

PUCO Case No. 24-0689-EL-BLN

Submitted to: The Ohio Power Siting Board Pursuant to Ohio Administrative Code Section 4906-6-05

Submitted by: Ohio Power Company

Letter of Notification

Ohio Power Company

West Lancaster – South Baltimore – West Millersport 138 KV Transmission Line Rebuild Project

4906-6-05

Ohio Power Company (the "Company") provides the following information in accordance with the requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-5(B) General Information

B(1) Project Description

The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Letter of Notification.

The Company proposes to construct the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project (the "Project") located in Fairfield County, Ohio. The Project involves rebuilding 9.8 miles of the West Lancaster – South Baltimore 138 kV transmission line and a 4.6 mile segment of the South Baltimore – North Newark 138 kV transmission line (asset will be renamed as the South Baltimore - West Millersport 138kV Transmission Line). The Project will primarily be rebuilt within existing 100-foot right-of-way ("ROW") and generally replaces wood structures with steel monopole structures.

Figures 1 and 2, included in Appendix A, show the location of the Project in relation to the surrounding vicinity.

The Project meets the requirements for a LON because the components are within the types of projects defined by item 2(b) of Ohio Administrative Code Section 4906-1-01 Appendix A of the Application Requirement Matrix For Electric Power Transmission Lines:

(2) Adding new circuits on existing structures designed for multiple circuit use, replacing conductors on existing structures with larger or bundled conductors, adding structures to an existing transmission line, or replacing structures with a different type of structure, for a distance of:

(b) More than two miles

The Project has been assigned PUCO Case No. 24-0689-EL-BLN.

B(2) Statement of Need

If the proposed project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

The Company has identified the need to rebuild the West Lancaster – South Baltimore and a segment of the South Baltimore – North Newark 138 kV Transmission Lines. The conductor was installed in the 1950's and has not been replaced since the lines were originally put in-service. The majority of the structures are wood structures between 25 and 70 years old and make up approximately 72% of structures along the lines. Some structures have been replaced overtime with steel, due to their age and condition. Today, there are a significant number of open structural conditions reported on the 14.4 mile project

segment affecting the poles and other structural components. These conditions include damage to structures, insect and woodpecker damage, along with rot conditions on structures. There are 51 unique structures with at least one open structural condition reported, which correlates to 49% of the structures along the Project. Further, there are several spans of conductor and shield wire with broken strands. Considering the age and condition of the transmission lines, the Company has identified the need to rebuild the assets using modern materials and current engineering and construction standards. The Project will also support continued customer expansion in the Lancaster area.

Failure to address asset renewal needs will increase the risk for reliability issues due to the age and conditions of the current facilities.

The need and solution for this Project were presented to PJM on February 15, 2024, and March 15, 2024, respectively, see Appendix B. The project was subsequently assigned a PJM number S3308. The Project was not included in the Company's 2024 Long Term Forecast Report (LTFR) because the solution was not known at the time of filing.

B(3) Project Location

The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the Project area.

The Project is located in Fairfield County, Ohio. Figure 1 in Appendix A shows the location of the Project in relation to the existing utility infrastructure in the area.

B(4) Alternatives Considered

The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.

The Company conducted an analysis that included initial investigations of potential 138 kV line route alternatives between the proposed West Lancaster Station, the South Baltimore Station, and the West Millersport Station. The line segment between the West Lancaster Station and South Baltimore Station runs through the City of Lancaster, as well as surrounding rural areas. The portion of the line from South Baltimore to West Millersport is rural in nature. Alternatives to avoid the highly urbanized residential and commercial sections of the City of Lancaster resulted in options that were not feasible due to the excessive length of potential reroutes and the large number of impacts the alternative routes would have to ecological resources, property owners, and existing infrastructure compared to the existing route. No other alternatives were identified for the Project.

Following the initial analysis, no major alternatives were considered for the Project because the proposed route is primarily located within existing ROW and the majority of new structures will be rebuilt near their existing locations. Additionally, the City of Lancaster provides a significant land use constraint as any alternative would affect existing properties. In addition to the land use constraints, the existing ROW and relative lack of environmental or cultural constraints, confirm that rebuilding this circuit, as proposed herein, is the most feasible option. Any other alternative would add length to the Project without any additional benefit.

However, two diversion areas, ranging from 5 to 100 feet off the existing centerline were identified and are primarily needed to avoid or maximize distance between the centerline and nearby residences. These diversions have no known impacts to cultural resources areas, forested areas, streams, or wetlands.

Collectively, the Project represents the most suitable location and is the most appropriate solution for meeting the Project needs.

B(5) Public Information Program

The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.

The Company will inform affected property owners and tenants about this Project through several different mediums. Within seven days of filing this LON, the Company will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements of Ohio Revised Code ("OAC") Section 4906-6-08(A)(1-6). Further, the Company will mail a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowner the Company may approach for an easement necessary for the construction, operation, or maintenance of the Project. The letter will comply with all requirements of OAC Section 4906-6-08(B). The Company maintains a website (https://aeptransmission.com/ohio/lancastermillersport/) on which an electronic copy of this LON and the public notice for this LON. An electronic copy of the LON will be served to the public library in each political subdivision affected by this proposed Project. The Company retains ROW land agents that discuss Project timelines, construction and restoration activities and convey information to affected owners and tenants throughout the Project.

B(6) Construction Schedule

The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.

Construction of the Project is planned to begin in December 2024, and the anticipated in-service date will be August 2026.

B(7) Area Map

The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Figure 1 in Appendix A provides the proposed Project area and existing transmission facilities on a map of 1:24,000-scale (1-inch equals 2,000 feet), showing the Project on a United States Geological Survey (USGS) 7.5-minute topographic map of the Amanda, Baltimore, Carroll, and Millersport quadrangles. Figure 2 in Appendix A shows the Project area on ESRI World Imagery, dated 2021, as provided by the Environmental Systems Research Institute (ESRI), at a scale of 1:6,000 (1-inch equals 500 feet).

To visit the Project site from Columbus, Ohio, take I-70 East to US-33 E toward Lancaster for approximately 24 miles. Use the right lane to take the US-22 ramp to Lancaster/Circleville, then turn left onto US-22 E. Continue for approximately 1 mile to the Project site. The approximate address of the West Lancaster Station site is 1901 Cincinnati-Zanesville Rd SW, Lancaster, OH 43130, at latitude 39.700345, longitude -82.63743.

B(8) Property Agreements

The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

Please refer to Appendix C for a table of property parcel numbers and an indication as to whether the easement/option necessary to construct and operate the Project has been obtained.

The form easements in Appendix C represents the easement rights the Company would seek if condemnation proceedings were necessary to construct, operate, and maintain these facilities.

B(9) Technical Features

The applicant shall describe the following information regarding the technical features of the project:

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The West Lancaster – South Baltimore – West Millersport 138 kV transmission line construction is anticipated to include the following:

Voltage: 138kV

Conductors: 1033.5 kcmil 54/7 Curlew/ACSS Static Wire: 144ct OPGW 0.646" Diameter

Insulators: NCI ROW Width: 100 Feet

Structure Type: Sixteen (16) Single circuit, monopole steel dead-end structures with drilled shaft

concrete foundations

One (1) Single circuit, H-Frame steel dead-end structures with drilled shaft

concrete foundations

Seven (7) single circuit, monopole steel running corner structure with drilled shaft

concrete foundation

Eighty (80) single circuit, monopole steel-braced post structures with direct

embedded foundations

B(9)(b) Electric and Magnetic Fields

For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.

Three loading conditions were examined: (1) Normal Maximum Loading, (2) Emergency Loading, and (3) Winter Normal Conductor Rating, consistent with the OPSB requirements. Normal Maximum Loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this circuit of this line would operate at its WN rating in the foreseeable future.

EMF levels were computed one meter above ground under the line and at the ROW edges (50/50 feet, left/right, of centerline).

The results, calculated using EPRI's EMF Workstation 2015 software are summarized below.

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and 1.0 P.U. Voltages. ROW width is 50 feet (left) and 50 feet (right) of centerline, respectively.

West Lancaster - South Baltimore - West Millersport						
Condition	Phase current (A)	Phasing Arrangements	Sag (feet)	Electric Field (kV/m)*	Magnetic Field (mG)*	

(1) Normal Max. Loading^	296.68	A-B-C	16.94	(0.26/0.99/0.25)	(8.45/25.45/9.43)
(2) Emergency Line Loading^^	568.40	A-B-C	24.02	(0.29/1.50/0.26)	(18.31/75.1/20.74)
(3) Winter Conductor Rating^^^	2479.68	A-B-C	16.94	(0.26/0.99/0.25)	(70.66/212.74/78.83)

[^]Peak line flow expected with all system facilities in service.

For power-frequency EMF, IEEE Standard C95.6TM-2002 recommends the following limits:

		Controlled Environment
Electric Field Limit (kV/m)	5.0	20.0
Magnetic Field Limit (mG)	9040	27,100

The above EMF levels are well within the limits specified in IEEE Standard C95.6TM-2002. Those limits have been established to "prevent harmful effects in human beings exposed to electromagnetic fields in the frequency range of 0-3 kHz."

B(9)(c) Project Cost

The estimated capital cost of the project.

The cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$42,682,500 based on a Class 4 estimate. Pursuant to the PJM Open Access Transmission Tariff ("OATT"), the costs for this Project will be recovered in the Ohio Power Company's Federal Energy Regulatory Commission ("FERC") formula rate (Attachment H-14 to the PJM OATT) and allocated to the AEP Zone.

B(10) Social and Ecological Impacts

The applicant shall describe the social and ecological impacts of the project:

B(10)(a) Land Use Characteristics

Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

An aerial photograph of the Project vicinity is provided as Figure 2. The majority of the Project has historically been agricultural land and scrub-shrub vegetation with small, scattered woodlots and residential parcels throughout the Project area within Fairfield County. A portion of the Project also proceeds through a heavily urbanized portion within the City of Lancaster, consisting of residential and commercial properties. There are no parks, churches, cemeteries, wildlife management areas, or nature preserve lands within 100 feet of the Project. One cemetery and four churches were identified within 1,000 feet of the Project.

B(10)(b) Agricultural Land Information

Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

^{^^}Maximum flow during a critical system contingency

^{^^^}Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

The Fairfield County Auditor provided a list of parcels registered as Agricultural District Land on June 25, 2024. The Agricultural District Land parcel lists are updated each calendar year. The Project intersects nine parcels that were identified as Agricultural District Land parcels. Approximately 34 acres of agricultural district land is located within the proposed ROW of the Project. Approximately 104 acres of agricultural land, total, is located within the proposed ROW of the Project.

Any impacts to agricultural land and agricultural district land will be limited to the footprint of the structures. It is not anticipated that lands will be converted from agricultural use as a result of the Project.

B(10)(c) Archaeological and Cultural Resources

Provide a description of the applicant's investigation concerning the presence or absence of significant archaeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

A Phase I Archaeological Investigation and a History/Architecture Investigation for the Project occurred in April and May 2024. Thirty-two (32) archaeological sites and 84 architectural resources of 50 years of age or older were identified within the Area of Potential Effect (APE).

On May 11, 2024, a response from the Ohio State Historic Preservation Office ("SHPO") was received. The SHPO concurred with the recommendations of eligibility and stated that, of the identified sites, one archeological site (33FA0419) was recommended for avoidance or additional investigation and two architectural sites (FAI0090105 and FAI0090210) were recommended as being eligible for listing in the National Register of Historic Places (NRHP).

On June 20, 2024, the SHPO responded to correspondence regarding an addendum to the South Baltimore-West Millersport section of the Project. The SHPO identified one new OAI site. The SHPO concurred that this site not be recommended as eligible for listing on the NRHP. No additional archaeological survey is recommended within the addendum project area.

On June 22, 2024 a response was received from the SHPO were received regarding an addendum to the West Lancaster-South Baltimore section of the Project. Three OAI sites (33FA0180, 33FA0419, and 33FA1720) were identified as within the project area. No further coordination is recommended for site #33FA0180, while additional investigation is recommended for site #33FA1720. At the time of submission, Phase II assessment work for OAI site 33FA0419 was actively underway and the entirety of this expanded work area will be addressed through those investigations. Likewise, per the submission, OAI site 33FA1720 is located within this expanded work area and will be addressed concurrently with the Phase II investigations for site 33FA0419. Finally, two new OAI sites were identified and neither site was recommended eligible for listing on the NRHP.

The Company has begun Phase II investigations at site 33FA0419 and 33FA1720, and has submitted an avoidance plan to SHPO for sites 33FA2873 and 33FA2898. A response from the SHPO regarding the submitted avoidance plan is still pending. All other sites are avoided with the current draft access plan. Current correspondence with SHPO is provided as Appendix C. Additional coordination correspondence will be provided as received.

B(10)(d) Local, State, and Federal Agency Correspondence

Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.

A Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization of construction stormwater discharges under General Permit OHC000006. The Company will also coordinate

stormwater permitting needs with local government agencies, as necessary. The Company will implement and maintain best management practices as outlined in the Project-specific Stormwater Pollution Prevention Plan to minimize erosion and control sediment to protect surface water quality during storm events.

The Company's consultant conducted a stream and wetland delineation within the Project study area. During the survey, eight wetlands, 17 streams, and two ponds were identified within the Project area. Two wetlands will require temporary impacts for access and workpads. Impacts to streams and ponds are not anticipated as no in-water work is proposed. A Pre-Construction Notification for Nationwide Permit 57 will be filed with the U.S. Army Corps of Engineers regarding temporary impacts to wetlands.

Various portions of the Project are mapped within the 100-year floodway, Flood Zone AE as identified in FEMA Map ID #39045C0234G, #39045C0232G, #39045C0145G, #39045C0153G, #39045C0154G, #39045C0152G, # 39045C0065G as provided as Appendix F. The Company will file for a Development Permit for Special Flood Hazard Area with the City of Lancaster.

There are no other known local, state, or federal requirements that must be met prior to commencement of the proposed Project.

B(10)(e) Threatened, Endangered, and Rare Species

Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

On March 25, 2024, coordination letters were sent to United States Fish and Wildlife Service (USFWS) and the Ohio Department of Natural Resources (ODNR) Ohio Natural Heritage Program (ONHP) and Division of Wildlife (DOW), seeking an environmental review for the Project for potential impacts to threatened and endangered species. Response letters were received on April 17, 2024, and April 26, 2024 by the USFWS and ODNR, respectively.

According to the response letters received from the USFWS dated April 17, 2024 and ODNR dated April 26, 2024, four bat species, northern long-eared bat (Myotis septentroinalis), Indiana bat (Myotis sodalist), little brown bat (Myotis lucifugus), and tricolored bat (Perimyotis subflavus) were identified as being within range of the Project area and ODNR/USFWS request adherence to seasonal tree clearing activities (October 1 to March 31). Based on general observations during the ecological survey, the existing land use is primarily urban or agricultural row crop. Forested clearing is not anticipated; any tree clearing needed for the 138kv will be completed between October 1 to March 31 unless agency (ODNR/USFWS) permission is obtained. Additionally, the Company's consultant completed a desktop review for potential hibernaculum within 0.25 miles of the Project area and no caves, mines, and/or karst features were identified. As per ODNR/USFWS current guidance, further coordination regarding potential hibernaculum is only necessary if the habitat assessment find potential habitat within 0.25 miles of the Project area. Therefore, no further coordination was necessary with either the ODNR and/or USFWS regarding these species. Results of the desktop habitat assessment has been included within Appendix C.

The ODNR identified one mussel species, Kidneyshell (Ptychobranchus fasciolaris), within 1 mile of the Project areaHowever, due to the absence of in-stream work within the Project area, no impacts are anticipated to this species and further coordination with the ODNR is not warranted.

The ODNR also identified a Great Blue Heron Rookery within 1 mile of the Project area. This species is not recorded within the Project area. Based on existing site conditions, potential nesting habitat for the Great Blue Heron was *not* identified due to the existing land use being urban areas, residential lawns, and actively

farmed agricultural areas. Therefore, no further coordination regarding the rookery was warranted as no habitat was present.

The ODNR also identified two aquatic fish species, the northern brook lamprey (Ichthyomyzon fossor) and the popeye shiner (Notropis ariommus), within range of the Project area. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. Due to the absence of in-stream work within the Project area, no impacts are anticipated to this species and further coordination with the ODNR is not warranted.

Lastly, the ODNR commented that the Project is within range of one bird species, Northern harrier (Circus hudsonius). Based on existing site conditions, potential nesting habitat for the Northern Harrier was identified within the Project area. As per the ODNR initial guidance provided in Appendix D, this species is not likely to be impacted by the Project if their habitat will not be impacted. Therefore, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31.

A copy of the agency correspondence is provided in Appendix D. Additional information regarding habitat assessments within the Project area is provided within the Wetland Delineation and Stream Assessment Report found in Appendix E.

B(10)(f) Areas of Ecological Concern

Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

The Company's consultant prepared an ecological survey report for the Project, which is provided in Appendix E. A survey of the Project area identified eight palustrine emergent (PEM) wetlands. Two wetlands will require temporary impacts for access and workpads. Additionally, 17 streams were identified within the Project area as well as 2 pond features. No in-water work is proposed for this Project and impacts to streams and ponds are not anticipated.

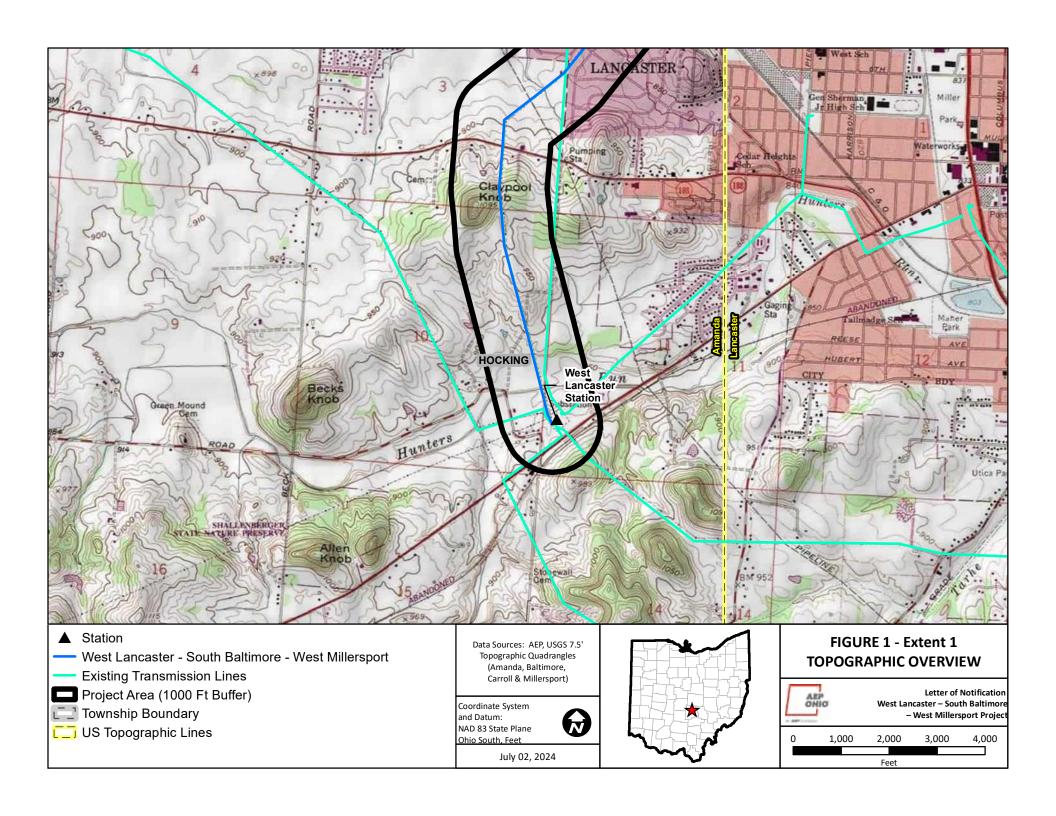
Coordination letters were submitted to the USFWS and ODNR requesting a review the Project and identification of areas of ecological concern. The USFWS's response email was received on April 17, 2024, (Appendix D) and did not indicate any federal wilderness areas, wildlife refuges, or designated critical habitat within the vicinity of the Project. The ODNR's response received on April 24, 2024 (Appendix D) did not indicate any known unique ecological sites, geologic features, scenic rivers, state wildlife areas, state natural preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas within the Project area.

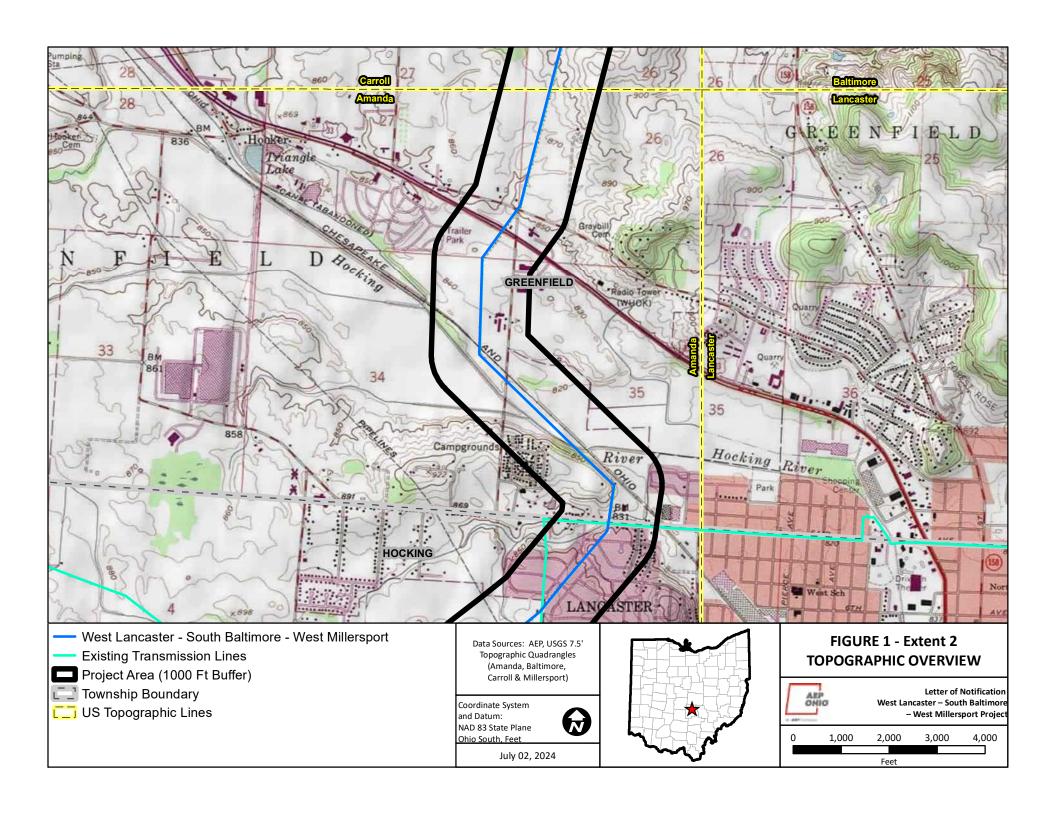
B(10)(g) Unusual Conditions

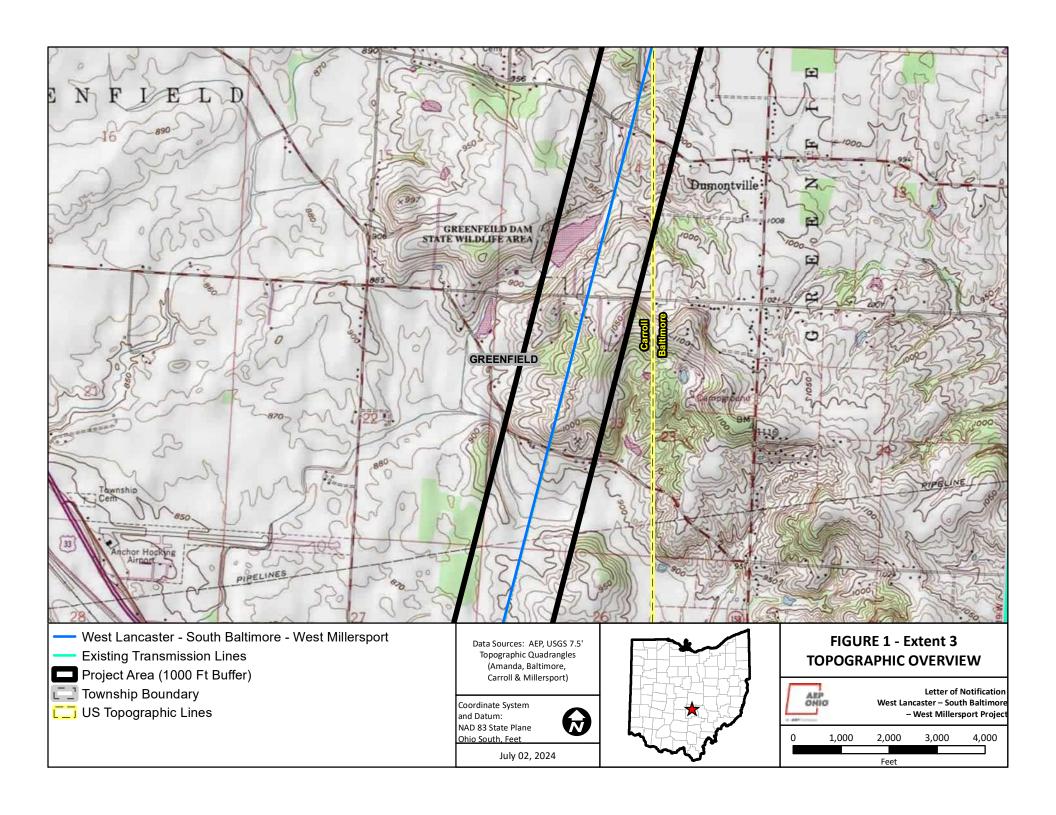
Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

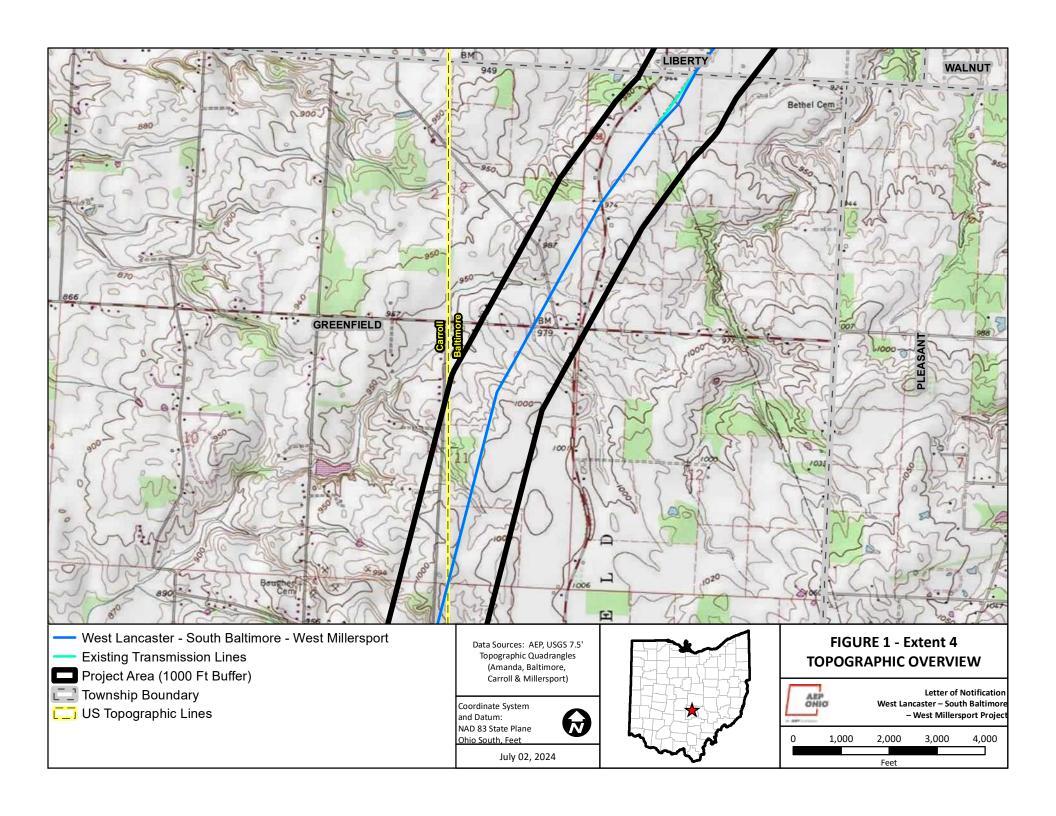
To the best of the Company's knowledge, no unusual conditions exist that would result in significant environmental, social, health, or safety impacts.

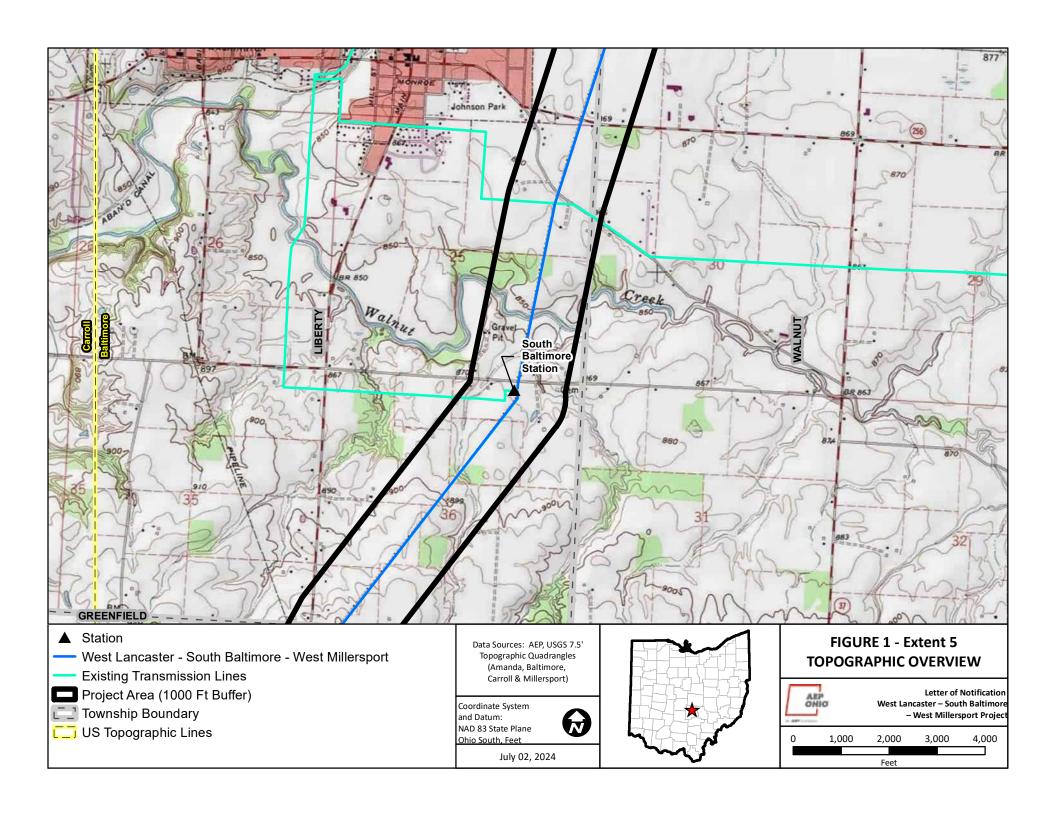
Appendix A Project Figures

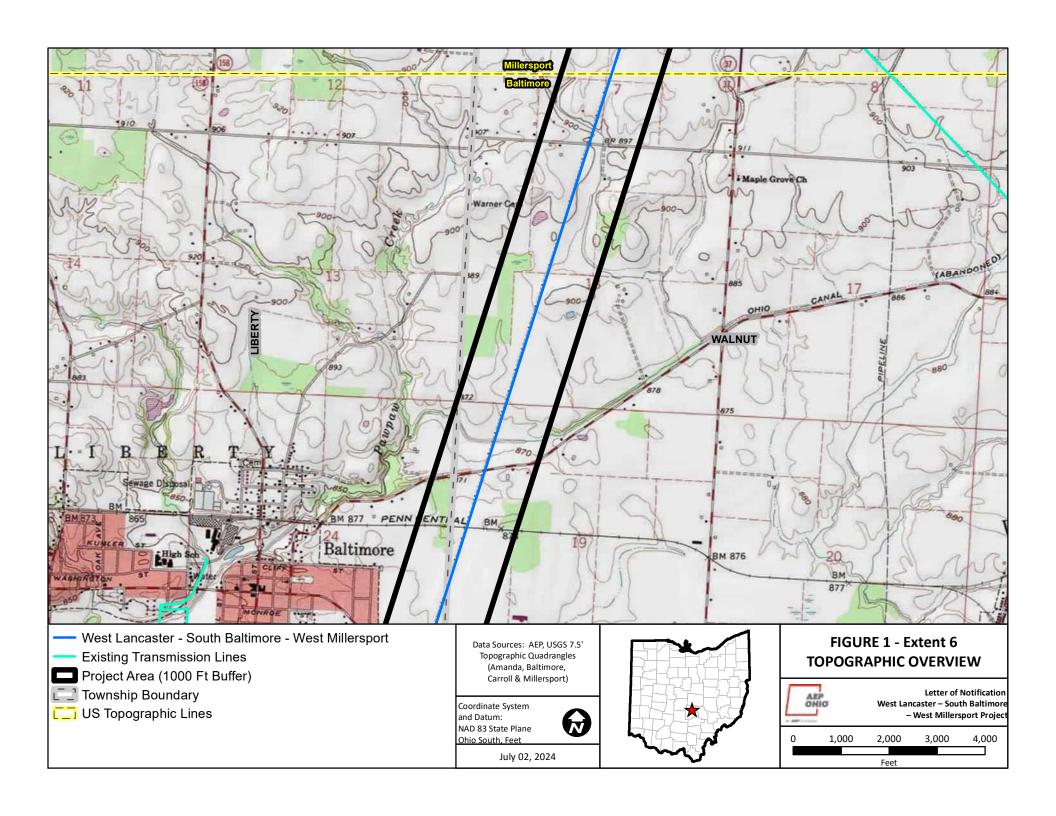


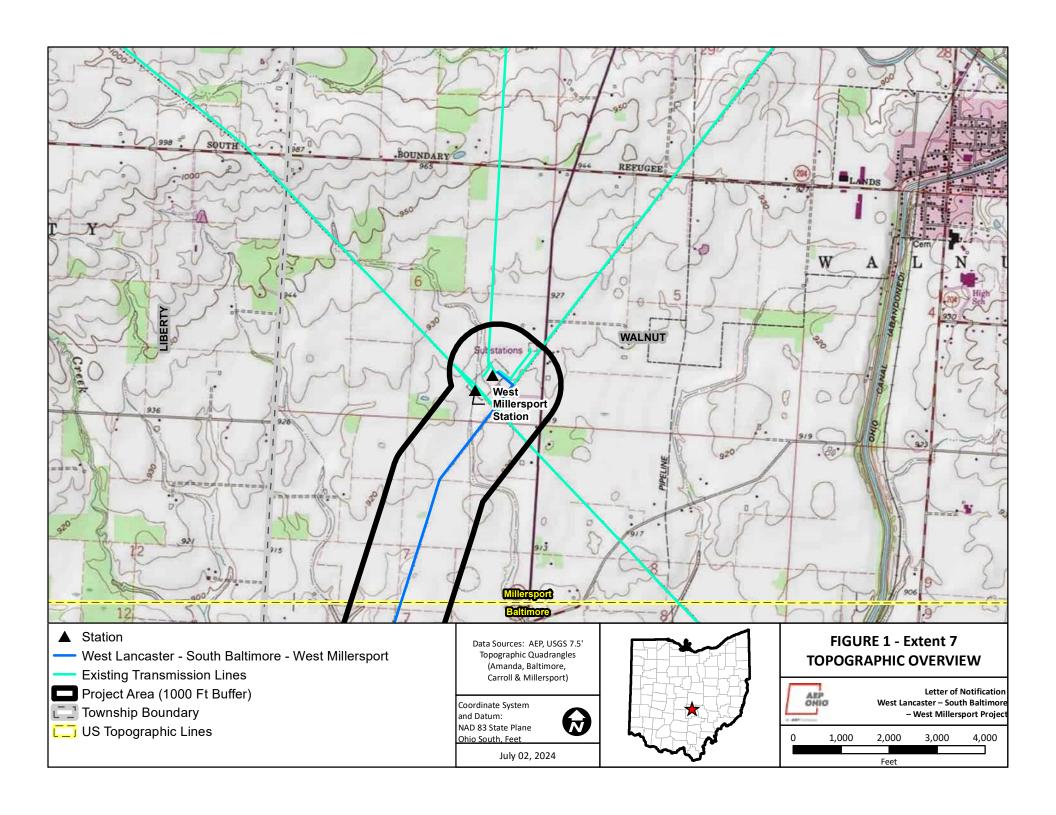


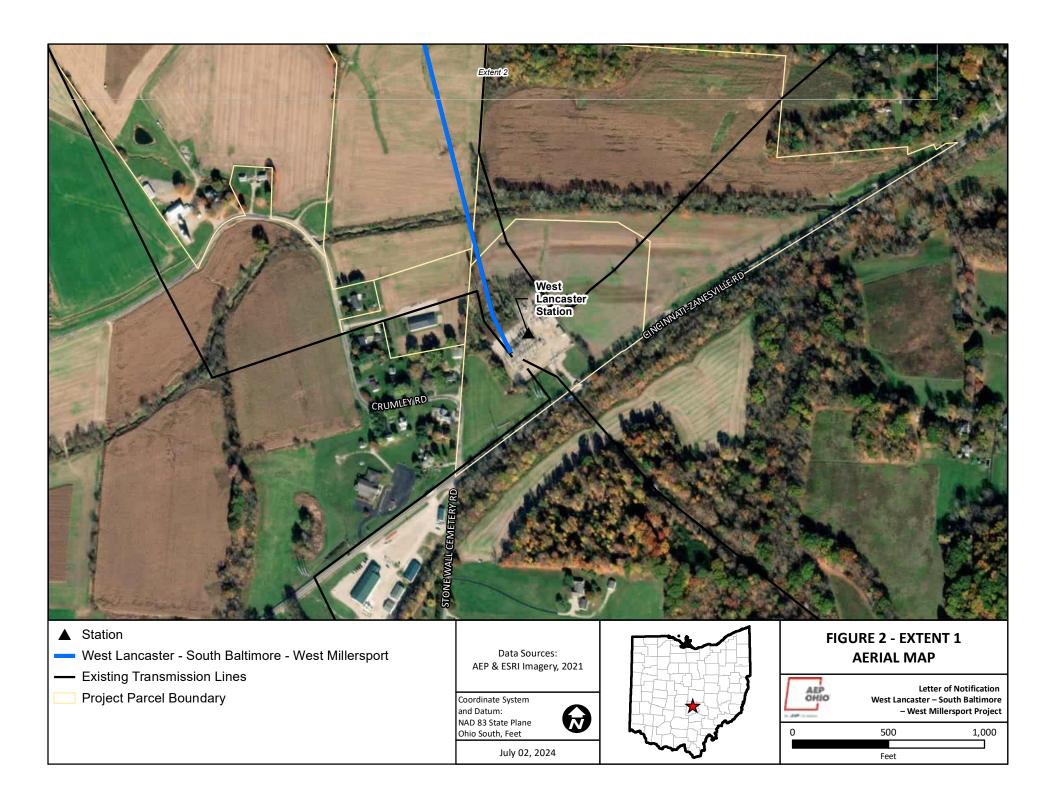
















- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

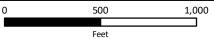
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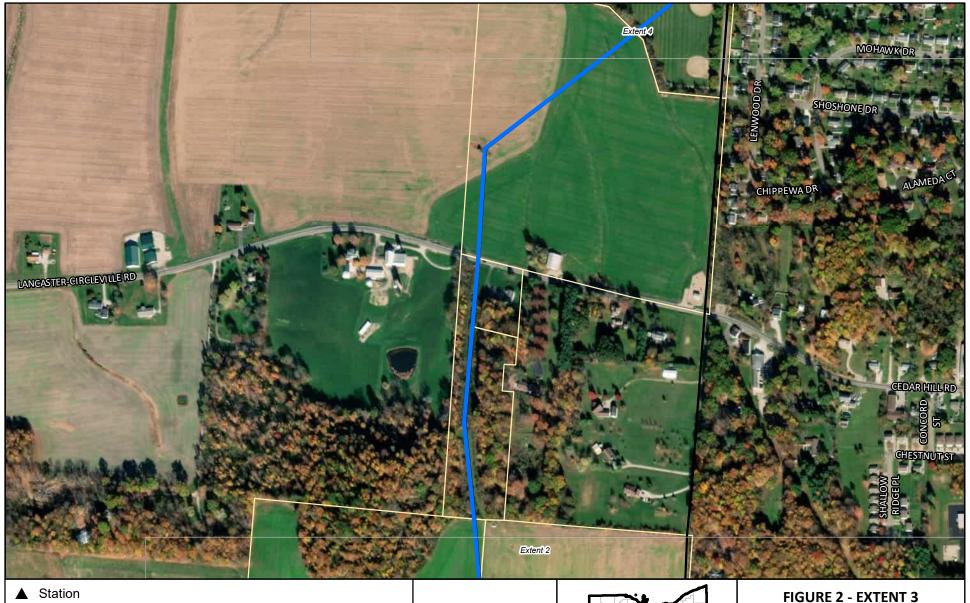
July 02, 2024



FIGURE 2 - EXTENT 2 AERIAL MAP







- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

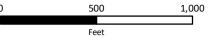
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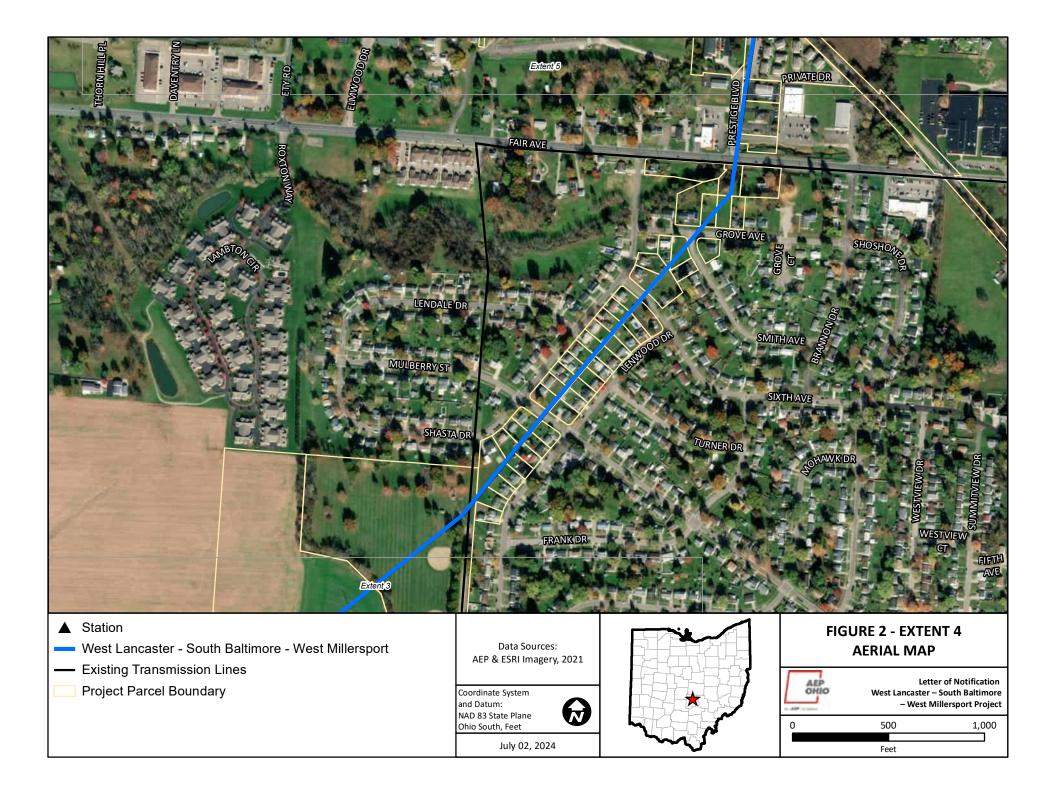
July 02, 2024

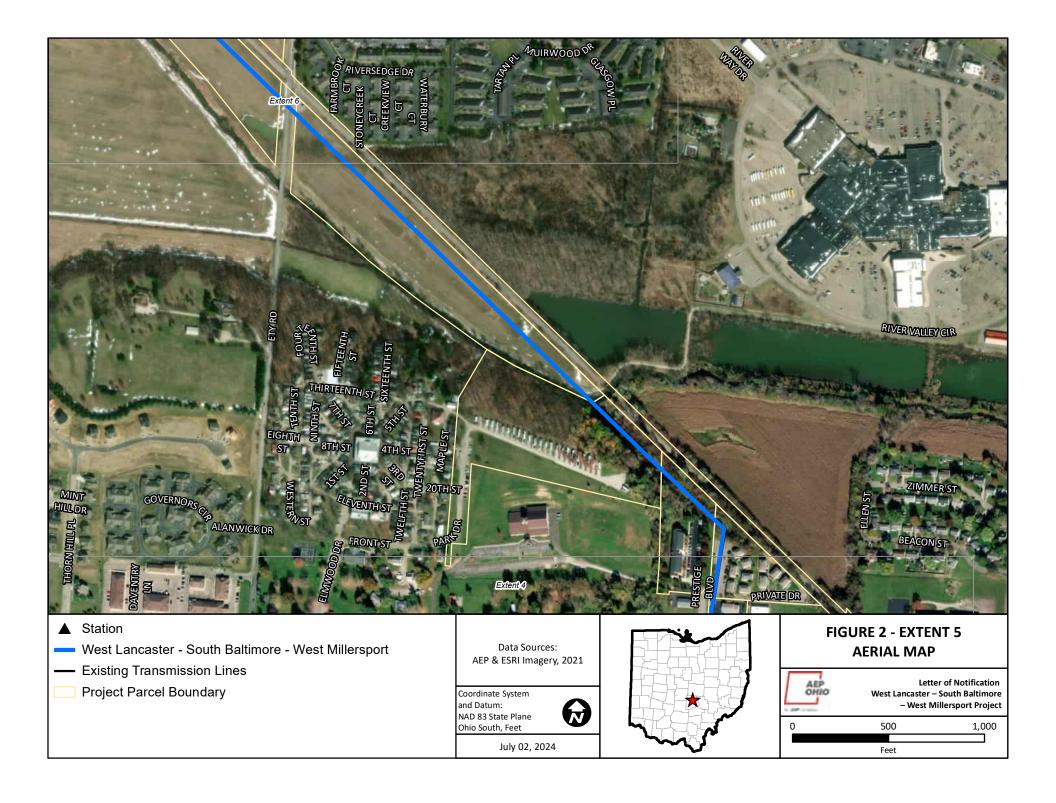


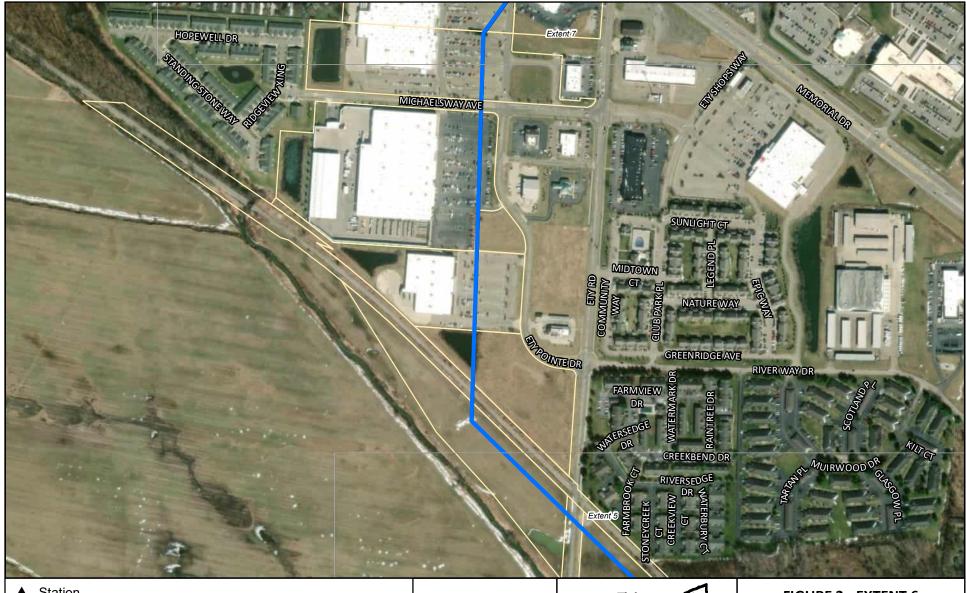
FIGURE 2 - EXTENT 3 AERIAL MAP











- ▲ Station
- West Lancaster South Baltimore West Millersport
- **Existing Transmission Lines**
- **Project Parcel Boundary**

