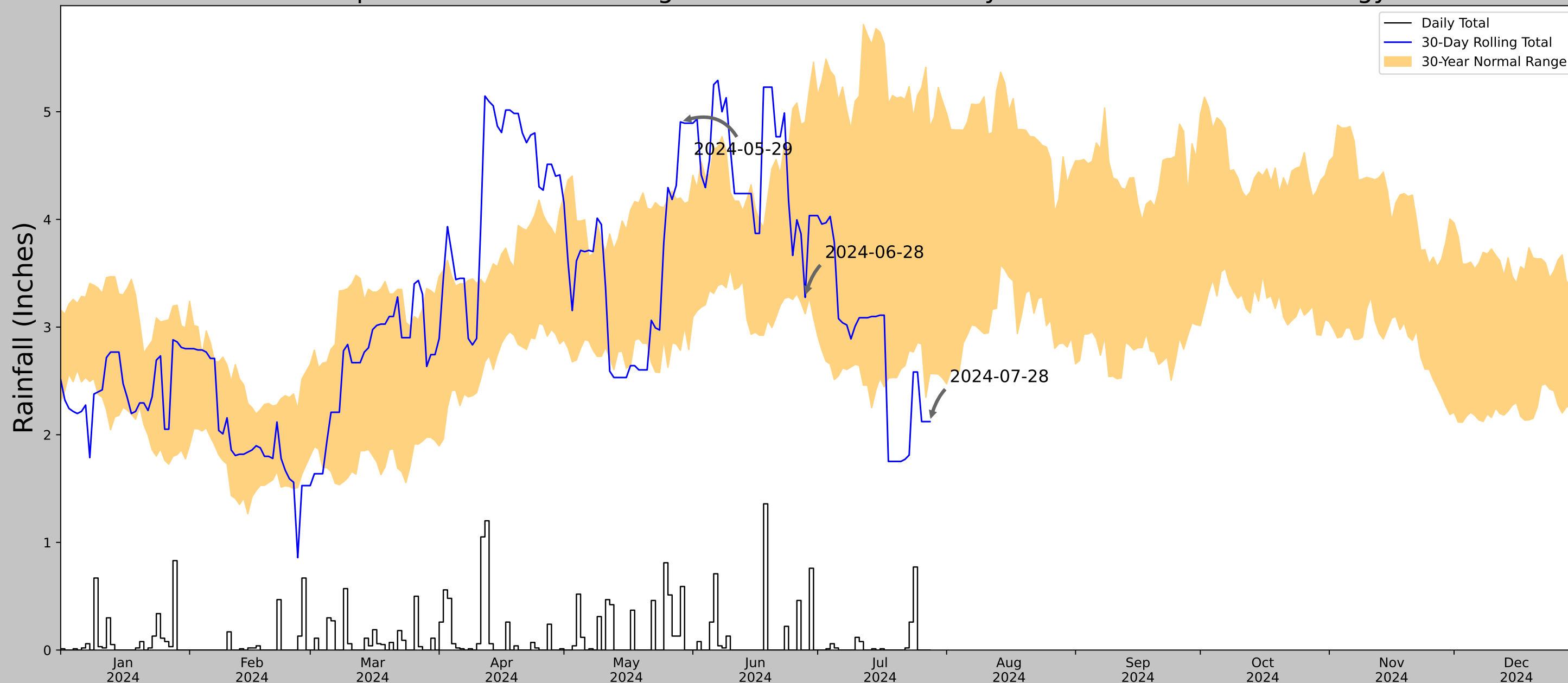
Coordinates	41.529936, -80.211804
Observation Date	2024-07-28
Elevation (ft)	1322.329806
Drought Index (PDSI)	Incipient drought (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-28	2.56811	4.85748	2.122047	Dry	1	3	3
2024-06-28	3.123622	4.905118	3.275591	Normal	2	2	4
2024-05-29	2.783858	4.199606	4.905512	Wet	3	1	3
Result							Normal Conditions - 10

Figures and tables made by the Antecedent Precipitation Tool Version 2.0  
Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MEADVILLE PORT MEADVILLE AP	41.6258, -80.2122	1402.887	6.624	80.557	3.514	9272	90
MEADVILLE 1 S	41.6333, -80.1667	1064.961	2.406	337.926	1.896	2037	0
MEADVILLE 1.0 NNE	41.6585, -80.136	1509.843	4.537	106.956	2.527	7	0
CONNEAUT LAKE 1.4 NE	41.6179, -80.2917	1132.874	4.142	270.013	2.982	11	0
MEADVILLE 6.7 NW	41.7135, -80.2409	1307.087	6.238	95.8	3.405	18	0
CONNEAUVILLE 4 ESE	41.7333, -80.2833	1270.013	8.284	132.874	4.829	1	0
LINESVILLE 1 S	41.6458, -80.425	1029.856	11.075	373.031	9.115	6	0

## Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



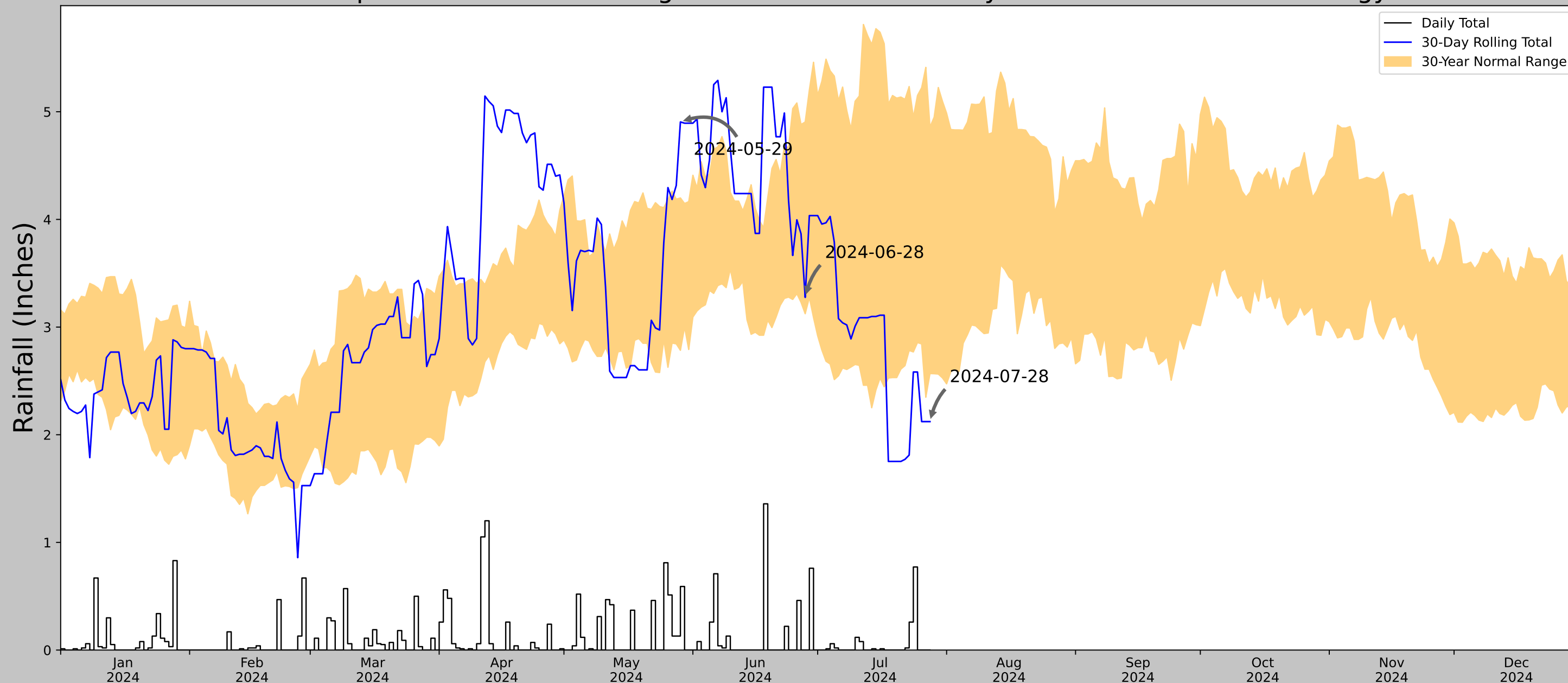
Coordinates	41.529936, -80.211804
Observation Date	2024-07-28
Elevation (ft)	1322.329806
Drought Index (PDSI)	Incipient drought (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-28	2.56811	4.85748	2.122047	Dry	1	3	3
2024-06-28	3.123622	4.905118	3.275591	Normal	2	2	4
2024-05-29	2.783858	4.199606	4.905512	Wet	3	1	3
Result							Normal Conditions - 10


 Figures and tables made by the  
 Antecedent Precipitation Tool  
 Version 2.0  
 Developed by:  
 U.S. Army Corps of Engineers and  
 U.S. Army Engineer Research and  
 Development Center  




Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MEADVILLE PORT MEADVILLE AP	41.6258, -80.2122	1402.887	6.624	80.557	3.514	9272	90
MEADVILLE 1 S	41.6333, -80.1667	1064.961	2.406	337.926	1.896	2037	0
MEADVILLE 1.0 NNE	41.6585, -80.136	1509.843	4.537	106.956	2.527	7	0
CONNEAUT LAKE 1.4 NE	41.6179, -80.2917	1132.874	4.142	270.013	2.982	11	0
MEADVILLE 6.7 NW	41.7135, -80.2409	1307.087	6.238	95.8	3.405	18	0
CONNEAUVILLE 4 ESE	41.7333, -80.2833	1270.013	8.284	132.874	4.829	1	0
LINESVILLE 1 S	41.6458, -80.425	1029.856	11.075	373.031	9.115	6	0

## Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



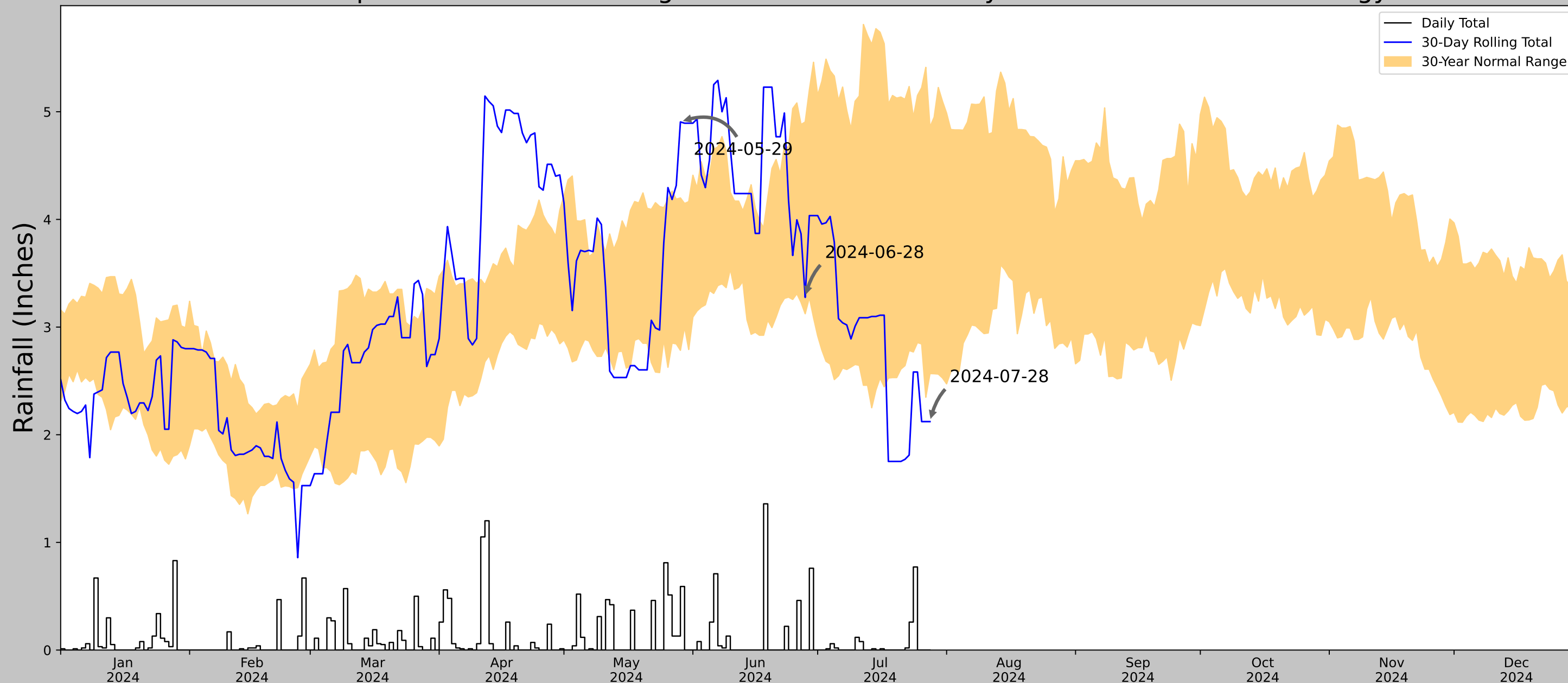
Coordinates	41.498508, -80.103198
Observation Date	2024-07-28
Elevation (ft)	1467.38042
Drought Index (PDSI)	Incipient drought (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-28	2.56811	4.85748	2.122047	Dry	1	3	3
2024-06-28	3.123622	4.905118	3.275591	Normal	2	2	4
2024-05-29	2.783858	4.199606	4.905512	Wet	3	1	3
Result							Normal Conditions - 10


 Figures and tables made by the  
 Antecedent Precipitation Tool  
 Version 2.0  
 Developed by:  
 U.S. Army Corps of Engineers and  
 U.S. Army Engineer Research and  
 Development Center  