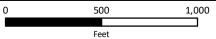
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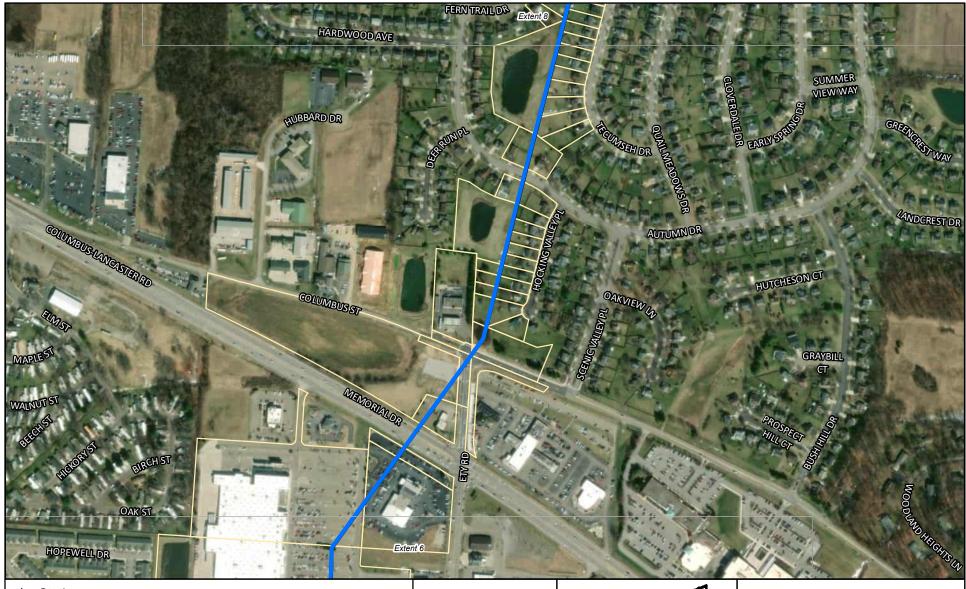
July 02, 2024



FIGURE 2 - EXTENT 6 **AERIAL MAP**







- ▲ Station
- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

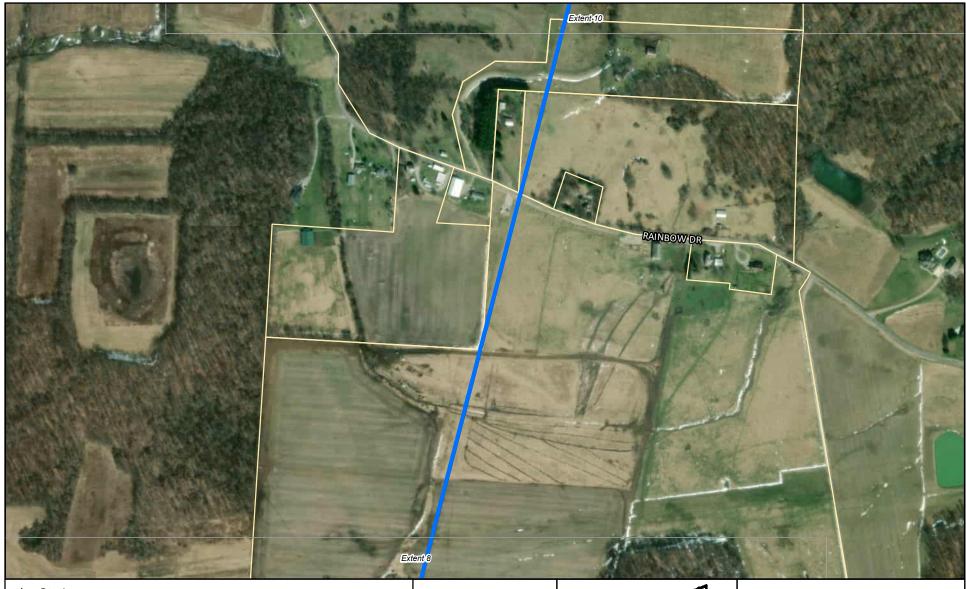
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July 02, 2024



FIGURE 2 - EXTENT 7 AERIAL MAP





- ▲ Station
- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

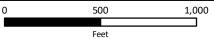
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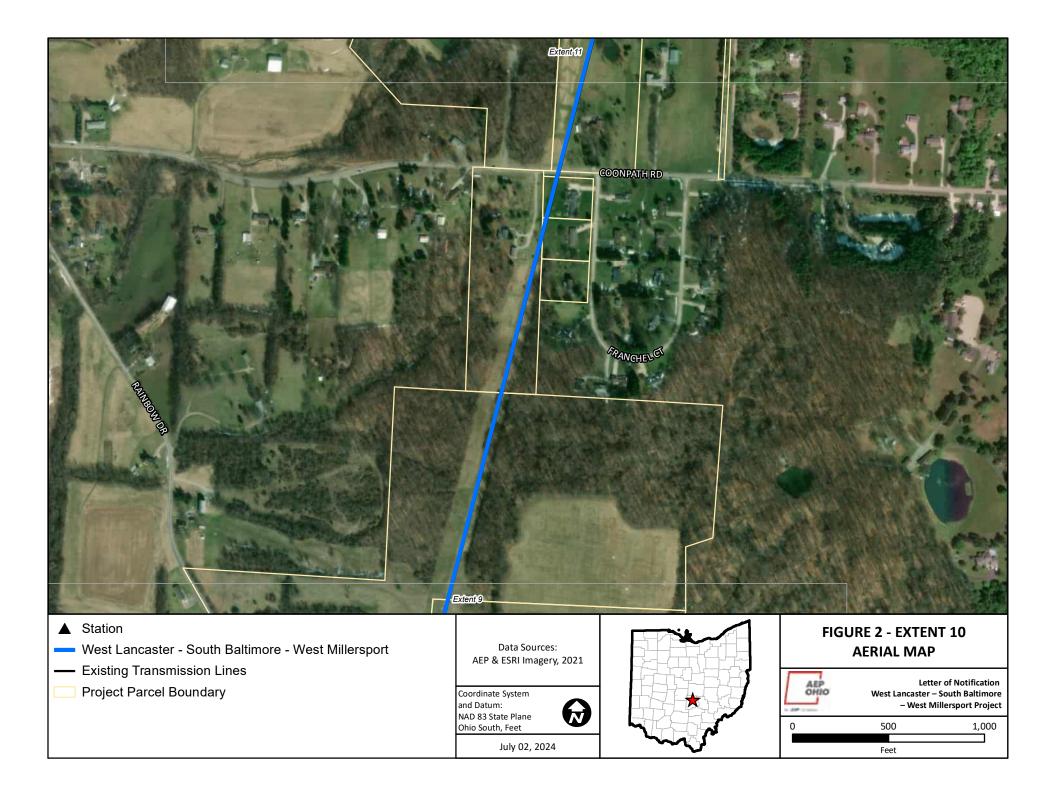
July 02, 2024

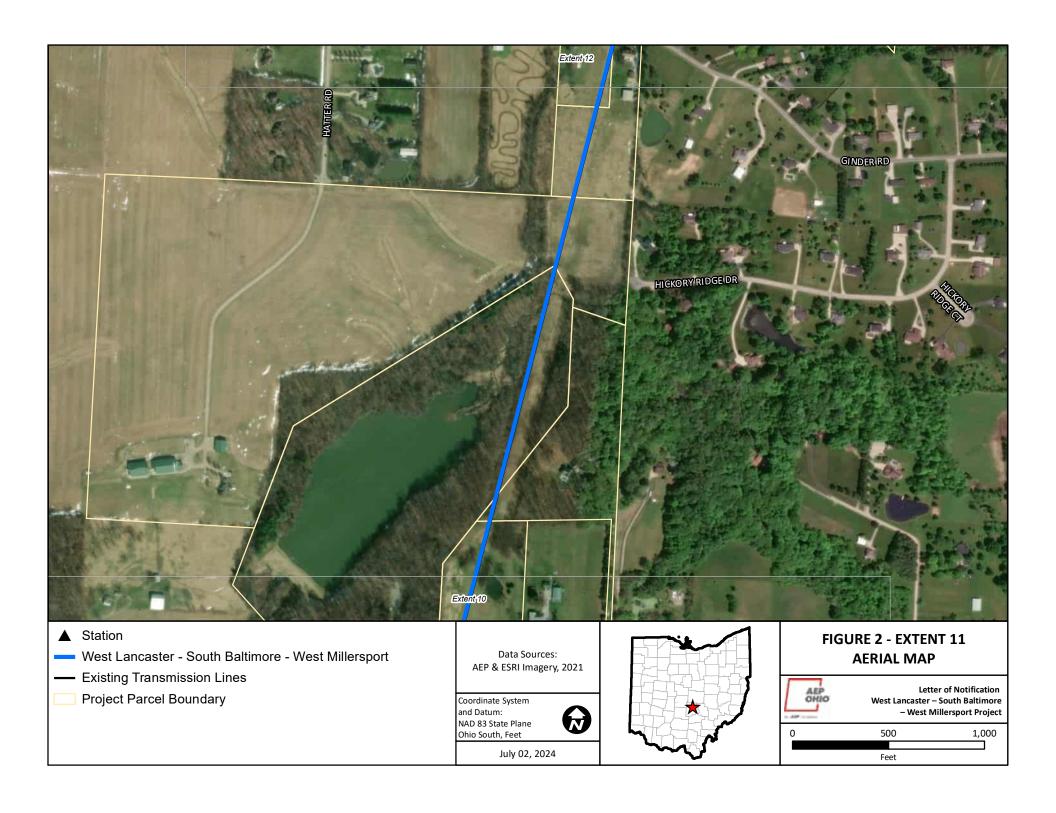


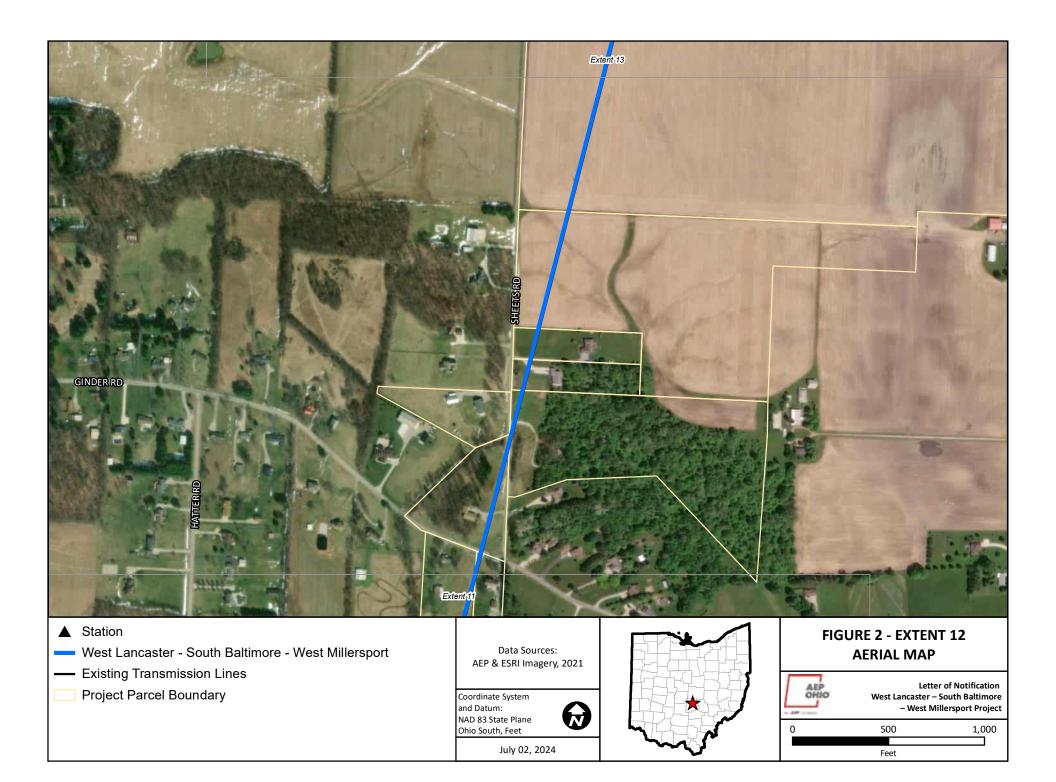
FIGURE 2 - EXTENT 9 AERIAL MAP

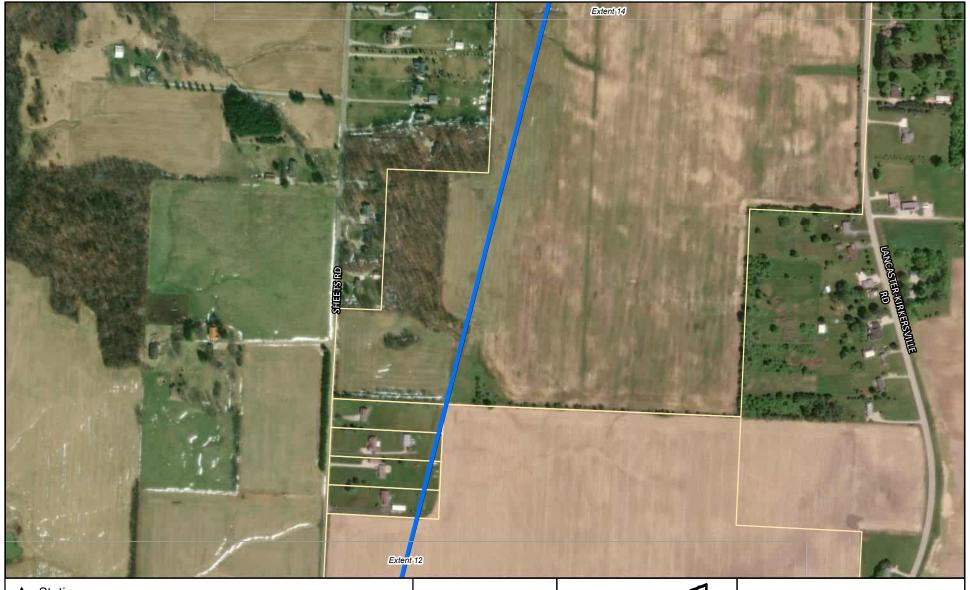












- ▲ Station
- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

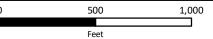
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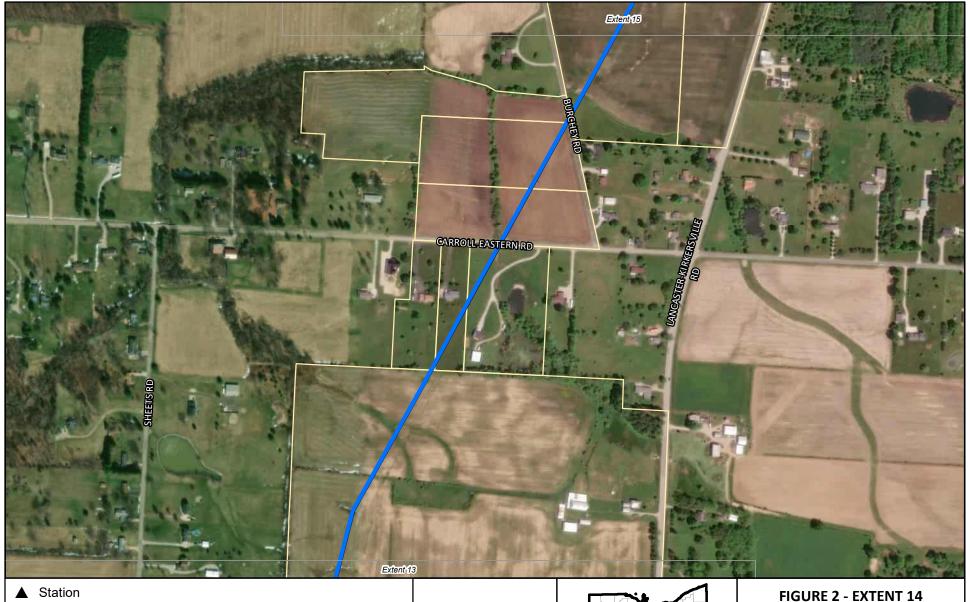
July 02, 2024



FIGURE 2 - EXTENT 13 AERIAL MAP







- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

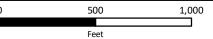
Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

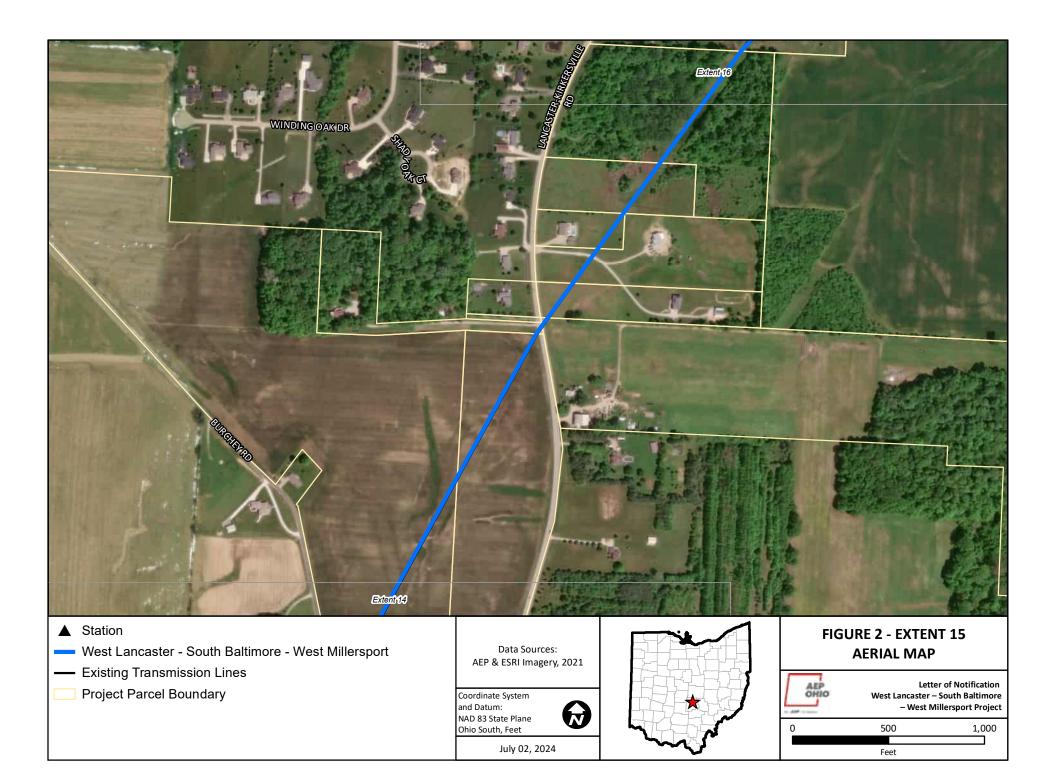
July 02, 2024

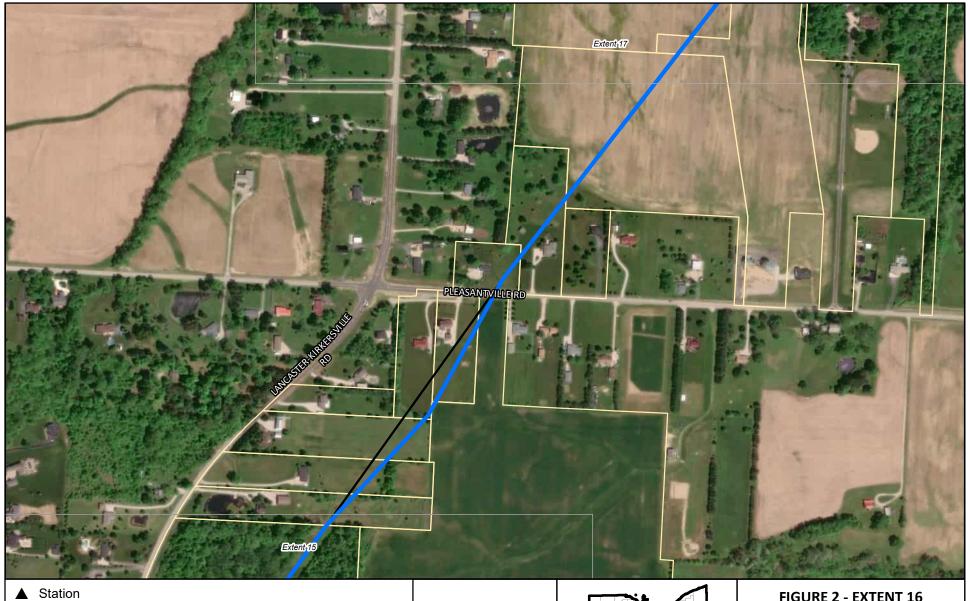


FIGURE 2 - EXTENT 14 AERIAL MAP











- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- **Project Parcel Boundary**

Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

July 02, 2024



FIGURE 2 - EXTENT 16 **AERIAL MAP**



Letter of Notification West Lancaster – South Baltimore - West Millersport Project

1,000 500 Feet



July 02, 2024

Feet





- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- **Project Parcel Boundary**

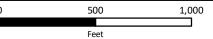
Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

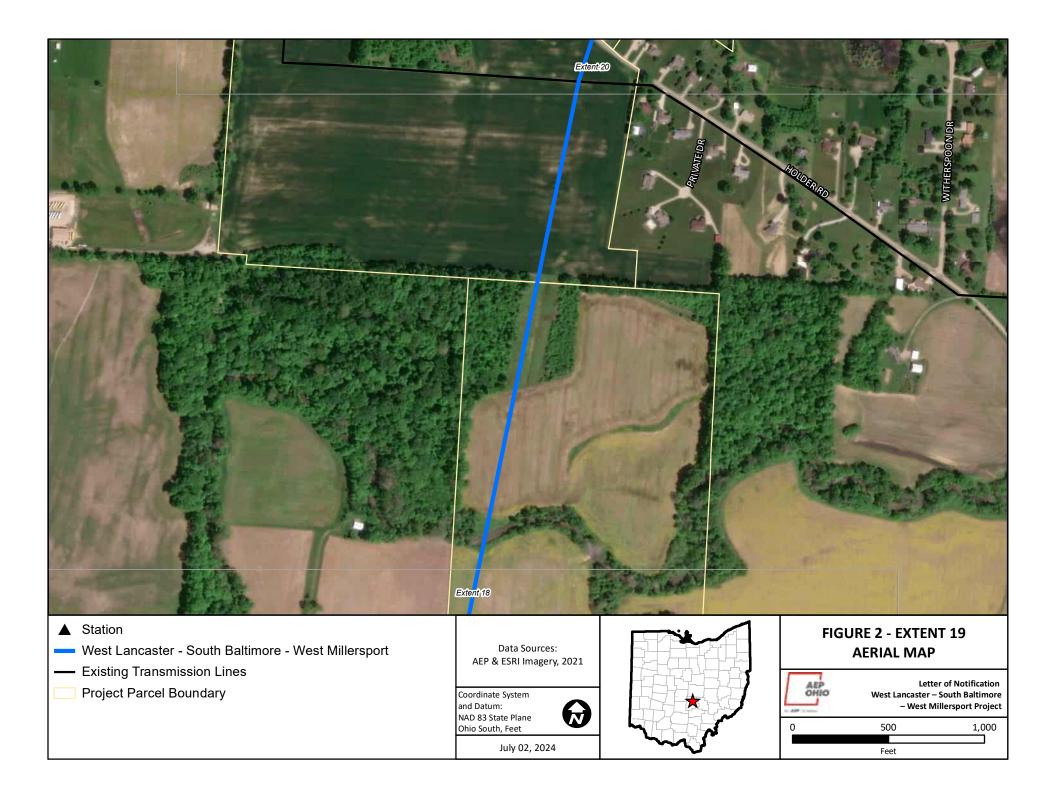
July 02, 2024

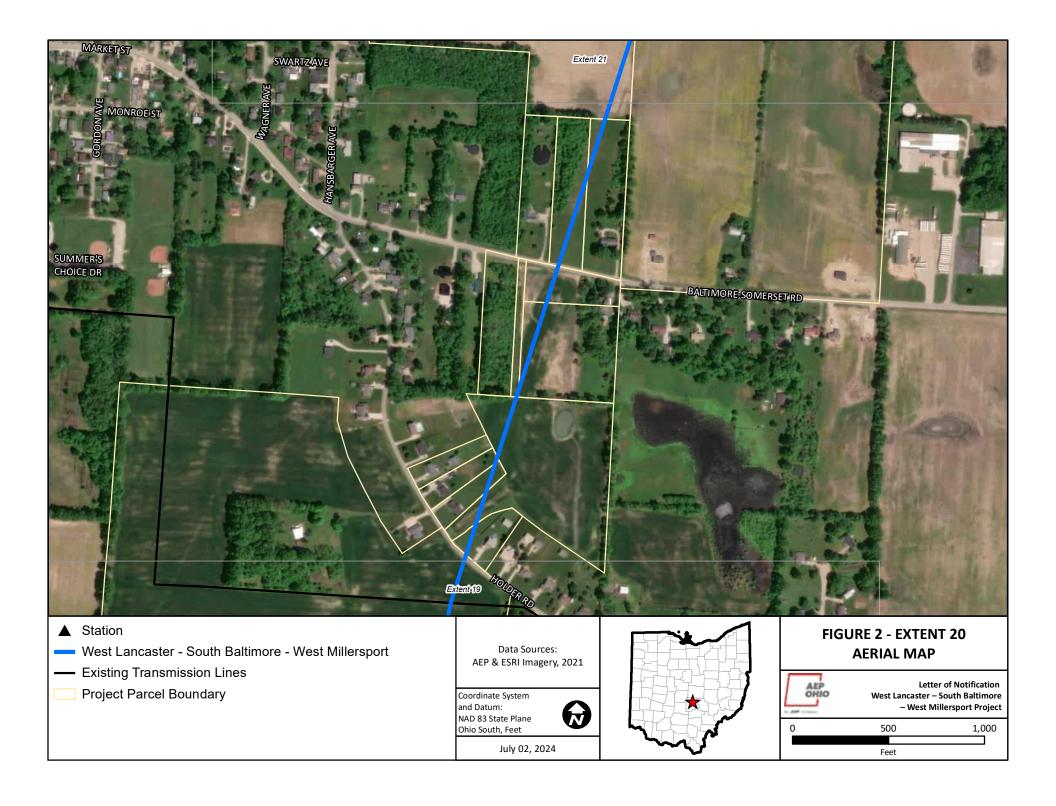


FIGURE 2 - EXTENT 18 **AERIAL MAP**













- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- Project Parcel Boundary

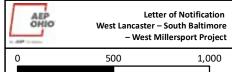
Data Sources: AEP & ESRI Imagery, 2021

Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

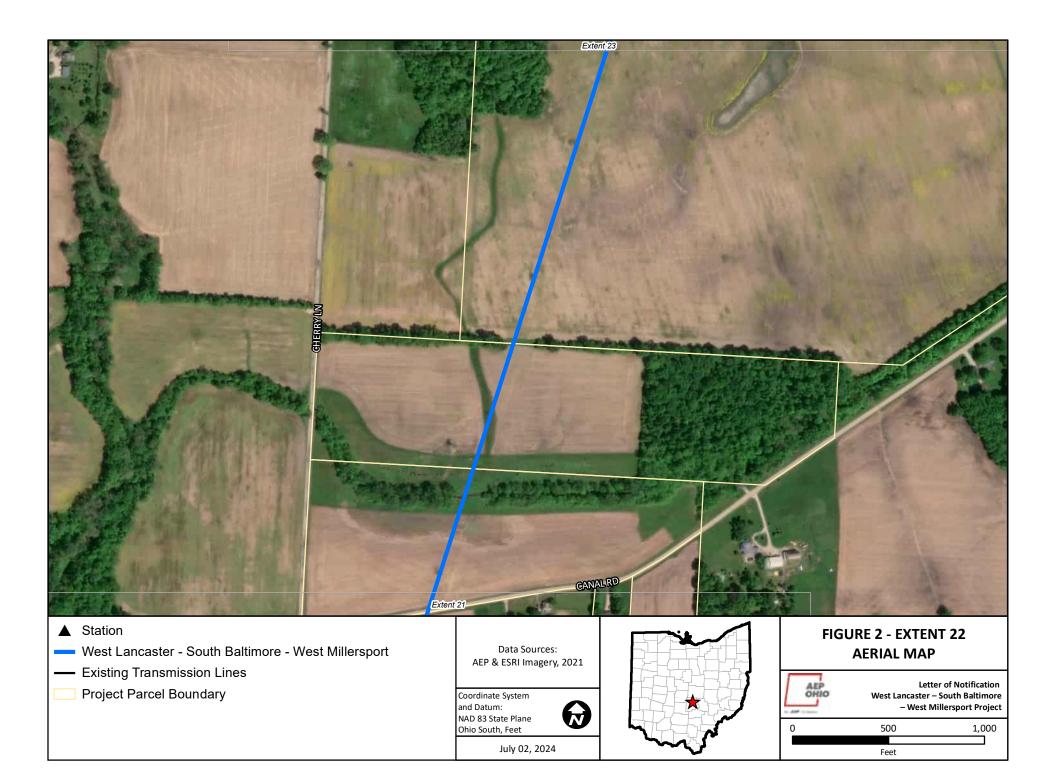
July 02, 2024

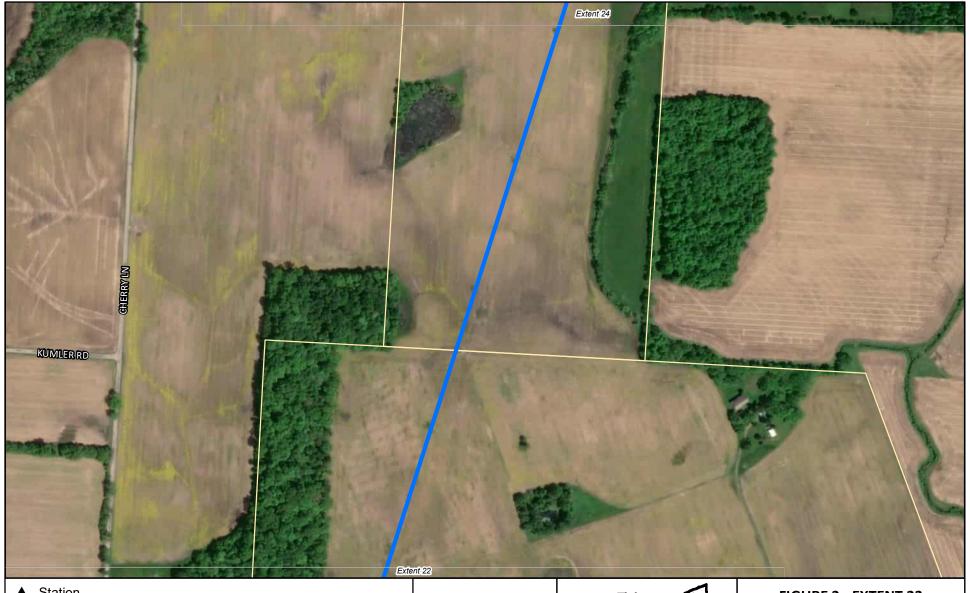


FIGURE 2 - EXTENT 21 AERIAL MAP



Feet







- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- **Project Parcel Boundary**

Data Sources: AEP & ESRI Imagery, 2021

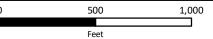
Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

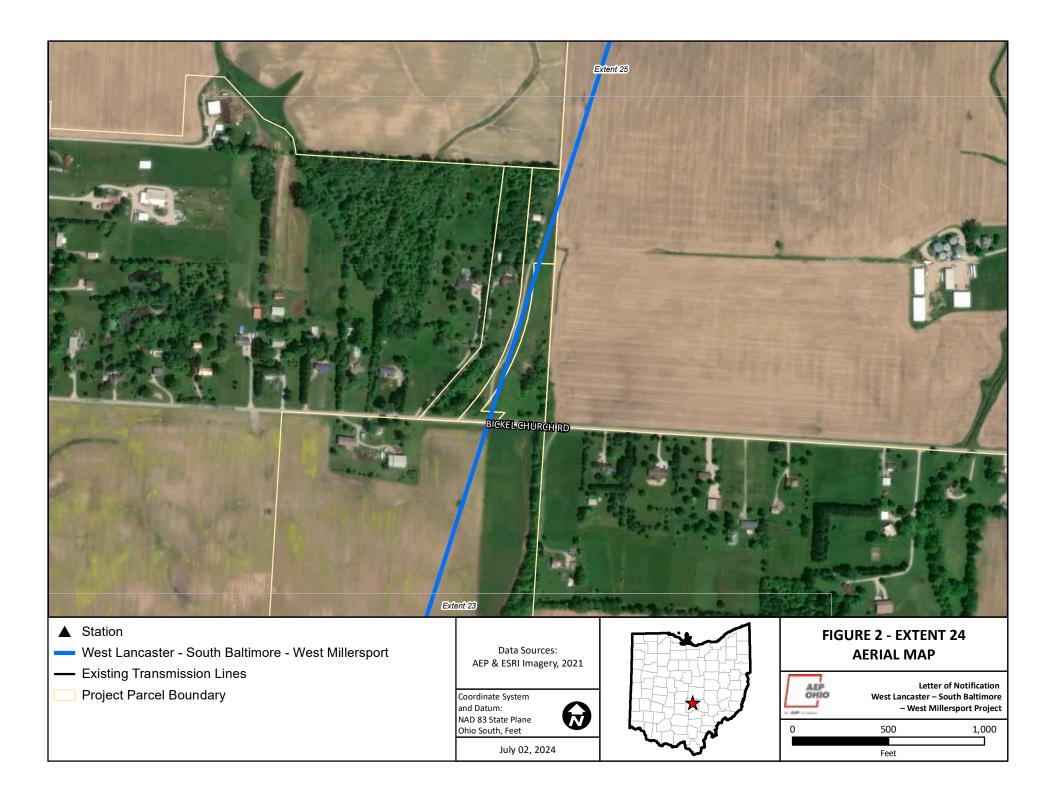
July 02, 2024

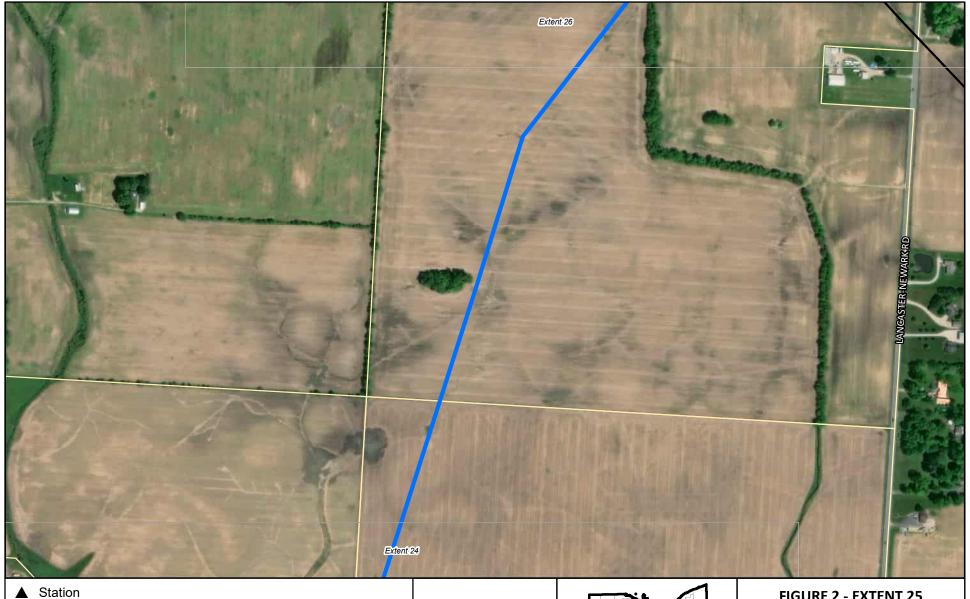


FIGURE 2 - EXTENT 23 AERIAL MAP











- West Lancaster South Baltimore West Millersport
- Existing Transmission Lines
- **Project Parcel Boundary**

Data Sources: AEP & ESRI Imagery, 2021

Coordinate System and Datum: NAD 83 State Plane Ohio South, Feet

July 02, 2024

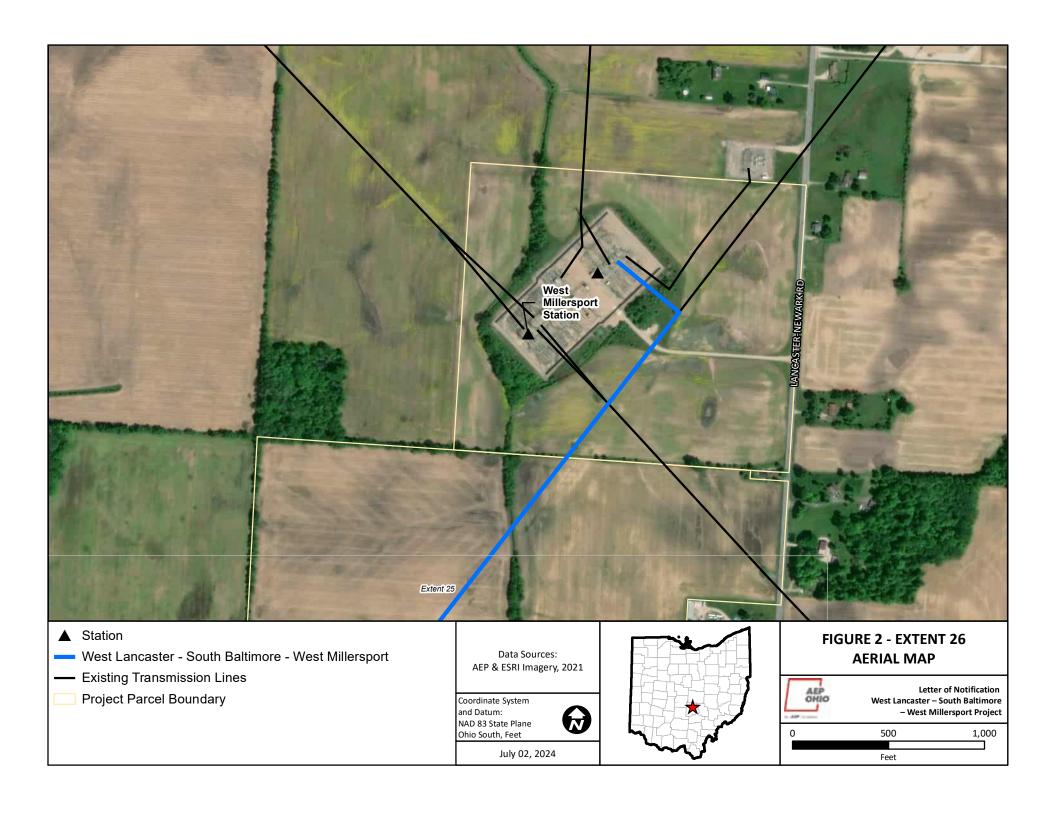


FIGURE 2 - EXTENT 25 **AERIAL MAP**



Letter of Notification West Lancaster – South Baltimore - West Millersport Project

1,000 500 Feet



Letter of Notification for West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project

Appendix B PJM Solution



Need Number: AEP-2024-OH029

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan May 20, 2024

Previously Presented:

Solutions Meeting 03/15/2024

Needs Meeting 02/16/2024

Project Driver: Equipment Material/Condition/Performance/Risk

Specific Assumption Reference:

AEP Connection Requirements for the AEP Transmission System (AEP Assumptions Slide 13)

Problem Statement:

Line Name: West Lancaster - South Baltimore - West Millersport 138 kV Line

Original Install Date (Age): 1954

• Length of Line: 14.4 miles

Total structure count: 104 of Pole Wood & Pole Steel

 Wood: 50 from 1950s, 7 from 1960s, 5 from 1970s, 10 from 1980s, and 3 from 1990s.

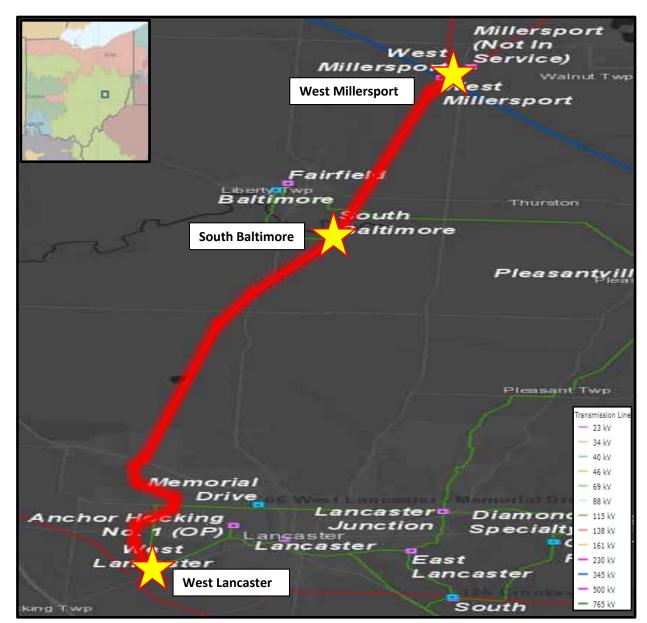
Steel: 29 from 2010s

Conductor Type: 14.4 miles of 397,500 CM ACSR 30/7 (Lark) from 1954.

Open Conditions:

Currently, there are 90.58 unique structures with at least one open condition, which relates to 86.5% 55.7% of the structures on the line. There are currently 102 112 structures related open conditions including rot, woodpecker, damaged, cracked, loose, vines, split, disconnected, and insect damaged conditions. There are 2.3 conductor related open conditions related to broken strands. There are currently 8 open conditions related to broken ground lead wires. There are also 17 hardware related open conditions including broken and missing molding, damaged guy wires, missing guy guards, and burnt and broken insulators.

AEP Transmission Zone M-3 Process West Lancaster – West Millersport 138 kV





Need Number: AEP-2024-OH029

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan May 20, 2024

Solution:

• West Lancaster – South Baltimore – West Millersport 138 kV: Rebuild ~14.4 miles of the line between West Lancaster and West Millersport stations using 1033 ACSS 54/7 conductor. Estimated Cost: \$38.7M (s3308.1)

• **West Lancaster Station**: Replace existing bus and line risers at the station, upgrade line relays. **Estimated Cost: \$1.0M (s3308.2)**

• **South Baltimore Station**: Replace existing bus and line risers at the station, upgrade line relays. While at the station some additional site concerns such as the existing fence will be addressed. **Estimated Cost: \$0.7M (s3308.3)**

Total Estimated Cost: \$40.4M

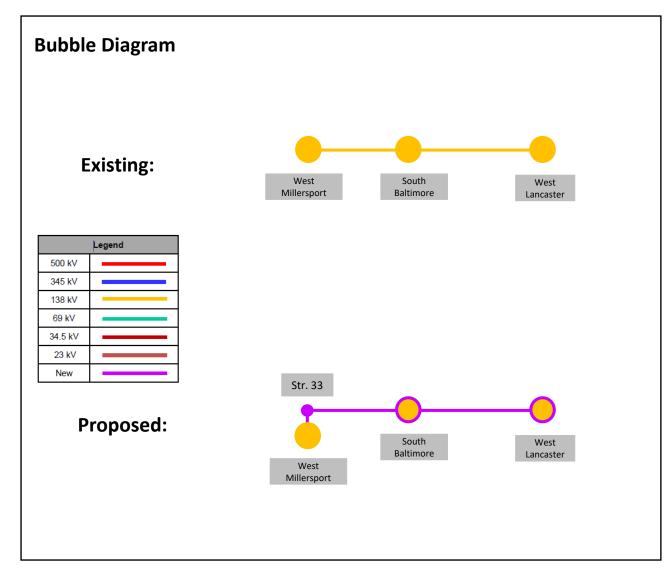
Projected In-Service: 10/31/2026

Supplemental Project ID: s3308.1-.3

Projected Status: Scoping

Model: 2028 RTEP

AEP Transmission Zone M-3 Process West Lancaster – West Millersport 138 kV





WEST LANCASTER - WEST MILLERSPORT TRANSMISSION LINE REBUILD PROJECT

AEP Ohio representatives plan to strengthen the local transmission system in Fairfield County, addressing the growing power demand in the area and enhancing reliable electric service to area customers. Crews plan to begin construction late 2024 and conclude in fall 2026.

WHAT

This project involves:

- Rebuilding approximately 15 miles of 138-kilovolt transmission line from southwest Lancaster to southwest Millersport.
- Replacing deteriorating wooden poles with single steel poles.
- Upgrading the West Lancaster and South Baltimore substations.

This project requires Ohio Power Siting Board (OPSB) approval.

WHY

The project:

- Modernizes the transmission system originally built in the 1950s.
- Improves reliable electricity for area customers.
- Enhances the line's operational capacity to meet the growing area's power demand.

WHERE

The project area includes:

- · Fairfield County
- Hocking, Greenfield, Liberty and Walnut townships
- The cities of Lancaster,
 Baltimore and Millersport

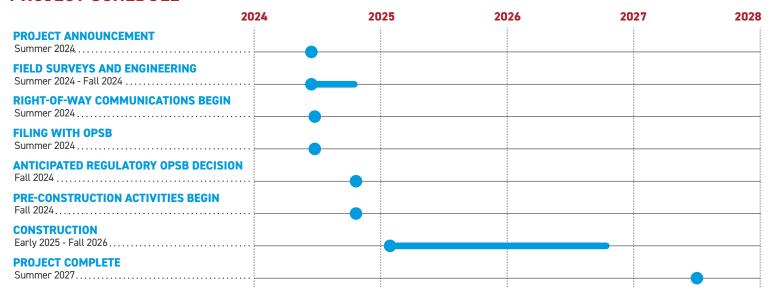
BEFORE CONSTRUCTION

AEP Ohio right-of-way representatives plan to contact affected landowners regarding surveys, field work inside easements along the transmission line route and construction access.