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MEADVILLE PORT MEADVILLE AP	41.6258, -80.2122	1402.887	10.445	64.493	5.374	9272	90
MEADVILLE 1 S	41.6333, -80.1667	1064.961	2.406	337.926	1.896	2037	0
MEADVILLE 1.0 NNE	41.6585, -80.136	1509.843	4.537	106.956	2.527	7	0
CONNEAUT LAKE 1.4 NE	41.6179, -80.2917	1132.874	4.142	270.013	2.982	11	0
MEADVILLE 6.7 NW	41.7135, -80.2409	1307.087	6.238	95.8	3.405	18	0
CONNEAUTVILLE 4 ESE	41.7333, -80.2833	1270.013	8.284	132.874	4.829	1	0
LINESVILLE 1 S	41.6458, -80.425	1029.856	11.075	373.031	9.115	6	0

## Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network




Coordinates	41.516621, -80.179868
Observation Date	2024-07-28
Elevation (ft)	1336.10617
Drought Index (PDSI)	Incipient drought (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-28	2.56811	4.85748	2.122047	Dry	1	3	3
2024-06-28	3.123622	4.905118	3.275591	Normal	2	2	4
2024-05-29	2.783858	4.199606	4.905512	Wet	3	1	3
Result							Normal Conditions - 10



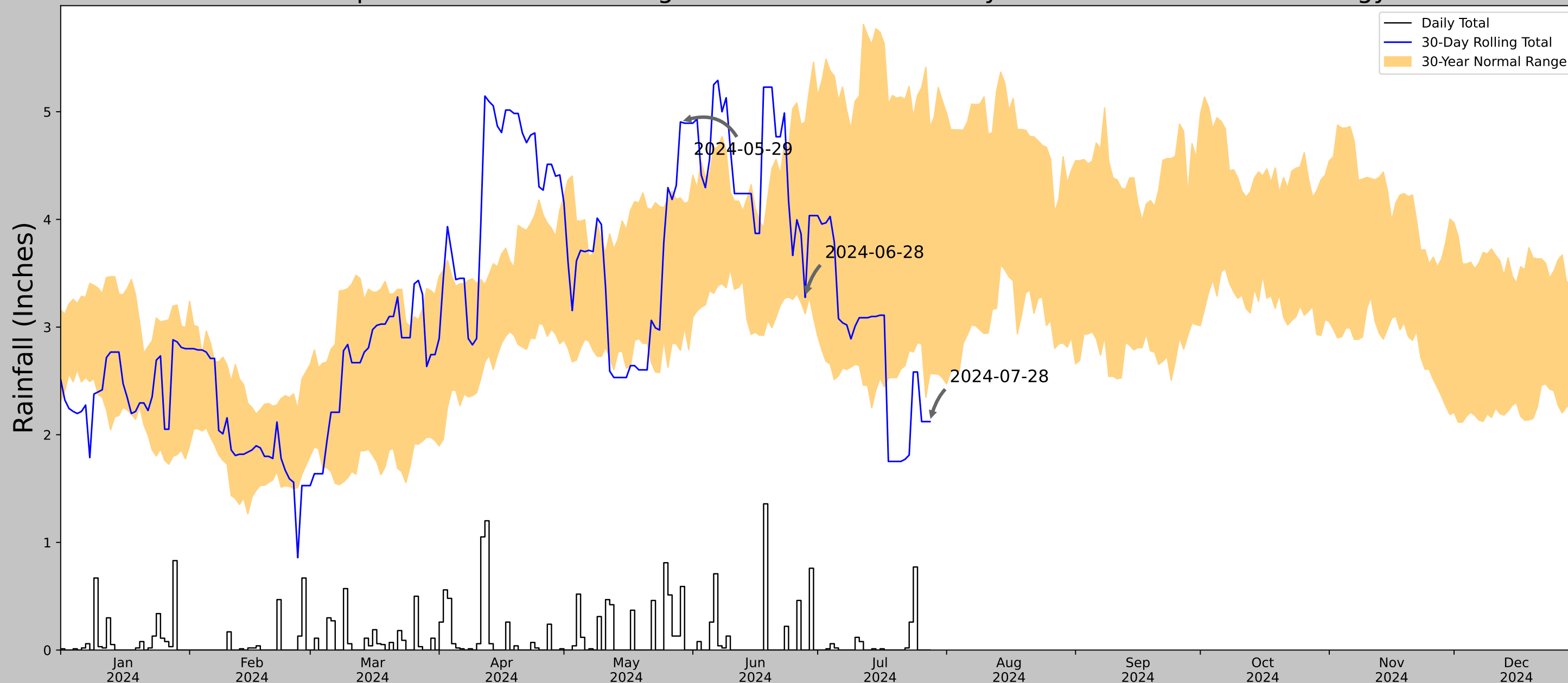
Figures and tables made by the  
Antecedent Precipitation Tool  
Version 2.0

Developed by:  
U.S. Army Corps of Engineers and  
U.S. Army Engineer Research and  
Development Center




Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MEADVILLE PORT MEADVILLE AP	41.6258, -80.2122	1402.887	7.726	66.781	3.993	9272	90
MEADVILLE 1 S	41.6333, -80.1667	1064.961	2.406	337.926	1.896	2037	0
MEADVILLE 1.0 NNE	41.6585, -80.136	1509.843	4.537	106.956	2.527	7	0
CONNEAUT LAKE 1.4 NE	41.6179, -80.2917	1132.874	4.142	270.013	2.982	11	0
MEADVILLE 6.7 NW	41.7135, -80.2409	1307.087	6.238	95.8	3.405	18	0
CONNEAUTVILLE 4 ESE	41.7333, -80.2833	1270.013	8.284	132.874	4.829	1	0
LINESVILLE 1 S	41.6458, -80.425	1029.856	11.075	373.031	9.115	6	0

## Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network




Coordinates	41.549522, -80.119796
Observation Date	2024-07-28
Elevation (ft)	1161.687393
Drought Index (PDSI)	Incipient drought (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-28	2.56811	4.85748	2.122047	Dry	1	3	3
2024-06-28	3.123622	4.905118	3.275591	Normal	2	2	4
2024-05-29	2.783858	4.199606	4.905512	Wet	3	1	3
Result							Normal Conditions - 10



Figures and tables made by the  
Antecedent Precipitation Tool  
Version 2.0

Developed by:  
U.S. Army Corps of Engineers and  
U.S. Army Engineer Research and  
Development Center



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
MEADVILLE PORT MEADVILLE AP	41.6258, -80.2122	1402.887	7.112	241.2	4.916	9272	90
MEADVILLE 1 S	41.6333, -80.1667	1064.961	2.406	337.926	1.896	2037	0
MEADVILLE 1.0 NNE	41.6585, -80.136	1509.843	4.537	106.956	2.527	7	0
CONNEAUT LAKE 1.4 NE	41.6179, -80.2917	1132.874	4.142	270.013	2.982	11	0
MEADVILLE 6.7 NW	41.7135, -80.2409	1307.087	6.238	95.8	3.405	18	0
CONNEAUVILLE 4 ESE	41.7333, -80.2833	1270.013	8.284	132.874	4.829	1	0
LINESVILLE 1 S	41.6458, -80.425	1029.856	11.075	373.031	9.115	6	0

## 1. PROJECT INFORMATION

Exhibit 8

Project Name: **Geneva-Morgan St. 115kV Line Tap**

Date of Review: **7/26/2024 03:22:13 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Power/electric line - New (new location for above/under-ground line)**

Project Area: **7.28 acres**

County(s): **Crawford**

Township/Municipality(s): **GREENWOOD TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **GENEVA**

Watersheds HUC 8: **French**

Watersheds HUC 12: **Rock Creek-Conneaut Outlet; Williams Run-Conneaut Outlet**

Decimal Degrees: **41.529876, -80.213587**

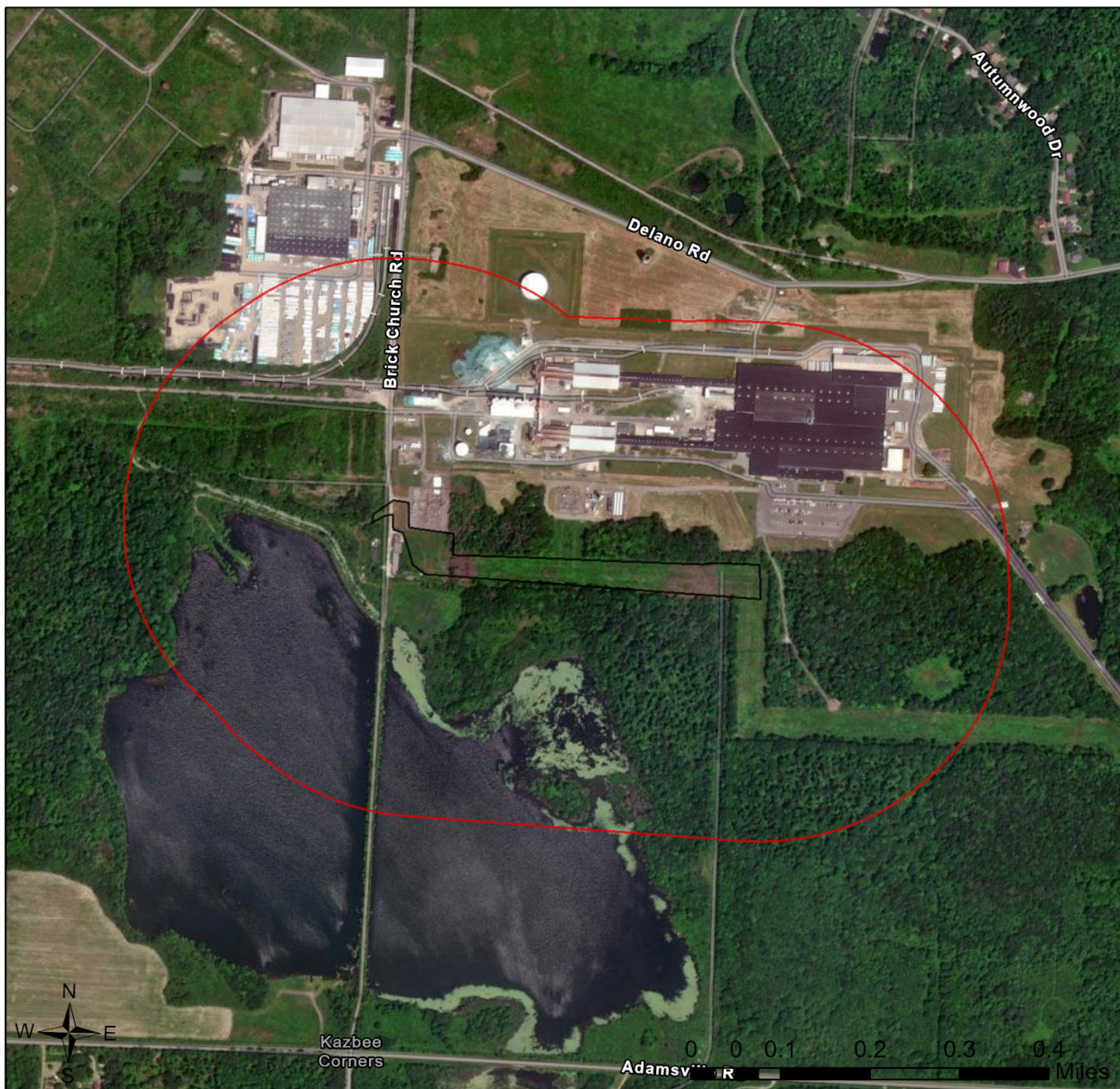
Degrees Minutes Seconds: **41° 31' 47.5519" N, 80° 12' 48.9118" W**