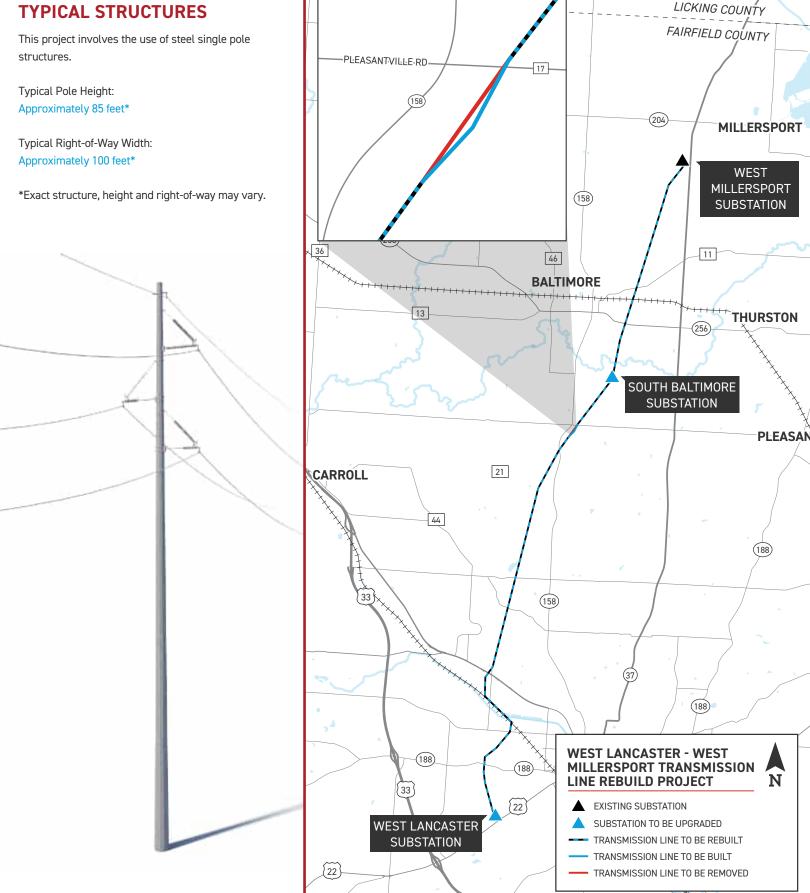
Some pre-construction activities include:

- Trimming or removing woody-stemmed vegetation and removing or relocating non-habitable structures from the right-of-way.
- Installing temporary gates, fencing and access roads.

PROJECT SCHEDULE



TYPICAL STRUCTURES





Letter of Notification for West Lancaster - South Baltimore - West Millersport 138 kV Transmission Line Rebuild Project

Appendix C Property Agreements

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0460904000	Company Property	No
0460012000	Easement	No
0460011900	Easement	No
0460011600	Easement	No
0460012310	Easement	No
0460012300	Easement	No
0460011300	Easement	No
0490251300	Easement	No
0490250600	Easement	No
0490252500	Easement	No
0490252600	Easement	No
0490253700	Easement	No
0490901100	Easement	No
0490252800	Easement	No
0240259110	Easement	No
0210067300	Easement	No
0210067400	Easement	No
0210067410	Easement	No
0240257620	Easement	No
0240260000	Easement	No
0240255200	Easement	No
0240255291	Easement	No
0240255270	Easement	No
0240255260	Easement	No
0240255293	Easement	No
0240255500	Easement	No
0210070400	Easement	No
0210070520	Easement	No
0210902500	Easement	No
0210083200	Easement	No
0210083010	Easement	No
0210084611	Easement	No
0210083900	Easement	No
0210084613	Easement	No
0210084610	Easement	No
0210084500	Easement	No
0210083310	Easement	No
0210083320	Easement	No
0210083330	Easement	No
0210083510	Supplemental Easement	No
0210083511	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0150119991	Easement	No
0150119990	Supplemental Easement	No
0150119901	Supplemental Easement	No
0150119960	Supplemental Easement	No
0150119910	Supplemental Easement	No
0150119930	Supplemental Easement	No
0150119950	Supplemental Easement	No
0130000610	Supplemental Easement	No
0130000620	Easement	No
0130000630	Easement	No
0130000640	Easement	No
0130000650	Easement	No
0130000400	Easement	No
0130000660	Easement	No
0150120120	Easement	No
0150122110	Easement	No
0150120100	Easement	No
0150122100	Easement	No
0150122310	Easement	No
0150122142	Easement	No
0150122141	Easement	No
0150124100	Easement	No
0150124110	Easement	No
0150124195	Easement	No
0130027600	Easement	No
0130026000	Easement	No
0130026040	Easement	No
0130026030	Easement	No
0130026020	Easement	No
0130026010	Easement	No
0130036500	Easement	No
0130036512	Easement	No
0130036511	Easement	No
0130036580	Easement	No
0130038440	Easement	No
0130038600	Easement	No
0130038700	Easement	No
0130038800	Easement	No
0130036640	Easement	No
0130807000	Easement	No
0130036700	Easement	No
0130036610	Easement	No
0130086900	Easement	No
0130058000	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0130087000	Easement	No
0130087100	Easement	No
0130058300	Easement	No
0130058310	Easement	No
0130057400	Easement	No
0130057450	Easement	No
0130057420	Easement	No
0130058410	Easement	No
0532304600	Easement	No
0532301300	Easement	No
0532292900	Easement	No
0532301400	Easement	No
0532292800	Easement	No
0532301500	Easement	No
0532292700	Easement	No
0532301600	Easement	No
0532292600	Easement	No
0532301700	Easement	No
0532292500	Easement	No
0532301800	Easement	No
0532292400	Easement	No
0532301900	Easement	No
0532292300	Easement	No
0532302000	Easement	No
0532292200	Easement	No
0532302100	Easement	No
0532292100	Easement	No
0532302200	Easement	No
0532292000	Easement	No
0532302300	Easement	No
0532291900	Easement	No
0532291800	Easement	No
0532302400	Easement	No
0532291700	Easement	No
0532302500	Easement	No
0532293000	Easement	No
0532290000	Easement	No
0532248800	Easement	No
0532257500	Easement	No
0532248700	Easement	No
0532253700	Easement	No
0532253800	Easement	No
0532248500	Easement	No
0532248400	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0532253900	Easement	No
0532248300	Easement	No
0532254000	Easement	No
0532235000	Easement	No
0532234900	Easement	No
0532254100	Easement	No
0532254200	Easement	No
0532234800	Easement	No
0532268800	Easement	No
0532234700	Easement	No
0532268700	Easement	No
0532234600	Easement	No
0532268600	Easement	No
0532234500	Easement	No
0532268500	Easement	No
0532234400	Easement	No
0532268400	Easement	No
0532234300	Easement	No
0532268300	Easement	No
0532234200	Easement	No
0532268200	Easement	No
0532234100	Easement	No
0532268100	Easement	No
0532234000	Easement	No
0532231300	Easement	No
0532233900	Easement	No
0532231200	Easement	No
0532231200	Easement	No
0532230200	Easement	No
0532233800	Easement	No
0532233700	Easement	No
0532233600	Easement	No
0532233500	Easement	No
0532233400	Easement	No
0532233300	Easement	No
0532233200	Easement	No
0532233100	Easement	No
0532233000	Easement	No
0532227300	Easement	No
0532220900	Easement	No
0532230100	Easement	No
0532220800	Easement	No
0532003670	Easement	No
0532220700	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0532220600	Easement	No
0532220500	Easement	No
0532220400	Easement	No
0532220300	Easement	No
0532220200	Easement	No
0532220100	Easement	No
0532220000	Easement	No
0532219900	Easement	No
0532219800	Easement	No
0532222100	Easement	No
0532222110	Easement	No
0532003663	Easement	No
0532003606	Easement	No
0532003604	Easement	No
0532003605	Easement	No
0532003662	Easement	No
0532821000	Easement	No
0630001300	Easement	No
0531374100	Easement	No
0630001400	Easement	No
0531372800	Easement	No
0531372100	Easement	No
0531372500	Easement	No
0531372200	Easement	No
0531372600	Easement	No
0531800450	Easement	No
0531010100	Easement	No
0531010016	Easement	No
0531010010	Easement	No
0531010018	Easement	No
0531010014	Easement	No
0531010019	Easement	No
0531237700	Easement	No
0531001400	Easement	No
0531237530	Easement	No
0531233600	Easement	No
0531233500	Easement	No
0531233400	Easement	No
0531237900	Easement	No
0531235100	Easement	No
0531237200	Easement	No
0531237100	Easement	No
0531237100	Easement	No
0531257000	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0531256900	Easement	No
0531257100	Easement	No
0531259400	Easement	No
0531257200	Easement	No
0531259300	Easement	No
0531257300	Easement	No
0531259200	Easement	No
0531257400	Easement	No
0531259100	Easement	No
0531257500	Easement	No
0531259000	Easement	No
0531257600	Easement	No
0531258900	Easement	No
0531257700	Easement	No
0531258800	Easement	No
0531257800	Easement	No
0531258700	Easement	No
0531257900	Easement	No
0531258600	Easement	No
0531258000	Easement	No
0531258500	Easement	No
0531250400	Easement	No
0531250300	Easement	No
0531258400	Easement	No
0531250200	Easement	No
0531258300	Easement	No
0531250100	Easement	No
0531258200	Easement	No
0531250000	Easement	No
0531258100	Easement	No
0531249900	Easement	No
0531249800	Easement	No
0531249700	Easement	No
0531249600	Easement	No
0658000100	Easement	No
0180024700	Easement	No
0180800500	Easement	No
0180025200	Easement	No
0180031000	Easement	No
0180030600	Easement	No
0180031911	Easement	No
0180030660	Easement	No
0180901500	Easement	No
0180800500	Easement	No

Property Parcel Number	Agreement Type	Easement or Option Obtained (Yes/No)
0180025200	Easement	No
0180031000	Easement	No
0180030600	Easement	No
0180031911	Easement	No
0180030660	Easement	No
0180901500	Easement	No

Line Name: West Lancaster - South Baltimore Line No.: **Easement No.:** SUPPLEMENTAL EASEMENT AND RIGHT OF WAY On this ____ day of _______, 2024, _______, whose address is _______, ("Grantor"), whether one or more persons, owns an interest in a tract of real property that is more particularly described lands of the Grantor, situated in the State of Ohio, Fairfield County, Greenfield Township, Tax Parcel Number______, in that certain document, dated ______ recorded in Instrument Number______, of the real property records of Fairfield County, Ohio, and such tract is subject to easements and rights-of-way granted in favor of AEP Ohio Transmission Company, Inc.. Ohio Power Company, a(n) Ohio corporation, a unit of American Electric Power, whose principal business address is 1 Riverside Plaza, Columbus, Ohio 43215, ("AEP") is the current owner and holder of the rights, title, and interest, or a portion thereof, granted in or arising under that certain right of way and easement, dated _____, and recorded in Deed Volume _____, Page ____, of the official records of Fairfield County, Ohio (the "Original Easement"). NOW, THEREFORE, in consideration of the sum of ___ and NO/100 Dollars (\$___) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor hereby grants, conveys and warrants this Supplemental Easement and Right of Way ("Easement") to AEP for electric transmission, distribution, and communication lines and appurtenant equipment and fixtures, being, in, on, over, under, through and across to supplement the Original Easement insofar as it encumbers such tract of real property owned by Grantor as more particularly described above. Auditor/Key/Tax Number:

The Easement is also supplemented by the addition of the following language:

The location, width, and boundaries of the easement area are hereby revised, modified, and clarified to be as described and depicted on Exhibit "A", attached hereto and made a part hereof

("Easement Area").

AEP, its successors and assigns, are granted the right to construct, reconstruct, operate, maintain, alter, inspect and patrol (by ground or air), protect, repair, replace, renew, upgrade, relocate within the Easement Area, remove and replace poles, towers, and structures, made of wood, metal, concrete or other materials, including crossarms, guys, anchors, anchoring systems, grounding systems, underground conduits, ducts, vaults, transformers, pedestals, risers, pads, communications facilities, and all other appurtenant equipment and fixtures, and to string conductors, wires and cables. The electric facilities may consist of a variable number of towers, poles, wires, guys, anchors and associated fixtures, including the right to enlarge, and may transmit electricity of any voltage or amperage, together with the right to add to said facilities from time to time, and the right to do anything necessary, useful or convenient for the enjoyment of the Easement Area herein granted, together with the privilege of removing at any time any or all of said facilities erected on the Easement Area.

AEP and its successors and assigns, shall have the right, in AEP's reasonable discretion, to cut down, trim, and otherwise control, using herbicides or tree growth regulators, or other means, and at AEP's option, to remove from the Easement Area any and all trees, overhanging branches, vegetation, brush, including all root systems or other obstructions. AEP shall also have the right to cut down, trim, remove, and otherwise control trees situated on lands of the Grantor which adjoin the Easement Area, when in the reasonable opinion of AEP those trees may endanger the safety of, or interfere with the construction, operation or maintenance of AEP's facilities or ingress or egress to, from or along the Easement Area.

AEP and its successors and assigns are granted the right of unobstructed ingress and egress, at any and all times, on, over, across, along and upon the Easement Area, and across the adjoining lands of Grantor as may be reasonably necessary to access the Easement Area for the above referenced purposes.

In no event shall Grantor, its heirs, successors, and assigns plant or cultivate any trees or place, construct, install, erect or permit any temporary or permanent building, structure, improvement or obstruction including but not limited to, storage tanks, billboards, signs, sheds, dumpsters, light poles, water impoundments, above ground irrigation systems, swimming pools or wells, or permit any alteration of the ground elevation, over or within the Easement Area. AEP may, at Grantor's cost, remove any structure or obstruction if placed within the Easement Area and may re-grade any alterations of the ground elevation within the Easement Area. AEP shall repair or pay Grantor for actual damages to growing crops, fences, gates, field tile, drainage ways, drives, or lawns caused by AEP in the exercise of the rights herein granted.

The failure of AEP to exercise any of the rights granted herein, including but not limited to the removal of any obstructions from the Easement Area, shall not be deemed to constitute a waiver of the rights granted herein and the removal of any facilities from the Easement Area shall not be deemed to constitute a permanent abandonment or release of the rights granted herein.

Except as modified by this Supplemental Easement and Right of Way, all terms and provisions of the Original Easement and all rights arising in connection with the Original Easement shall remain

in full force and effect, and the Original Easement shall keep its priority in title as of the date of its recording. Those provisions and rights are expressly ratified, reaffirmed by and incorporated within this Supplemental Easement and Right of Way. The Original Easement along with this Supplemental Easement and Right of Way shall for all purposes function as a single instrument, however, to the extent any terms or provisions of the Original Easement conflict with, limit or are inconsistent with any term or provision of the Supplemental Easement and Right of Way, the terms and provisions of this Supplemental Easement and Right of Way shall control. Nothing herein will in any manner vary, change, modify, or restrict the rights and privileges that AEP may have acquired through any instrument other than the Original Easement or by any other means.

The terms and conditions as supplemented by this instrument, are the complete agreement, expressed or implied between the parties hereto and shall inure to the benefit of and be binding on their respective successors, assigns, heirs, executors, administrators, lessees, tenants, licensees, and legal representatives.

This instrument may be executed in counterparts, each of which will be deemed an original, but all of which taken together will constitute one and the same instrument.

Any remaining space on this page intentionally left blank. See next page(s) for signature(s).

IN WITNESS WHEREOF, the Grantor has executed this Easement effective the day, month and year first above written.

		GRANTOR	
		By: Title:	
State of	§		
County of	§		
	-	d before me on the day of of the Steiger Family Trust.	,
		Notary Public Print Name: My Commission Expires:	- -

This instrument prepared by Thomas G. St. Pierre, Associate General Counsel - Real Estate, American Electric Power Service Corporation, 1 Riverside Plaza, Columbus, OH 43215 for and on behalf of Ohio Power Company, a unit of American Electric Power.

When recorded return to: American Electric Power - Transmission Right of Way, 8600 Smiths Mill Road, New Albany, OH 43054.

Letter of Notification for West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project

Appendix D Agency Coordination

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



April 17, 2024

Project Code: 2024-0064491

Dear Olivia Speckman:

The U.S. Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines.

Seasonal Tree Clearing for Federally Listed Bat Species: The proposed project is in the vicinity of one or more confirmed records of Indiana bats and/or northern long-eared bats. Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. Please note that, because Indiana bat and/or northern long-eared bat presence has already been confirmed in the project vicinity, any additional summer surveys would not constitute presence/absence surveys for these species.

<u>Federally Proposed Species</u>: On September 14, 2022, the Service proposed to list the tricolored bat (*Perimyotis subflavus*) as endangered under the ESA. The bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern longeared bat will also help to conserve the tricolored bat.

Section 7 Coordination: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dnr.ohio.gov.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Erin Knoll

Field Office Supervisor

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Tara Paciorek, Chief

2045 Morse Road – Bldg. E-2 Columbus, Ohio 43229 *Phone:* (614) 265-6661

Fax: (614) 267-4764

April 26, 2024

Olivia Speckman V3 Companies 619 North Pennsylvania Street Indianapolis, Indiana 46204

Re: 24-0500 West Lancaster - South Baltimore - West Millersport 138kV Rebuild

Project: The proposed project involves rebuilding approximately 14.4 miles of the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Lines.

Location: The proposed project is located in Liberty, Walnut, Greenfield, and Pleasant townships, Fairfield County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data within one mile of the project area:

Cerulean Warbler (Setophaga cerulea), SC Kidneyshell (Ptychobranchus fasciolaris), SC Great Blue Heron Rookery Appalachian oak forest plant community Oak-maple forest plant community

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. Records for high quality plant communities indicate the presence of sites that are in our inventory of the best remaining examples of Ohio's pre-settlement ecosystems.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species and features listed above are not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The project is within the vicinity of records for the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "<u>RANGE-WIDE INDIANA</u> <u>BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

This project must not have an impact on native mussels. This applies to both listed and non-listed species, as all species of mussel are protected in Ohio. Per the Ohio Mussel Survey Protocol (2022), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 5 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels (Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, the DOW recommends a professional

malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the <u>Ohio Mussel Survey Protocol</u>. If there is no in-water work proposed, impacts to mussels are not likely.

The project is within the range of the northern brook lamprey (*Ichthyomyzon fossor*), a state endangered fish, and the popeye shiner (*Notropis ariommus*), a state endangered fish. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator



In reply, refer to 2024-FAI-60977

May 11, 2024

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: West Lancaster-South Baltimore-West Millersport 138kV Rebuild Project, Walnut, Liberty, Greenfield, and Hocking Townships, Fairfield County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received April 12, 2024, regarding the proposed West Lancaster-South Baltimore-West Millersport 138kV Rebuild Project, Walnut, Liberty, Greenfield, and Hocking Townships, Fairfield County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-4 & 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the *Phase I Archaeological Investigations for the 15.8 km (9.8 mi) West Lancaster-South Baltimore-West Millersport 138kV Rebuild Project in Walnut, Liberty, Greenfield, and Hocking Townships, Fairfield County, Ohio by Ryan J. Weller (Weller & Associates, Inc., 2024). This project is related to a rebuild of the West Lancaster-South Baltimore 138kV transmission line located in the north and central part of Fairfield County, Ohio. The northern terminus is at the South Baltimore Station and the southern terminus is at the West Lancaster Station.*

A literature review, visual inspection, surface collection, shovel probing, and shovel test unit excavations were completed as part of the investigations. Portions of the project area had been the subject of previous investigations. Sixteen (16) previously identified archaeological sites, Ohio Archaeological Inventory (OAI) sites #33FA0031, 33FA0100, 33FA0101, 33FA0177, 33FA0178, 33FA0180, 33FA0181, 33FA0419, 33FA1705, 33FA1706, 33FA1906, 33FA1918, 33FA1919, 33FA1930, 33FA2271, and 33FA2272, are located within or immediately adjacent the project area. These investigations reidentified seven (7) of the previously identified archaeological sites, OAI sites #33FA0180, 33FA0181, 33FA0419, 33FA1906, 33FA1918, 33FA1919, and 33FA2271; however, they did not relocate nine (9) previously recorded sites (#33FA0031, 33FA0100, 33FA0101, 33FA0177, 33FA0178, 33FA1705, 33FA1706, 33FA1930, and 33FA2272). These investigations also documented twenty-two (22) previously unrecorded archaeological sites, OAI sites #33FA2850-33FA2871. Of the twenty-nine (29) archaeological sites documented or reidentified during this survey, twenty-eight (28) archaeological sites (OAI sites #33FA0180, 33FA0181, 33FA1906, 33FA1918, 33FA1919, 33FA2271, and 33FA2850-33FA2871) were recommended not eligible for listing in the National Register of Historic Places (NRHP). No additional archaeological survey is recommended for these sites. OAI #33FA0419 was recommended for avoidance or additional investigations. Our office agrees with these recommendations.

2024-FAI-60977 May 11, 2024 Page 2

The following comments pertain to the *History/Architecture Investigations for the 15.8 km (9.8 mi) Long West Lancaster-South Baltimore-West Millersport 138kV Rebuild Project in Walnut, Liberty, Greenfield, and Hocking Townships, Fairfield County Ohio* by Scott McIntosh (Weller & Associates, Inc., 2024).

A literature review and field survey for architectural resources were conducted as part of the investigations. A total of eighty-four (84) resources fifty (50) years of age or older were identified in the Area of Potential Effects (APE) for indirect effects. Of these, two (2) Ohio Historic Inventory (OHI) resources are recommended by Weller as eligible for listing in the NRHP under Criterion C (FAI0090105 and FAI0090210). None of the other architectural resources are identified as eligible. Our office agrees with Weller's recommendations of eligibility; therefore, we agree that there will be no adverse effect on aboveground historic resources as a result of the project.

To summarize, our office recommends avoidance or additional investigations for OAI site #33FA0419. In addition, we request that the inventory forms for OAI sites #33FA2862, 33FA2863, and 33FA2868 be completed and our office notified once the forms have been submitted. We look forward to additional coordination for the West Lancaster-South Baltimore-West Millersport 138kV Rebuild Project. If you have any questions, please contact me by e-mail at cgullett@ohiohistory.org or Ms. Joy Williams at jwilliams@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Catherine Gullett, Project Reviews Coordinator Resource Protection and Review

State Historic Preservation Office

RPR Serial No: 1102689 and 1102690



In reply, refer to 2024-FAI-60977

June 22, 2024

Mr. Ryan J. Weller Weller & Associates, Inc. 1395 West Fifth Avenue Columbus, Ohio 43212

RE: Addendum 1 – West Lancaster-South Baltimore 138kV Rebuild Project, Fairfield County, Ohio

Dear Mr. Weller:

This letter is in response to the correspondence received May 29, 2024, regarding the proposed West Lancaster-South Baltimore 138kV Rebuild Project, Fairfield County, Ohio. We appreciate the opportunity to comment on this project. The comments of the Ohio State Historic Preservation Office (SHPO) are made pursuant to Section 149.53 of the Ohio Revised Code and the Ohio Power Siting Board rules for siting this project (OAC 4906-4 & 4906-5). The comments of the Ohio SHPO are also submitted in accordance with the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 306108 [36 CFR 800]).

The following comments pertain to the Addendum: Archaeological Investigations for Access Roads and Expanded Work Areas Associated with the West Lancaster-South Baltimore 138kV Rebuild Project in Fairfield County, Ohio by Ryan J. Weller (Weller & Associates, Inc. 2024). The purpose of this project is to address proposed access roads and expanded works areas associated with the West Lancaster-South Baltimore 138kV transmission line rebuild project that were not investigated during the initial Phase I archaeology and architecture surveys (Weller 2024; McIntosh 2024). This addendum project strictly addresses potential impacts to archaeological resources, as architectural resources within the Area of Potential Effects (APE) were addressed through the initial survey (McIntosh 2024).

A literature review, visual inspection, surface collection, and shovel test unit excavations were completed as part of the addendum investigations. Portions of the project area had been the subject of previous investigations through the initial Phase I survey (Weller 2024). There were three (3) previously documented archaeological sites, Ohio Archaeological Inventory (OAI) sites 33FA0180, 33FA0419, and 33FA1720, located within the addendum project area. OAI site 33FA0180 was documented in relation to a landowner's collection and does not have well-defined boundaries. These investigations did not relocate OAI site 33FA0180 within the addendum project area and no further archaeological survey is recommended in relation to this site.

A previous coordination letter issued for the West Lancaster-South Baltimore 138kV Rebuild Project

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(dated May 11, 2024) recommended avoidance or additional investigations for OAI site 33FA0419. The known boundaries of OAI site 33FA0419 are located entirely within one of the proposed expanded work areas, which is roughly bounded by Ety Road NW to the east, the Hocking River to the southwest, and a railroad to the northeast. Per the submission, Phase II assessment work for OAI site 33FA0419 is actively underway and the entirety of this expanded work area will be addressed through those investigations. Likewise, per the submission, OAI site 33FA1720 is located within this expanded work area and will be addressed concurrently with the Phase II investigations for site 33FA0419. Our office requests the opportunity to review and comment on the plan for investigations within this expanded work area, as it relates to OAI site 33FA1720 and the Phase II assessment of OAI site 33FA0419.

Finally, these investigations identified two (2) new OAI sites: 33FA2906 and 33FA2907. Both archaeological sites are precontact-era isolated find spots that lacked any diagnostic materials. Neither site was recommended eligible for listing on the National Register of Historic Places (NRHP) and our office agrees with this recommendation. No additional archaeological survey is recommended within the tested portions of the addendum project area.

In summary, our office agrees that no additional archaeological investigation is needed for OAI sites 33FA0180, 33FA2906, and 33FA2907; however, we continue to recommend avoidance or additional investigations for OAI site 33FA0419. We also recommend that the entirety of the expanded work area, which contains a portion of OAI site 33FA1720, as well as OAI site 33FA0419, be investigated. Our office looks forward to additional coordination regarding these two archaeological sites and the West Lancaster-South Baltimore 138kV Rebuild Project. If you have any questions, please contact me by e-mail at cgullett@ohiohistory.org. Thank you for your cooperation.

Sincerely,

Or C. Yllt

Catherine Gullett, Project Reviews Coordinator - Archaeology

Resource Protection and Review State Historic Preservation Office

RPR Serial No: 1103377

Letter of Notification for West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project

Appendix E Ecological Resources Inventory Report

WEST LANCASTER – SOUTH BALTIMORE – WEST MILLERSPORT 138KV REBUILD ECOLOGICAL REPORT



PROJECT SITE:

Southwest of OH-204 and OH-37 to Northeast of US Highway 22 and OH-57 Fairfield County, Ohio

PREPARED FOR:

AEP Ohio Transmission Company, Inc. 8600 Smiths Mill Road New Albany, Ohio 43054



PREPARED BY:

V3 Companies, Ltd. 619 North Pennsylvania Street Indianapolis, Indiana 46204 (317) 423-0690

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EXECUTIVE SUMMARY

V3 Companies, Ltd. (V3), performed an ecological survey and report for The West Lancaster – South Baltimore – West Millersport 138kv Transmission Line Rebuild project on March 27 and 28, 2024. The project begins at West Millersport Station, southwest of OH-204 and OH-37, Millersport, OH, and extends approximately 4.6 mile southwest to South Baltimore Station (Structures 33 to 2) and continues approximately 9.8 miles southwest to West Lancaster Station, northeast of US Highway 22 and OH-57 (Structures 71 to 1) in Fairfield County, Ohio (SITE). The survey area includes the 14.4-milelong transmission line and a 100-foot right of way corridor. V3 reached the following conclusions based on review of available and reasonably ascertainable federal, state, and local resources, and a SITE inspection conducted on the date referenced above.

- Seventeen streams were identified on-SITE, ST-31PER, ST-25-PER, ST-15-PER, Walnut Creek, ST-2-PER, ST-68-INT, ST-63-EPH, ST-55-INT, ST-53-INT, ST-48-EPH, ST-44-INT, ST-44-EPH, ST-42-INT, Hocking River, ST-14-PER, ST-11-INT and Hunters Run. All streams, except ST-63-EPH and ST-48-EPH, appear to be relatively permanent waters that will likely qualify as federally jurisdictional "Waters of the U.S.". Additionally, Hocking River is designated by the U.S. Army Corps of Engineers (USACE) as a Section 10 Navigable Waterway 79 miles upstream of the confluence of the Ohio River.
- Eight wetlands were identified on-SITE, WL-12-PEM, WL-10-PEM, WL-5-PEM, WL-68-PEM, WL-60-PEM, WL-50-PEM, and WL-41-PEM. Wetlands WL-68-PEM, WL-41-PEM and WL-18-PEM appear to have a connection to relatively permanent waters, therefore, will likely qualify as a "Waters of the U.S.". All the other wetlands did not appear to have direct connection to relatively permanent waters and are likely to be considered isolated.
- Two stormwater ponds were identified on-SITE. One potential stormwater pond was noted within an inaccessible residential area. The ponds appear to be isolated man-made features.
- An official species list obtained from the U.S. Fish and Wildlife Service (USFWS) Information Planning and Consultation (IPaC) website indicated that the SITE is within the ranges of the federally endangered Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), the proposed endangered tricolored bat (*Perimyotis subflavus*), the federally threatened eastern massasuaga (*Sistrurus catenatus*) and round hickorynut (*Obovaria subrotunda*), the proposed endangered salamander Mussel (*Simpsonaias ambigua*) and the candidate for listing monarch butterfly (*Danaus plexippus*). The USFWS made recommendations to avoid impacts to on-SITE streams and wetlands, and to avoid clearing potential roost trees for the federally listed bat species outside the recommended seasonal clearing dates, 1 October to 31 March. The USFWS stated the due to the project, type, size, and location, the agency does not anticipate adverse effects to any other federally endangered, threatened, or proposed species or proposed or designated critical habitat.
- Correspondence with the Ohio Department of Natural Resources (ODNR) indicated records of the state species of special concern cerulean warbler (*Setophaga cerulea*) and kidneyshell (*Ptychobranchus fasciolaris*), a Great Blue Heron rookery, Appalachian oak forest plant community, and oak-maple forest plant community within a one-mile radius of the SITE. Potentially suitable habitat for the kidneyshell was observed within the SITE. The documented plant communities are anticipated to occur within forested areas adjacent to the SITE. The ODNR Division of Fish and Wildlife stated that the SITE is also within the range of seven endangered, threaten, and rare (ETR) species. The ODNR stated that the project is not likely to impact these species if habitat is not impacted and gave recommendations to avoid and minimize impacts to these species and their habitats.



CHAPTER 1 INTRODUCTION

This report has been prepared solely in accordance with an agreement between American Electric Power ("CLIENT") and V3 Companies ("V3"), Ltd.

The services performed by V3 have been conducted in a manner consistent with the level of quality and skill generally exercised by members of its profession and consulting practices relating to this type of engagement.

This report is solely for the use of CLIENT and was prepared based upon an understanding of CLIENT's specific objective(s) and based upon information obtained by V3 in furtherance of CLIENT's specific objective(s). Any reliance of this report by third parties shall be at such third party's sole risk as this report may not contain, or be based upon, sufficient information for purposes of other parties, for their objectives, or for other uses. This report shall only be presented in full and may not be used to support any other objectives than those for CLIENT as set out in the report, except where written approval and consent are expressly provided by CLIENT and V3.

1.1 INTRODUCTION

The purpose of this investigation was to conduct an ecological survey and report of the SITE to evaluate potential land development permitting requirements regarding natural resources. In this report, V3 provides a detailed description of the information reviewed and collected as part of the scope of work for this project. V3 summarizes the jurisdictional framework applicable to this project, provides a desktop review of relevant and publicly available documents, and details information collected during the SITE reconnaissance including a wetlands determination, an evaluation of the potential presence of other natural resources within the SITE boundary, and a discussion of endangered, threatened, and rare (ETR) species and habitat. The Conclusions section summarizes V3's findings, addresses potential areas of concern and permitting, regulatory, and other relevant issues.



CHAPTER 2 JURISDICTIONAL RESOURCES

2.1 WETLANDS

Wetlands offer a variety of functions and values that may include, but are not limited to, groundwater recharge/discharge, flood flow alteration, sediment/toxicant retention, and fish and wildlife habitat. Because of the perceived functions and values of wetlands, USACE developed the Wetlands Delineation Manual, (1987 Manual)¹ to identify wetlands.

Wetlands are defined in the 1987 Manual as, "Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." The 1987 Manual outlines the protocol for distinguishing wetland areas from "upland" areas. Wetland areas are delineated according to three primary criteria: vegetation, soil, and hydrology. An area is determined to qualify as a wetland if it meets the following "general diagnostic environmental characteristics:"

- Hydrophytic vegetation
- Hydrology
- Hydric Soil

 $^{^1}$ USACE. Waterways Experiment Station. Wetlands Research Program. "Corps of Engineers Wetlands Delineation Manual." Vicksburg, MS: Environmental Laboratory, 1987



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CHAPTER 3 DESKTOP REVIEW

V3 reviewed applicable, readily available, and accessible historical information for the potential presence of wetlands, "Waters of the U.S.," and other natural resources.

3.1 UNITED STATES GEOLOGICAL SURVEY 7.5-MINUTE QUADRANGLE MAP

A USGS 7.5-Minute Quadrangle map displays contour lines to portray the shape and elevation of the land surface. Quadrangle maps render the three-dimensional changes in elevation of the terrain on a two-dimensional surface. The maps usually portray both manmade and natural topographic features. Although they show lakes, rivers, various surface water drainage trends, vegetation, etc., they typically do not provide the level of detail needed for accurate evaluation of wetlands. However, the existence of these features may suggest the potential presence of wetlands.

The SITE is situated in the Millersport, Baltimore, Carroll, and Amanda, Ohio USGS 7.5-Minute Quadrangle Map. Section, Township and Range information is described in **Table 3-1**. V3 evaluated the topography and concluded that the SITE elevation ranges from approximately 820 to 1100 feet above mean sea level (AMSL). Seven aquatic features are mapped within the SITE area, Hocking River, Walnut Creek, Abandoned Ohio Canal, and four unnamed streams (**Figure 1**).

Section	Township, Range	Structure Location
6, 7, 18, 19	16 North, 18 West	33 to 12
24, 25, 36	16 North, 19 West	11 to 63
1, 2, 11, 14, 23, 26, 27, 34, 35	15 North, 19 West	62 to 16
2, 3, 10, 11	14 North, 19 West	15 to 1

Table 3-1: Section, Township, and Range Description

3.2 NATIONAL WETLANDS INVENTORY MAP

National Wetlands Inventory (NWI) maps were developed to meet a USFWS mandate to map the wetland and deepwater habitats of the U.S. These maps were developed using high altitude aerial photographs and USGS Quadrangle maps as a topographic base. Indicators that exhibited predetermined wetland characteristics, visible in the photographs, were identified according to a detailed classification system. The NWI map retains some of the detail of the Quadrangle map; however, it is used primarily for demonstration of wetland areas identified by the agency. The maps are accurate to a scale of 1:24,000. In general, the NWI information requires field verification.

NWI data is shown projected over aerial imagery in **Figure 2**. There are 14 NWI features are mapped within the SITE area and described in **Table 3-2**. The presence of NWI features mapped partially or fully within the SITE area suggests the potential presence of wetlands or other regulated aquatic features on-SITE.



Table 3-2: NWI Classification Description

Symbol	Description	Nearest Structure
PEM1A	Palustrine, Emergent, Persistent, Temporarily Flooded	60 South
PEM1C	Palustrine, Emergent, Persistent, Seasonally Flooded	60 South
PUBGx	Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated	32 South
R2UBG	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded, Intermittently Exposed	18, 15, 1 South
R2UBH	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded	25 North
		31 North
		3, 2 North
		55 South
R4SBC	Riverine, Intermittent, Streambed, Seasonally Flooded	53 South
		48 South
		44 South
		11 South
R5UBH	Riverine, Unknown Perennial, Unconsolidated Bottom, Permanently	15 North
NOUBH	Flooded	3 North

3.3 FLOOD INSURANCE RATE MAP

The Federal Emergency Management Agency (FEMA) was developed in 1979 to reform disaster relief and recovery, civil defense, and to prepare and mitigate for natural hazards. The Mitigation Division of FEMA manages the National Flood Insurance Program which provides guidance on how to lessen the impact of disasters on communities through flood insurance, floodplain management, and flood hazard mapping. Proper floodplain management has the ability to minimize the extent of flooding and flood damage and improve stormwater quality by reducing stormwater velocities and erosion. The one percent annual chance flood (100-year flood) boundary must be kept free of encroachment as the national standard for the program.

V3 reviewed digital National Flood Hazard Zone data for Fairfield County, Ohio (Figure 2). Various portions of the site are mapped within the 100-year floodway, Flood Zone X, A, and AE (Table 3-3).

Table 3-3: Flood Zone Description

Flood Zone	Associated Stream	Nearest Structure		
AE	Walnut Creek	4 to 2 North		
Floodway	wamut Creek	3 North		
AE	Haakina Diyan	21 to 19 South		
Floodway	Hocking River	19 South		
AE	ST-14-PER	15 South		
Floodway	31-14-FEN	13 30utii		
AE	Hunters Run	2 to 1 South		
Floodway	nuillers kuii	1 South		

3.4 UNITED STATES DEPARTMENT OF AGRICULTURE SOIL SURVEY

V3 reviewed the soils mapped on-SITE using the Natural Resource Conservation Service (NRCS) digital soil survey data for Fairfield County, Ohio. This data is projected over aerial photography, illustrating distinct soil map unit boundaries, in **Figure 3**.



Table 3-4: Soil Survey Description

Soil Map Unit	Description	Hydric within Fairfield County
Ag	Aetna silt loam, occasionally flooded	No
Ah	Aetna silt loam, fan, occasionally flooded	No
AmB	Amanda silt loam, 2 to 6 percent slopes	No
AmB2	Amanda silt loam, 2 to 6 percent slopes, eroded	No
AmC2	Amanda silt loam, 6 to 12 percent slopes, eroded	No
AmD2	Amanda silt loam, 12 to 20 percent slopes, eroded	No
AmE2	Amanda silt loam, 20 to 35 percent slopes, eroded	No
AoC3	Amanda silty clay loam, 6 to 12 percent slopes, severely eroded	No
ApC2	Amanda-Loudonville complex, 6 to 12 percent slopes, eroded	No
ApD2	Amanda-Loudonville complex, 12 to 20 percent slopes, eroded	No
BeA	Bennington silt loam, 0 to 2 percent slopes	No
BeB	Bennington silt loam, 2 to 6 percent slopes	No
Cen1B1	Centerburg silt loam, 2 to 6 percent slopes	No
Cen1B2	Centerburg silt loam, 2 to 6 percent slopes, eroded	No
Cen1C2	Centerburg silt loam, 6 to 12 percent slopes, eroded	No
Crd1B1	Cardington silt loam, 2 to 6 percent slopes	No
CsA	Canal silt loam, 0 to 2 percent slopes	No
Ee	Eel silt loam, gravelly substratum, occasionally flooded	No
FmA	Fox silt loam, 0 to 2 percent slopes	No
FmB	Fox silt loam, 2 to 6 percent slopes	No
GaB	Gallman silt loam, loamy substratum, 2 to 6 percent slopes	No
GnB	Glenford silt loam, 3 to 8 percent slopes	No
LtE	Loudonville-Steinsburg complex, 20 to 35 percent slopes	No
Ma	Marengo clay loam	Yes
Mb	Marengo silt loam, overwash	Yes
Mns3A	Minster silty clay loam, 0 to 1 percent slopes	Yes
Pb	Patton silty clay loam, 0 to 2 percent slopes, rarely flooded	Yes
Pe	Pewamo silty clay loam, low carbonate till, 0 to 2 percent slopes	Yes
SkA	Sleeth silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	No
ThA	Thackery silt loam, 0 to 2 percent slopes	No
Ud	Udorthents, loamy	No
UoC	Urban land-Amanda complex, 2 to 12 percent slopes	No
UrB	Urban land-Bennington complex, 0 to 6 percent slopes	No
WdA	Wea silt loam, 0 to 2 percent slopes	No

Five hydric soil unit is situated within the SITE. Marengo clay load (Ma), Marengo silt loam, overwash (Mb), Minister silty clay loam, 0 to 1 percent slopes (Mns3A), Patton silty clay loam, 0 to 2 percent slopes, rarely flooded (Pb), and Pewamo silty clay loam, low carbonate till, 0 to 2 percent slopes (Pe), are considered hydric within Fairfield County, Ohio. Soils are considered hydric if more than 50 percent of the soil contains hydric components according to the NRCS Web Soil Survey. The presence of hydric soil units within the SITE area suggests appropriate wetland soils are located on-SITE.

3.5 ENDANGERED, THREATENED, AND RARE SPECIES EVALUATION

An official species list obtained from the USFWS IPaC website indicated that the SITE is within the ranges of the federally endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*), the federally proposed endangered tricolored bat (*Perimyotis subflavus*) and salamander mussel (*Simpsonaias ambigua*); the federally threatened eastern massasaunga rattlesnake



(Sistrurus catenatus) and round hickorynut (Obovaria subrotunda), and the monarch butterfly (Danaus plexippus), a candidate for listing under the Endangered Species Act. The USFWS made recommendations to avoid impacts to on-SITE streams and wetlands, and to avoid clearing potential roost trees for the federally listed bat species. The USFWS stated that if tree clearing cannot be avoided, then seasonal clearing shall be done to avoid adverse effects to the Indiana bats and the northern longeared bats. The USFWS stated the due to the project, type, size, and location, the agency does not anticipate adverse effects to any other federally endangered, threatened, or proposed species or proposed or designated critical habitat.

Correspondence with the ODNR indicated records of the state species of special concern cerulean warbler (*Setophaga cerulea*) and kidneyshell (*Ptychobranchus fasciolaris*), a Great blue Heron rookery, Appalachian oak forest plant community, and oak-maple forest plant community within a one-mile radius of the SITE. Additionally, the ODNR Division of Fish and Wildlife stated that the SITE is within the range of seven ETR species (**Table 3-5**).

ODNR recommended a desktop habitat assessment followed by a field assessment, if needed, to identify if potential bat hibernacula are present within the Project area. V3 completed a desktop assessment including data on known abandoned or active mines and locations known or suspected of karst geology. The desktop assessment identified no karst features or mine openings within 0.25 mile of the Project area. Further, no suitable bat hibernacula were observed during the field reconnaissance.

Based on the documentation referenced above, additional correspondence with the agencies does not appear to be warranted at this time. If federal permitting or federal financing will be used in future development, additional coordination may be necessary. Copies of agency correspondence can be referenced in **Appendix A**.



Table 3-5: ETR Species Table

Scientific Name	Common Name	State Listed Status	Federally Listed Status	Typical Habitat Description	Habitat Observed In Survey Area	Avoidance Dates	Agency Comment (Appendix A)	Potential Impacts		
	Mussels									
Ptychobranchus fasciolaris	Ptychobranchus Special N/A Special N/A									

	Fishes											
Ichthyomyzon fossor	Northern brook lamprey	Endangered	N/A	Perennial streams	Yes	15 March to 30 June	ODNR - If no in-water work is proposed in a perennial stream, this	No —work in habitat not proposed				
Notropis ariommus	Popeye shiner	Endangered	N/A	Perennial streams	Yes	15 March to 30 June	project is not likely to impact these species	No —work in habitat not proposed				

					Bir	rds			
	Setophaga cerulea	Cerulean Warbler	Special Concern	N/A	Deciduous forests	No	N/A	ODNR	No
Ciı	rcus hudsonius	Northern Harrier	Endangered	N/A	Breed and hunt in large marshes and grasslands. Nests on the ground atop mounds	Yes	15 April to 31 July	ODNR - If the habitat will not be impacted, this project is not likely to impact this species.	TBD - If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31.



				Mamm	als					
Myotis sodalis	Indiana bat	Endangered	Endangered	During the spring and summer (April 1 through	No		ODNR/USFWS — Cutting of trees is recommended between 1 October and 31 March. If seasonal tree cutting is not possible, a mist net survey or acoustic survey may be conducted by an approved surveyor between 1 June and 15 August.			
Myotis septentrionalis	Northern long- eared bat	Endangered	Endangered	through September 30), these bat species predominately roost in trees behind loose, exfoliating bark,	No	1 April to 30	ODNR - If a habitat assessment finds that potential hibernacula are present within 0.25 mile of the project area, please send this information to Eileen Wyza for project recommendations. If a	No - Impacts are avoided with winter tree clearing. If winter tree clearing		
Myotis lucifugus	Little brown bat	Endangered	Endangered	in crevices and cavities, or in the leaves. However, these species are also dependent on	in crevices and cavities, or in the leaves. However, these species are also	cavities, or in the leaves. However, these species are also dependent on the forest	No	September	potential or known hibernaculum is found, the Division of Wildlife (DOW) recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree	is not feasible, presence/absence surveys may be needed.
Perimyotis subflavus	Tricolored bat	Proposed Endangered	N/A	structure surrounding roost trees	No		cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.			



CHAPTER 4 SITE RECONNAISSANCE

4.1 METHODOLOGY

V3 conducted a field investigation at the SITE on March 27 and 28, 2024. During this investigation, V3 noted the presumed land use of the SITE and surrounding area, and evaluated the SITE for the potential presence of wetlands, "Waters of the U.S.," and natural resources using the findings of the desktop review and field observations. Photographs were taken during the field investigation and are provided in **Appendix B**.

V3 used the Routine Determination Method (RDM) with an established baseline and transects as described in the 1987 Manual for typical sites over five acres. V3 recorded data from a number of data points (DP) along the transect as a function of diversity of vegetation, property size, soil types, habitat variability, and other SITE features as deemed appropriate by V3. Where evidence of a wetland was suspected, three wetland criteria were applied to determine if the area in question was representative of a wetland using the methodology set forth by USACE. More specifically, V3 visually examined and recorded the dominant vegetation, recorded soil properties such as texture and color using the Munsell Soil Color Chart (Munsell Color Chart), excavated soil pits, and evaluated the primary and secondary hydrologic indicators.

If all three criteria were met, i.e. vegetation, soil properties, and hydrologic indicators, a second DP was established adjacent to the wetland DP in an area outside of the presumed wetland boundary for the purpose of delineating between the wetland and non-wetland areas. Once delineated, V3 continued the RDM to evaluate the remainder of the SITE.

4.2 SITE AND ADJACENT PROPERTY LAND USE

The 14.4-mile-long corridor consists of residential, commercial, fallow, and agricultural use land, woodland, and existing substations. Adjacent land use consists of residential, commercial, fallow, and agricultural land, and woodland.

4.3 WETLAND SUMMARY

Eight wetlands were identified during this investigation based upon the methodology set forth in the 1987 Manual and the Midwest Regional Supplement. Information that V3 collected at each DP on March 27 and 28, 2024 is described in the following section. This information is summarized on the forms provided in Appendix C. An overall SITE delineation map showing placement of the DPs is included as Figure 4.