## 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	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

### Geneva-Morgan St. 115kV Line Tap

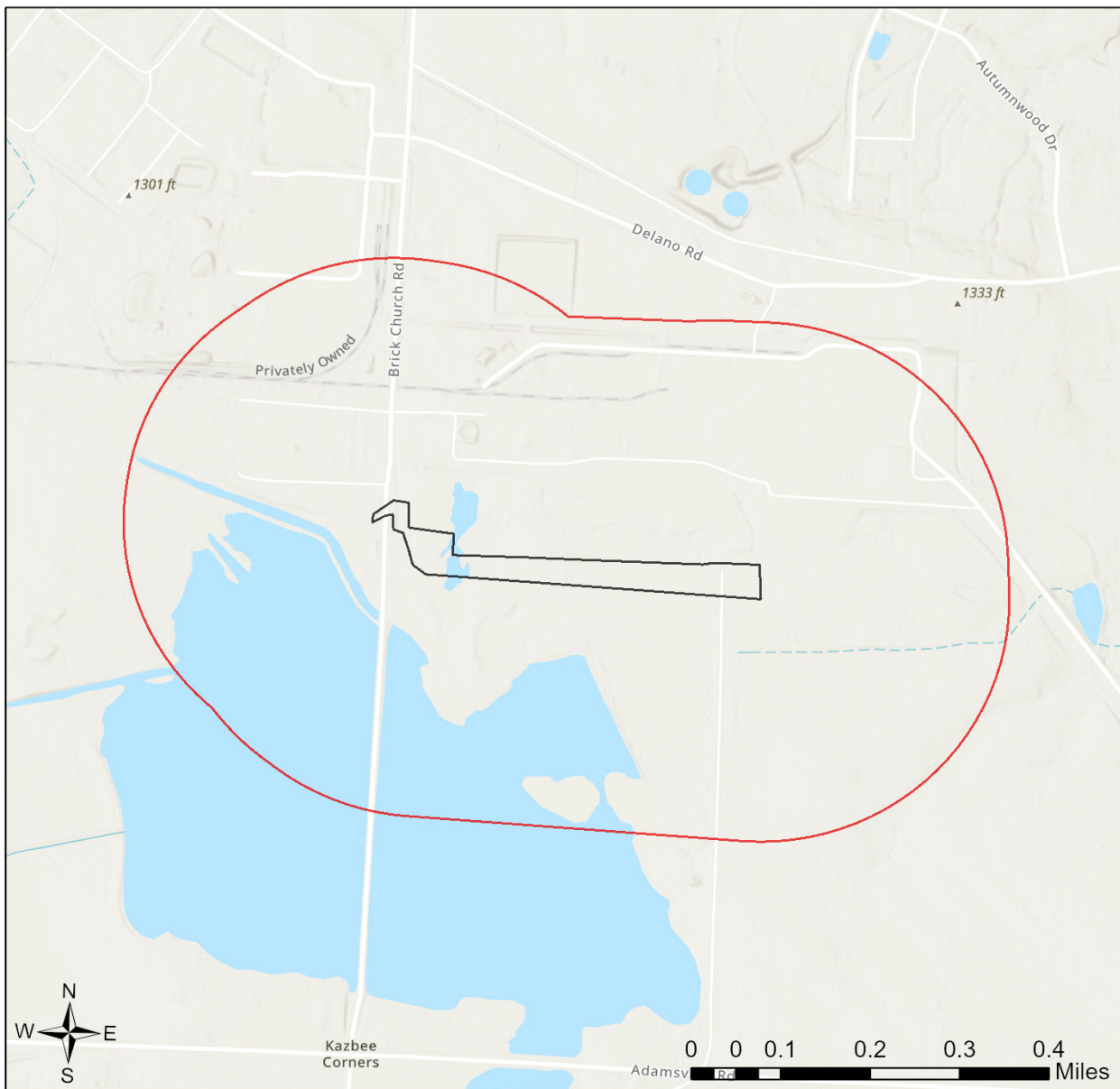




- Buffered Project Boundary
- Project Boundary



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

### Geneva-Morgan St. 115kV Line Tap



-  Buffered Project Boundary
-  Project Boundary



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

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## RESPONSE TO QUESTION(S) ASKED

**Q1:** 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:** The project will affect 1 to 39 acres of forests, woodlots and trees.

**Q2:** 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 jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

##### RESPONSE:

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

#### PA Department of Conservation and Natural Resources

##### RESPONSE:

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

#### PA Fish and Boat Commission

##### RESPONSE:

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

#### 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.

#### 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)

**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)

**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](mailto:IR1_ESPenn@fws.gov)  
NO Faxes Please

**PA Game Commission**

Bureau of Wildlife Management  
Division of Environmental Review  
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: McKenzie McKeon  
Company/Business Name: Civil & Environmental Consultants, Inc.  
Address: 700 Cherrington Parkway  
City, State, Zip: Moon Township, PA 15108  
Phone: (412 ) 429-2324 Fax: ( )   
Email: mmckeon@cecinc.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.

*McKenzie McKeon*  
applicant/project proponent signature

7/26/2024  
date



August 20, 2024

*Sent Via PA-SHARE*

RE: ER Project # 2024PR03848.001, Geneva/Morgan Street 115kV Line Tap, PA Utility Commission, Greenwood Township, Crawford County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

**Above Ground Resources**

*No Above Ground Concerns - Environmental Review - No Effect - Above Ground*

Based on the information received and available within our files, it is our opinion that the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact John Gardosik at [jgardosik@pa.gov](mailto:jgardosik@pa.gov).

**Archaeological Resources**

*No Archaeological Concerns - Environmental Review - No Effect - Archaeological*

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns regarding archaeological resources, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact John Gardosik at [jgardosik@pa.gov](mailto:jgardosik@pa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "B. Frederick". The signature is written in a cursive style with a large initial "B" and a distinct "F".

Barbara Frederick  
Environmental Review Division Manager

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

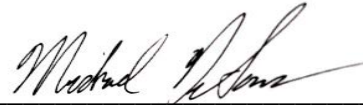
**JOINT LETTER OF NOTIFICATION  
FILING OF MID-ATLANTIC  
INTERSTATE TRANSMISSION, LLC  
AND FIRSTENERGY PENNSYLVANIA  
ELECTRIC COMPANY FOR THE  
GENEVA-MORGAN STREET 115 KV  
GMO TRANSMISSION LINE TAP  
PROJECT IN GREENWOOD TOWNSHIP,  
CRAWFORD COUNTY, PENNSYLVANIA**

**Docket No.** \_\_\_\_\_

**VERIFICATION**

I, Michael DeSarro, state that I am a Transmission Specialist for FirstEnergy Service Company; that I am authorized to make this Verification on behalf of Mid-Atlantic Interstate Transmission, LLC; and that the facts set forth in the Letter of Notification are true and correct to the best of my knowledge, information, and belief. I understand that the statements herein are subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: November 26, 2024



\_\_\_\_\_  
Michael DeSarro

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**JOINT LETTER OF NOTIFICATION :  
FILING OF MID-ATLANTIC INTERSTATE :  
TRANSMISSION, LLC AND :  
FIRSTENERGY PENNSYLVANIA :  
ELECTRIC COMPANY FOR THE : Docket No. \_\_\_\_\_  
GENEVA-MORGAN STREET 115 KV GMO :  
TRANSMISSION LINE TAP PROJECT IN :  
GREENWOOD TOWNSHIP, CRAWFORD :  
COUNTY, PENNSYLVANIA :**