	Location				- 1	С		Proposed Impacts			
Wetland ID	Latitude	Longitude	Isolated?	Habitat Type			Delineated Area (acre)	Score	Category	Temporary Matting Area (acre)	Permanent Impact Area (acre)
WL-12-PEM	39.84744	-82.58657	Yes	PEM	0.06	43.5	Modified 2	TBD	0		
WL-10-PEM	39.84171	-82.58895	Yes	PEM	0.17	2	1	TBD	0		
WL-5-PEM	39.83423	-82.59153	Yes	PEM	0.11	32	1 or 2 gray zone	TBD	0		

Table 6-1: Delineated Wetlands Identified within the Survey Area



WL-68-PEM	39.82181	-82.59758	No	PEM	0.10	31	1 or 2 gray zone	TBD	0
WL-60-PEM	39.80855	-82.61096	Yes	PEM	1.91	39	Modified 2	TBD	0
WL-50-PEM	39.79325	-82.62197	Yes	PEM	0.03	32	1 or 2 gray zone	TBD	0
WL-41-PEM	39.77470	-82.62809	No	PEM	0.40	32.5	1 or 2 gray zone	TBD	0
WL-18-PEM	39.72906	-82.63356	No	PEM	0.05	40	Modified 2	TBD	0

4.3.1 Wetland WL-12-PEM - (0.06-acre PEM on-SITE)

Wetland WL-12-PEM was situated adjacent to Structure 12 and consisted of 0.06 acres of palustrine, emergent wetland (PEM) on-SITE. Wetland WL-12-PEM appears to continue east off-SITE and did not appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S.".

DP WL-12

This DP was collected in the northern portion of Wetland WL-12-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of rice cut grass (*Leersia oryzoides*, OBL., 80%) and Virginia wild rye (*Elymus virginicus*, FACW, 20%). The soil profile met the depleted matrix (F3) indicator for hydric soil. Evidence of wetland hydrology included surface water (A1), high water table (A2), saturation (A3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-12

This DP was collected in the upland area adjacent to DP WL-12. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of multiflora rose (*Rosa multiflora*, FACU 8%), Allegheny blackberry (*Rubus alleghensis*, FACU, 2%), Canadian goldenrod (*Solidago canadensis*, FACU, 75%), and Indian-hemp (*Apocynum cannabinum*, FAC, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

4.3.2 Wetland WL-10-PEM - (0.17-acre PEM on-SITE)

Wetland WL-10-PEM was situated adjacent to Structure 10 and consisted of 0.17 acres of PEM on-SITE. Wetland WL-10-PEM appears to continue east off-SITE and did not appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S."

DP WL-10

This DP was collected in the west portion of Wetland WL-10-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of Virginia wild rye (FACW, 25%) and garden yellow-rocket (*Barbarea vulgaris*, FAC, 15%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included surface water (A1), high water table (A2), saturation (A3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-10

This DP was collected in the upland area adjacent to DP WL-10. This area met hydric soil criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify



as a wetland. The dominant vegetation for each stratum present consisted of common wheat (*Triticum aestivum*, UPL, 80%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

4.3.3 Wetland WL-5-PEM - (0.11-acre PEM on-SITE)

Wetland WL-5-PEM was situated adjacent to Structure 5 and consisted of 0.11 acres PEM on-SITE. Wetland WL-5-PEM appears to continue east off-SITE and did not appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S."

DP WL-5

This DP was collected in the northwest portion of Wetland WL-5-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of darkgreen bulrush (*Scirpus atrovirens*, OBL, 60%), and Indian-hemp (FAC, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2), saturation (A3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-5

This DP was collected in the upland area adjacent to DP WL-5. This area met the hydric vegetation and hydrology criteria but did not meet the hydric soil criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 5%), red maple (*Acer rubrum*, FAC, 5%), Canadian goldenrod (FACU, 50%), tall false rye grass (*Schedonorus arundinaceus*, FACU, 30%), and deer tongue panic grass (*Dichanthelium clandestinum*, FACW, 20%).

4.3.4 Wetland WL-68-PEM - (0.10-acre PEM on-SITE)

Wetland WL-68-PEM was situated adjacent to Structure 68 and consisted of 0.10 acres of PEM on-SITE. Wetland WL-68-PEM appears to continue east off-SITE and did appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S."

DP WL-68

This DP was collected in the north portion of Wetland WL-68-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of common rush (OBL, 40%) and deer tongue panic grass (FACW, 30%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-68

This DP was collected in the upland area adjacent to DP WL-68. This area met x criteria but did not meet x criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 10%), path rush (*Juncus tenuis*, FAC, 50%), Canadian goldenrod (FACU, 20%), and white heath aster (*Symphyotrichum ericoides*, FACU, 10%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

4.3.5 Wetland WL-60-PEM - (1.91-acre PEM on-SITE)

Wetland WL-60-PEM was situated adjacent to Structure 60 and consisted of 1.91 acres of PEM on-site. Wetland WL-60-PEM appears to continue east and west off-SITE and did appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S."



DP WL-60

This DP was collected in the northeast portion of Wetland WL-60-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of lamp rush (*Juncus effusus*, OBL, 45%), and reed canary grass (*Phalaris arundinacea*, FACW, 25%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2), saturation (A3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-60

This DP was collected in the upland area adjacent to DP WL-60. This area met the hydric soil criterion but did not meet the hydrophytic vegetation or hydrology criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 55%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

DP WL-60A

This DP was collected in the southwest portion of Wetland WL-60-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of lamp rush (OBL, 20%) and dark-green bulrush (OBL, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2), saturation (A3), crayfish burrows (C8), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-60A

This DP was collected in the upland area adjacent to DP WL-60A. This area met hydric soil and hydrology criteria but did not meet the hydric vegetation criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Canadian goldenrod (FACU, 70%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2) and saturation (A3).

4.3.6 Wetland WL-50-PEM - (0.03-acre PEM)

Wetland WL-50-PEM was situated adjacent to Structure 50 and consisted of 0.03 acres of PEM. Wetland WL-50-PEM did not appear to have a hydrologic connection with any federally jurisdictional "Waters of the U.S."

DP WL-50

This DP was collected in the central portion of Wetland WL-50-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of common fox sedge (*Carex vulpinoidea*, FACW, 100%). The soil profile met the depleted matrix (F3) indicator for hydric soil. Evidence of wetland hydrology included oxidized rhizospheres on living roots (C3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-50

This DP was collected in the upland area adjacent to DP WL-50. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Japanese bristle grass (*Setaria faberi*, FACU, 70%) and corn residue (*Zea mays*, UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.



4.3.7 Wetland WL-41-PEM - (0.40-acre PEM on-SITE)

Wetland WL-41-PEM was situated adjacent to Structure 41 and consisted of 0.40 acres of PEM on-SITE. Wetland WL-41-PEM appears to continue west and did appear to have a hydrologic connection with a federally jurisdictional "Waters of the U.S."

DP WL-41

This DP was collected in the north portion of Wetland WL-41-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 5%), white vervain (*Verbena urticfolia*, FAC, 20%), and reed canary grass (FACW, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included high water table (A2), saturation (A3), geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-41

This DP was collected in the upland area adjacent to DP WL-41. This area met hydric soil criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 15%) and tall false rye grass (FACU, 70%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

DP WL-41A

This DP was collected in the south portion of Wetland WL-41-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of common fox sedge (FACW, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-41A

This DP was collected in the upland area adjacent to DP WL-41A. This area met the hydric vegetation criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Japanese bristle grass (FACU, 60%) No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

4.3.8 Wetland WL-8-PEM - (0.05-acre PEM)

Wetland WL-18-PEM was situated adjacent to Structure 18 and consisted of 0.05 acres of PEM. Wetland WL-18-PEM did appear to have a hydrologic connection with a federally jurisdictional "Waters of the U.S."

DP WL-18

This DP was collected in the southern portion of Wetland Wl-18-PEM. All three criteria were met which qualifies this area as a wetland. The dominant vegetation for each stratum present consisted of reed canary grass (FACW, 98%). The soil profile met the redox dark surface (F6) indicator for hydric soil. Evidence of wetland hydrology included geomorphic position (D2), and FAC-neutral test (D5).

DP UPL-18

This DP was collected in the upland area adjacent to DPWL-18. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Northern catalpa (*Catalpa speciosa*, FACU, 50%),



multiflora rose (FACU, 15%), and Virginia wild rye (FACW, 50%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

4.4 DATA POINT SUMMARY

Below is a description of the information collected at each additional DP during the March 27 and 28, 2024 field investigation that was not associated with an identified wetland area. The purpose of collecting these DPs was to describe the remaining characteristics of the SITE. Information that was collected at each DP is summarized on the forms provided in **Appendix C**. Their placement is depicted in **Figure 4**.

DP 33A

This DP was collected north of Structure 33 at West Millersport Station. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 50%) and Canadian goldenrod (FACU, 40%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 33

This DP was collected south of Structure 33 at West Millersport Station. This area met the hydric vegetation criteria but did not meet any other criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of garden yellow-rocket (FAC, 40%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 31

This DP was collected north of Structure 31. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of purple dead-nettle (*Lamium purpureum*, UPL, 48%) and corn residue (UPL, 40%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 28

This DP was collected north of Structure 28. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of soybean residue (*Glycine max*, UPL, 60. No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 25

This DP was collected north of Structure 25. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Allegheny blackberry (FACU, 5%), poison hemlock (*Conium maculatum*, FACW, 30%), purple dead-nettle (UPL, 30%), and yellow nut sedge (*Cyperus esculentus*, FACW, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 22

This DP was collected north of Structure 22. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of soybean residue (UPL, 40%), garden yellow-rocket (FAC, 20%), and common chickweed (*Stellaria media*, FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.



DP 19

This DP was collected south of Structure 19. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of corn residue (UPL, 70%) and common chickweed (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 16

This DP was collected south of Structure 16. This area met the hydric vegetation criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of reed canary grass (FACW, 45%) and Indian-hemp (FAC, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 14

This DP was collected north of Structure 14. This area met the hydric soil criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of soybean residue (UPL, 60%) and annual ryegrass (*Lolium multiflorum*, UPL, 30%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

DP 12

This DP was collected south of Structure 12. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Callery pear (*Pyrus calleryana*, UPL, 40%), black elder (*Sambucus nigra*, FACU, 15%), crow garlic (*Allium vineale*, FACU, 30%), and Canadian goldenrod (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 10

This DP was collected south of Structure 10. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of red osier dogwood (*Cornus alba*, FACW, 30%), Allegheny blackberry (FACU, 20%), and Canadian goldenrod (FACU, 40%). The soil profile met the depleted matrix (F3) indicator for hydric soil. No indicators of wetland hydrology were observed.

DP8

This DP was collected north of Structure 8. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of common wheat (UPL, 80%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 6

This DP was collected north of Structure 6. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of slough sedge (*Carex atherodes*, OBL, 100%). This DP was in a residential yard, therefore there was no soil pit taken. No indicators of wetland hydrology were observed.



DP 4

This DP was collected north of Structure 4. This area met the hydrophytic vegetation and wetland hydrology criteria but did not meet the hydric soil criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of lamp rush (30%, OBL), Canadian goldenrod (25%, FACU), and tall false rye grass (20%, FACU). No indicators of hydric soils were observed. Evidence of wetland hydrology included high water table (A2) and saturation (A3).

DP 4A

This DP was collected south of Structure 4. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of corn residue (UPL, 100%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP3

This DP was collected north of Structure 3. This area met the hydric vegetation and hydrology criteria but did not meet the hydric soil criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of yellow ironweed (*Verbesina alternifolia*, FACW, 25%), Canadian goldenrod (FACW, 20%), and stinging nettle (*Urtica dioica*, FACW, 20%). No indicators of hydric soils were observed. Evidence of wetland hydrology included geomorphic position (D2), and FAC-neutral test (D5).

DP 2

This DP was north of Structure 2. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of corn residue (UPL, 30%), rape (*Brassica rapa*, FACW, 15%), purple dead-nettle (UPL, 10%), and butterweed (*Packera glabella*, FACW, 10%)). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 71

This DP was collected north of Structure 71. This area met the hydrology criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of red osier dogwood (FACW, 30%), Allegheny blackberry (FACU, 15%), Canadian goldenrod (FACU, 25%), and purple leaf willowherb (*Epilobium coloratum*, OBL, 20%). No indicators of hydric soils were observed. Evidence of wetland hydrology included high water table (A2), saturation (A3), and geomorphic position (D2).

DP 70

This DP was collected north of Structure 70. This area met the hydric soil criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Japanese bristle grass (FACU, 35%), yellow bristle grass (*Setaria pumila*, FAC, 355), and Kentucky blue grass (*Poa pratensis*, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of wetland hydrology were observed.

DP 68

This DP was collected north of Structure 68. This area did not meet any wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each



stratum present consisted of Allegheny blackberry (FACU, 30%), autumn olive (*Elaeagnus umbellata*, UPL, 105), Kentucky blue grass (FAC, 60%), and common dandelion (*Taraxacum officinale*, FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 63

This DP was collected north of Structure 63. This area met hydric vegetation criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 100%) This DP was in a residential yard, therefore there was no soil pit taken. No indicators of wetland hydrology were observed.

DP 62A

This DP was collected northwest of Structure 62. This area met the hydric vegetation and hydrology criteria but did not meet the hydric soil criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of red maple (*Acer rubrum*, FAC, 30%), Amur honeysuckle (*Lonicera maackii*, UPL, 15%), Narrow-Leaf Cat-Tail (*Typha angustifolia*, OBL, 50%), garden yellow-rocket (FAC, 20%), and Kentucky blue grass (FAC, 20%). No indicators of hydric soils were observed. Evidence of wetland hydrology included saturation (A3) and FAC-neutral test (D5).

DP 62

This DP was collected north of Structure 62. This area met the wetland hydrology criteria but did not meet any other criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted gray dogwood (*Cornus racemosa*, FAC, 50%), tall false rye grass (FACU, 20%), and rape (FACW, 10%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 59

This DP was collected in the central portion of the SITE. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Alleghany blackberry (FACU, 10%,), apple mint (*Mentha X rotundifolia*, FAC, 10%,), bristle grass (FACU, 30%), meadow garlic (*Allium canadense*, FACU, 30%), and Indian-hemp (FAC, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 57

This DP was collected south of Structure 57. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Virginia wildrye (FACW, 50%) and rape (*Brassica napus*, UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 52

This DP was collected in the central portion of the SITE. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Alleghany blackberry (FACU, 20%), fix sedge (FACW, 40%), and tall false rye grass (FACU, 35%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.



DP 48

This DP was collected north of Structure 48. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Canadian goldenrod (FACU, 40%), tall false rye grass (FACU, 30%), and Japanese bristle grass (FACU, 25%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 46

This DP was collected south of Structure 46. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 40%) and purple dead-nettle (UPL, 30%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 44

This DP was collected north of Structure 44. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of black walnut (*Juglans nigra*, FACU, 10% tree layer, 30% shrub layer), multiflora rose (FACU, 25%), dewberry (*Rubus caesius*, FACU, 20%), smooth brome (FACU,, 50%), poison hemlock (FACW, 20%), tiger lily (*Lilium lancifolium*, UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 42

This DP was collected south of Structure 42. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 50%) and white clover (*Trifolium repens*, FACU, 30%). Since the area consists of active pasture, no soil profile was obtained in this area. No indicators of wetland hydrology were observed.

DP 41

This DP was collected south of Structure 41. This area met the hydric soil profile but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of European buckthorn (*Rhamnus cathartica*, FAC, 30%), tree of heaven (*Ailanthus altissima*, FACU, 155), tall false rye grass (FACU, 30%), and woodland strawberry (*Fragaria vesca*, UPL, 20%). The soil profile met the redox dark surface (F6) indicator for hydric soil. No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 40

This DP was collected south of Structure 40. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of European buckthorn (FAC, 40%) and tall false rye grass (FACU, 80%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 39

This DP was collected north of Structure 39. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 80%). Since the area consists of a residential lawn, no soil profile was obtained in this area. No indicators of wetland hydrology were observed.



DP 36

This DP was collected north of Structure 36. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of orchard grass (*Dactylis glomerata*, FACU, 80%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 34

This DP was collected north of Structure 34. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of soybean residue (UPL, 50%) and common chickweed (FACU, 40%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 32

This DP was collected south of Structure 32, north of the stormwater pond. This area met the hydric vegetation and soil criteria but did not meet the hydrology criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of reed canary grass (FACW, 100%). The soil profile met the depleted matrix (F3) indicator for hydric soil. Evidence of hydrology observed included one secondary indicator, FAC-neutral test (D5).

DP 32A

This DP was collected south of Structure 32, north of the stormwater pond. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Johnson grass (*Sorghum halepense*, FACU, 60%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 31A

This DP was collected south of Structure 31 in the South Baltimore – West Lancaster portion of the line. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 50%) and Kentucky blue grass (FAC, 45%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 26

This DP was collected north of Structure 26. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Callery pear (UPL, 40%), Amur honeysuckle (UPL, 10%), common chickweed (FACU, 50%), and winter creeper (Euonymus fortune, UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 23

This DP was collected south of Structure 23. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 40%), Kentucky blue grass (FAC, 30%), and white clover (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.



DP 22A

This DP was collected south of Structure 22 in the South Baltimore – West Lancaster portion of the line. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Callery pear (UPL, 40%), broomsedge (*Andropogon virginicus*, FACU, 40%), and yellow bristle grass (FAC, 30%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 20

This DP was collected southeast of Structure 20. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of soybean residue (UPL, 40%), common chickweed (FACU, 40%), and purple dead-nettle (UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 15

This DP was collected north of Structure 15. This area met the hydric vegetation criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Kentucky blue grass (FAC, 40%), poison hemlock (FACW, 20%), and purple coneflower (*Echinacea pallida*, UPL, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 13

This DP was collected north of Structure 13. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of Kentucky blue grass (FAC, 60%), groundivy (*Glechoma hederacea*, FACU, 20%), and white clover (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 11

This DP was collected south of Structure 11. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of orchard grass (FACU, 75%) and tall false rye grass (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 8A

This DP was collected north of Structure 8 in the South Baltimore – West Lancaster portion of the line. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of sassafras (*Sassafras albidum*, FACU, 75%), orchard grass (FACU, 50%), white avens (*Geum canadense*, FAC, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 7

This DP was collected north of Structure 7. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of black raspberry (UPL, 10%), orchard grass, (FACU, 35%), wand panic grass (Panicum virgatum, FAC, 30%), Canadian goldenrod (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.



DP 5A

This DP was collected south of Structure 5, in the South Baltimore – West Lancaster portion of the line. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of corn residue (UPL, 60%) and common chickweed (FACU, 20%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 3A

This DP was collected south of Structure 3, in the South Baltimore – West Lancaster portion of the line. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of tall false rye grass (FACU, 100%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 1A

This DP was collected north of Structure 1. This area met no wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of black walnut (FACU, 20% tree layer, 20% shrub layer), black locust (*Robinia pseudoacacia*, FACU, 10% tree layer, 30% shrub layer), and poison hemlock (FACW, 70%). No indicators of hydric soils were observed. No indicators of wetland hydrology were observed.

DP 1

This DP was collected north of Structure 1, near West Lancaster Station. This area met the hydric vegetation criteria but did not meet any other wetland criteria. Since all three criteria were not met, this area does not qualify as a wetland. The dominant vegetation for each stratum present consisted of black locust (FACU, 20%), poison hemlock (FACW, 20%), reed canary grass (FACW, 20%), Kentucky blue grass (FAC, 20%), and Canadian goldenrod (FACU, 20%). No indicators of hydric soils were observed. Evidence of hydrology observed included one secondary indicator, FAC-neutral test (D5).

4.5 DRAINAGE FEATURES, STREAMS, AND OTHER POTENTIAL "WATERS OF THE U.S."

Seventeen streams and two open water bodies were identified during this investigation using the methods described in Chapter 2. Information that V3 collected at each feature on March 27 and 28, 2024 is described in the following section. An overall SITE delineation map is included as **Figure 4**.

	Location					1	Field Evaluation			
Feature	Latitude	Longitude	Stream Type	Delineated Length (LF)	Bankfull Width (feet)	OHWM Width (feet)	Method	Score	Category / Rating / OAC Designation	OEPA 401 Eligibility
ST-31PER	39.884393	-82.570045	Perennial	200	15	6	HHEI	46	Class II	Eligible
ST-25-PER	39.871932	-82.576556	Perennial	115	15	4.5	QHEI	40	Poor	Eligible
ST-15-PER	39.854039	-82.583946	Perennial	140	25	8	QHEI	33	Poor	Eligible
Walnut Creek	39.830733	-82.592574	Perennial	130	70	8	QHEI	59	Fair	Eligible

Table 4-7: Delineated Streams Identified within the Survey Area



ST-2-PER	39.828794	-82.593100	Perennial	75	15	1	HHEI	54	Class II	Eligible
ST-68-INT	39.821861	-82.597822	Intermittent	370	3	2	HHEI	52	Class II	Eligible
ST-63-EPH	39.814531	-82.605325	Ephemeral	150	2	1	HHEI	37	Class II	Eligible
ST-55-INT	39.800803	-82.617154	Intermittent	145	20	3	HHEI	65	Class II	Eligible
ST-53-INT	39.798781	-82.618683	Intermittent	170	15	3	HHEI	79	Class III	Eligible
ST-48-EPH	39.789227	-82.623228	Ephemeral	115	1	0.5	HHEI	37	Class II	Eligible
ST-44-INT	39.780704	-82.626219	Intermittent	80	15	4	HHEI	55	Class II	Eligible
ST-44-EPH	39.775429	-82.627703	Ephemeral	175	3	1	HHEI	27	Class I	Eligible
ST-42-INT	39.775106	-82.627853	Intermittent	240	12	4	HHEI	63	Class II	Eligible
Hocking River	39.729227	-82.633761	Perennial	330	60	40	QHEI	56.5	Fair	Eligible
ST-14-PER	39.725387	-82.631711	Perennial	70	30	8	QHEI	40.25	Poor	Eligible
ST-11-INT	39.719129	-82.638527	Intermittent	110	20	2.5	HHEI	26	Class I	Eligible
Hunters Run	39.702036	-82.638647	Perennial	200	60	11	QHEI	44	Poor	Eligible

4.5.1 ST-31-PER — (200-linear feet, Perennial stream)

ST-31-PER is located in northeast of Structure 31 and consisted of 200 linear feet of perennial stream within the SITE. The substrate of ST-31-PER consisted of silt and clay. ST-31-PER has an average width at the ordinary high water mark (OHWM) of 6 feet within the SITE. ST-31-PER appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.2 ST-25-PER - (75-linear feet, Perennial stream)

ST-25-PER is located north of Structure 25 and consisted of 75 linear feet of perennial stream within the SITE. The substrate of ST-25-PER consisted of sand and silt. ST-25-PER has an average width at the OHWM of 4.5 feet within the SITE. ST-25-PER appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.3 ST-15-PER - (140-linear feet, Perennial stream)

ST-15-PER is located north of Structure 15 and consisted of 140 linear feet of perennial stream within the SITE. The substrate of ST-15-PER consisted of silt, clay, and sand. ST-15-PER has an average width at the OHWM of 8 feet within the SITE. ST-15-PER appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.4 Walnut Creek — (130-linear feet, Perennial stream)

Walnut Creek is located north of Structure 3 and consisted of 130 linear feet of perennial stream within the SITE. The substrate of Walnut Creek consisted of cobble and gravel. Walnut Creek has an average



width at the OHWM of 8 feet within the SITE. Walnut Creek appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.5 ST-2-PER — (75-linear feet, Perennial stream)

ST-2-PER is located north of Structure 2 and consisted of 75 linear feet of perennial stream within the SITE. The substrate of ST-2-PER consisted of silt. ST-2-PER has an average width at the OHWM of 1 foot within the SITE. ST-2-PER appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.6 ST-68-INT — (370-linear feet, Intermittent stream)

ST-68-INT is located northeast of Structure 68 and consisted of 370 linear feet of intermittent stream within the SITE. The substrate of ST-68-INT consisted of silt and clay. ST-68-INT has an average width at the OHWM of 2 feet within the SITE. ST-68-INT appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.7 ST-63-EPH— (150-linear feet, Ephemeral stream)

ST-63-EPH is located northeast of Structure 63 and consisted of 150 linear feet of ephemeral stream within the SITE. ST-63-EPH emerges from a tile drain, flows southeastward and discharges into a second tile drain. The substrate of ST-63-EPH consisted of silt. ST-63-EPH has an average width at the OHWM of 1 foot within the SITE. ST-63-EPH did not appear to be a relatively permanent water and will likely not qualify as federally jurisdictional "Waters of the U.S."

4.5.8 ST-55-INT – (145-linear feet, Intermittent stream)

ST-55-INT is located southwest of Structure 55 and consisted of 145 linear feet of ST-55-INT stream within the SITE. The substrate of ST-55-INT consisted of sand and clay. ST-55-INT has an average width at the OHWM of 3 feet within the SITE. ST-55-INT appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.9 ST-53-INT — (170-linear feet, Intermittent stream)

ST-53-INT is located east of Structure 53 and consisted of 170 linear feet of intermittent stream within the SITE. The substrate of ST-53-INT consisted of cobble, gravel, and sand. ST-53-INT has an average width at the OHWM of 3 feet within the SITE. ST-53-INT appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.10 ST-48-EPH – (115-linear feet, Ephemeral stream)

ST-48-EPH is located south of Structure 49 and consisted of 115 linear feet of ephemeral stream within the SITE. The substrate of ST-48-EPH consisted of clay and silt. ST-48-EPH has an average width at the OHWM of 5 feet within the SITE. ST-48-EPH did not appear to be a relatively permanent water and will likely not qualify as federally jurisdictional "Waters of the U.S."

4.5.11 ST-44-INT — (80-linear feet, Intermittent stream)

ST-44-INT is located northwest of Structure 44 and consisted of 80 linear feet of intermittent stream within the SITE. The substrate of ST-44-INT consisted of cobble and gravel. ST-44-INT has an average width at the OHWM of 4 feet within the SITE. ST-44-INT appears to be a relatively permanent waterand will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.12 ST-44-EPH – (175-linear feet, Ephemeral stream)

ST-44-EPH is located southwest of Structure 42 and consisted of 175 linear feet of ephemeral stream within the SITE. The substrate of ST-44-EPH consisted of silt. ST-44-EPH has an average width at the



OHWM of 1 foot within the SITE. ST-44-EPH appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.13 ST-42-INT – (240-linear feet, Intermittent stream)

ST-42-INT is located southwest of Structure 42 and consisted of 240 linear feet of intermittent stream within the SITE. The substrate of ST-44-EPH consisted of gravel, sand, and silt. ST-44-EPH has an average width at the OHWM of 4 feet within the SITE. ST-44-EPH appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.14 Hocking River – (330-linear feet, Perennial stream)

Hocking River is located southeast of Structure 19 and consisted of 300 linear feet of Hocking River stream within the SITE. The substrate of Hocking River consisted of cobble, sand, and silt. Hocking River has an average width at the OHWM of 40 feet within the SITE. Hocking River appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S." Additionally, Hocking River is designated by the U.S. Army Corps of Engineers (USACE) as a Section 10 Navigable Waterway 79 miles upstream of the confluence of the Ohio River.

4.5.15 ST-14-PER — (70-linear feet, Perennial stream)

ST-14-PER is located north of Structure 15 and consisted of 70 linear feet of perennial stream within the SITE. The substrate of ST-14-PER consisted of cobble, gravel, and sand. ST-14-PER has an average width at the OHWM of 8 feet within the SITE. ST-14-PER appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.16 ST-11-INT – (110-linear feet, Intermittent stream)

ST-11-INT is located northeast of Structure 11 and consisted of 110 linear feet of intermittent stream within the SITE. The substrate of ST-11-INT consisted of clay and silt. ST-11-INT has an average width at the OHWM of 25 feet within the SITE. ST-11-INT appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

4.5.17 Hunters Run – (200-linear feet, Perennial stream)

Hunters Run is located north of Structure 1 and West Lancaster Station. It consisted of 300 linear feet of perennial stream within the SITE. The substrate of Hunters Run consisted of cobble, gravel, and sand. Hunters Run has an average width at the OHWM of 11 feet within the SITE. Hunters Run appears to be a relatively permanent water and will likely qualify as federally jurisdictional "Waters of the U.S.".

$4.5.18 \ OW-32-POND - (\pm 0.50-acre, Pond)$

OW-32-POND is located south of Structure 32 of the SITE. OW-32-POND appears to be a manmade feature.

$4.5.19 \ OW-22-POND - (\pm 0.56-acre, Pond)$

OW-22-POND is located north of Structure 22 of the SITE. OW-22-POND appears to be a manmade feature.



CHAPTER 5 CONCLUSIONS

On March 27 and 28, 2024, V3 performed a wetland delineation of the SITE beginning at West Millersport Station, southwest of OH-204 and OH-37, Millersport, OH, and extends approximately 4.6 mile southwest to South Baltimore Station and continues approximately 9.8 miles southwest to West Lancaster Station, northeast of US Highway 22 and OH-57 in Fairfield County, Ohio.

Table 5-1: Aquatic Features Identified On-SITE

Feature	Feature Type	Size On- SITE	Delineation Figure Sheet	
WL-12-PEM	Emergent Wetland	0.06 ac	10	
WL-10-PEM	Emergent Wetland	0.17 ac	11	
WL-5-PEM	Emergent Wetland	0.11 ac	13	
WL-68-PEM	Emergent Wetland	0.10 ac	15	
WL-60-PEM	Emergent Wetland	1.91 ac	18	
WL-50-PEM	Emergent Wetland	0.03 ac	22	
WL-41-PEM	Emergent Wetland	0.40 ac	26	
ST-31-PER	Perennial stream	200 lf	2	
ST-25-PER	Perennial stream	115 lf	4	
ST-15-PER	Perennial stream	140 lf	8	
Walnut Creek	Perennial stream	130 lf	13	
ST-2-PER	Perennial stream	75 lf	14	
ST-68-INT	Intermittent stream	370 lf	15	
ST-63-EPH	Ephemeral stream	150 lf	17	
ST-55-INT	Intermittent stream	145 lf	20	
ST-53-INT	Intermittent stream	170 lf	20	
ST-48-EPH	Ephemeral stream	115 lf	22	
ST-44-INT	Intermittent stream	80 lf	24	
ST-44-EPH	Ephemeral stream	175 lf	25	
ST-42-INT	Intermittent stream	240 lf	25 & 26	
Hocking River	Perennial stream	330 lf	36	
ST-14-PER	Perennial stream	70 lf	37	
ST-11-INT	Intermittent stream	110 lf	38	
Hunters Run	Perennial stream	200 lf	42	
OW-32-POND	Pond	0.50 ac	30	
OW-22-POND	Pond	0.56 ac	34	

- Seventeen streams were identified on-SITE. All streams, except ST-63-EPH and ST-48-EPH, appear to be relatively permanent waters that will likely qualify as federally jurisdictional "Waters of the U.S.".
- Eight wetlands were identified on-SITE. Wetlands WL-68-PEM, WL-41-PEM and WL-18-PEM appear to have a connection to relatively permanent waters, therefore, will likely qualify as a "Waters of the U.S.". All the other wetlands did not appear to have direct connection to relatively permanent waters and are likely to be considered isolated.

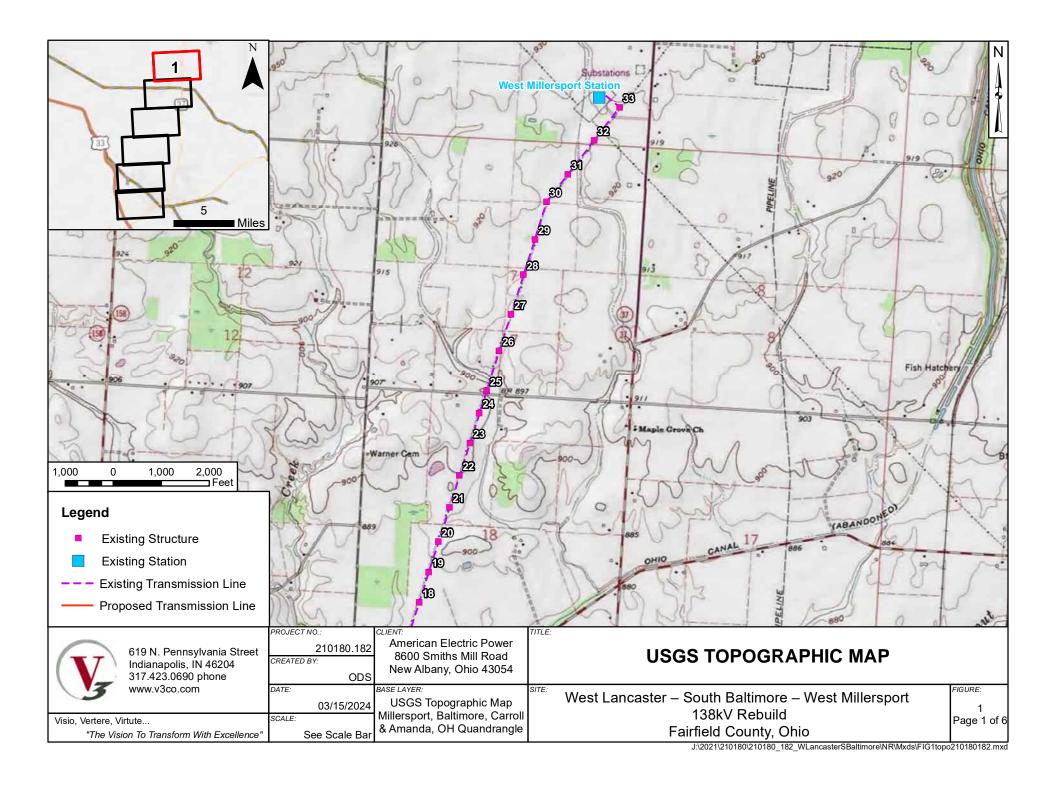


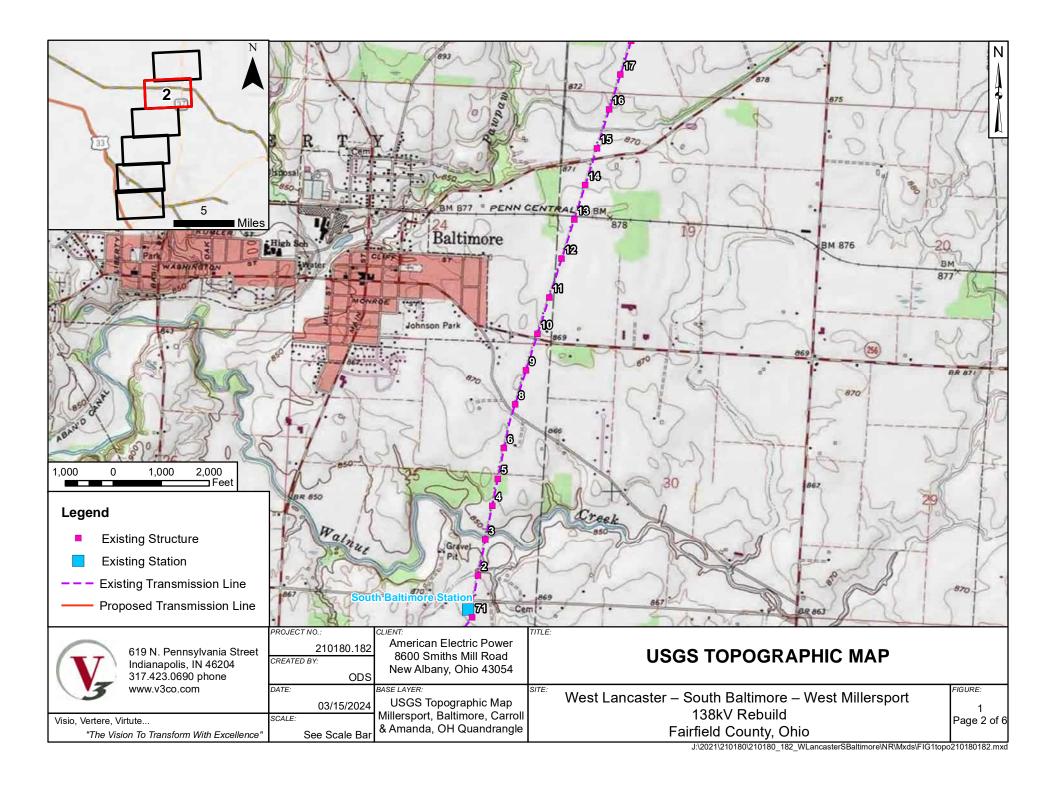
- Two stormwater ponds were identified on-SITE. One stormwater pond was identified within an inaccessible residential area. The ponds appear to be isolated man-made features.
- An official species list obtained from the USFWS IPaC website indicated that the SITE is within the ranges of the federally endangered Indiana bat, northern long-eared bat, the proposed endangered tricolored bat, the federally threatened eastern massasuaga, and round hickorynut, the proposed endangered salamander Mussel and the candidate for listing monarch butterfly. The USFWS made recommendations to avoid impacts to on-SITE streams and wetlands, and to avoid clearing potential roost trees for the federally listed bat species outside the recommended seasonal clearing dates, 1 October to 31 March. The USFWS stated the due to the project, type, size, and location, the agency does not anticipate adverse effects to any other federally endangered, threatened, or proposed species or proposed or designated critical habitat.
- Correspondence with the ODNR indicated records of the state species of special concern cerulean warbler (Setophaga cerulea) and kidneyshell (Ptychobranchus fasciolaris), a Great blue Heron rookery, Appalachian oak forest plant community, and oak-maple forest plant community within a one-mile radius of the SITE. Potentially suitable habitat for the kidneyshell was observed within the SITE. The documented plant communities are anticipated to occur within forested areas adjacent to the SITE Additionally, the ODNR Division of Fish and Wildlife stated that the SITE is within the range of seven ETR species. The ODNR stated that the project is not likely to impact these species if habitat is not impacted and gave recommendations to avoid and minimize impacts to these species and their habitats.

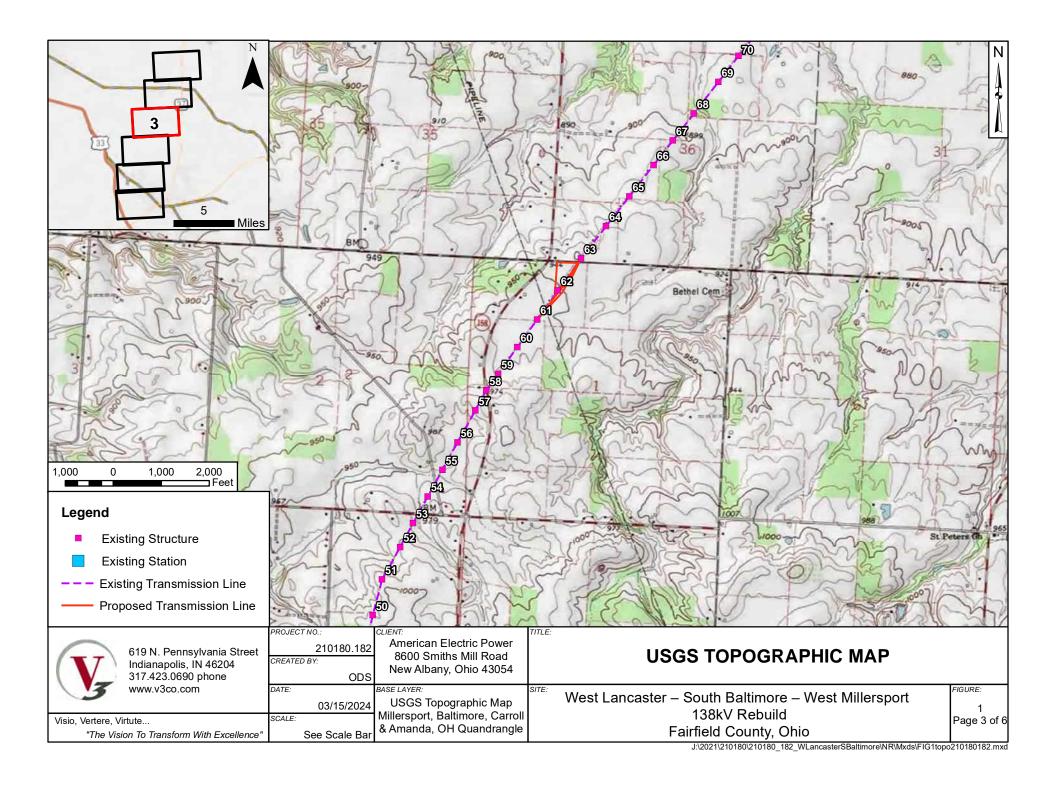


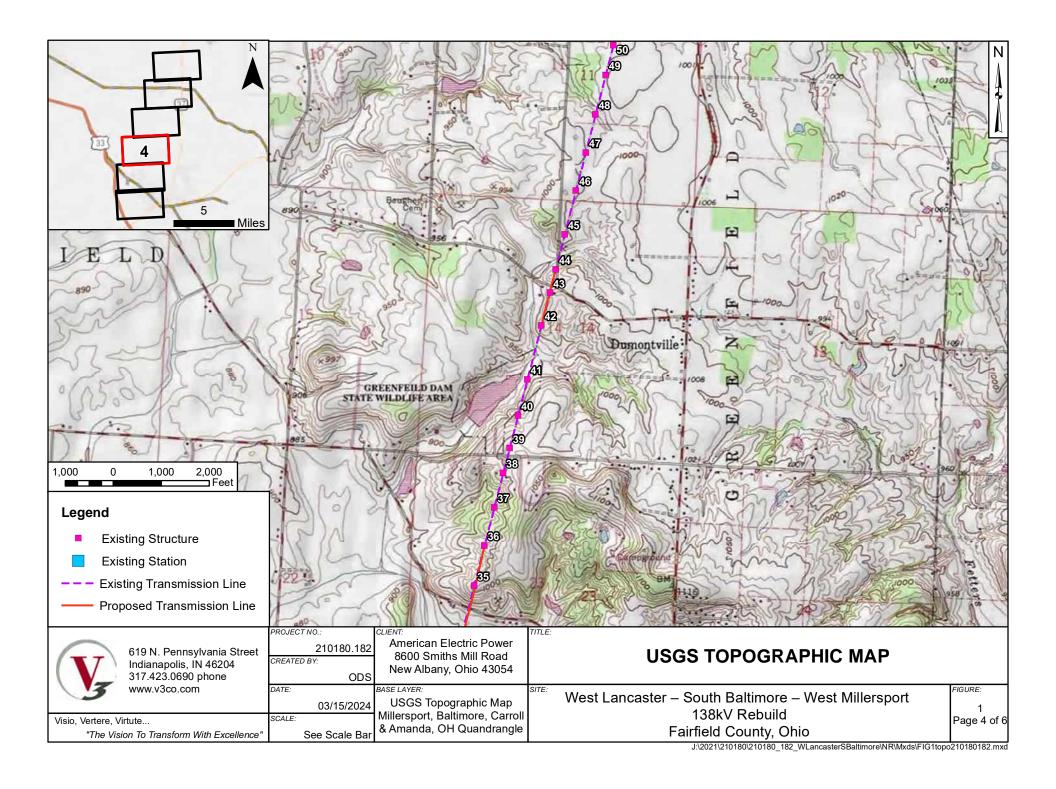
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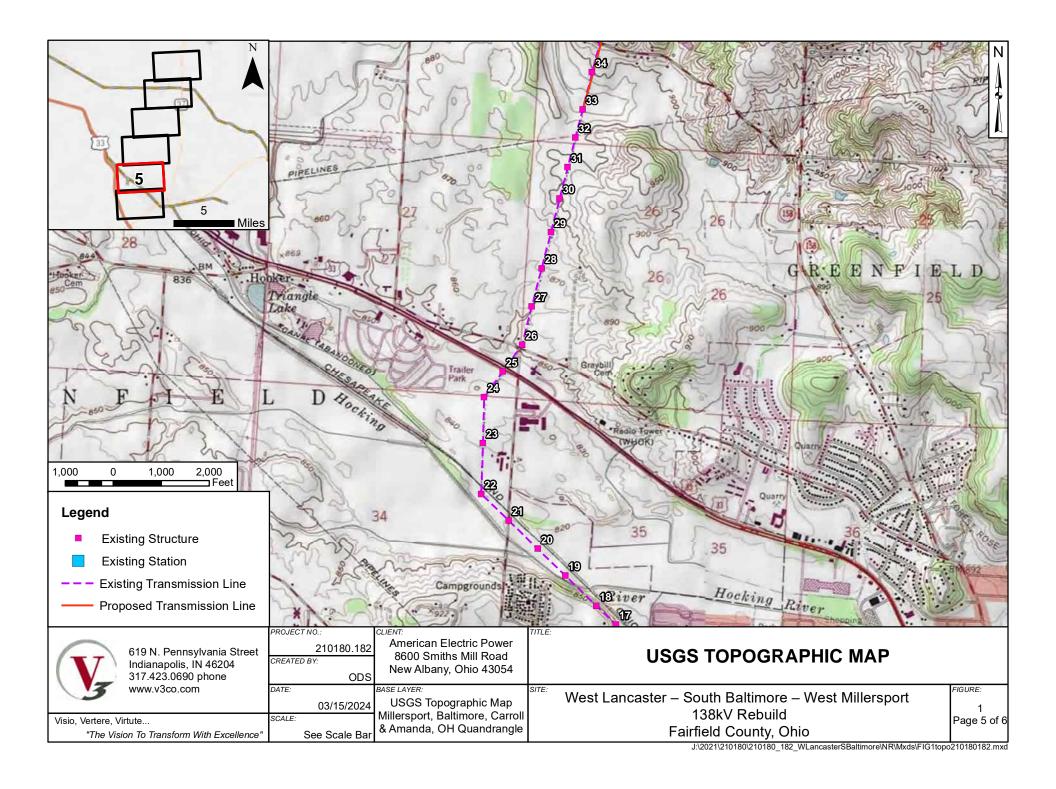


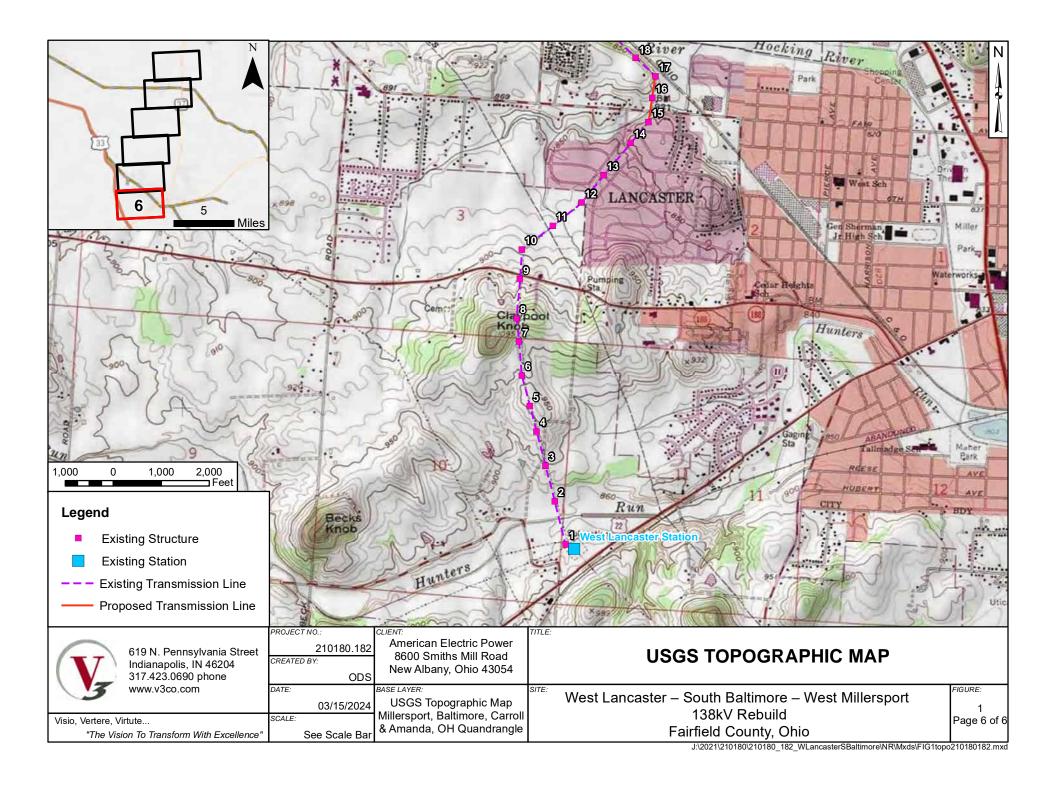


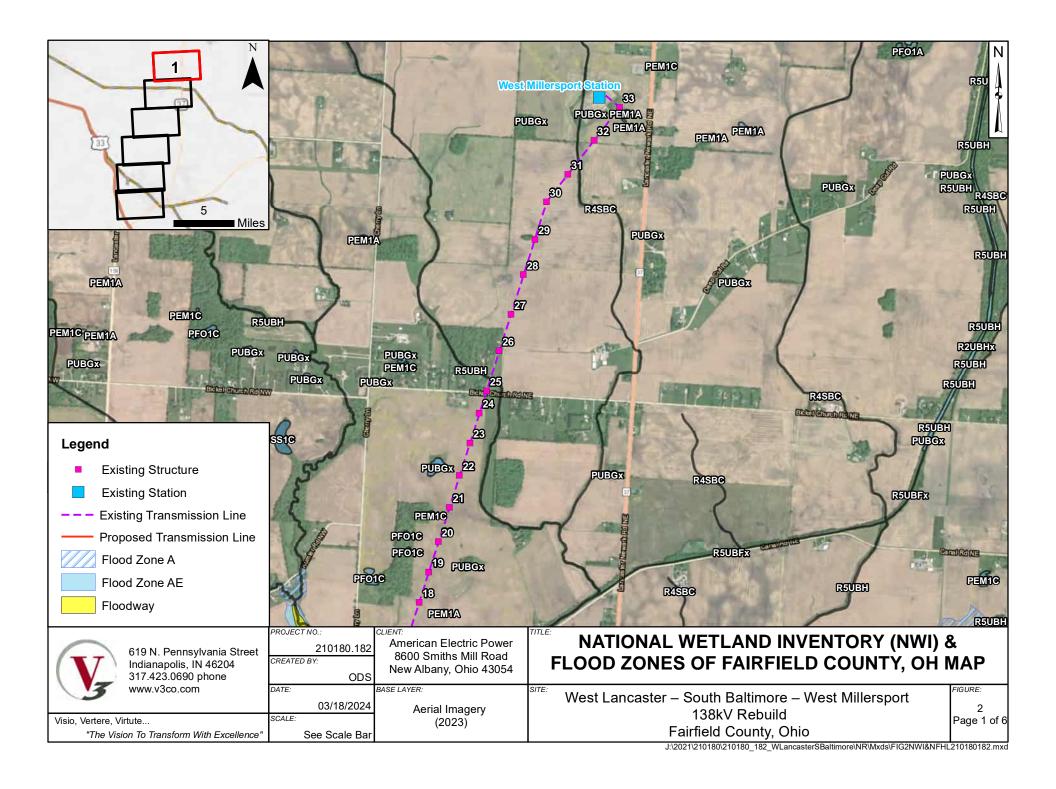


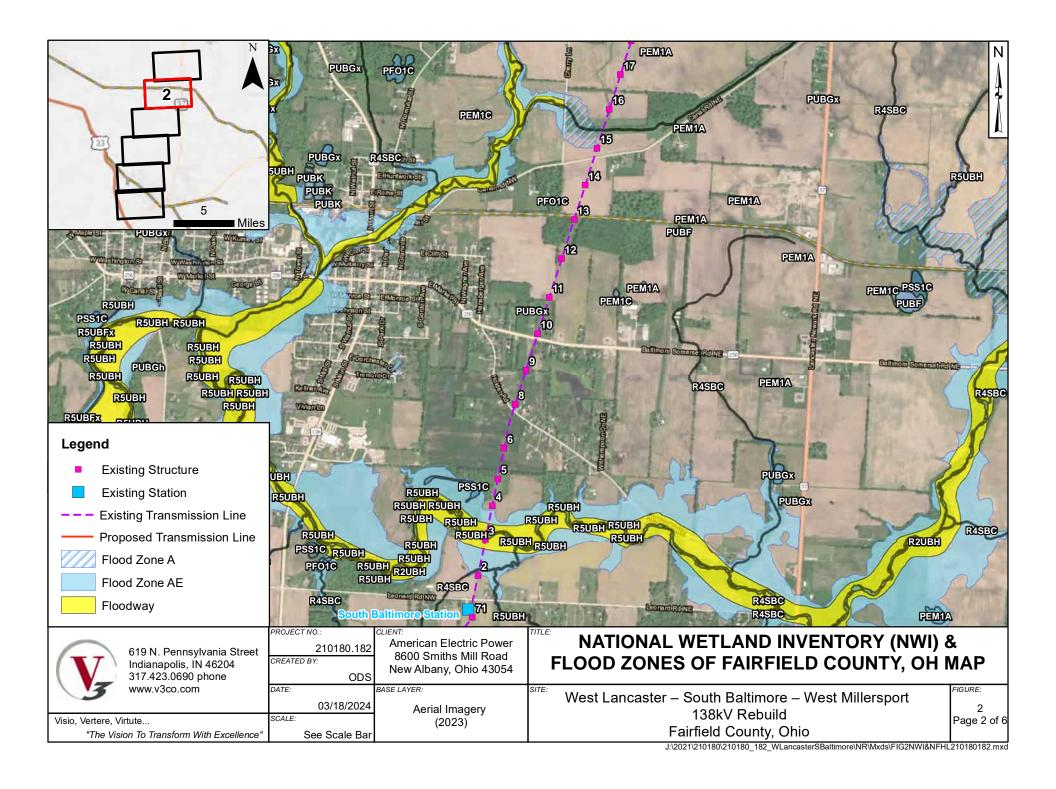


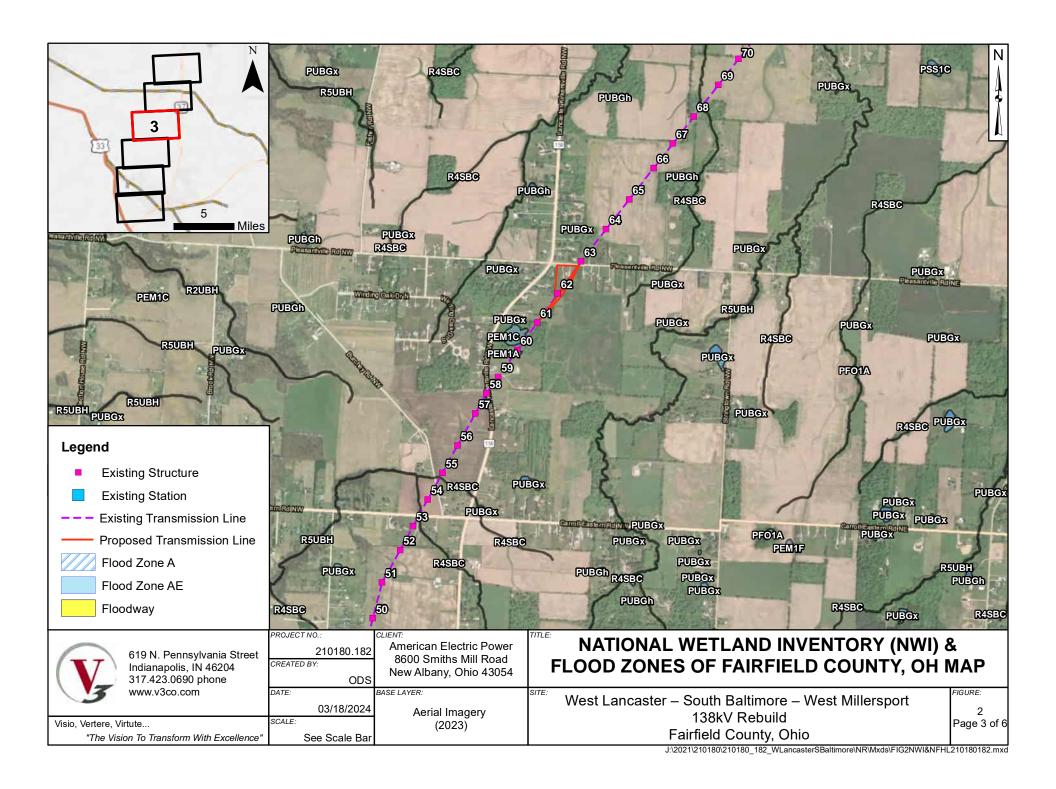


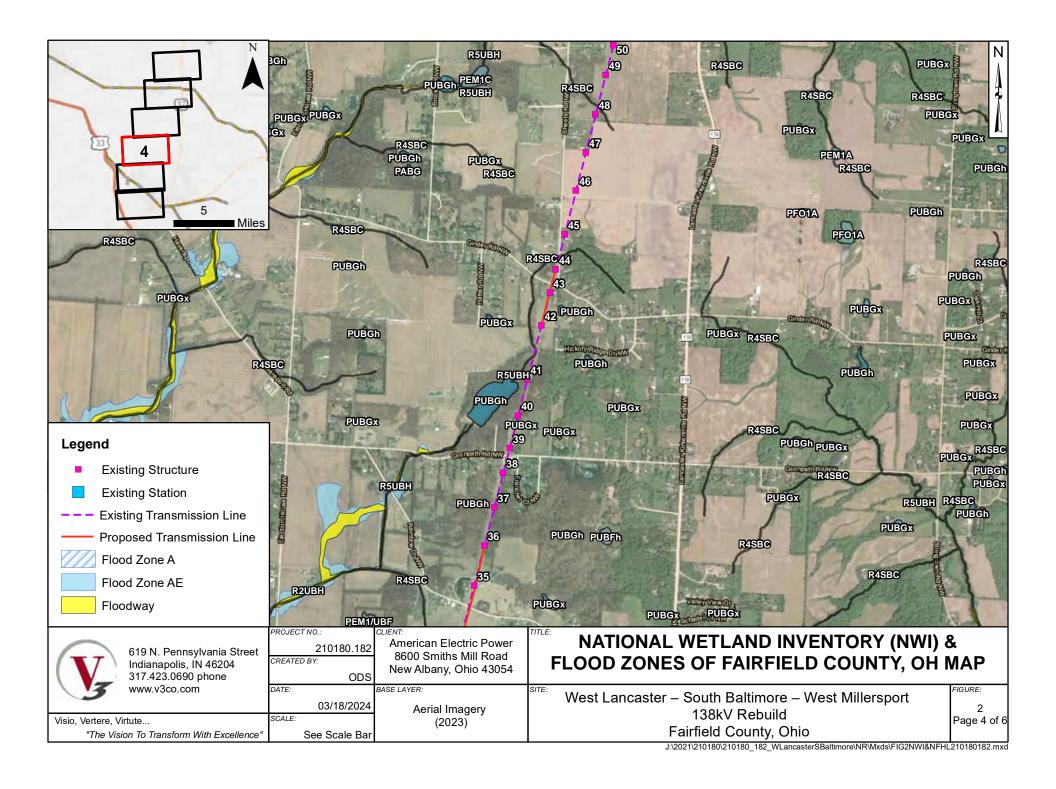


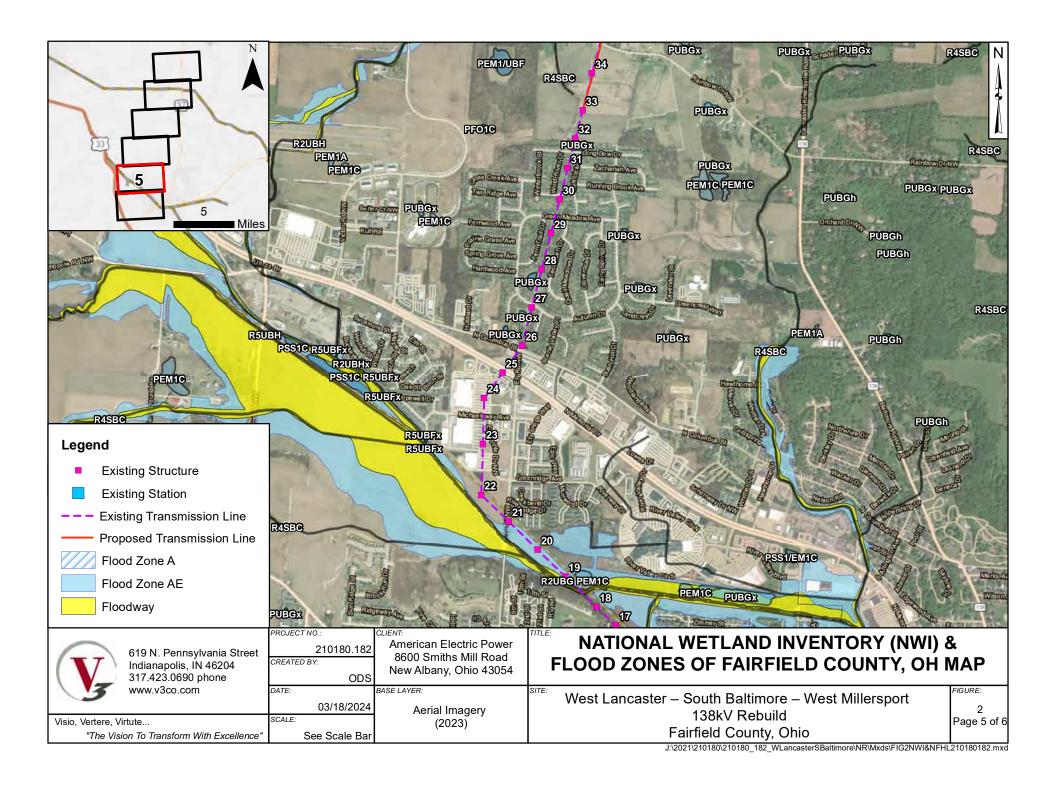


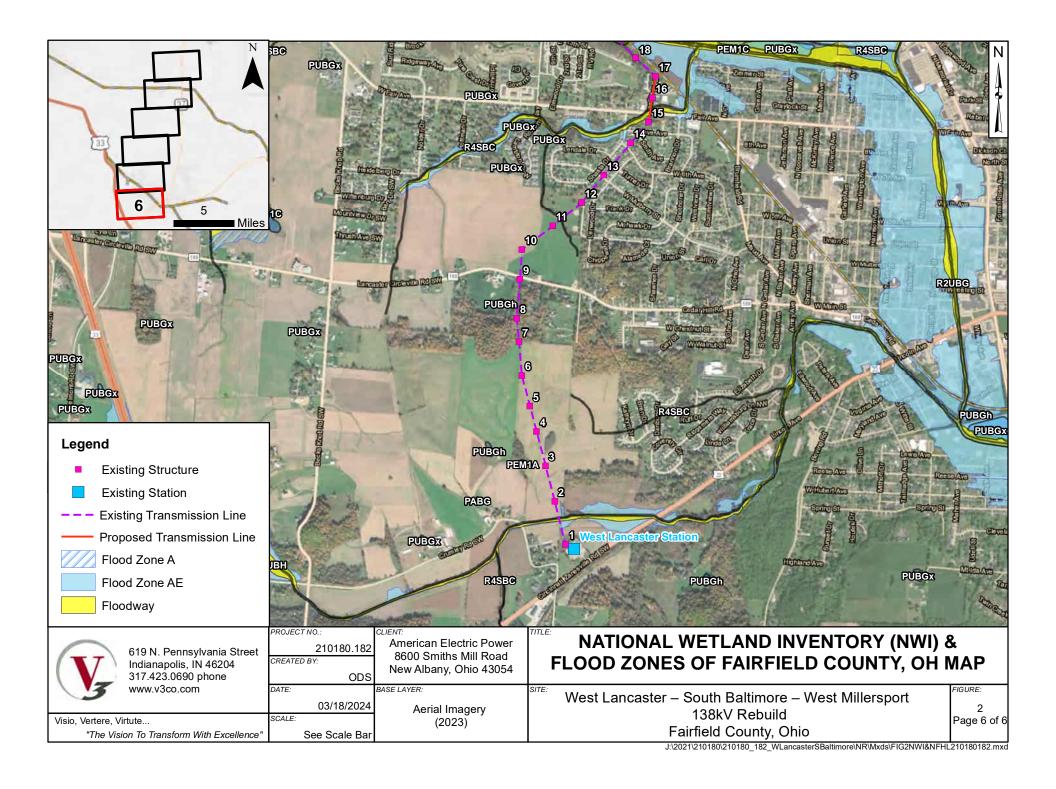


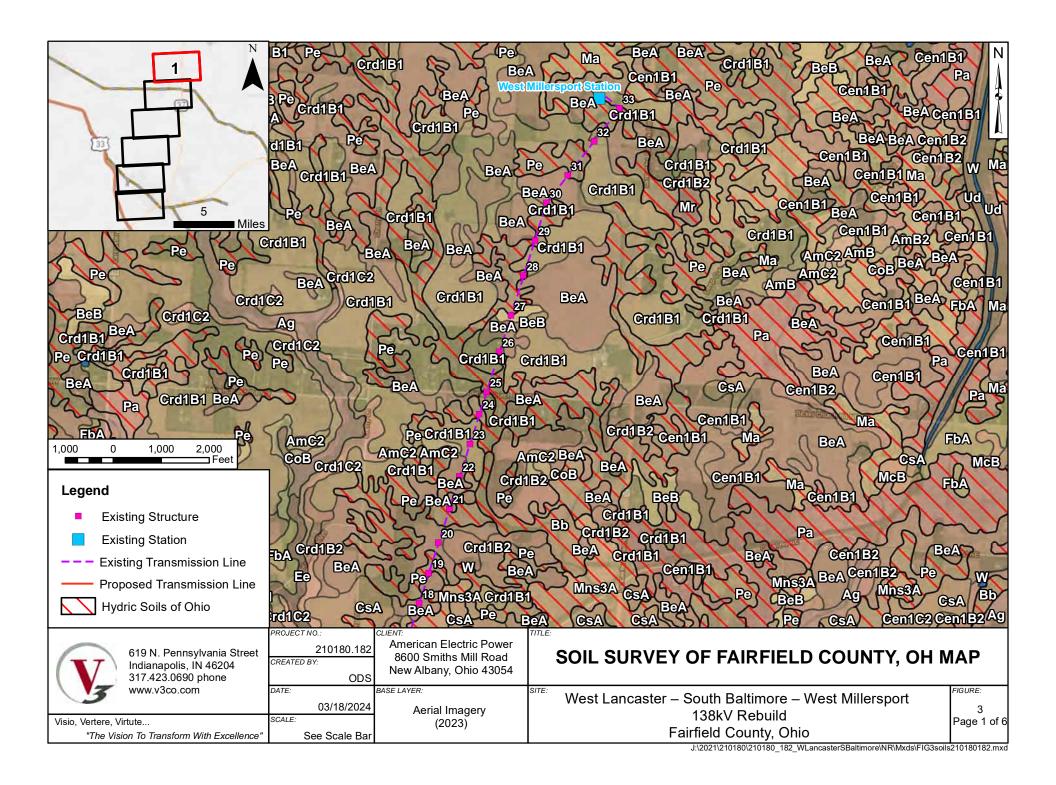


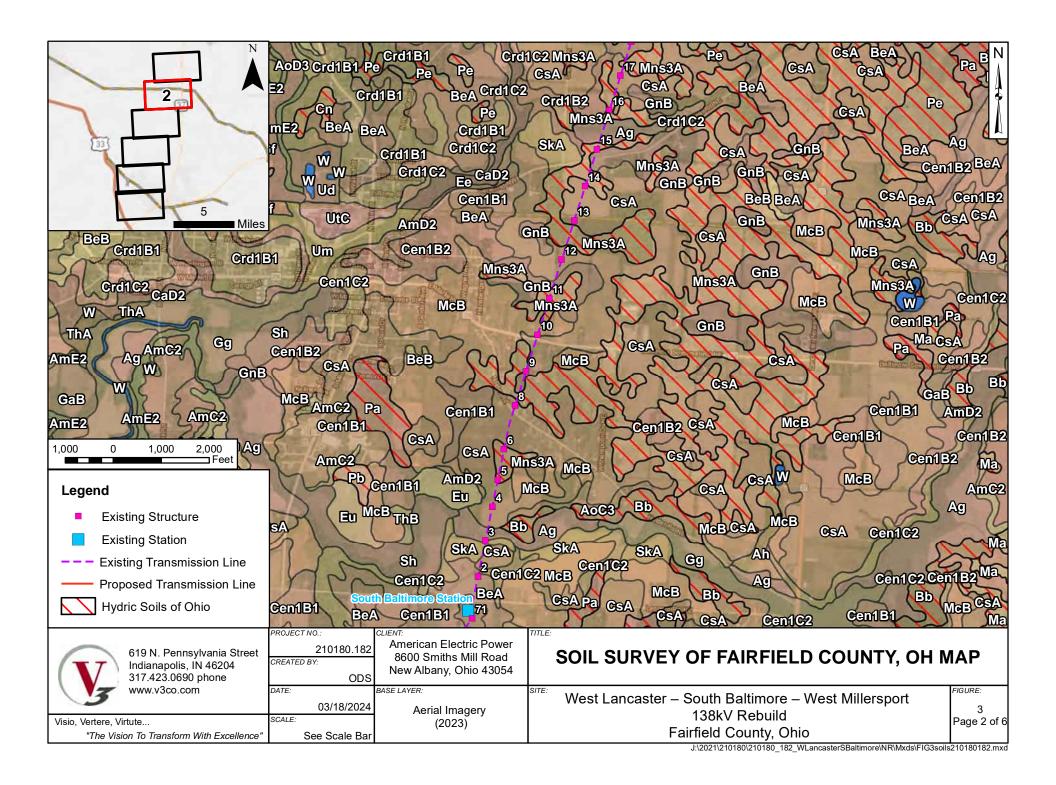


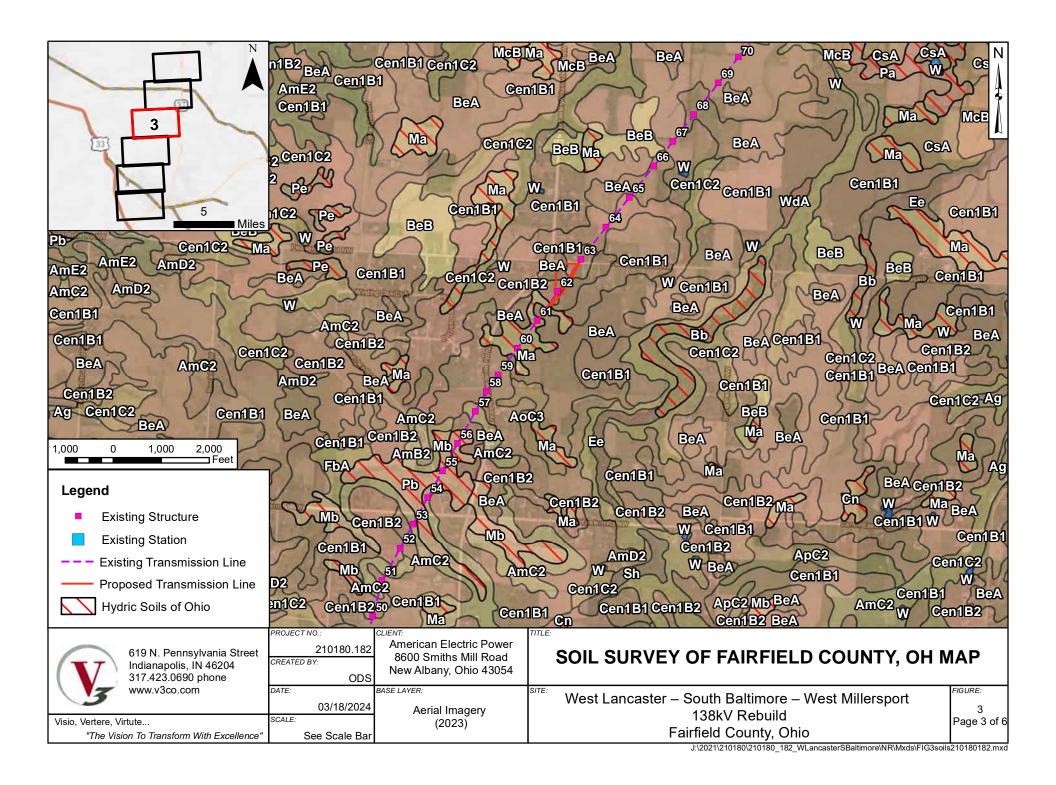


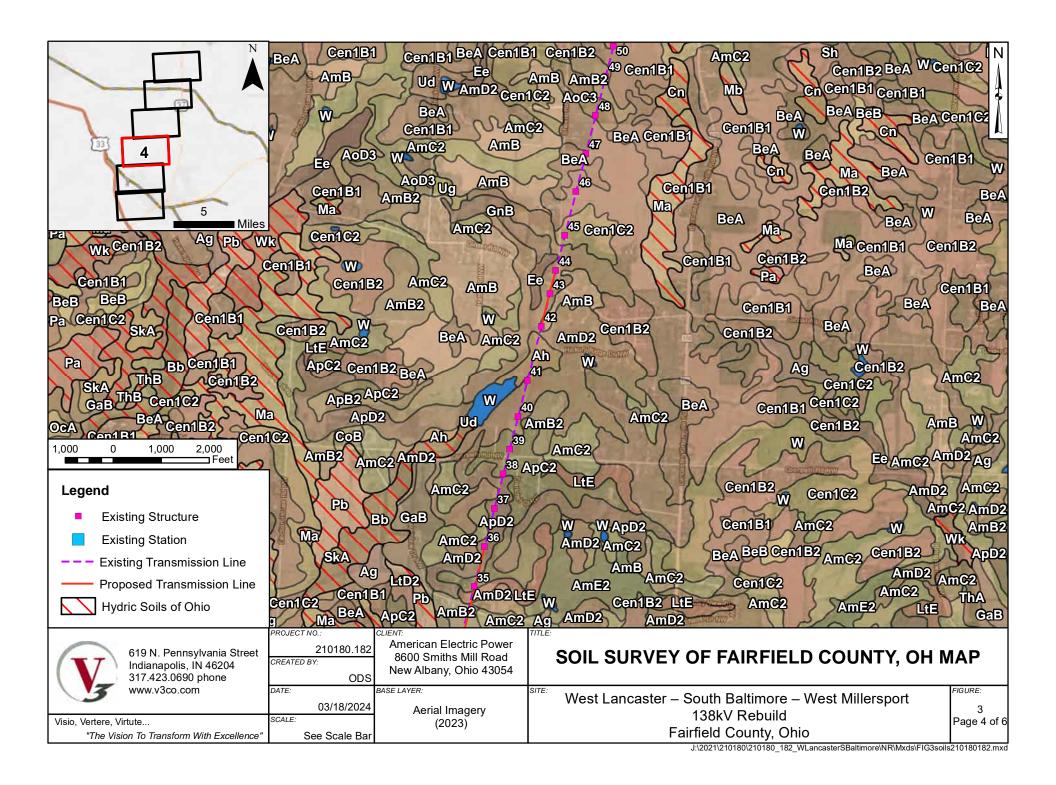


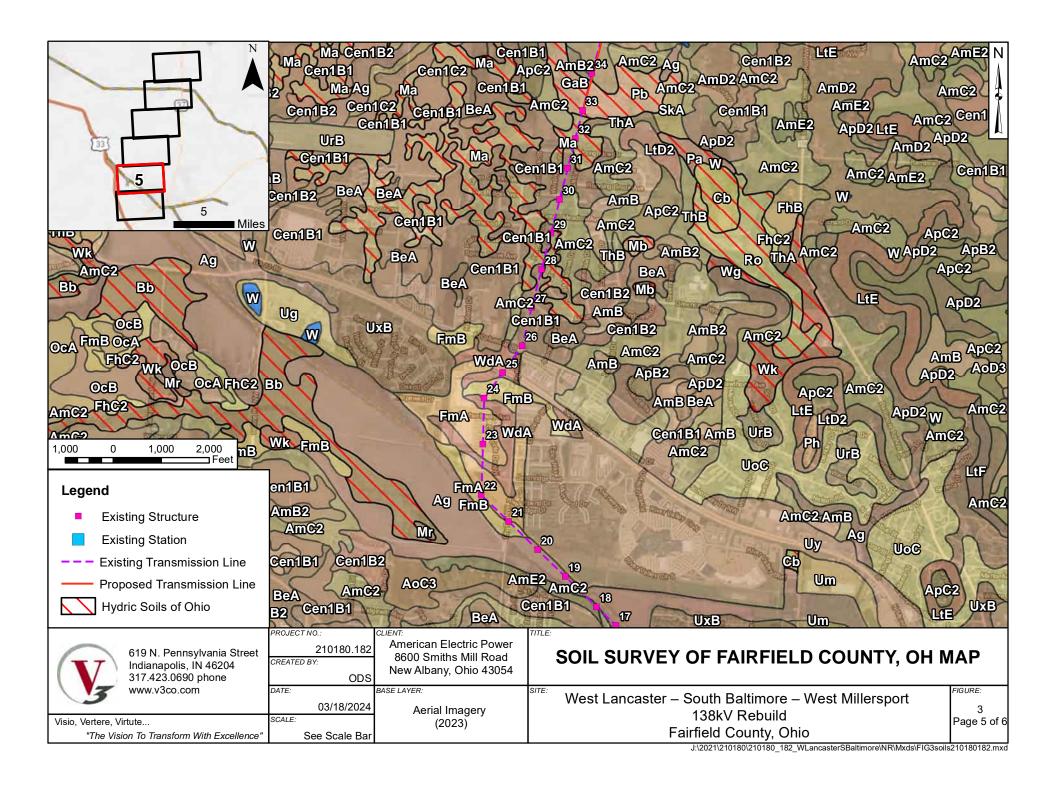


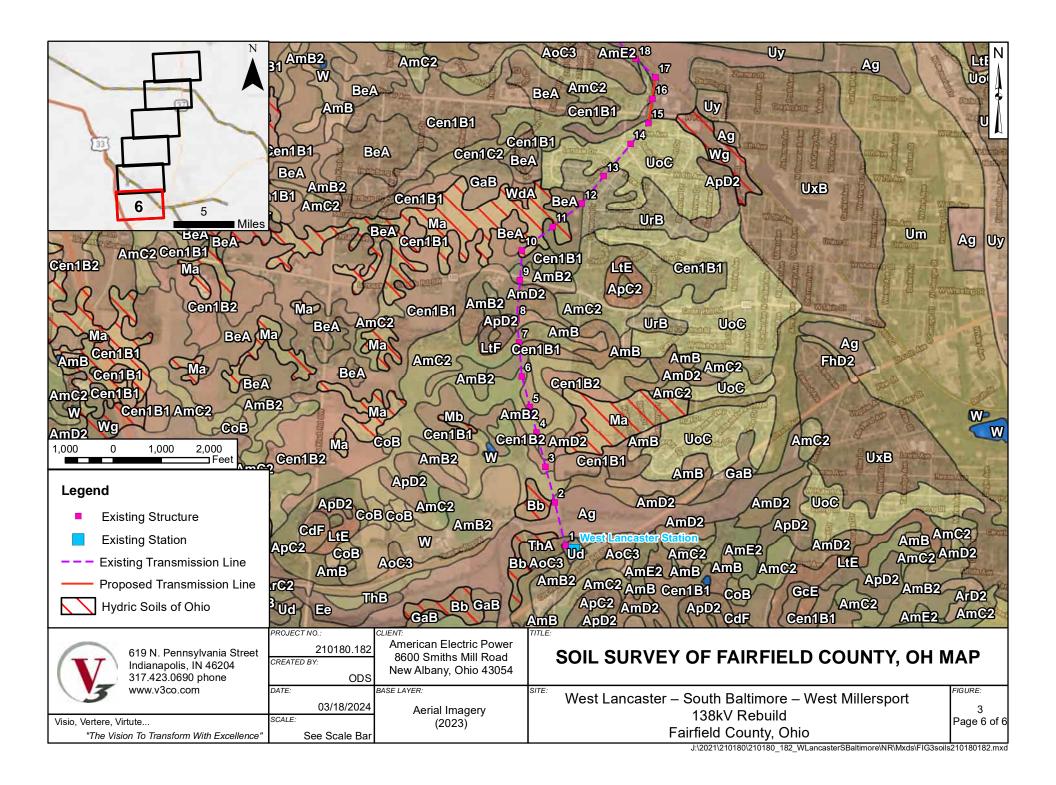