**CERTIFICATE OF SERVICE**

I hereby certify that on this date, the parties listed below that are entitled to receive a Letter of Notification pursuant to 52 Pa. Code §§ 57.72(d)(3) and 57.74(b) were served by certified mail, return receipt requested, a copy of the above-captioned Letter of Notification Filing, and the parties listed below that are entitled to receive a Notice of Filing pursuant to 52 Pa. Code § 57.74(c)(1) were served by certified mail, return receipt requested, a copy of the Notice of Filing and a courtesy copy of the Letter of Notification.

Service by certified mail, return receipt requested, addressed as follows:

**Those entitled to receive a Letter of Notification:**

Pursuant to 52 Pa. Code § 57.74(b)(1) - The chief executive officer, the governing body and the body charged with the duty of planning land use in each city, borough, town, township, and county in which any portion of the HV line is proposed to be located:

Eric Henry, President  
Crawford County Board of Commissioners  
903 Diamond Park  
Meadville, PA 16335

Zachary Norwood, Director  
Crawford County Planning and Zoning  
903 Diamond Park  
Meadville, PA 16335

Scott Schell, Commissioner  
Crawford County Board of Commissioners  
903 Diamond Park  
Meadville, PA 16335

Kurt Dennis, Chairman  
Greenwood Township  
17561 Adamsville Rd  
Cochranton, PA, 16314

Christopher Seeley, Commissioner  
Crawford County Board of Commissioners  
903 Diamond Park  
Meadville, PA 16335

Richard Muir, Supervisor  
Greenwood Township  
13755 Atlantic Rd,  
Atlantic, PA, 16111

Mark McGuire, Supervisor  
Greenwood Township  
16124 Mattocks Rd,  
Cochranton, PA 16314

Pursuant to 52 Pa. Code § 57.74(b)(2) - The president of the public utility, other than the applicant, in whose service territory any portion of the HV line is proposed to be located:

*NOT APPLICABLE*

Pursuant to 52 Pa. Code § 57.74(b)(3) – The Department of Environmental Resources:

PA Department of Environmental Protection  
ATTN: Office of Chief Counsel  
400 Market St., 9th Floor  
Harrisburg, PA 17105  
CC: Secretary to PADEP Chief Counsel

PA Department of Environmental Protection  
ATTN: Bureau of Waterways Engineering  
and Wetlands  
400 Market Street  
Harrisburg, PA 17101

Pursuant to 52 Pa. Code § 5.14(b) and the Pennsylvania Public Utility Commission's Secretarial Letter issued July 27, 2018:

Via electronic mail only:

Via electronic mail only:

Office of Consumer Advocate  
555 Walnut Street  
5th Floor Forum Place  
Harrisburg, PA 17101-1923

Office of Small Business Advocate  
Suite 1102, Commerce Building  
300 North Second Street  
Harrisburg, PA 17101

Pennsylvania Public Utility Commission  
Bureau of Investigation and Enforcement  
P.O. Box 3265  
Harrisburg, PA 17105-3265

**Those entitled to receive a Notice of Filing:**

Pursuant to 52 Pa. Code § 57.74(c)(1)(i) – The Secretary of the Department of Transportation:

Office of Chief Counsel Real Property Division  
Pennsylvania Department of Transportation  
Commonwealth Keystone Building  
400 North Street, 9th Floor  
Harrisburg, PA 17120

Pursuant to 52 Pa. Code § 57.74(c)(1)(ii) – The Chairman of the Historical and Museum Commission:

Ms. Andrea Lowery, Executive Director  
Pennsylvania Historical & Museum Commission  
300 North Street  
Harrisburg, PA 17120-0024


Pursuant to 52 Pa. Code § 57.74(c)(1)(iii) – Other local, State or Federal agencies designated in § 57.72(c)(11):

Edward Thiele, Chairman  
Butler County Conservation District  
120 Hollywood Drive, Suite 201  
Butler, PA 16001

Pursuant to 52 Pa. Code § 57.74(c)(1)(iv) – Known persons, corporations and other entities of record owning property within the proposed right-of-way:

Vitro Meadville Flat Glass LLC  
5123 Victory BLVD  
Cochranton, PA 16314

Date: November 26, 2024

By:   
\_\_\_\_\_  
Joey T. Chen  
Attorney ID # 334709  
76 South Main Street  
Akron, OH 44308  
(610) 921-6784  
Email: jchen@firstenergycorp.com

*Counsel for Mid-Atlantic Interstate  
Transmission, LLC and FirstEnergy  
Pennsylvania Electric Company*