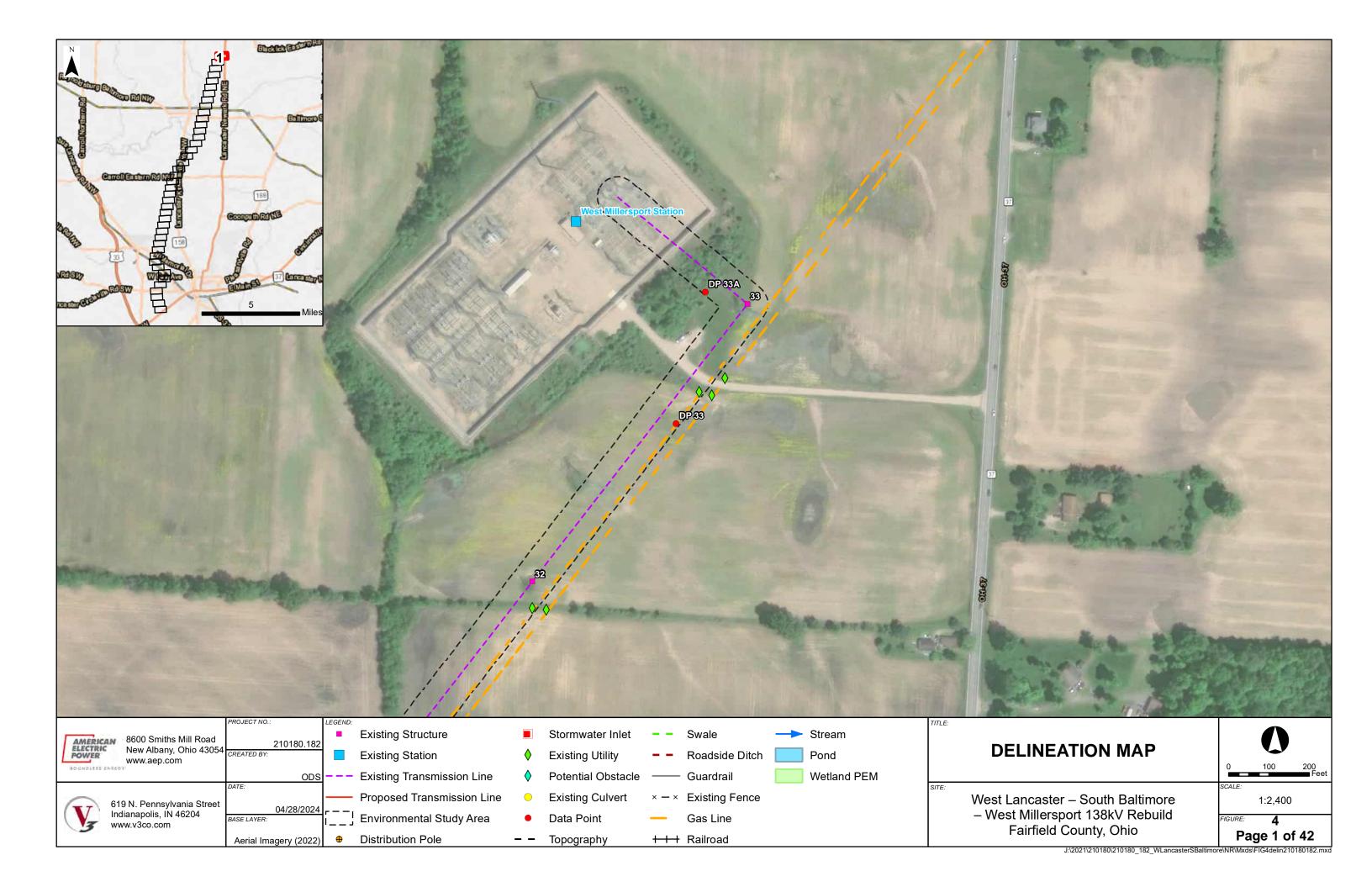


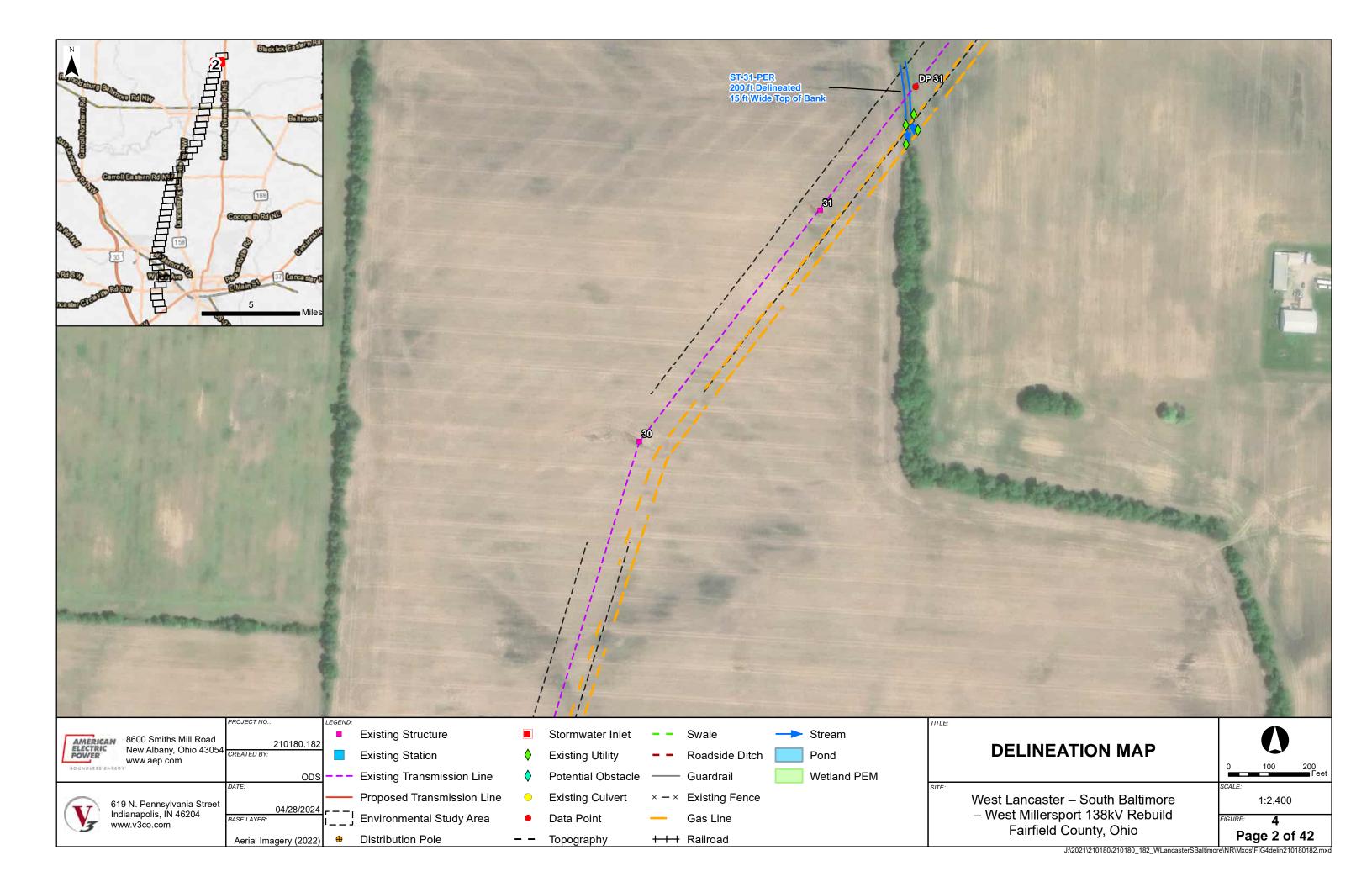


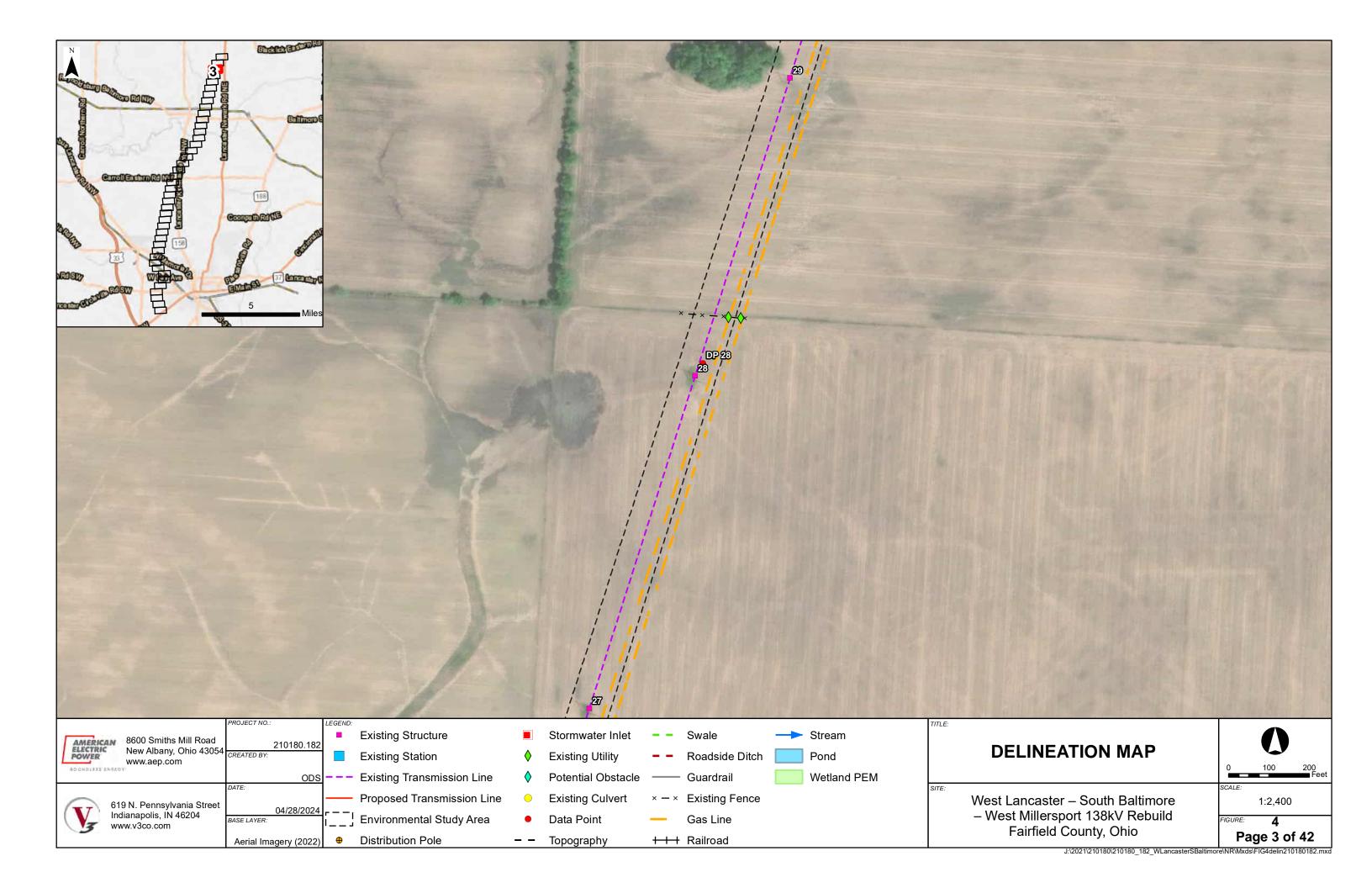


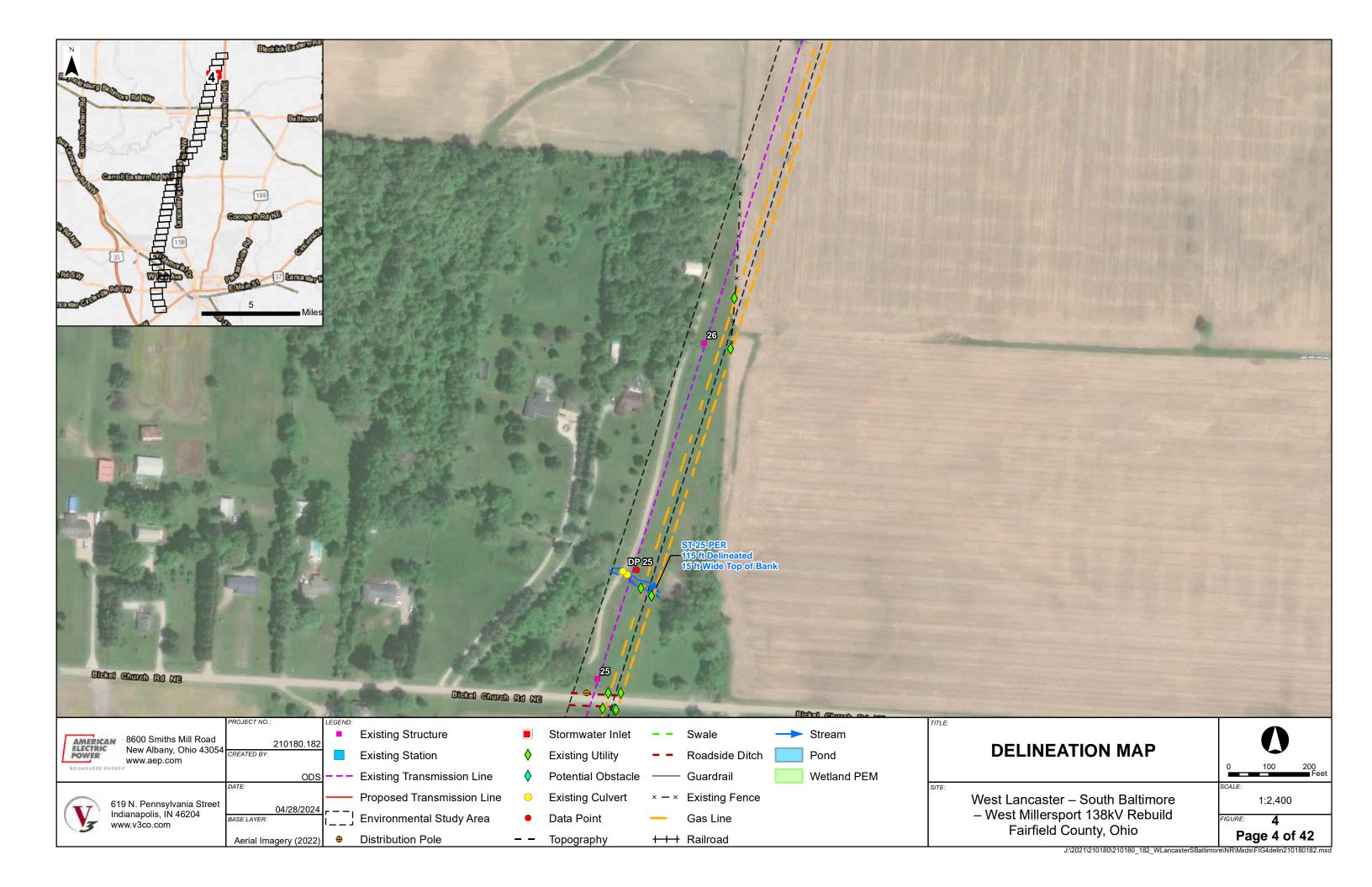


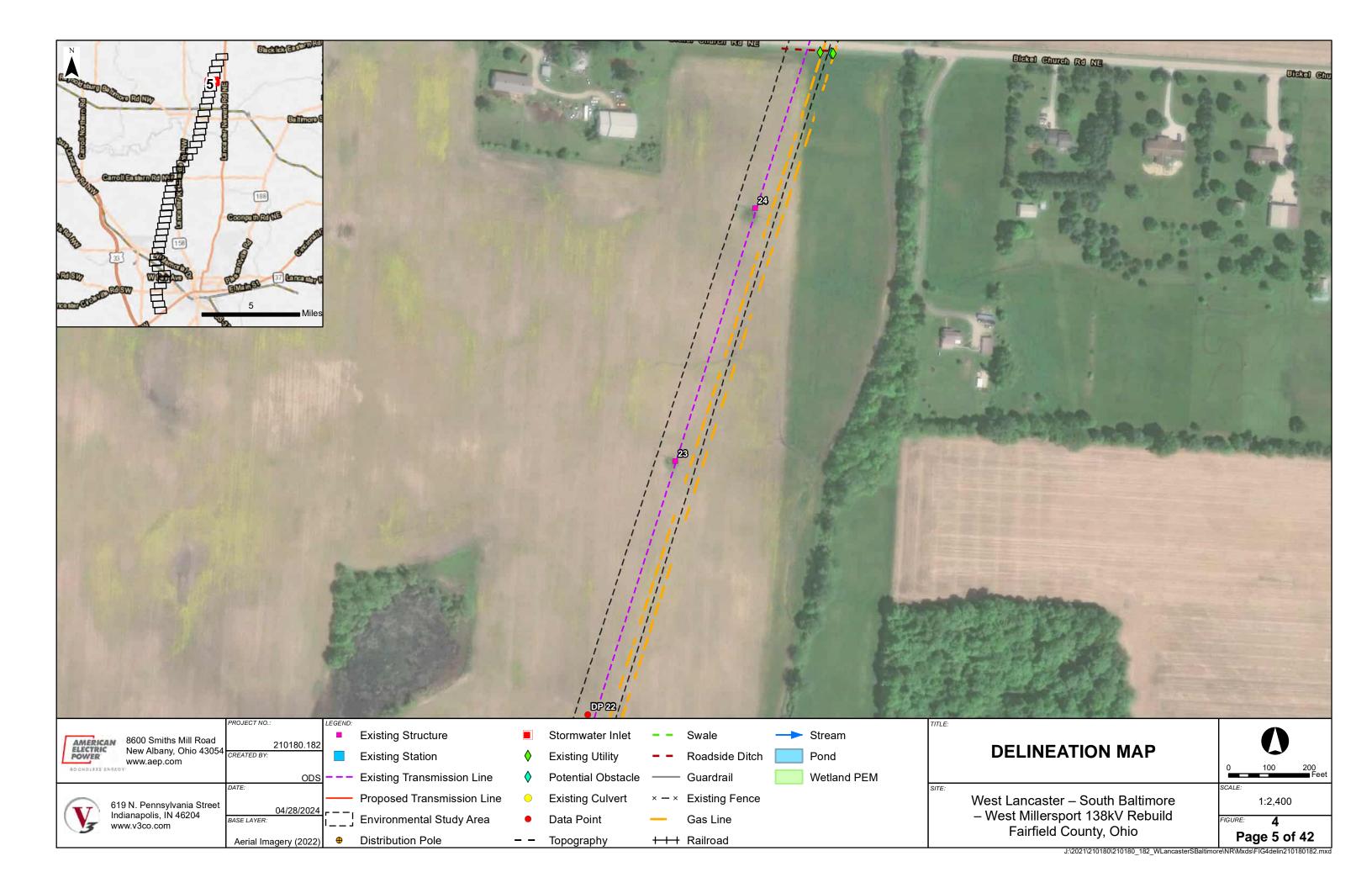


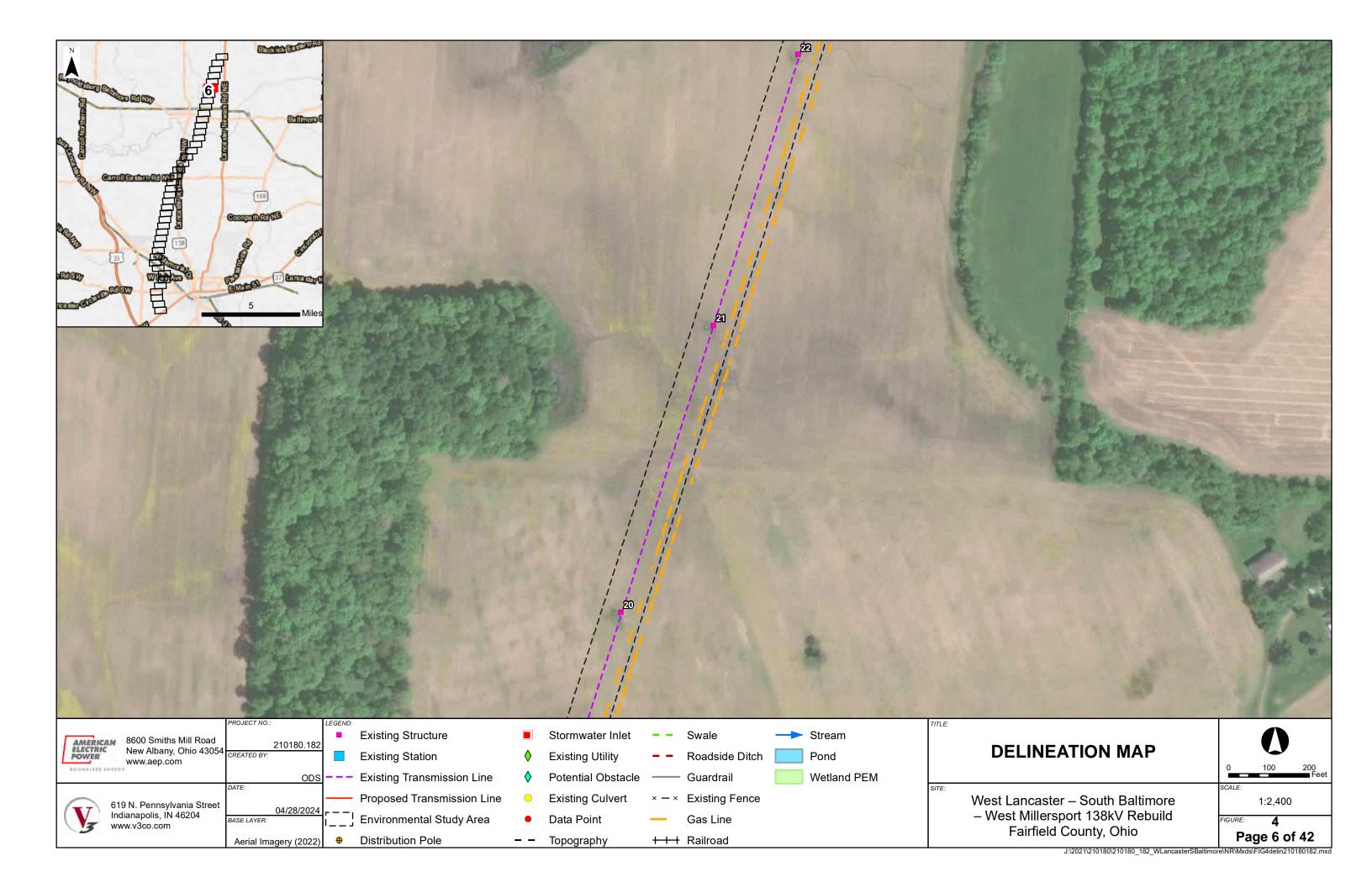


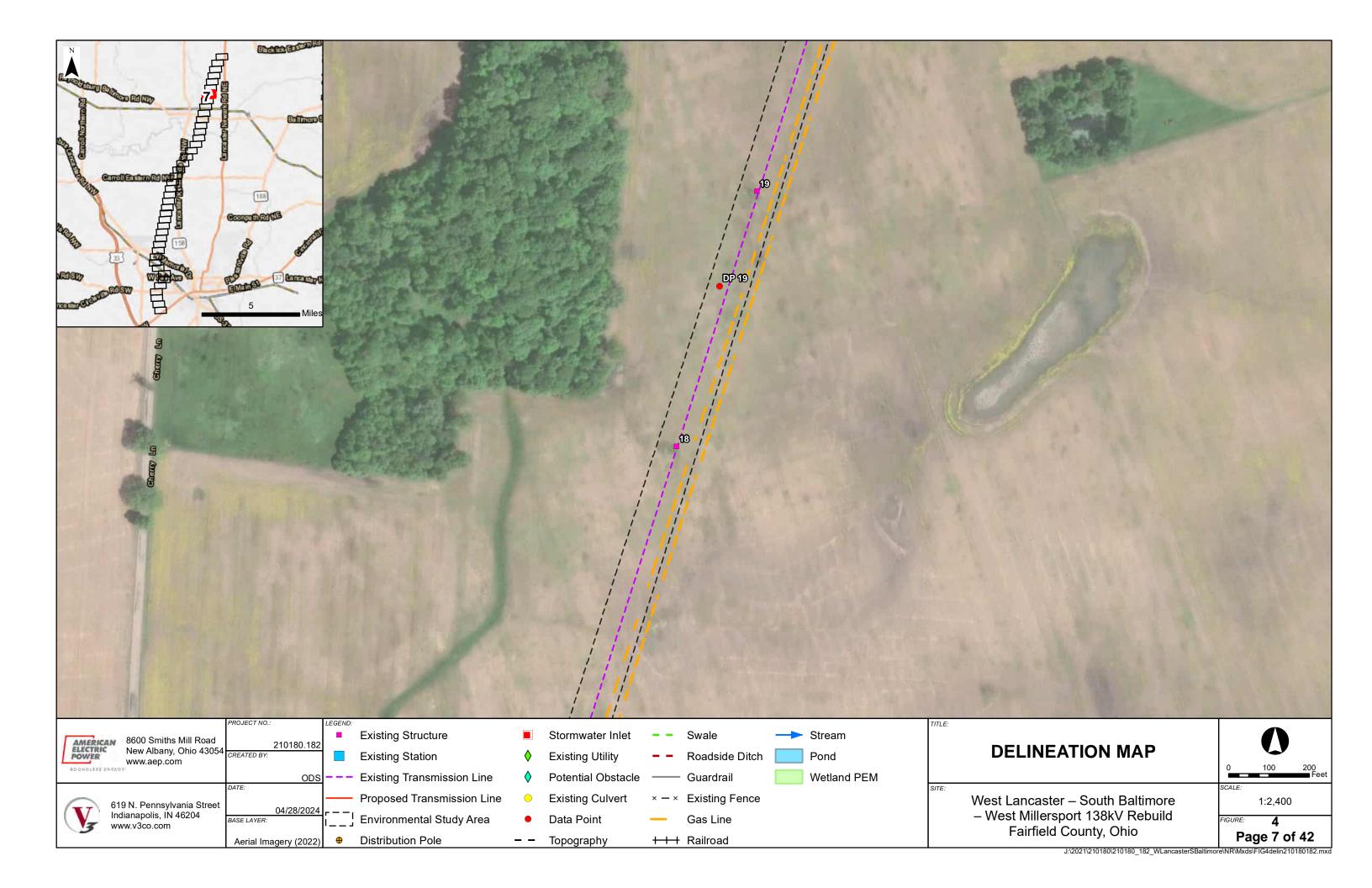


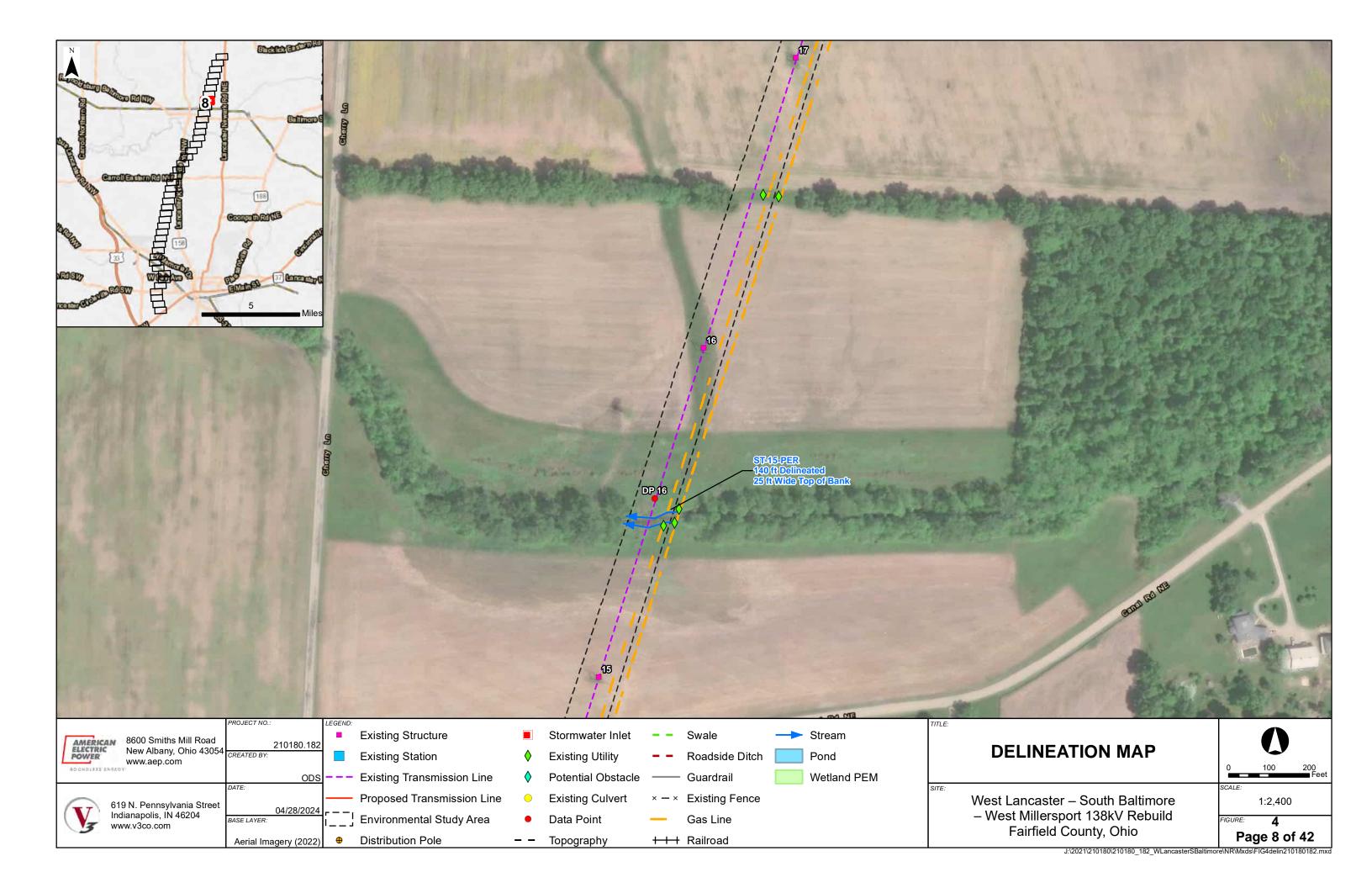


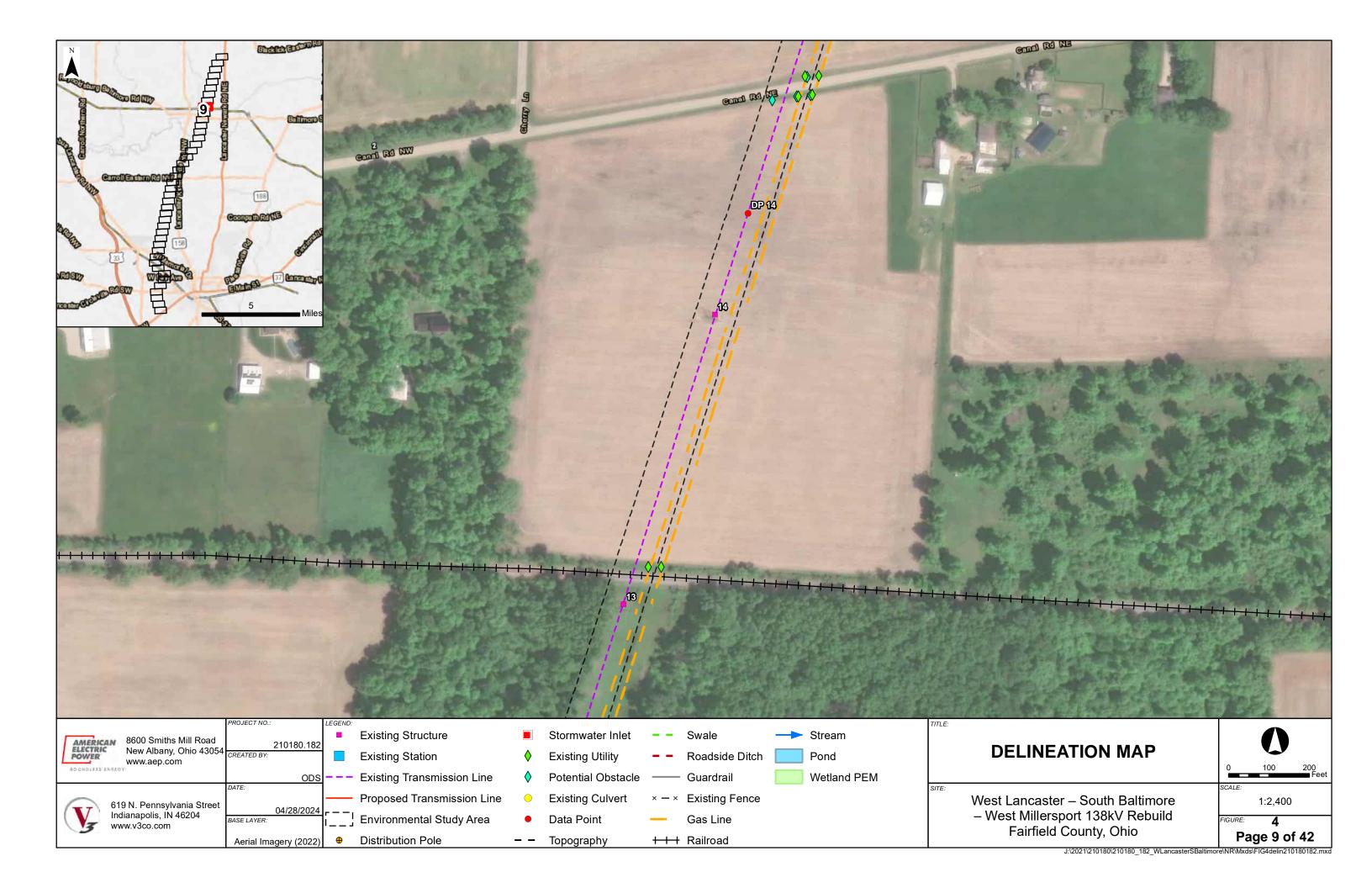


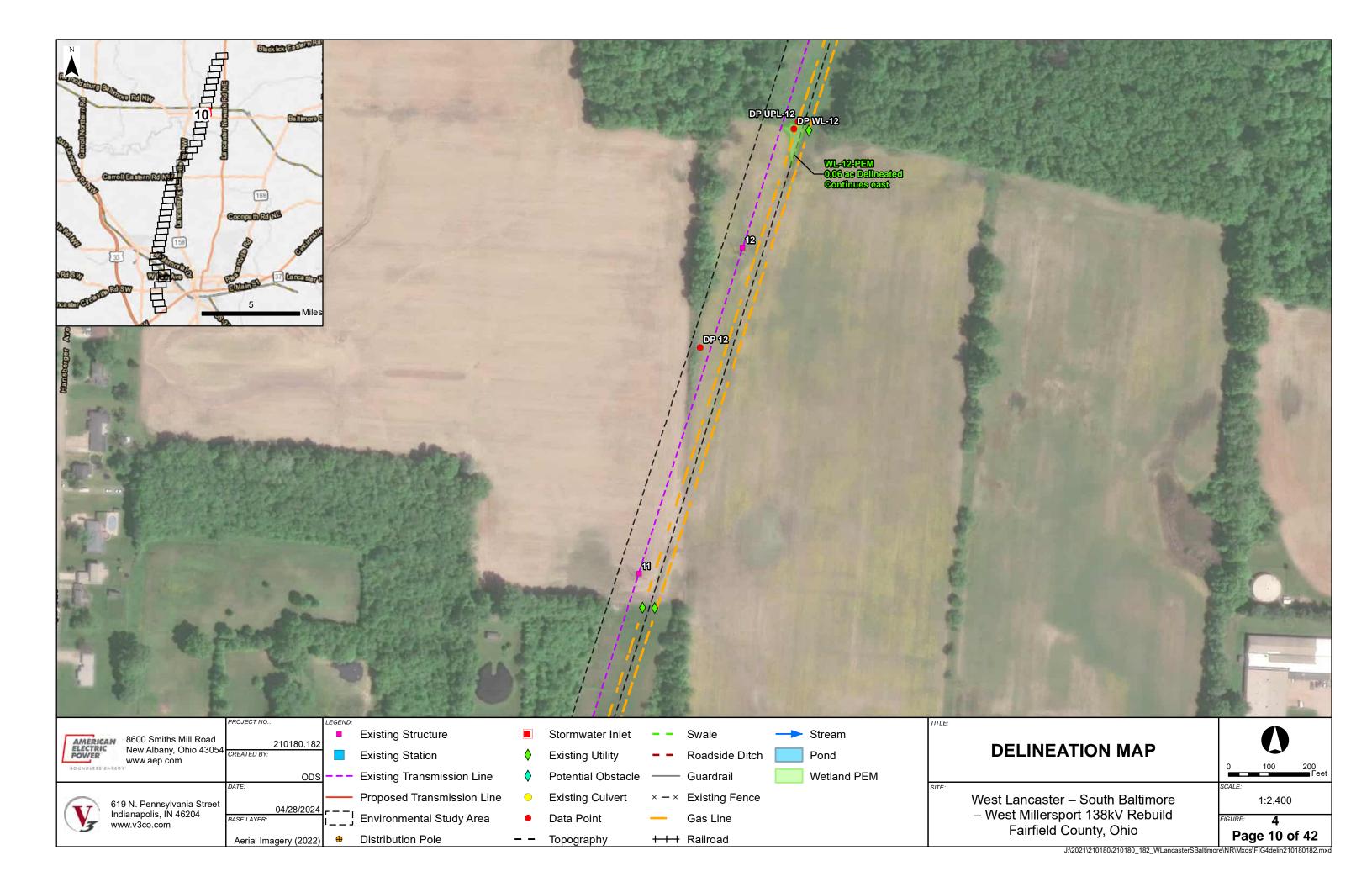


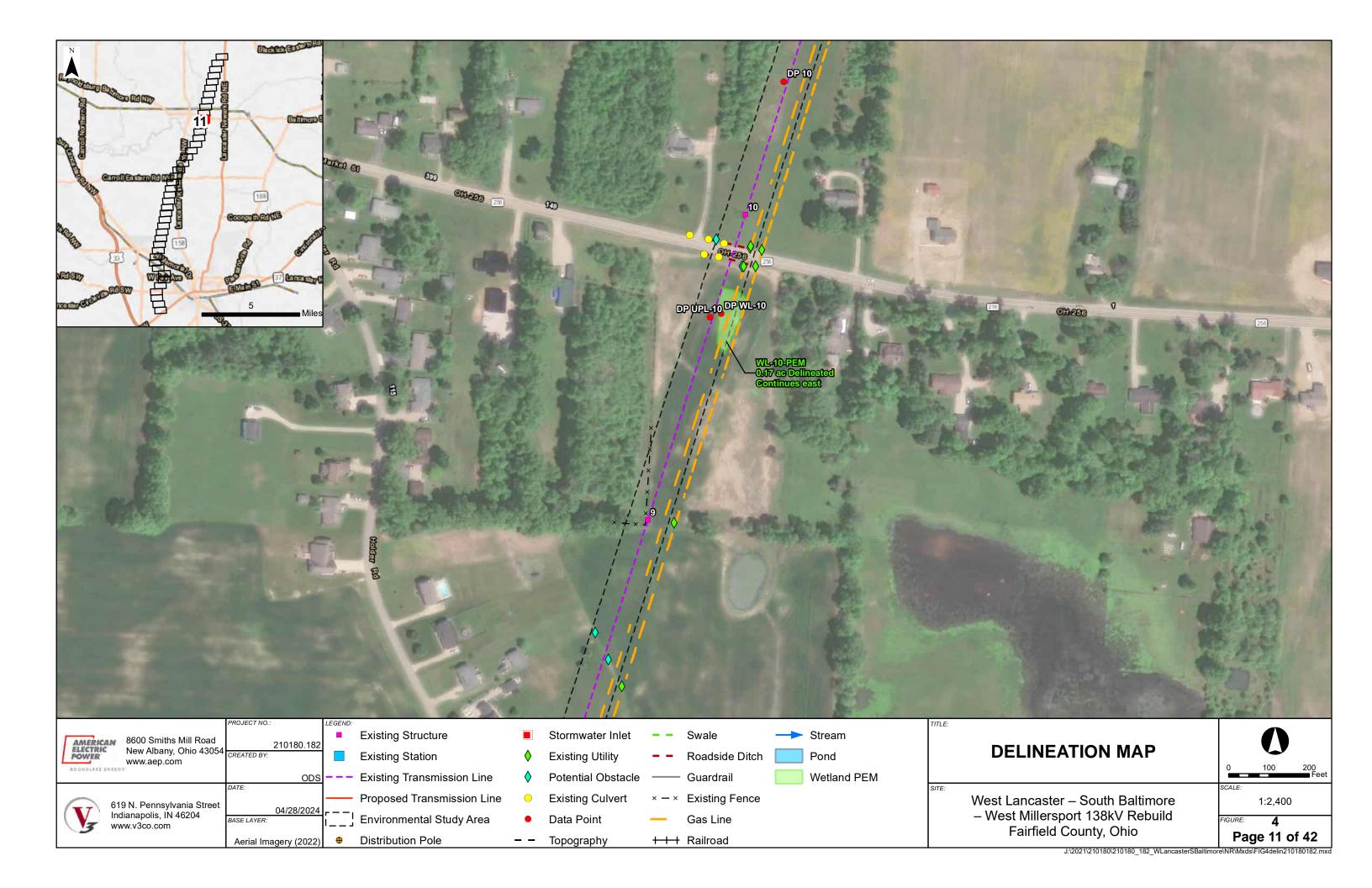


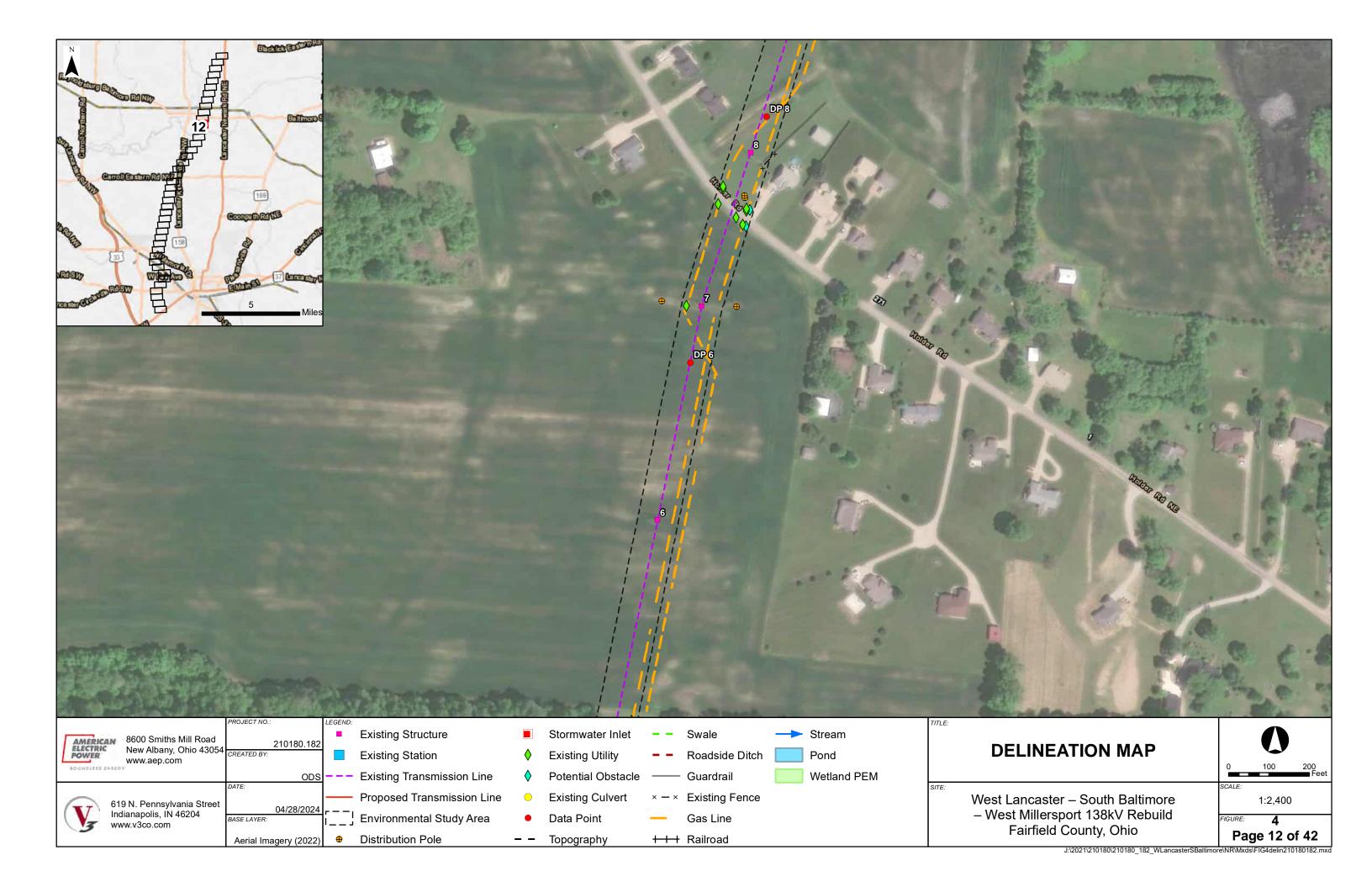


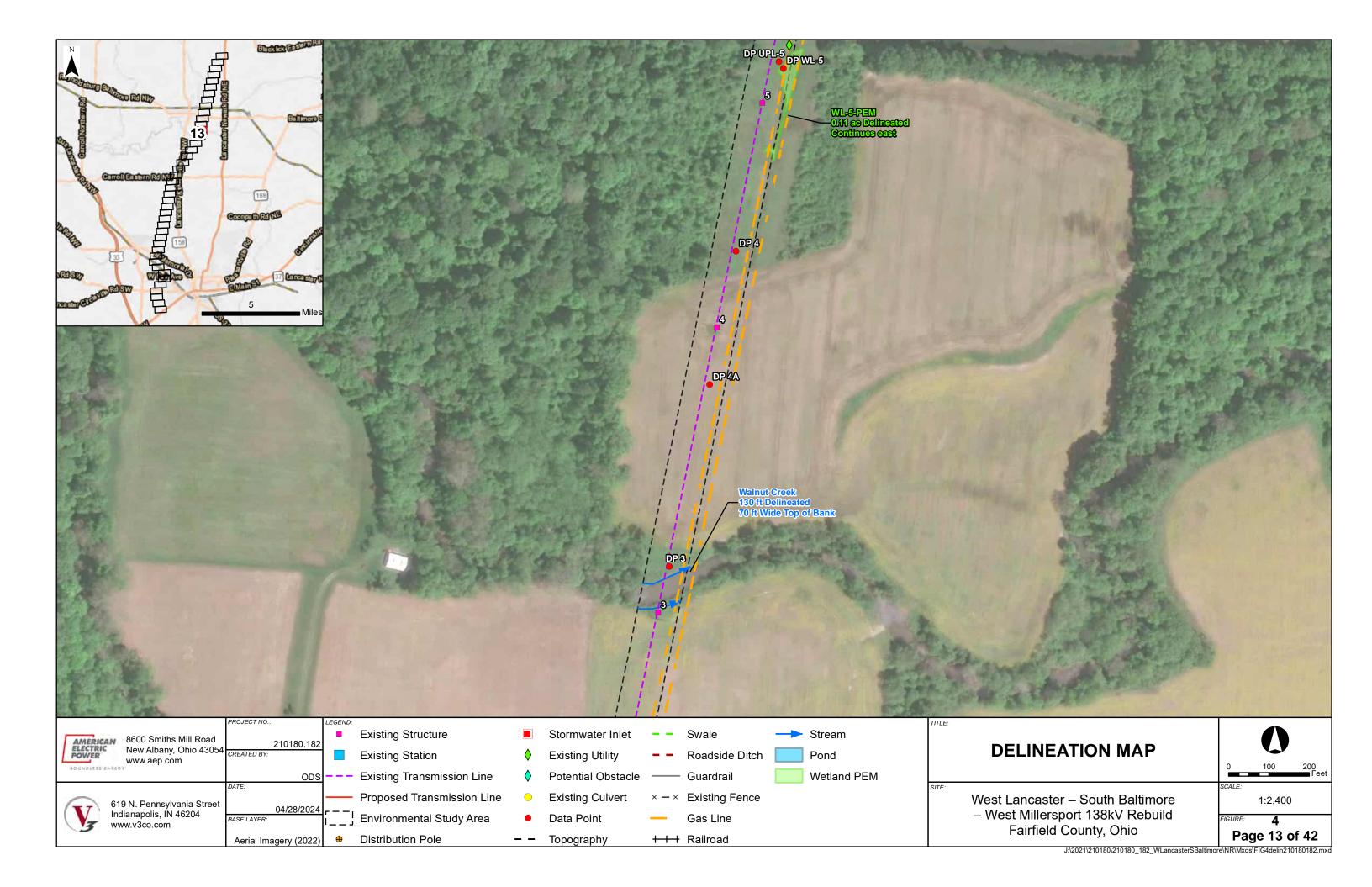


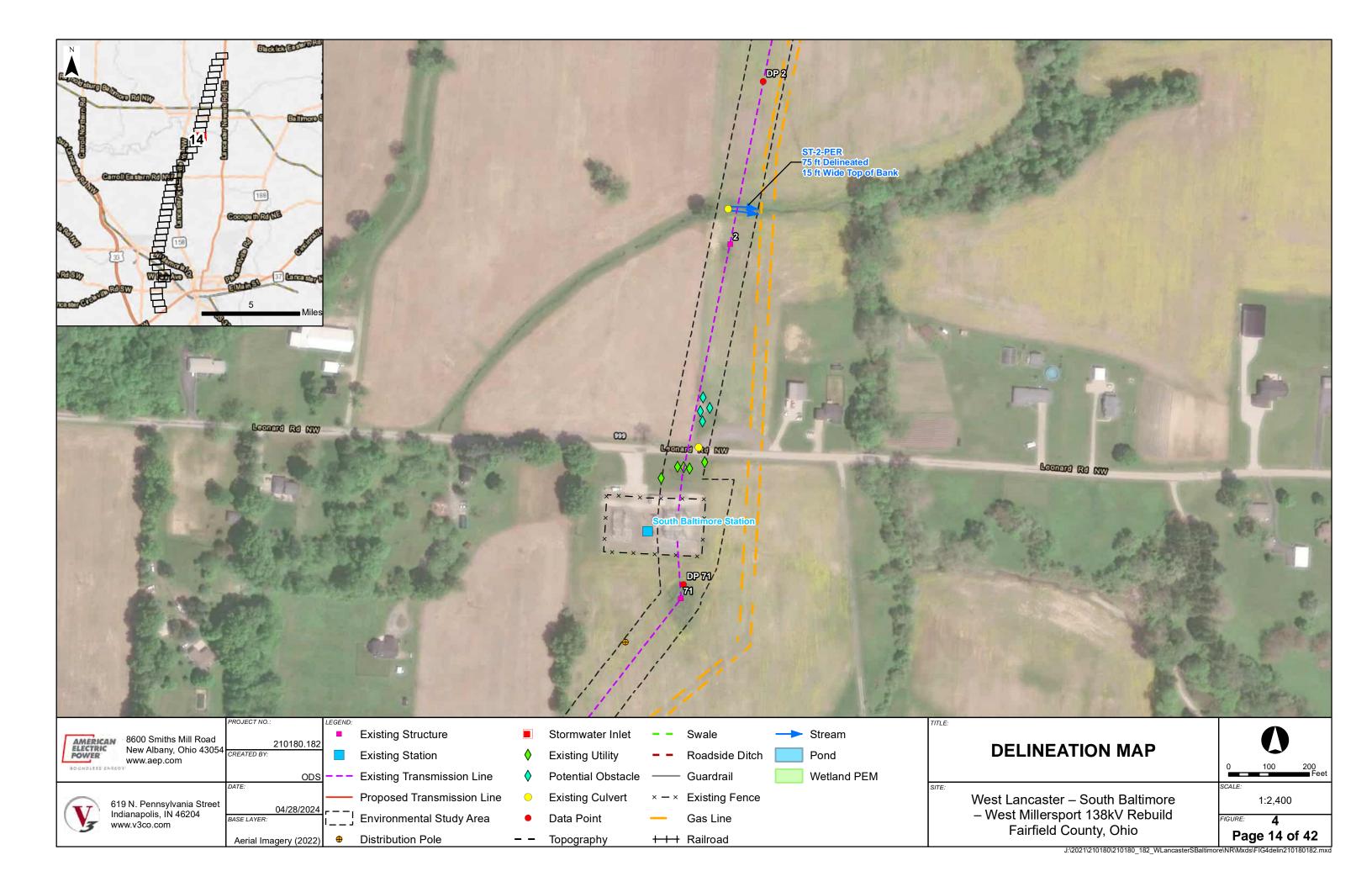


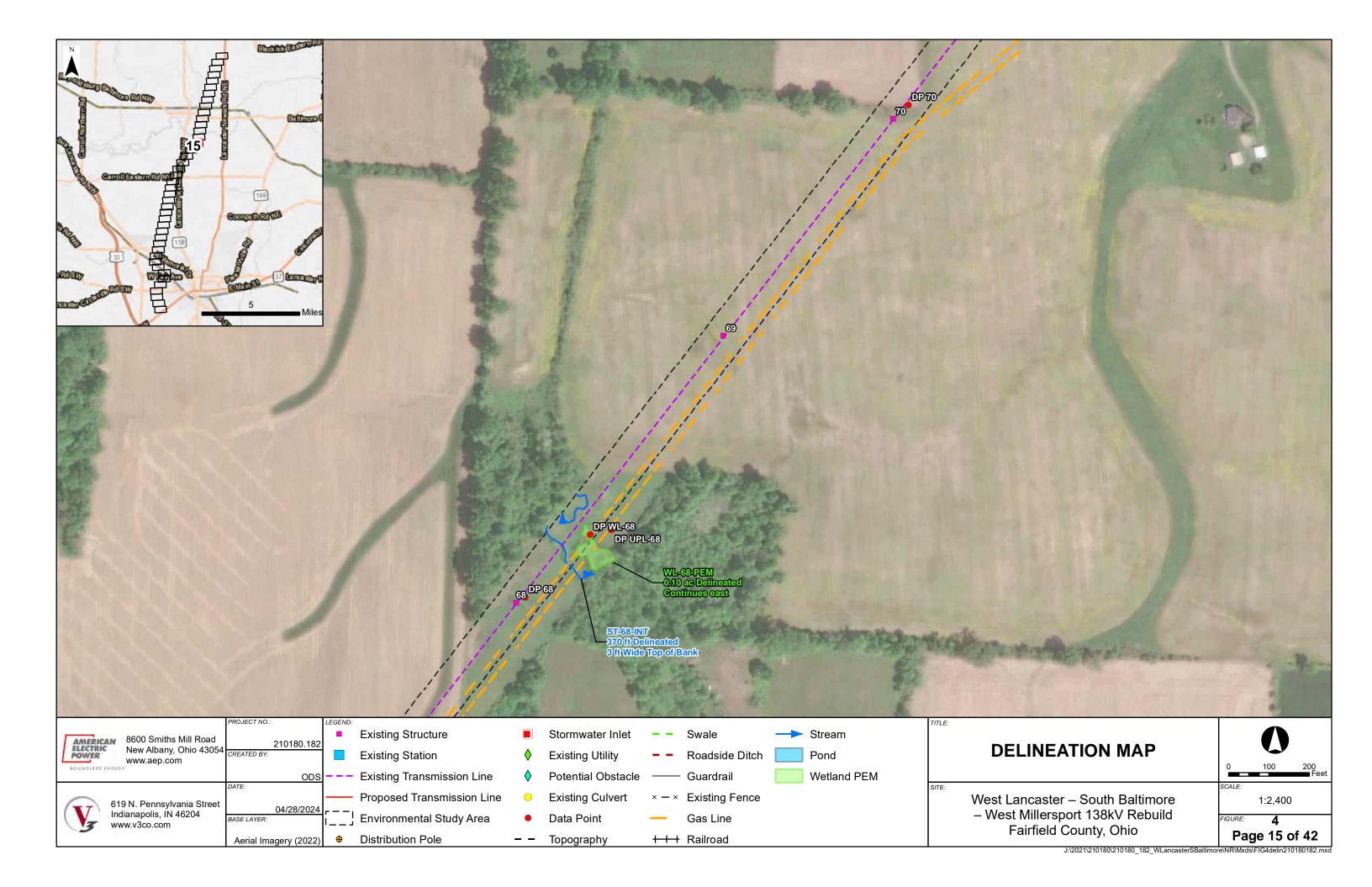


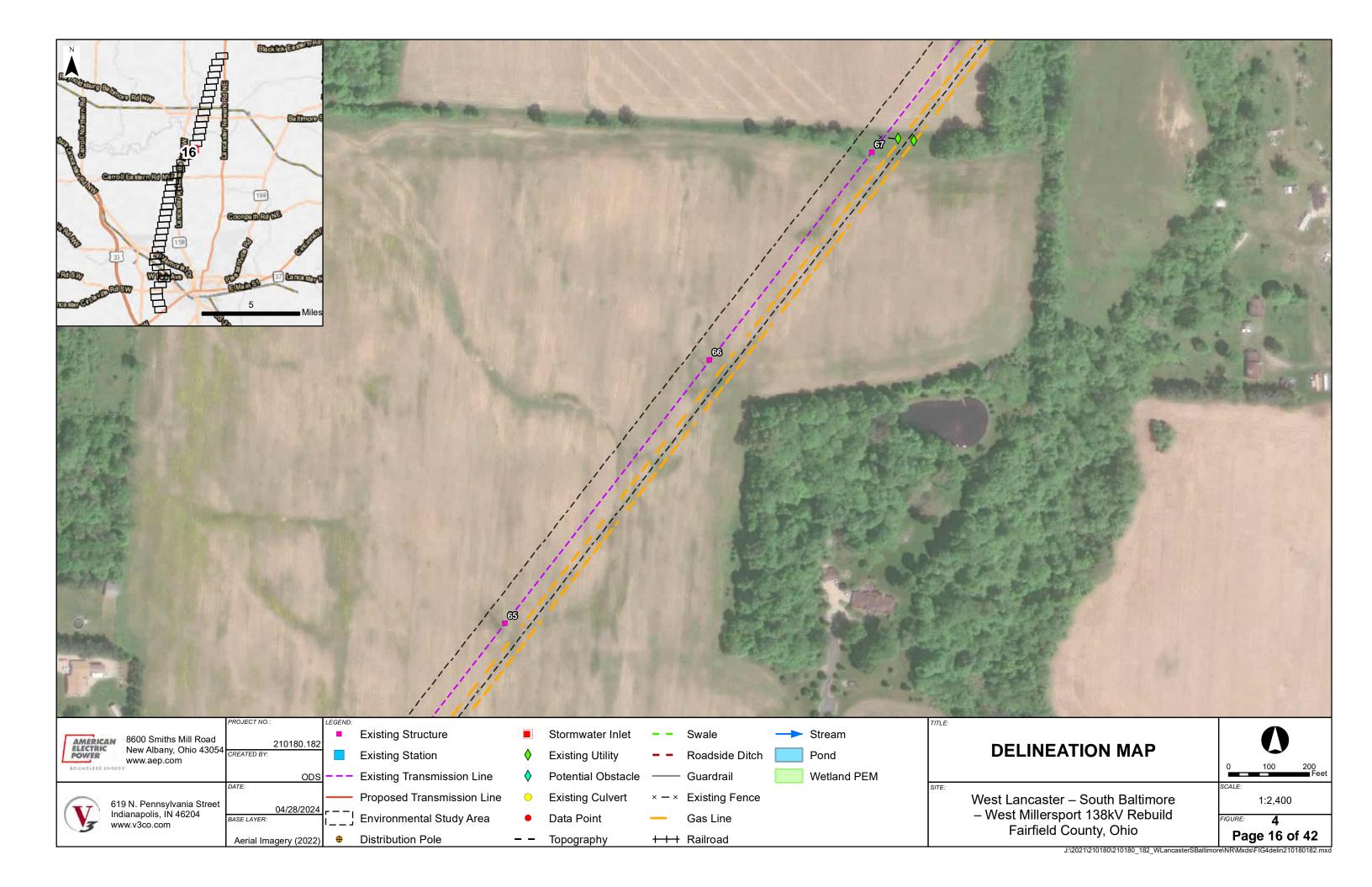


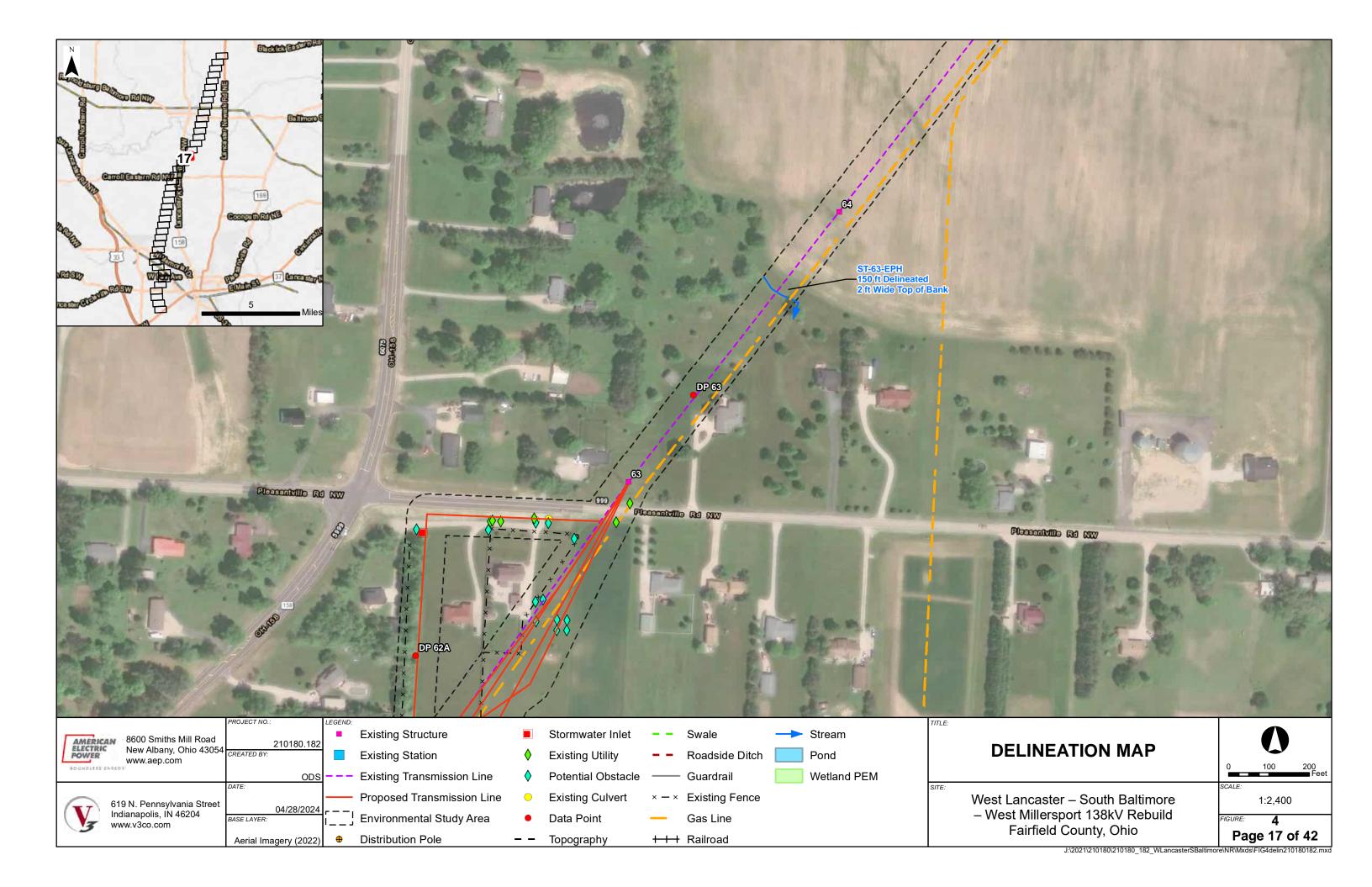


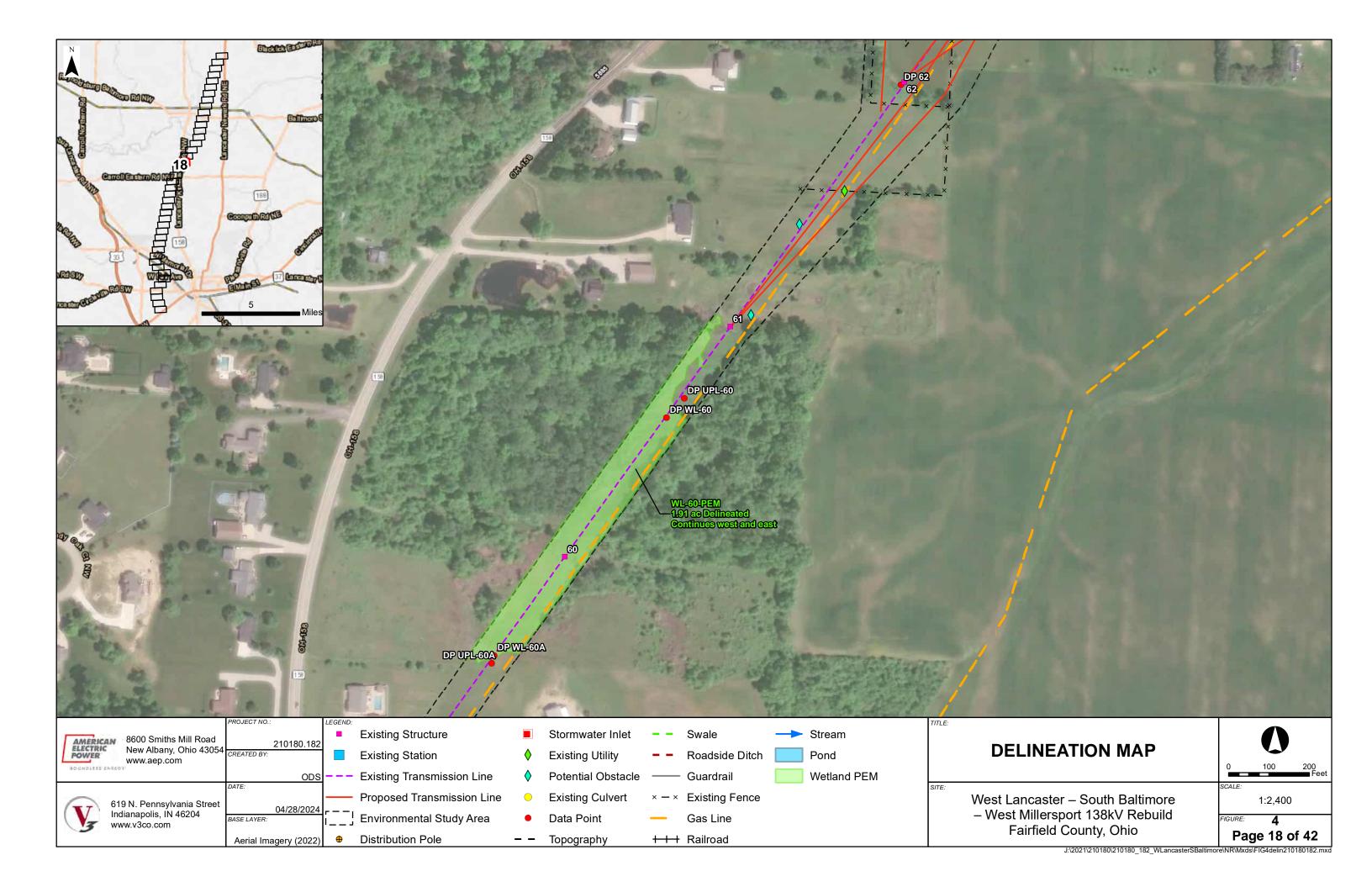


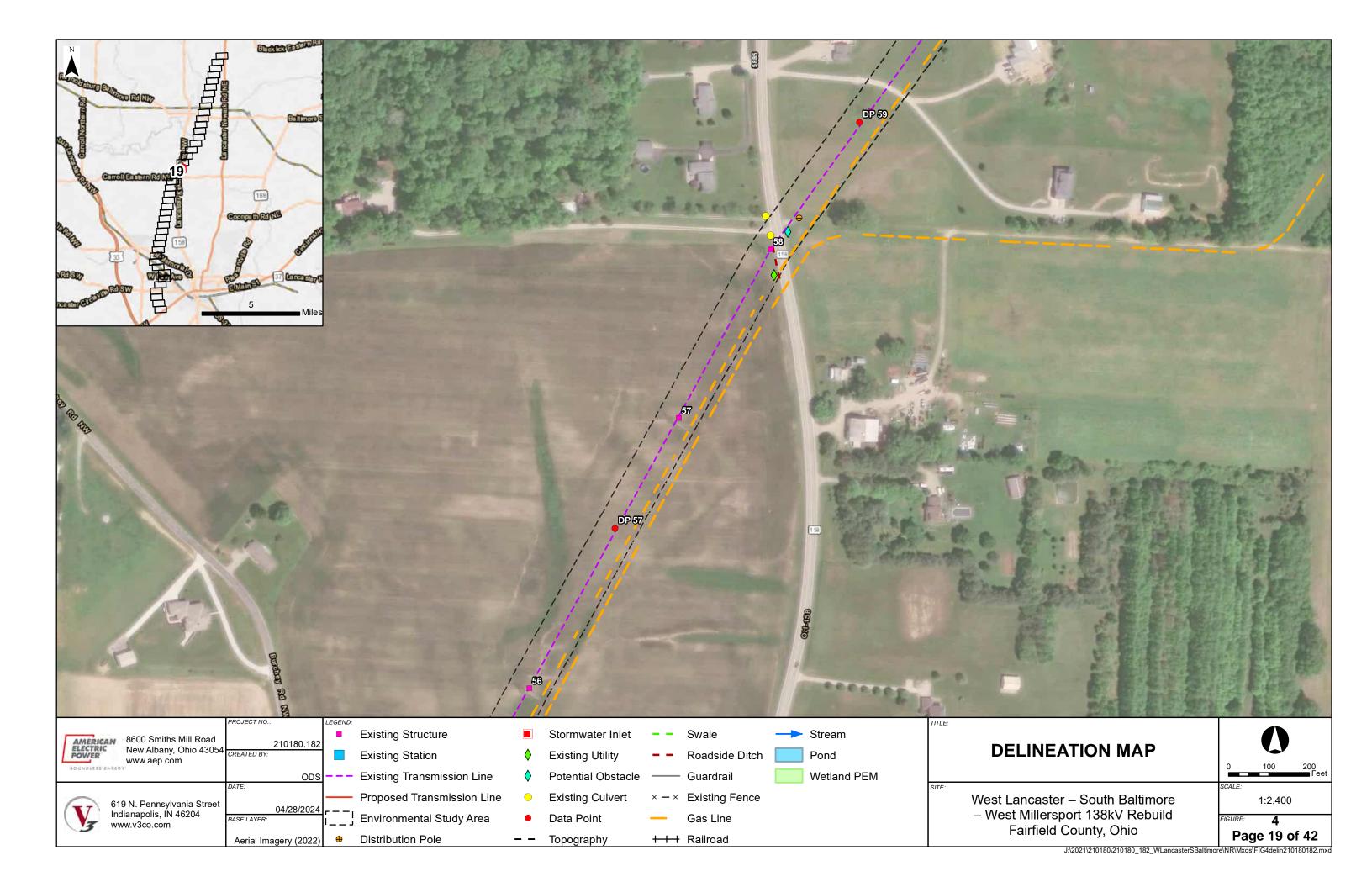


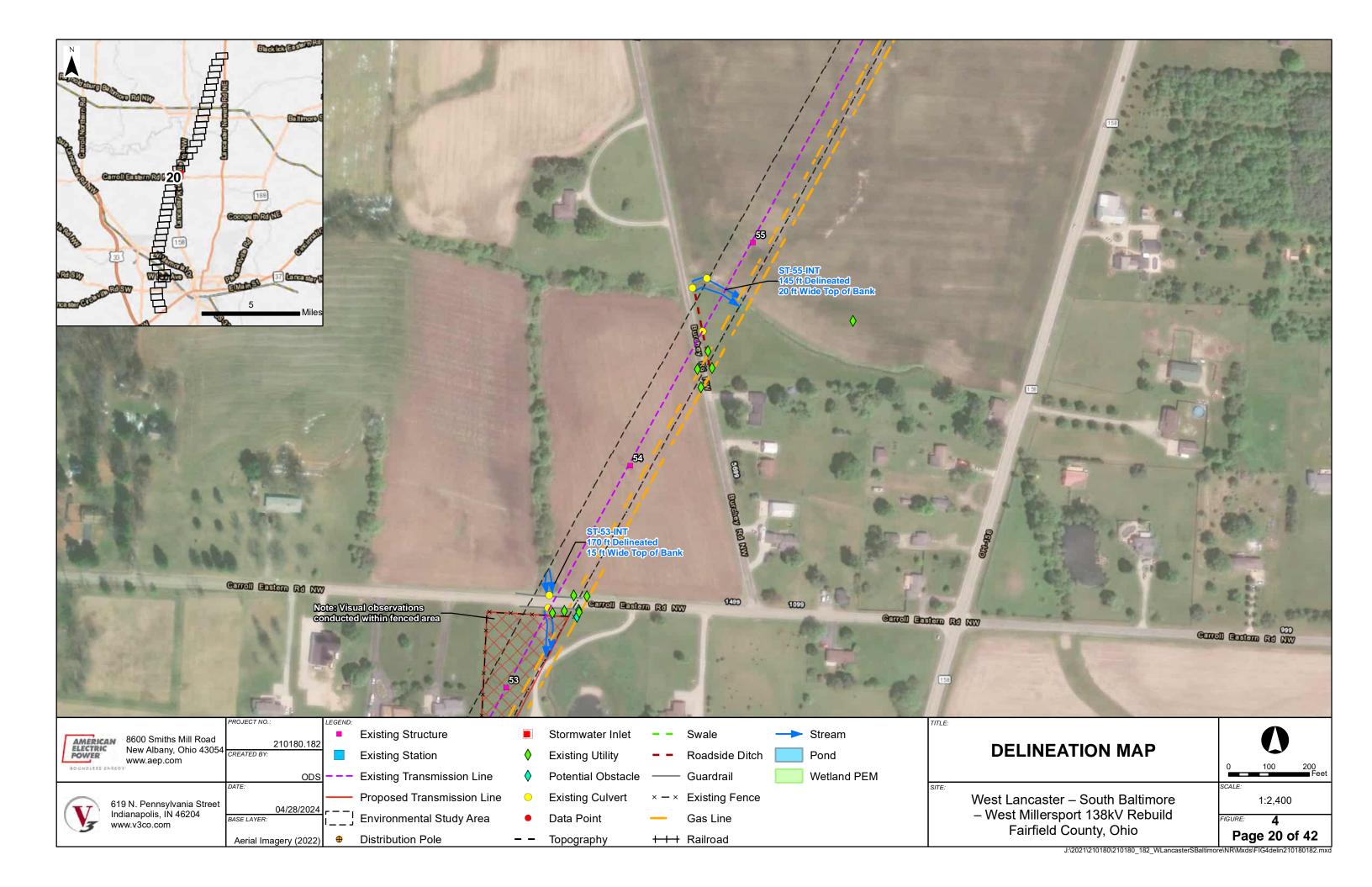


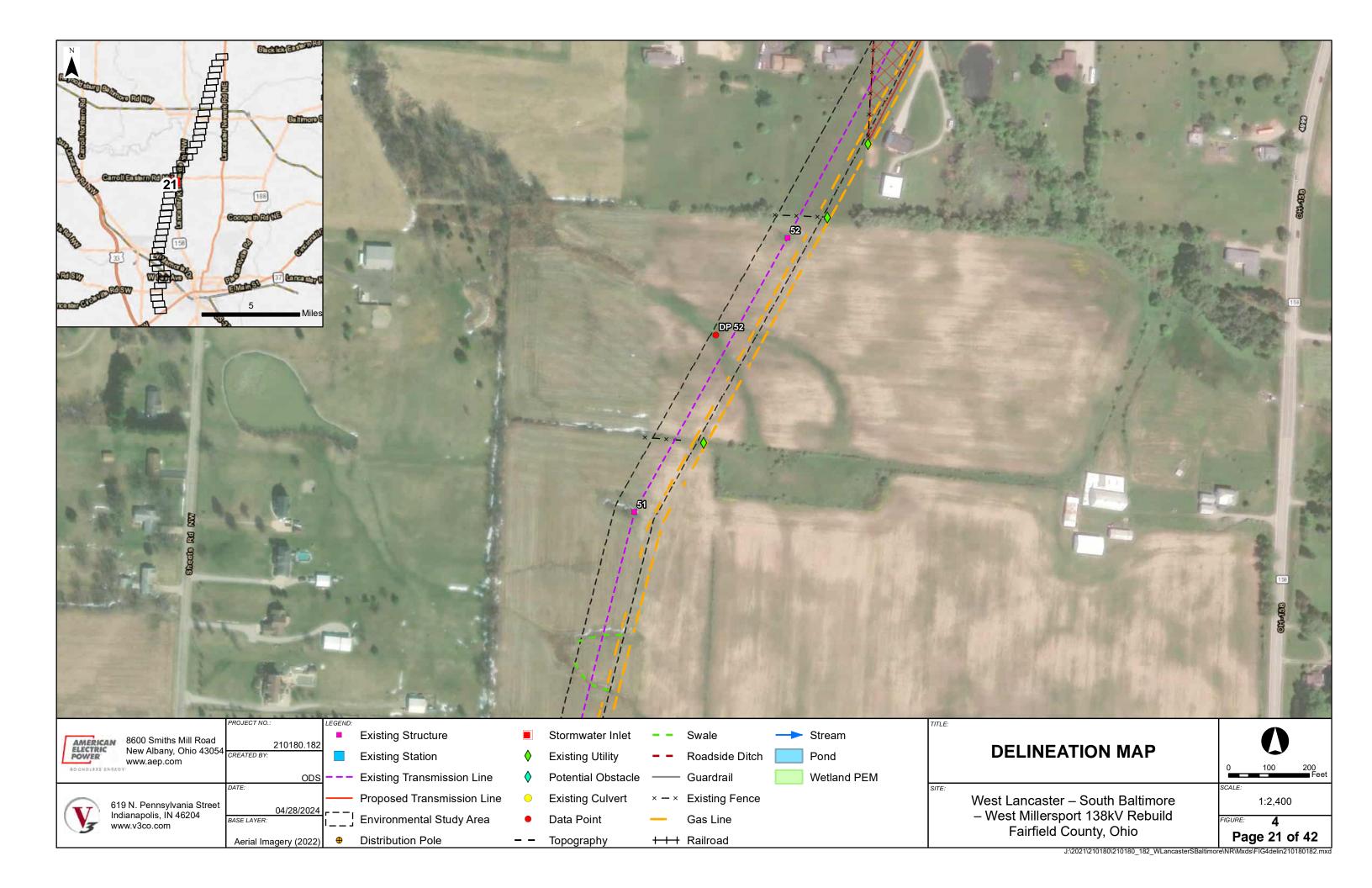


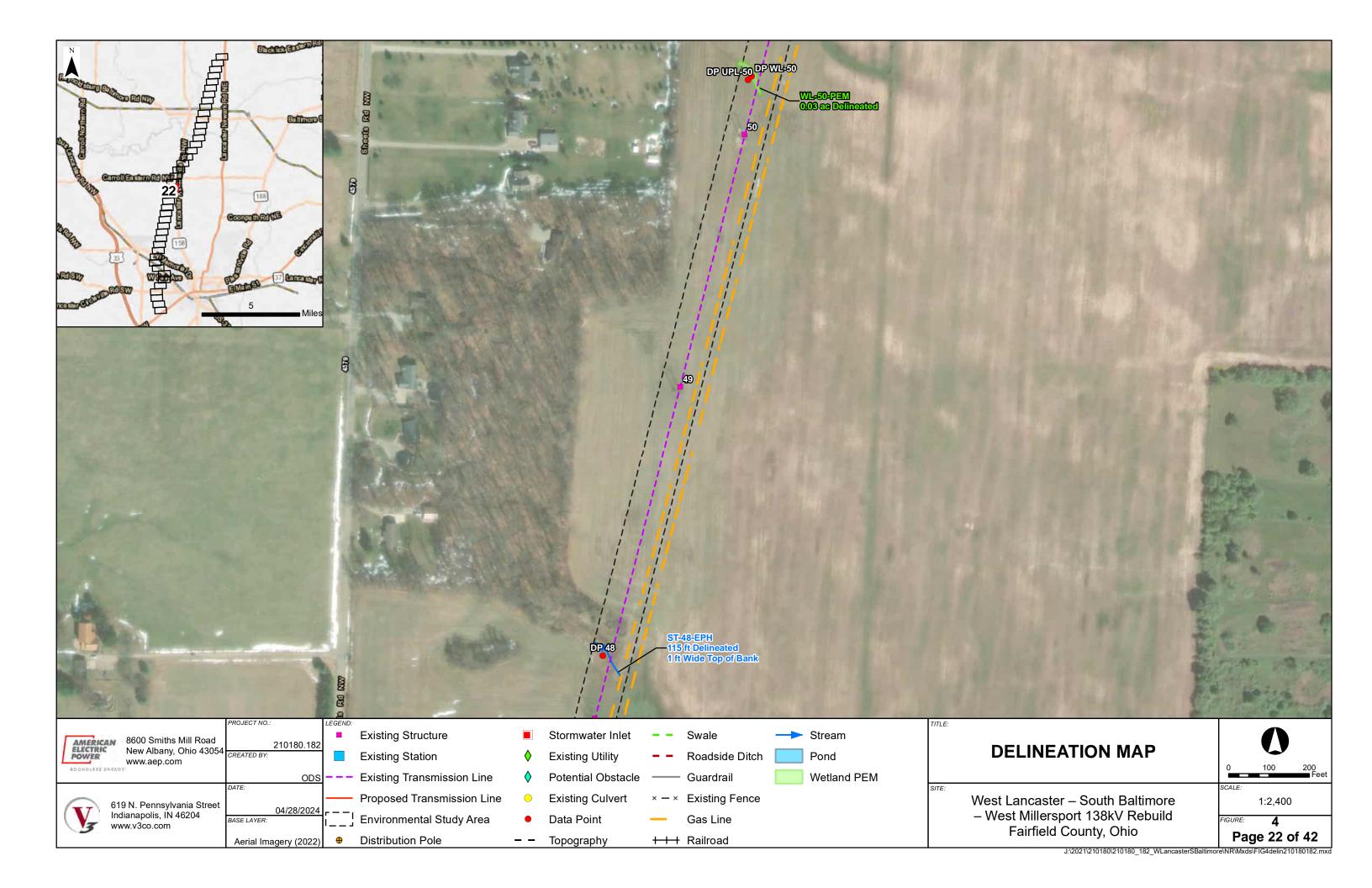


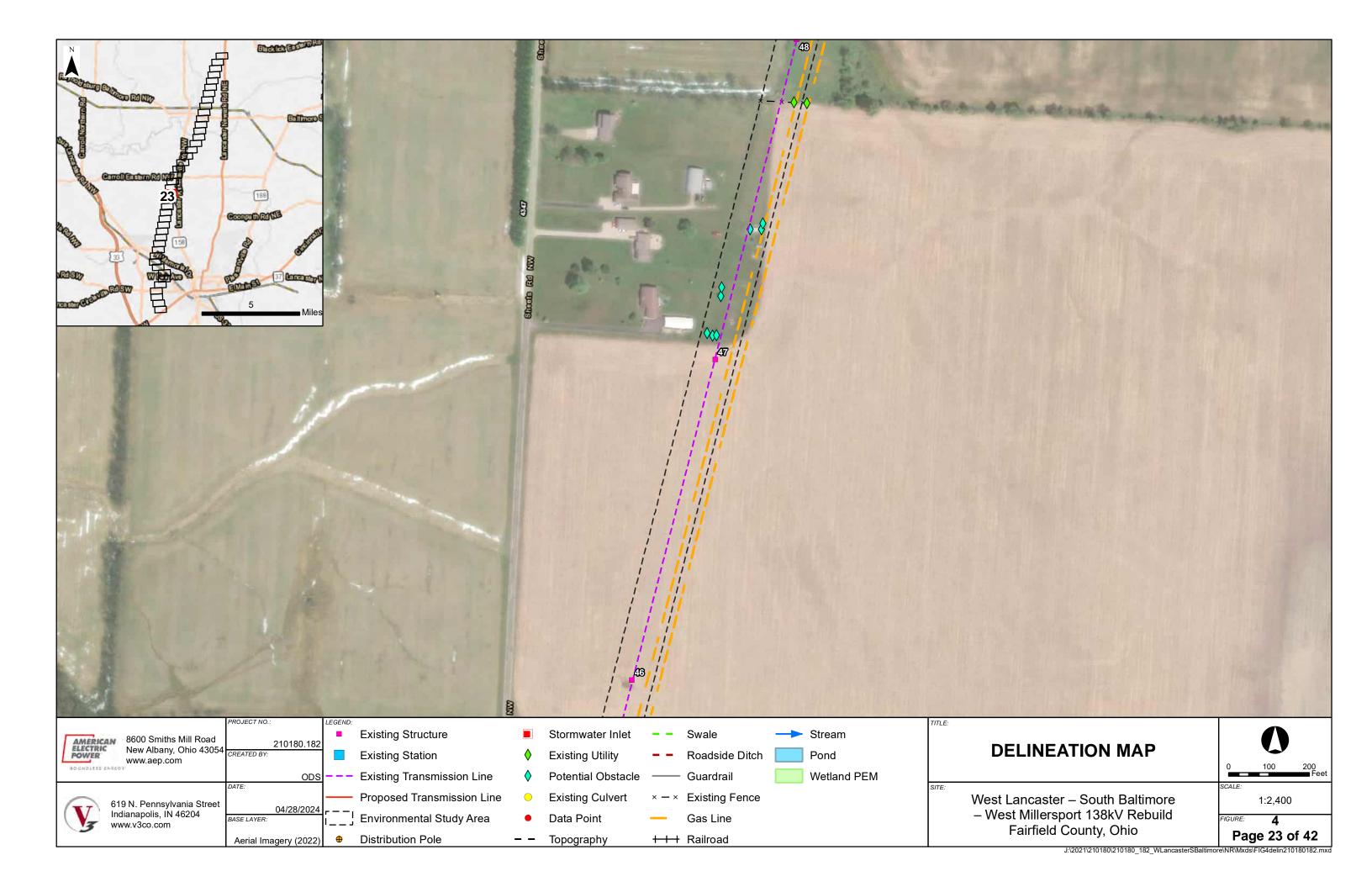


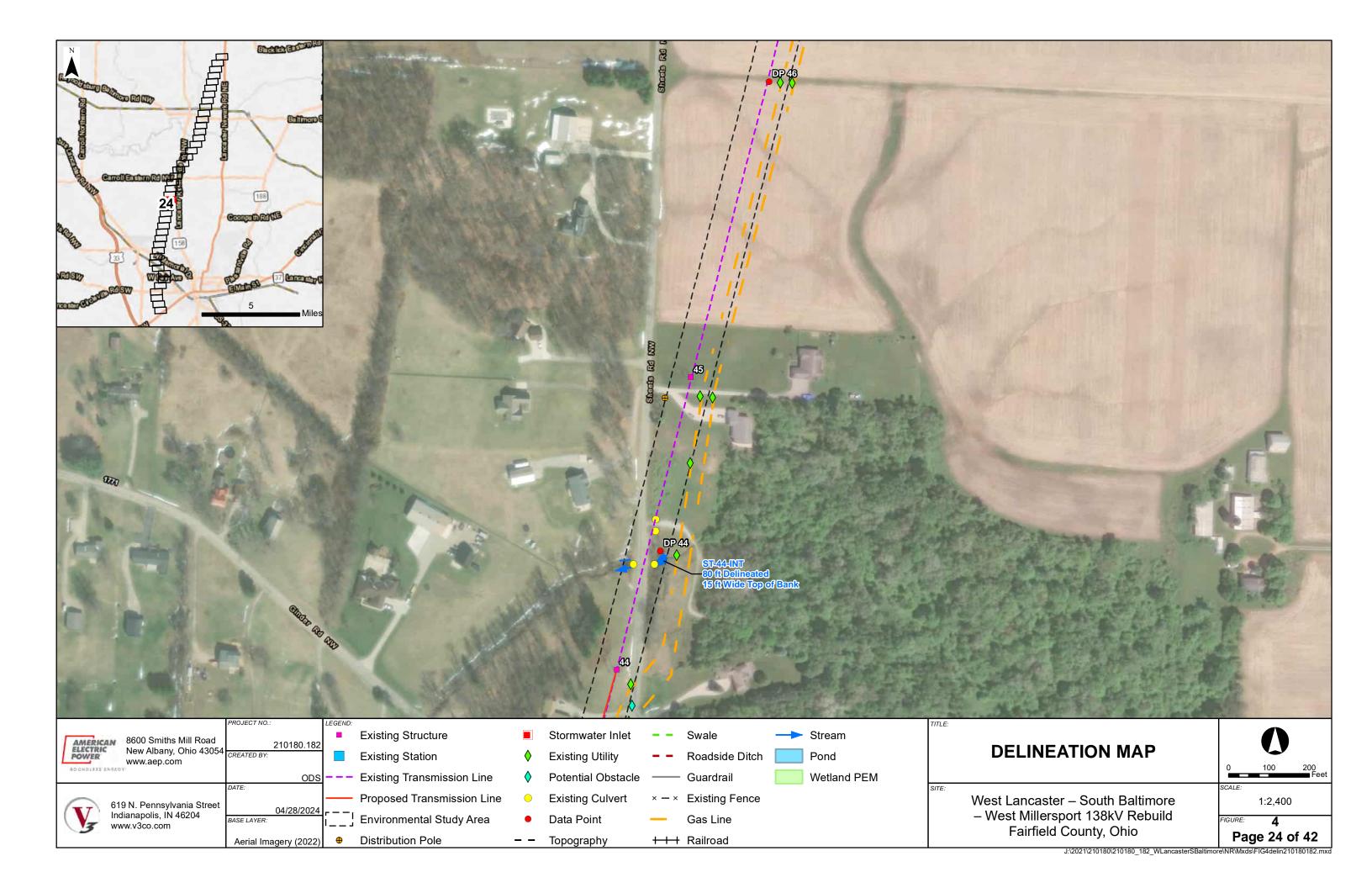


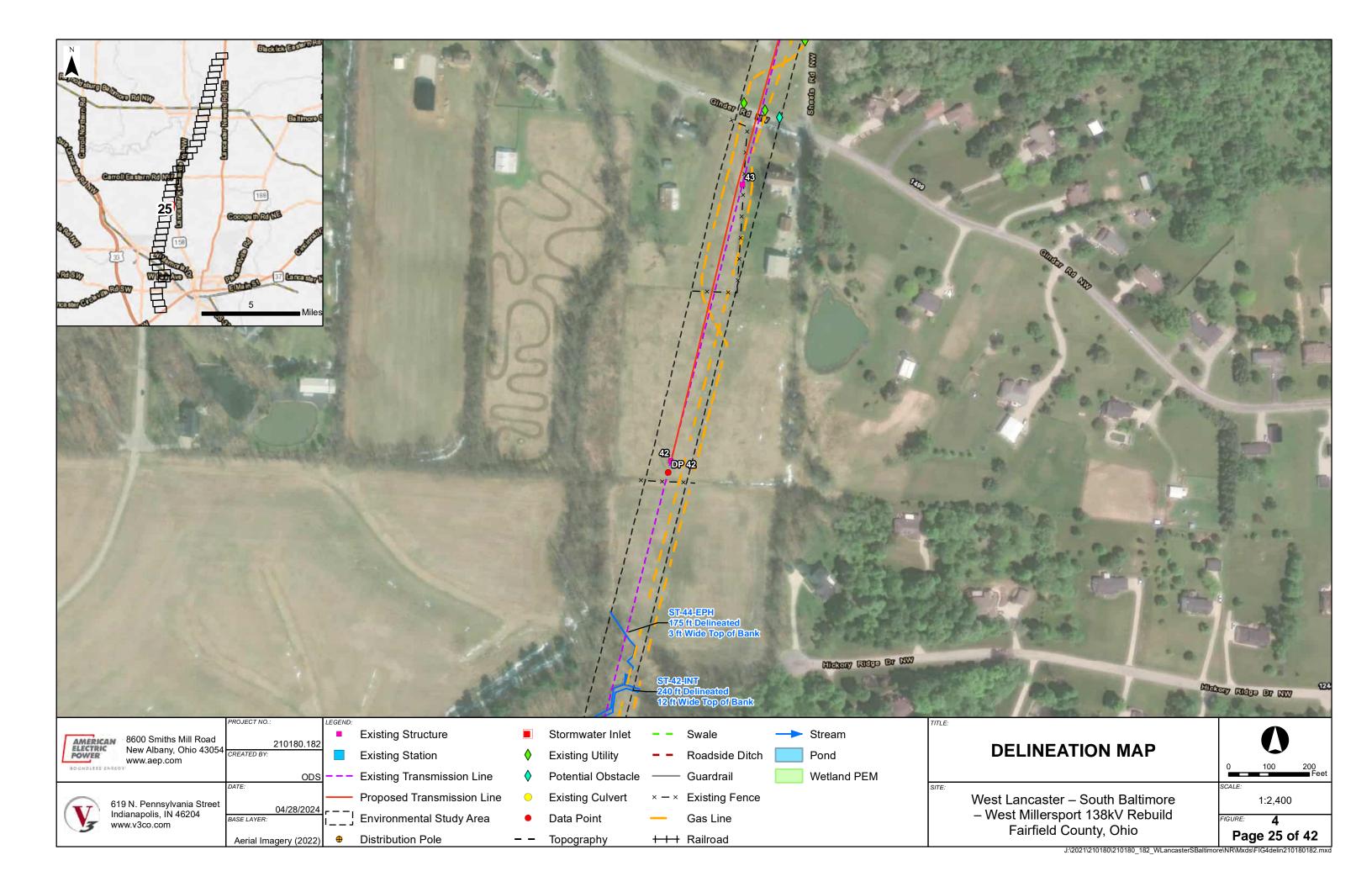


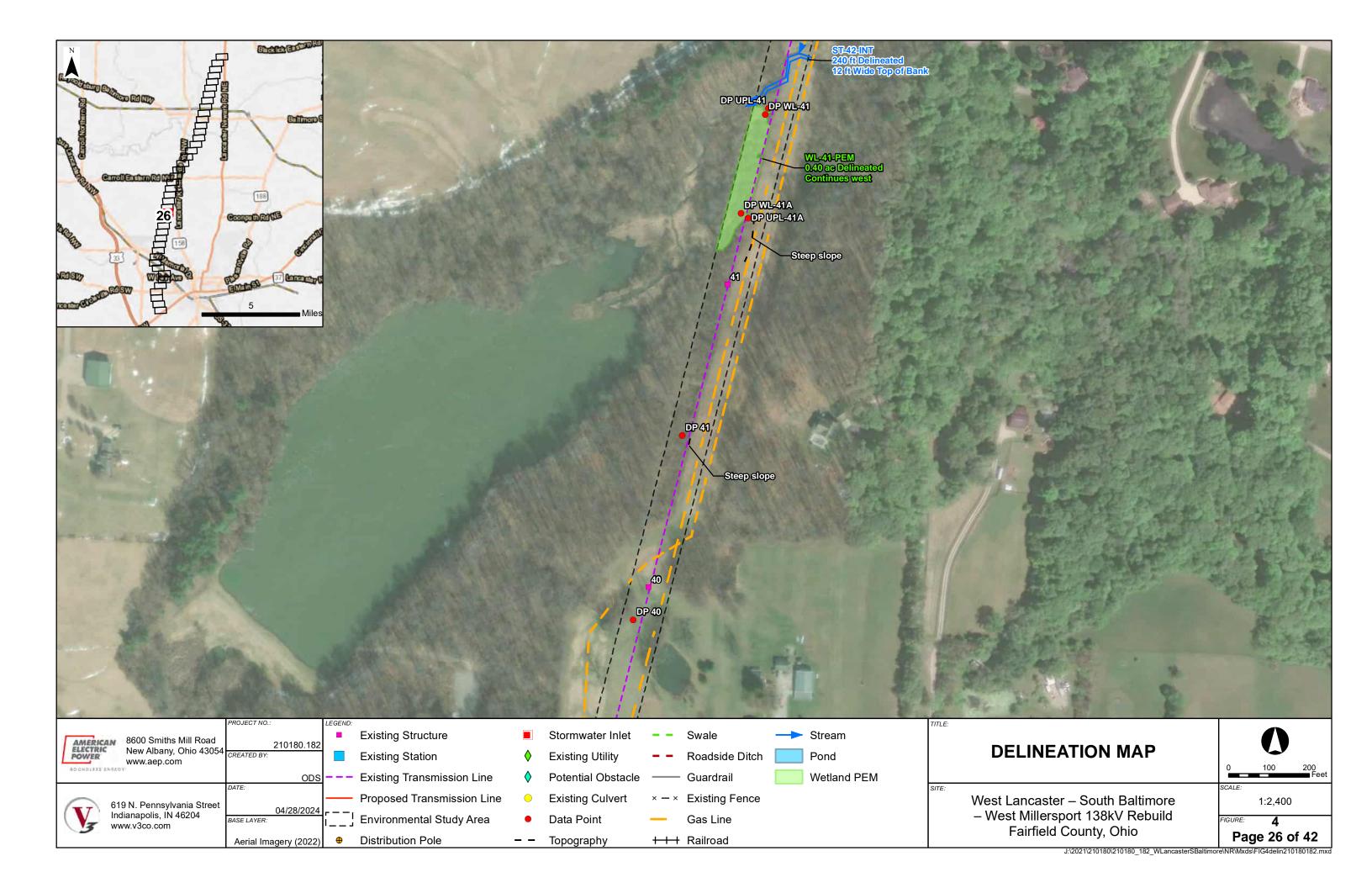


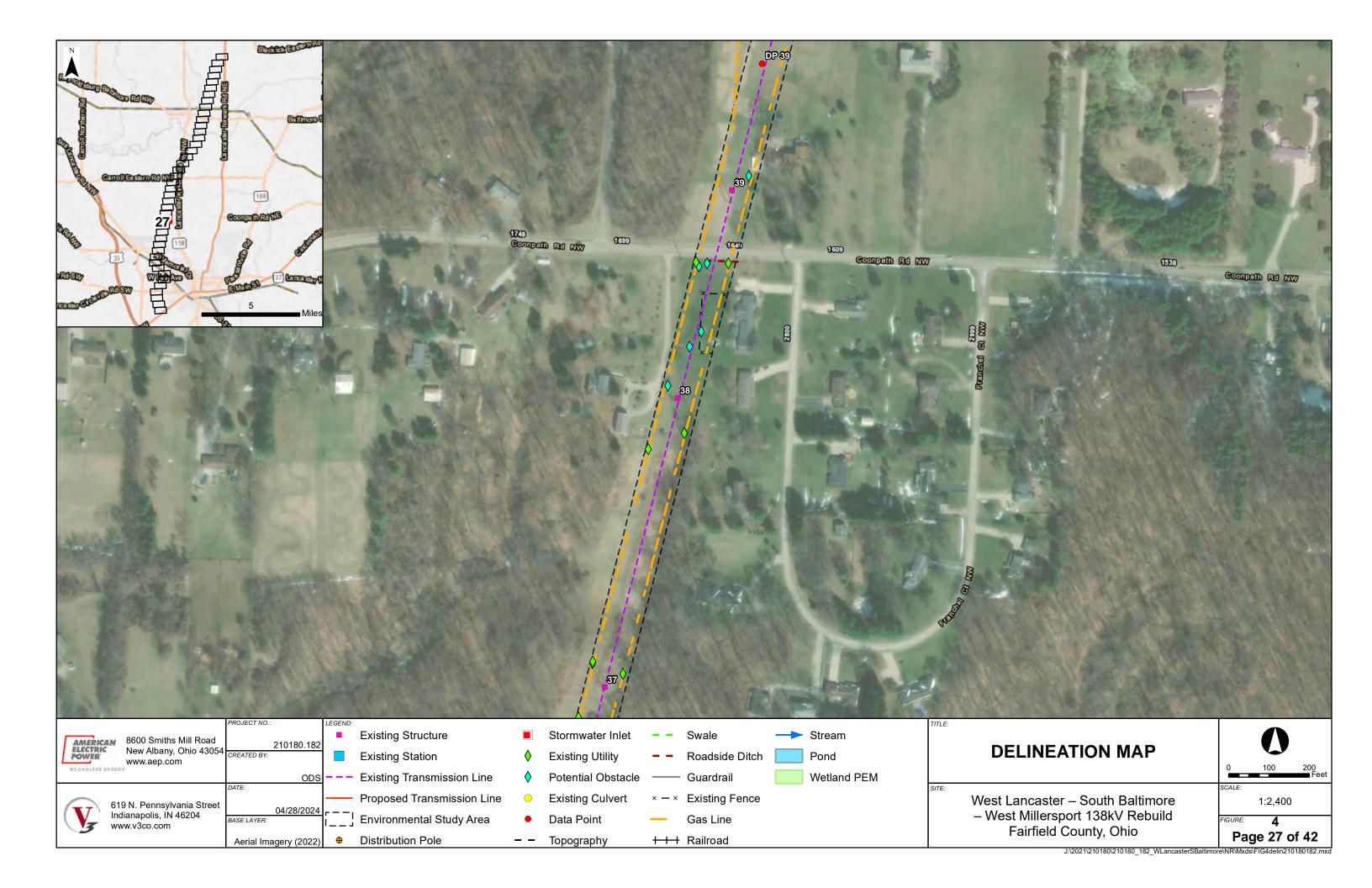


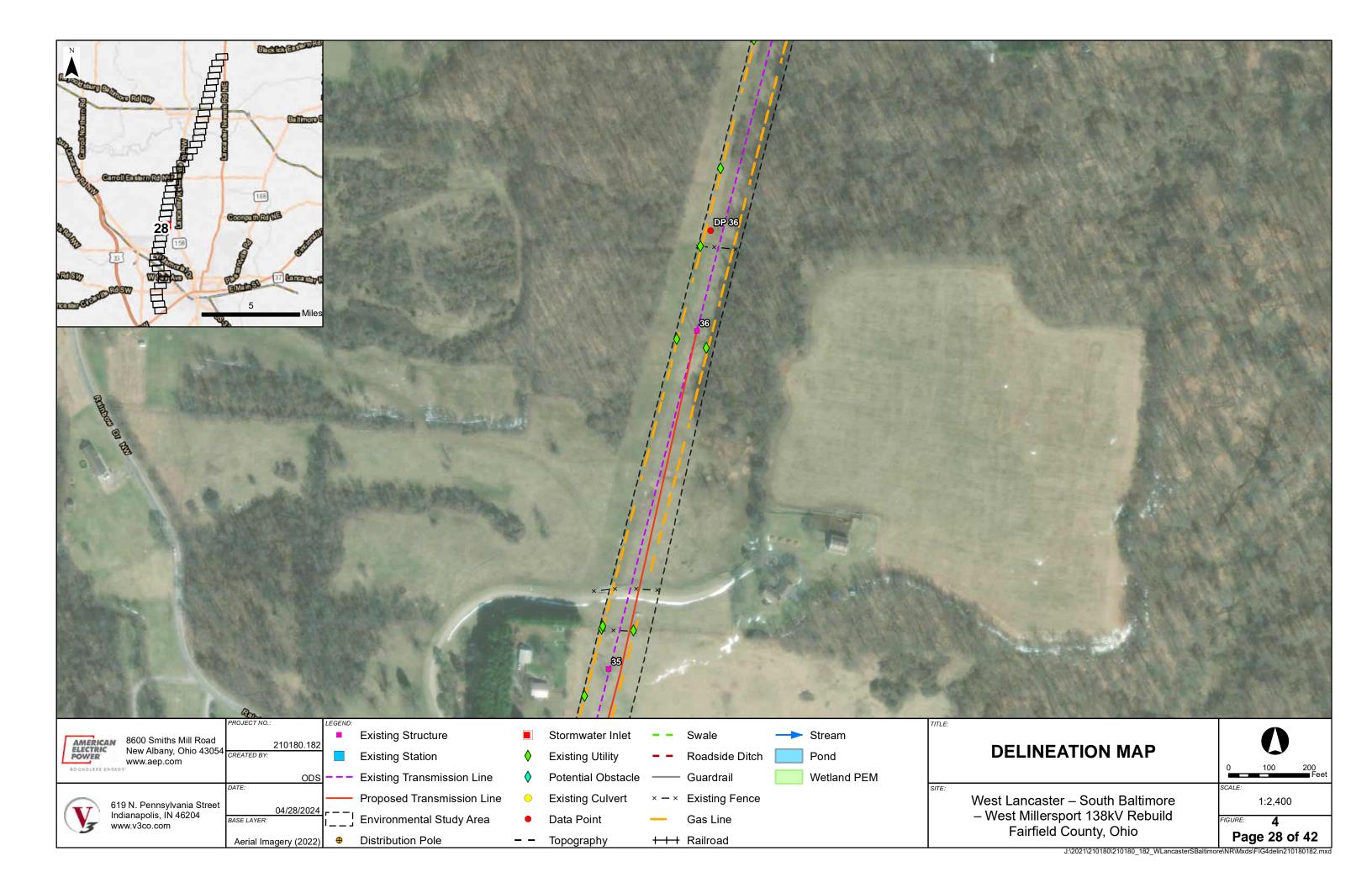


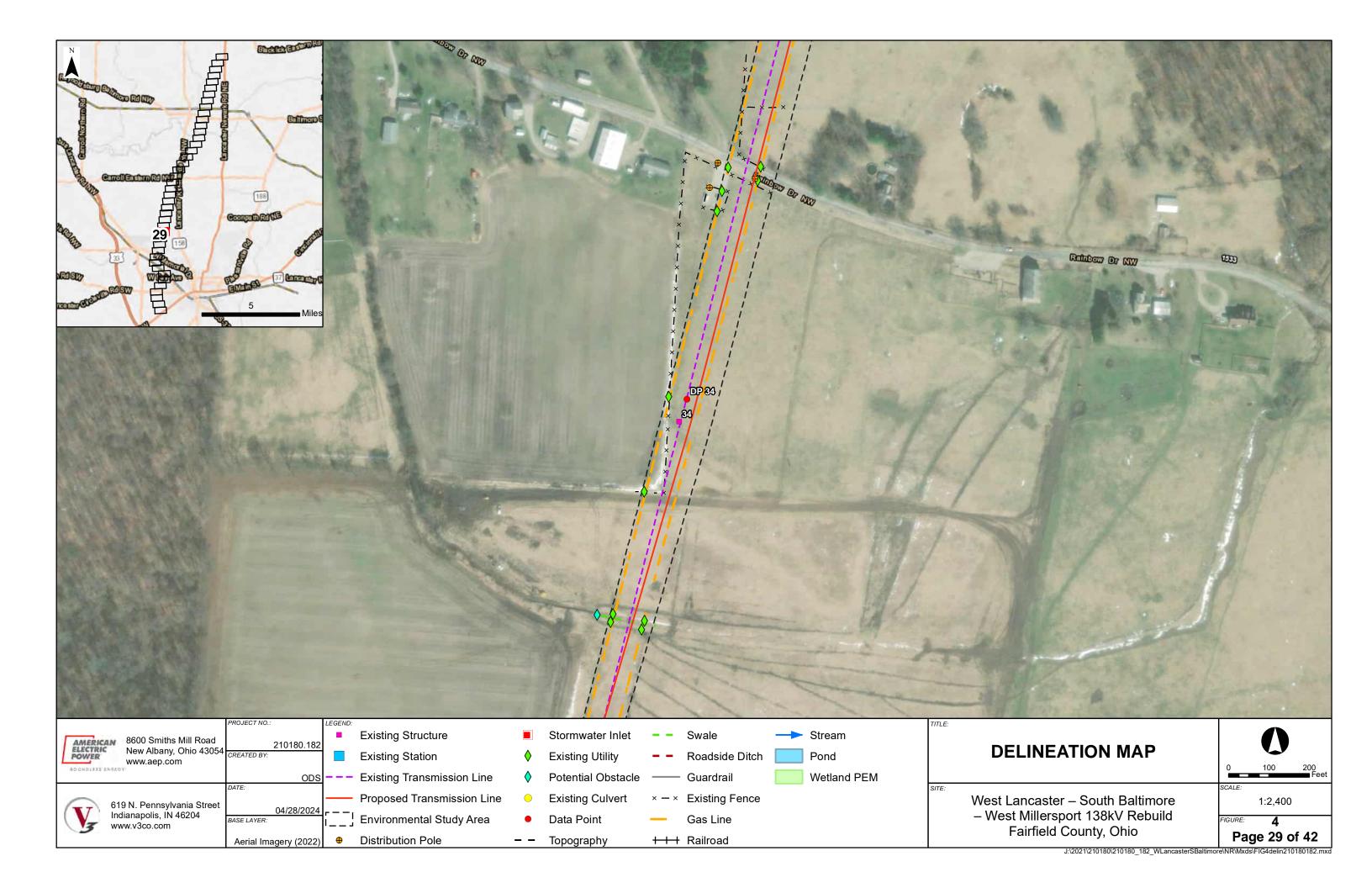


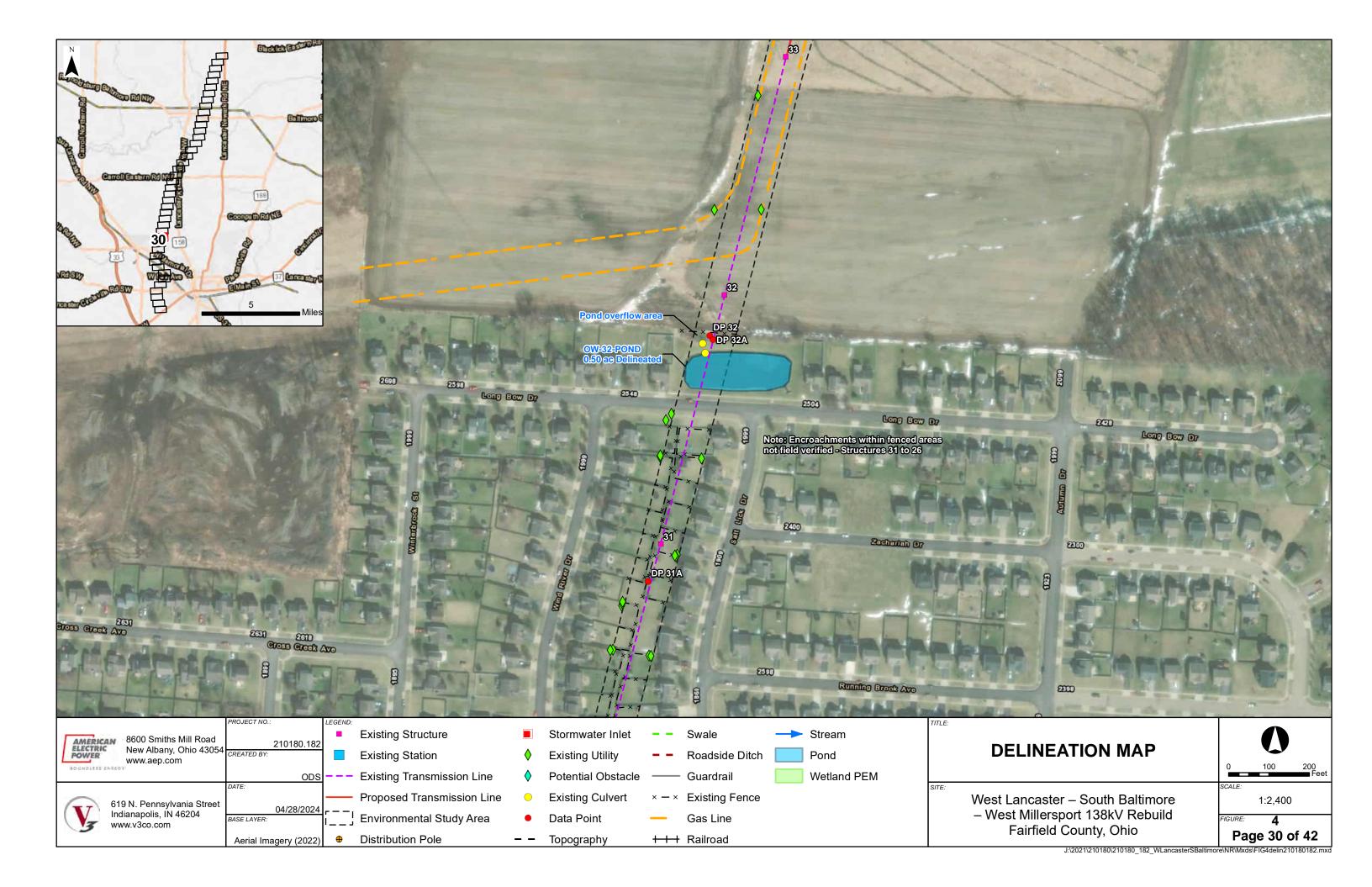


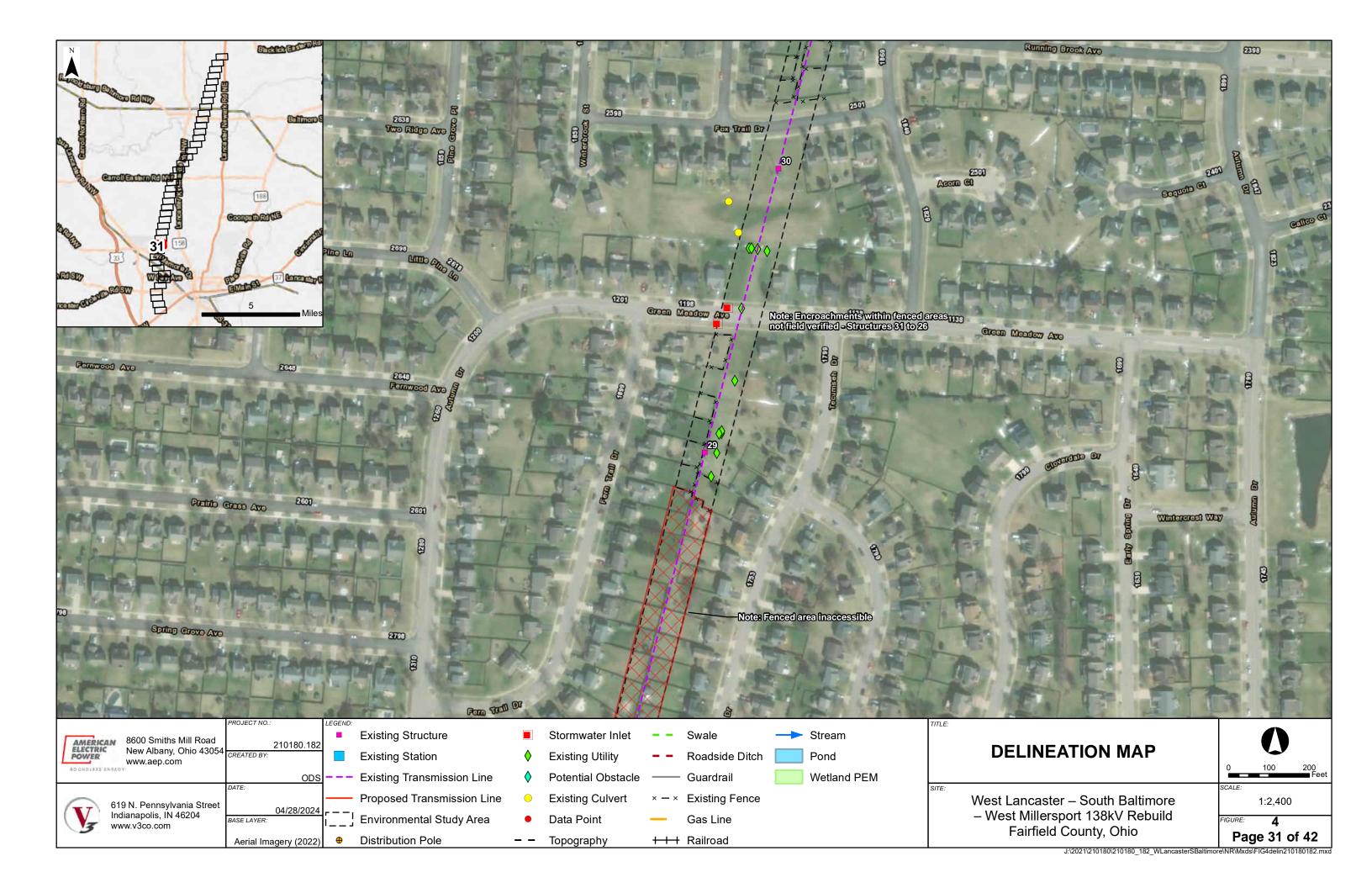


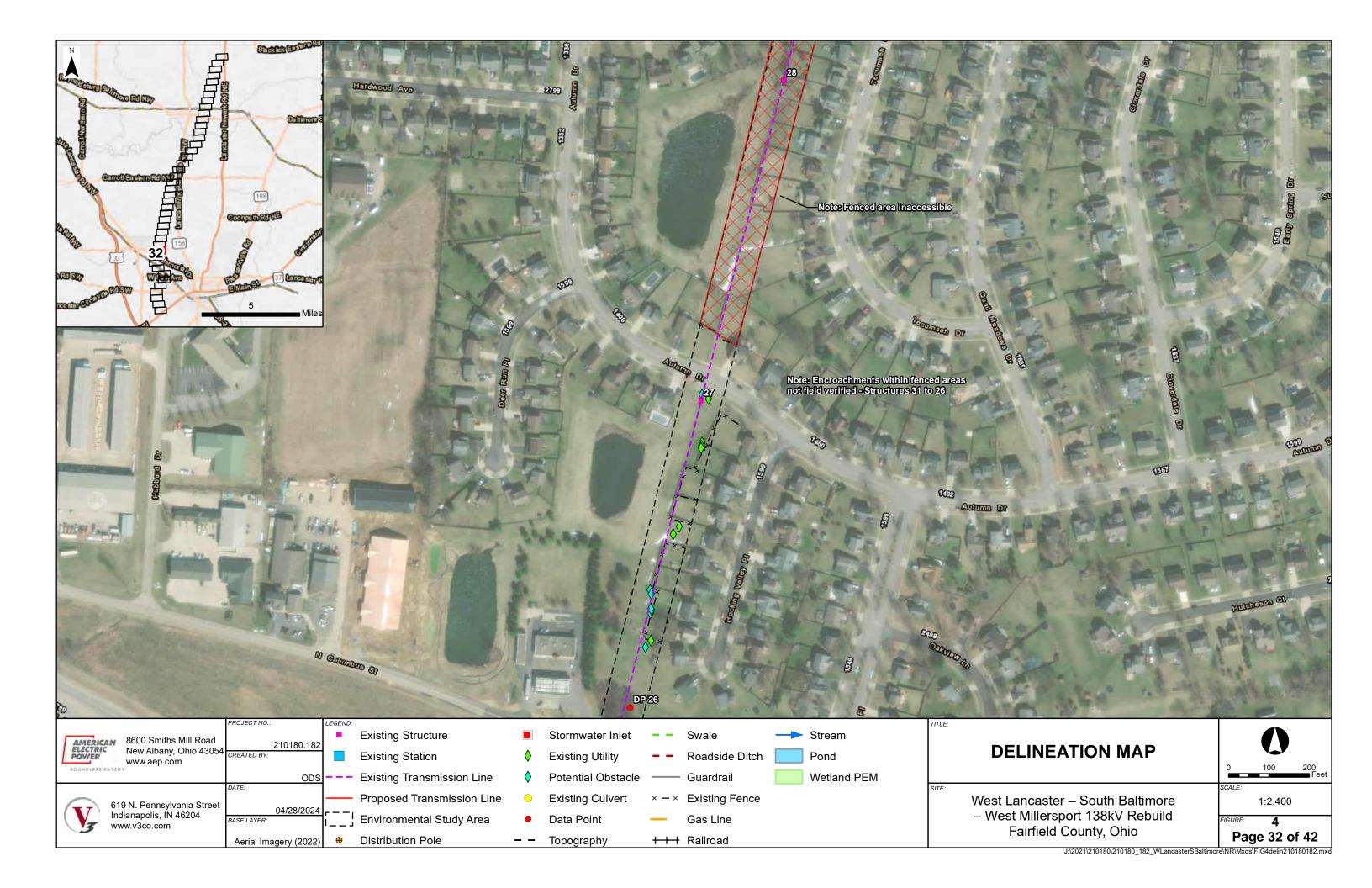


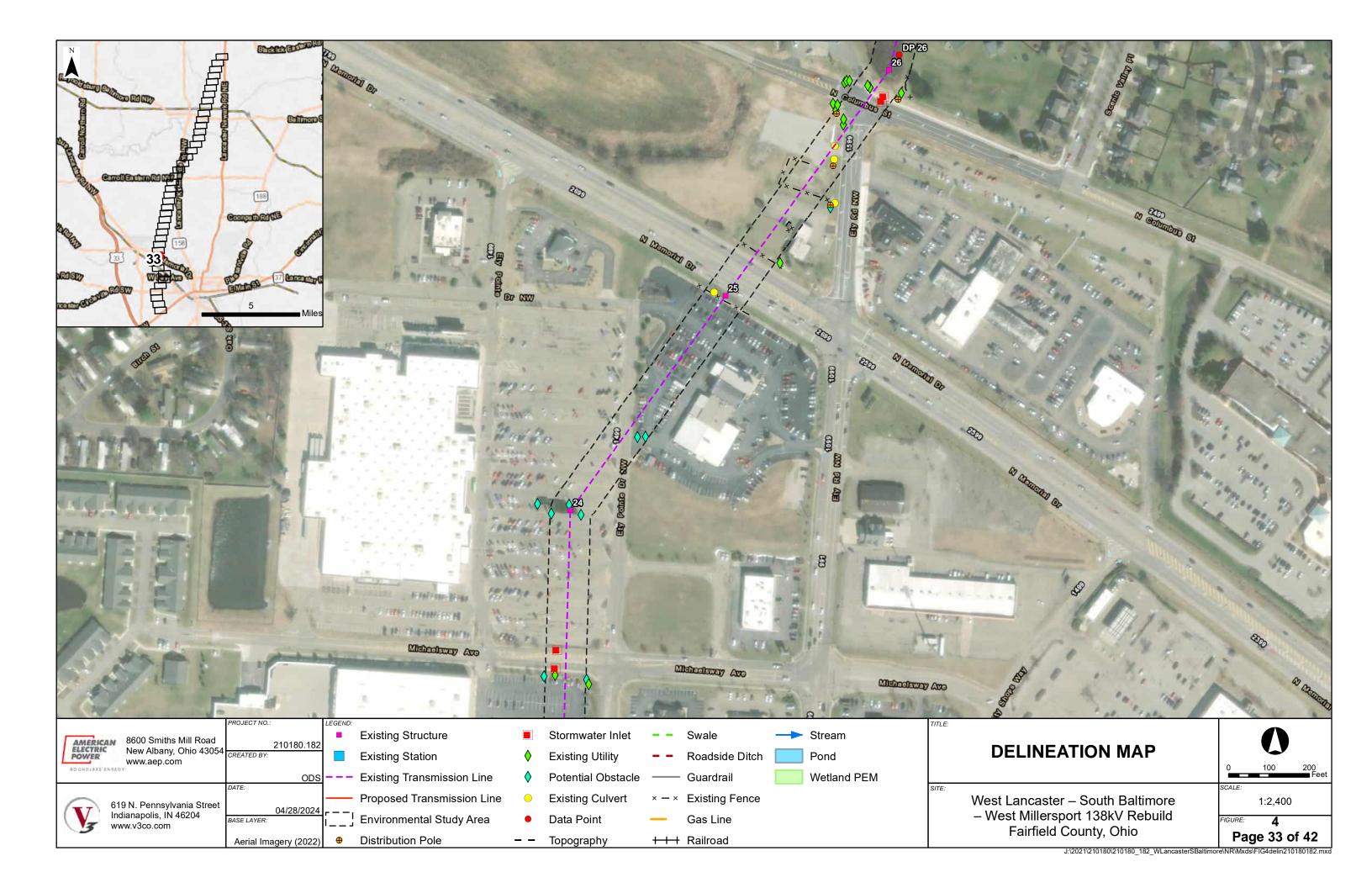


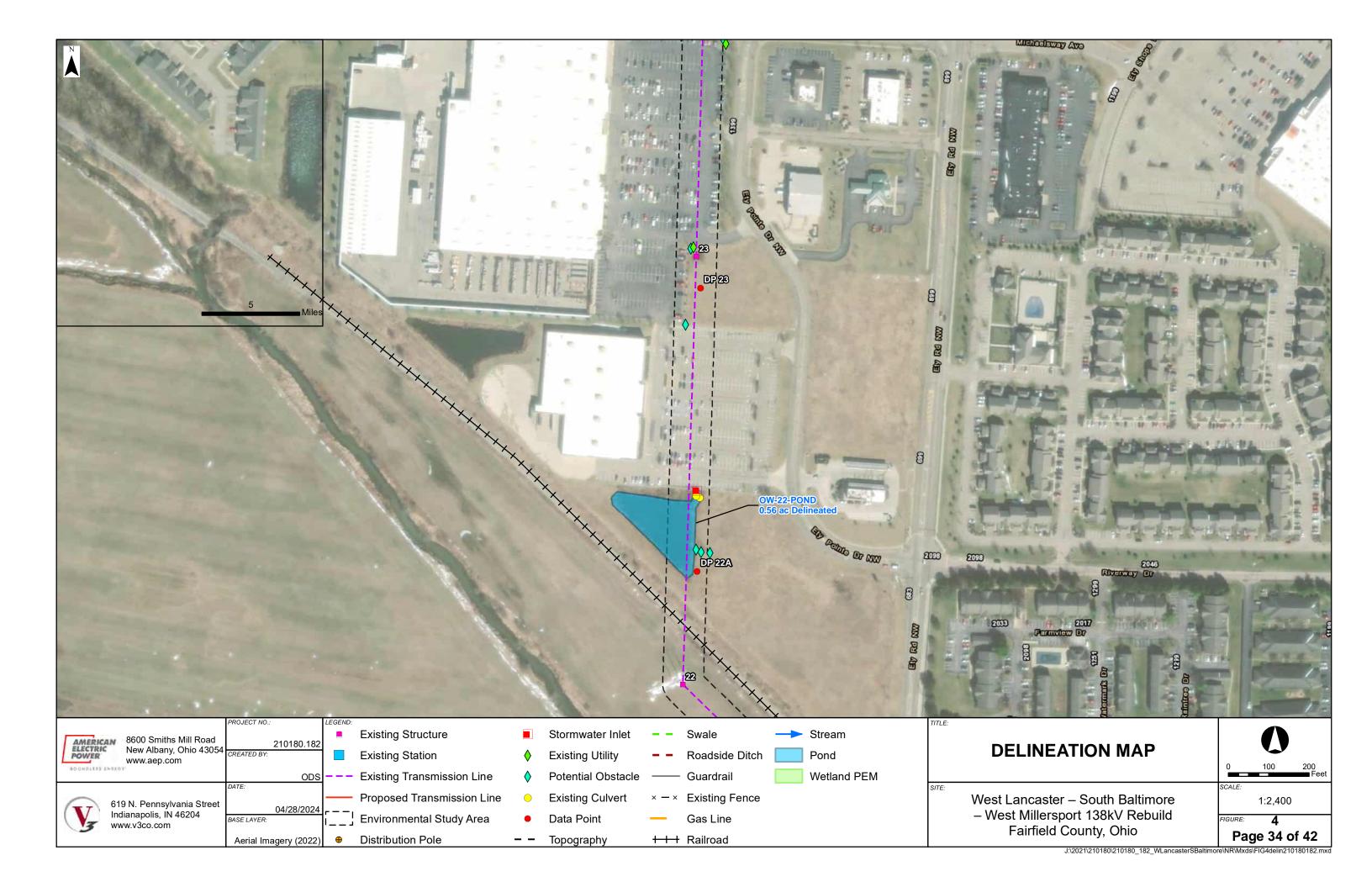


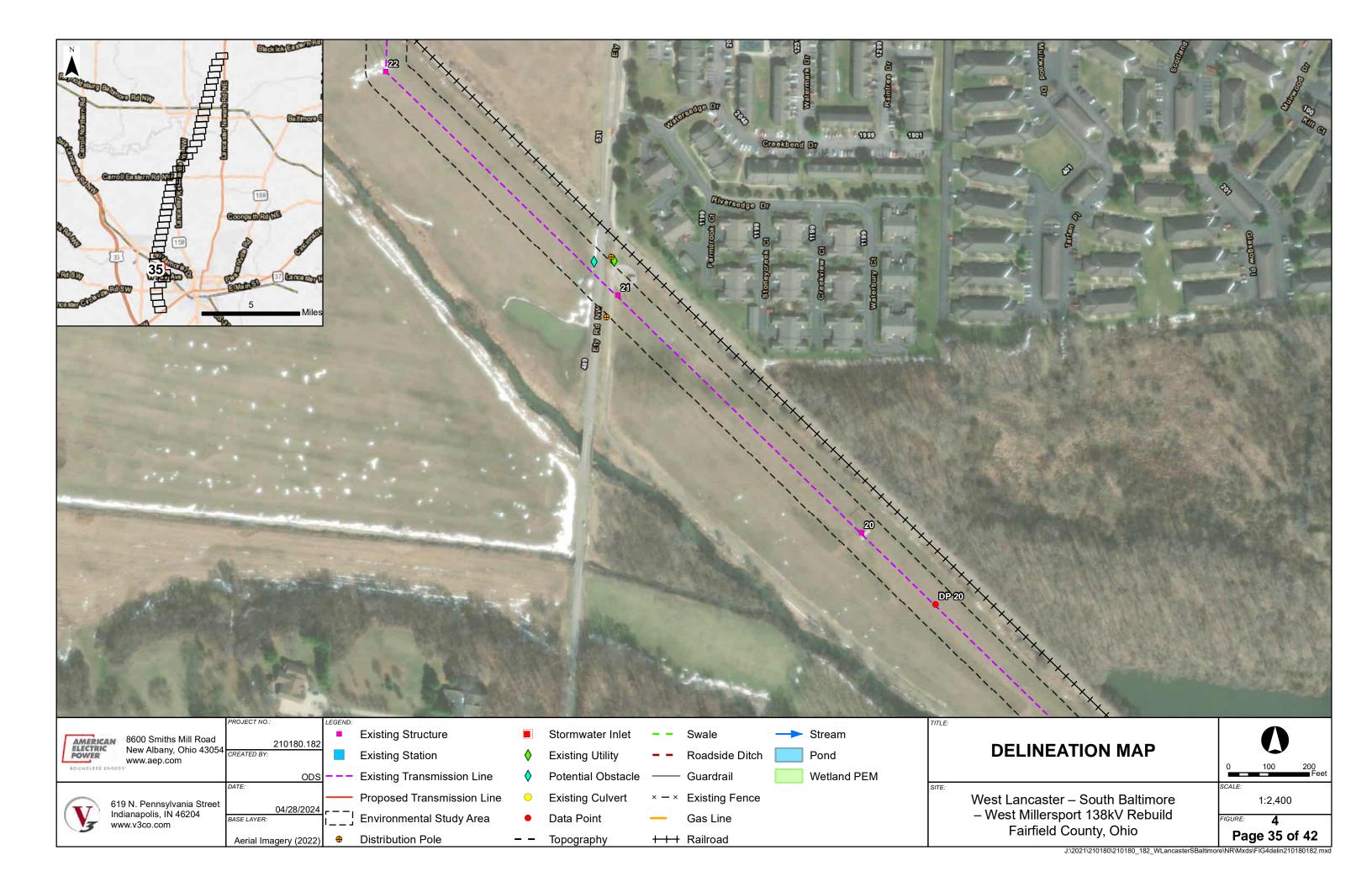


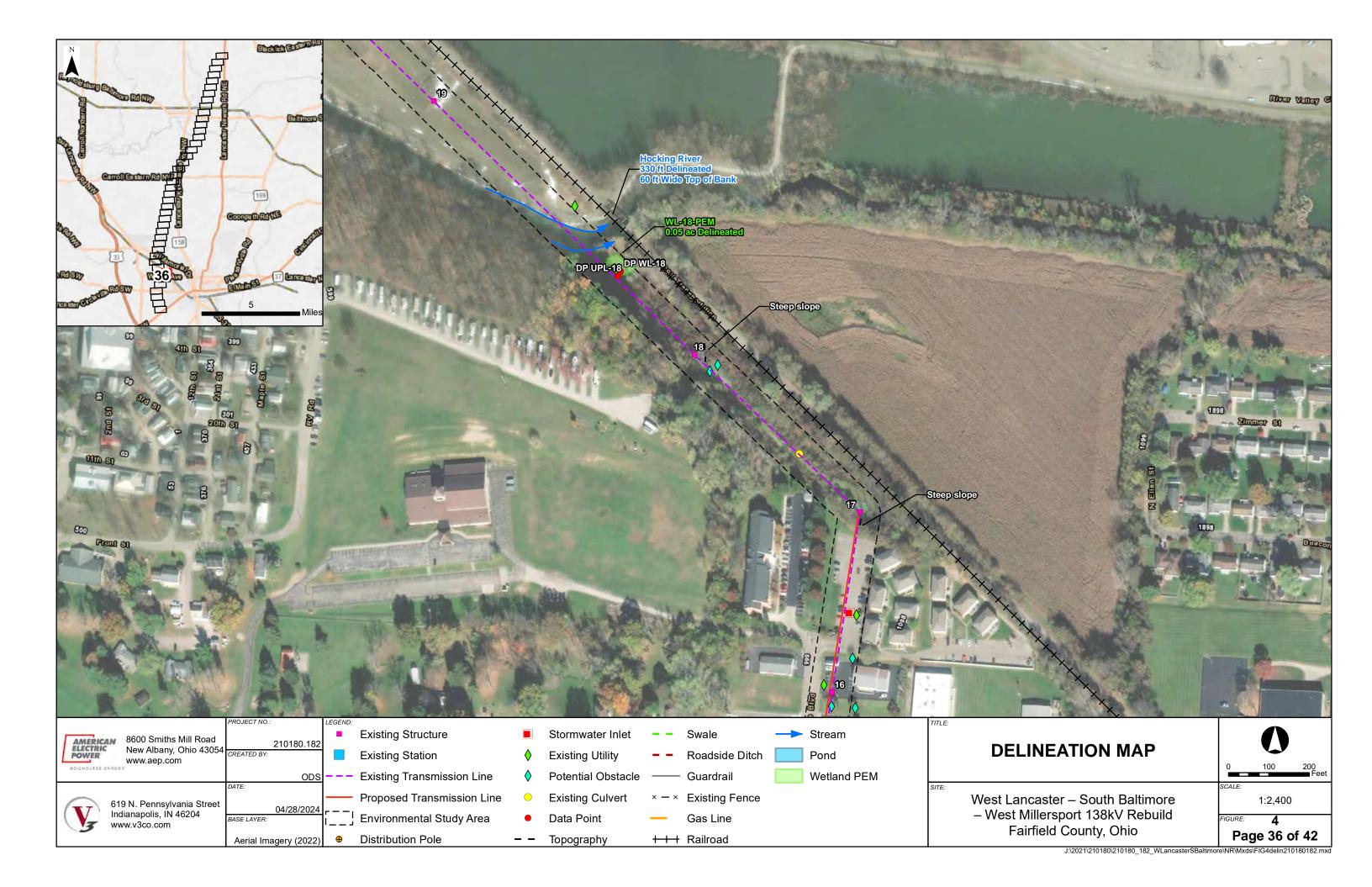


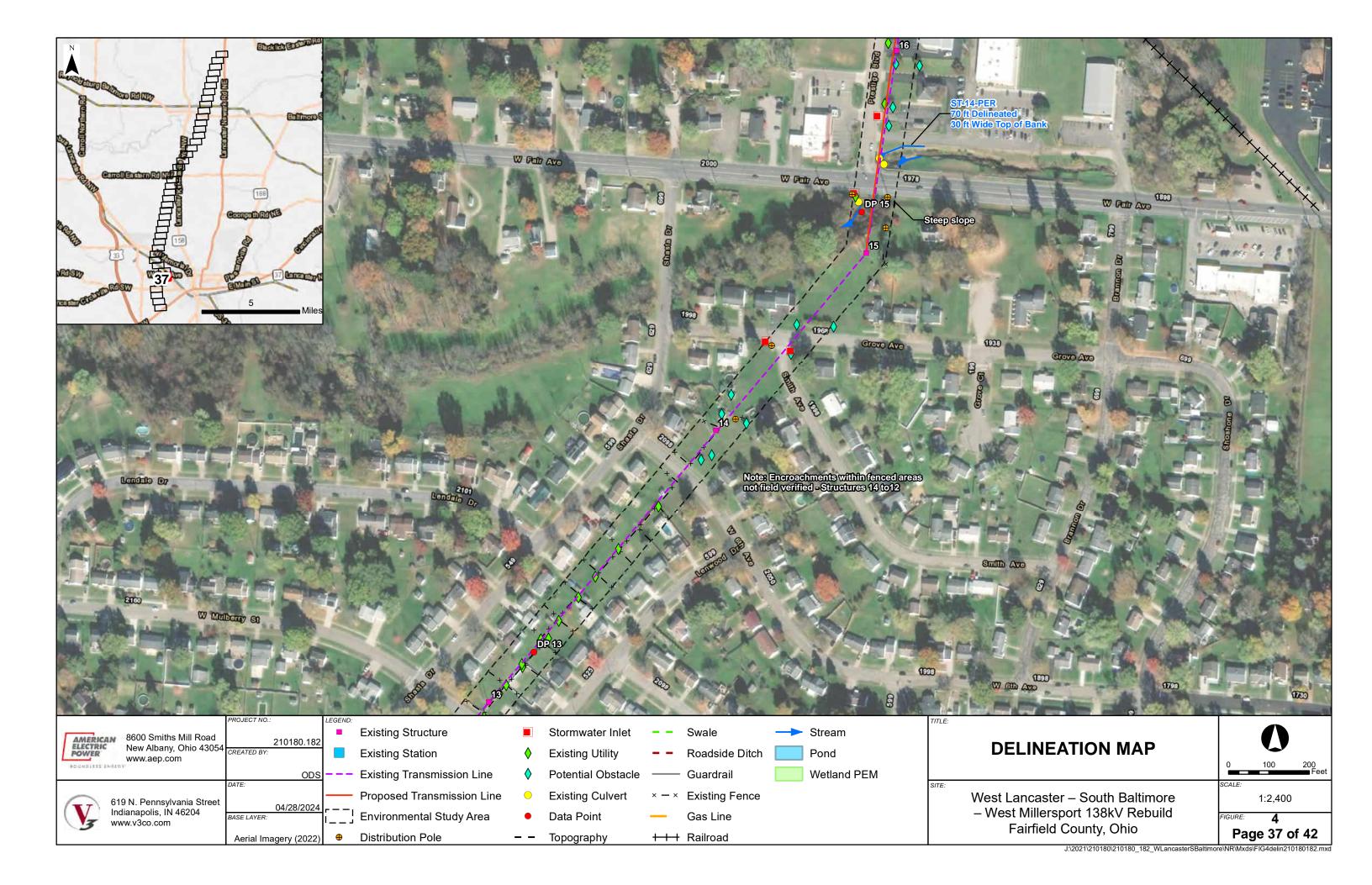


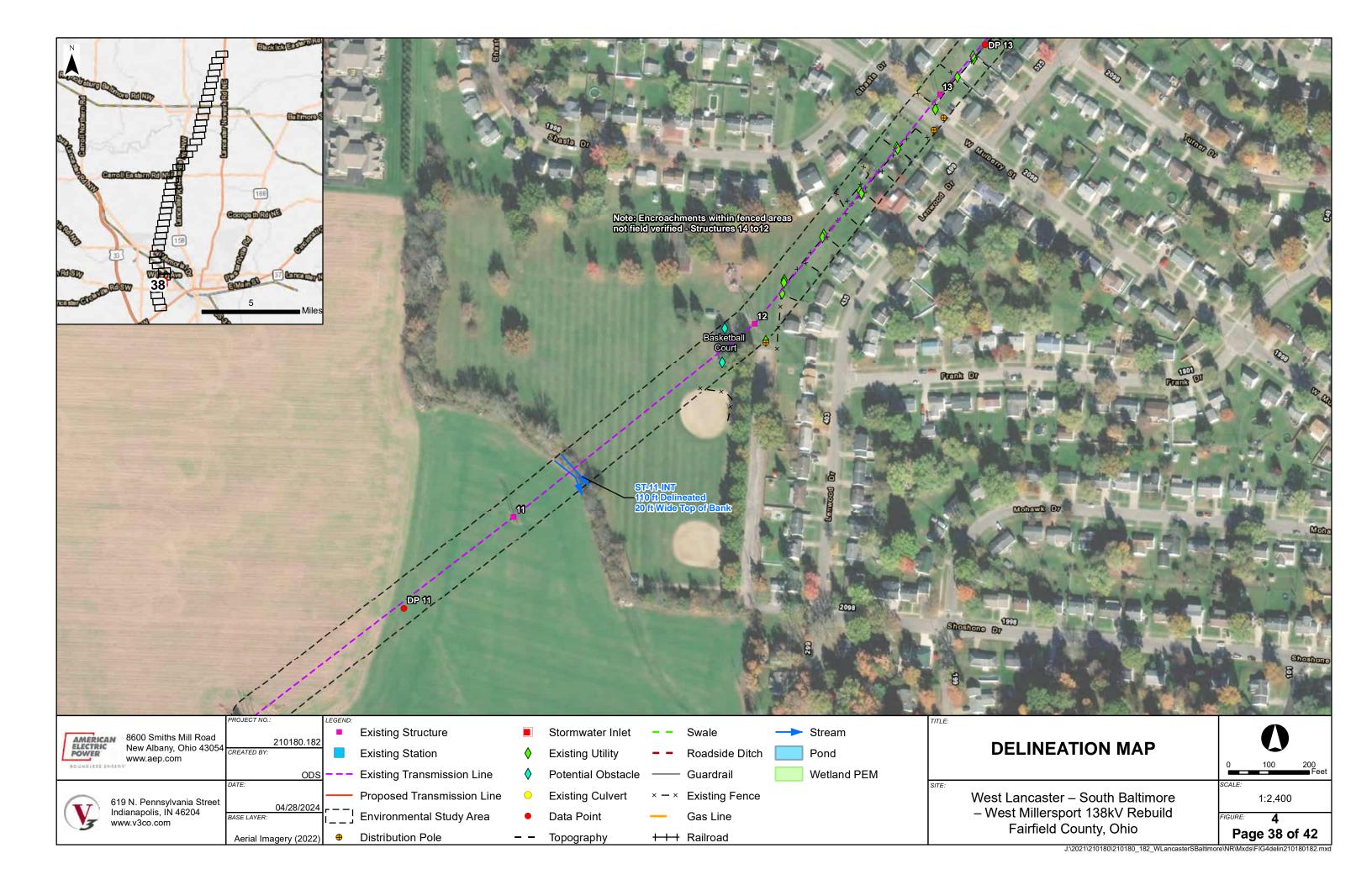


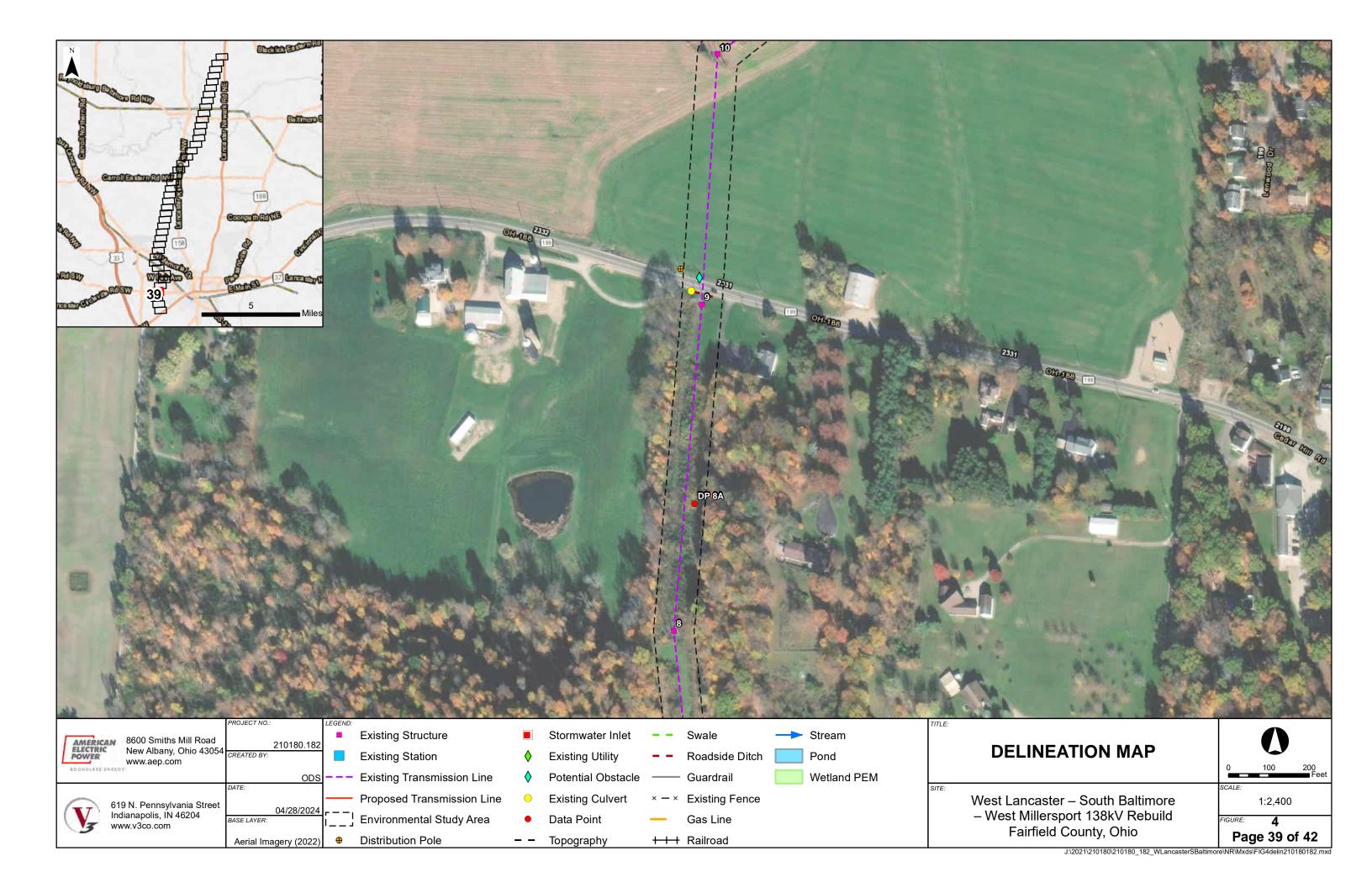


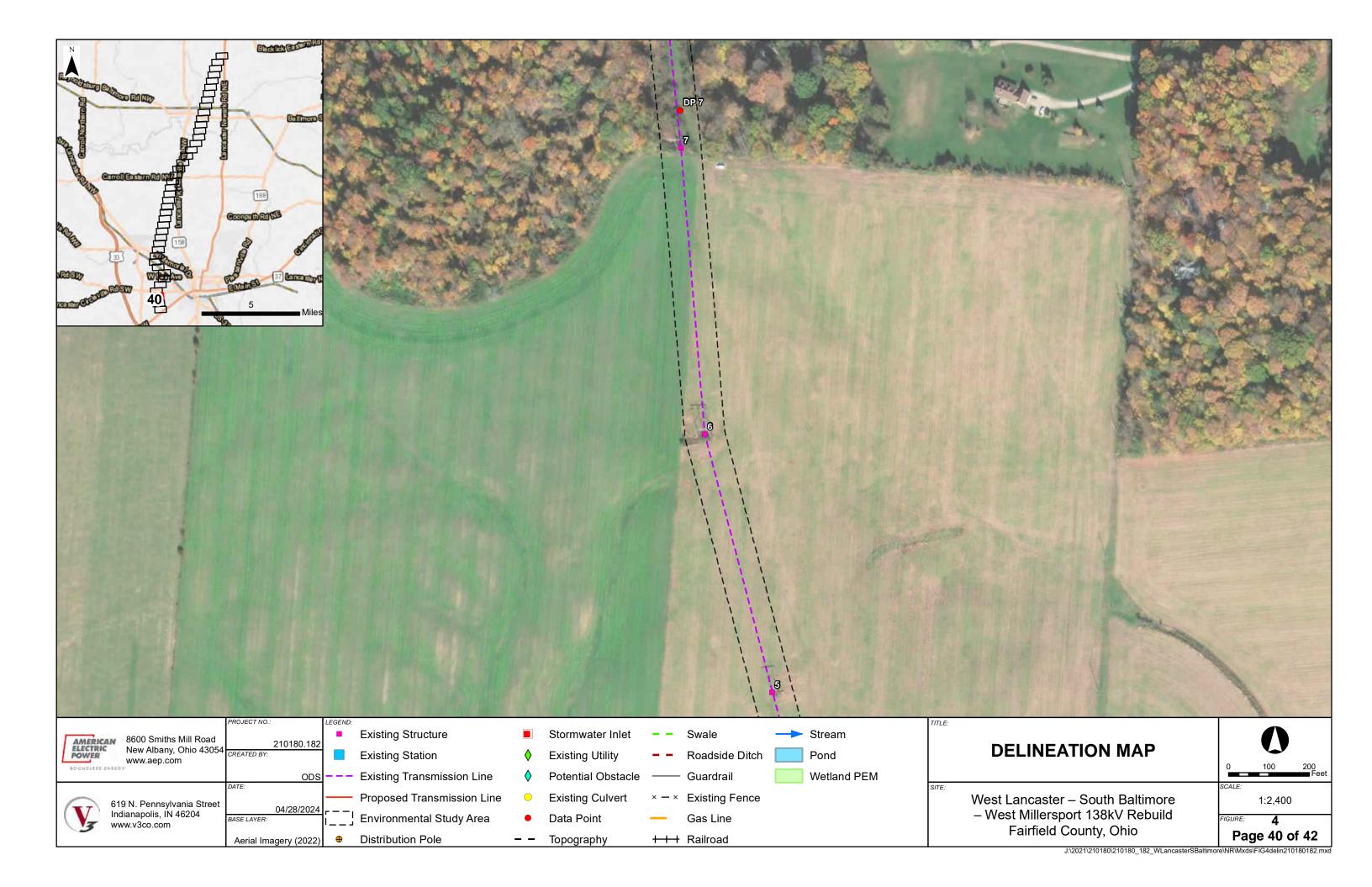


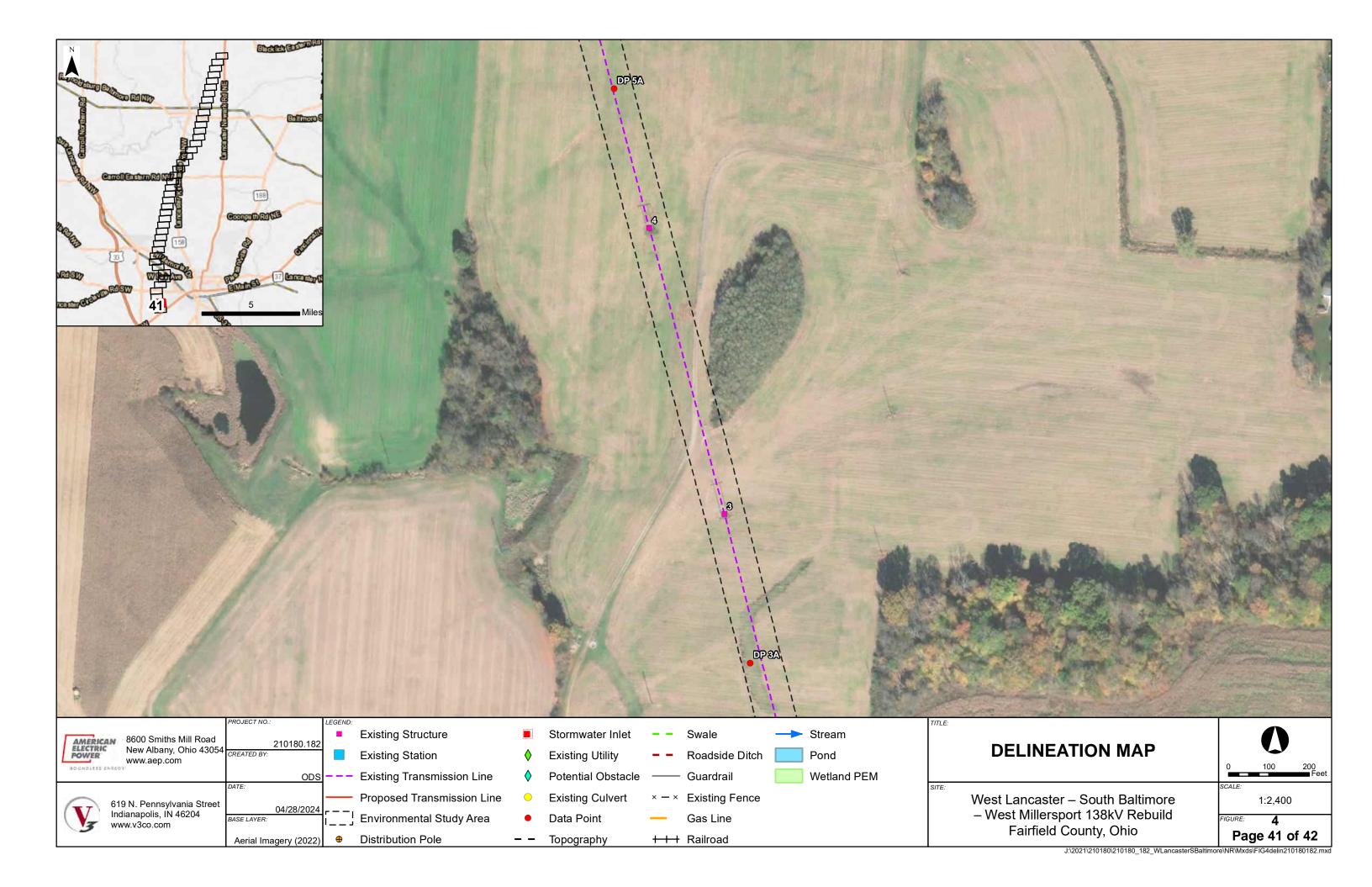


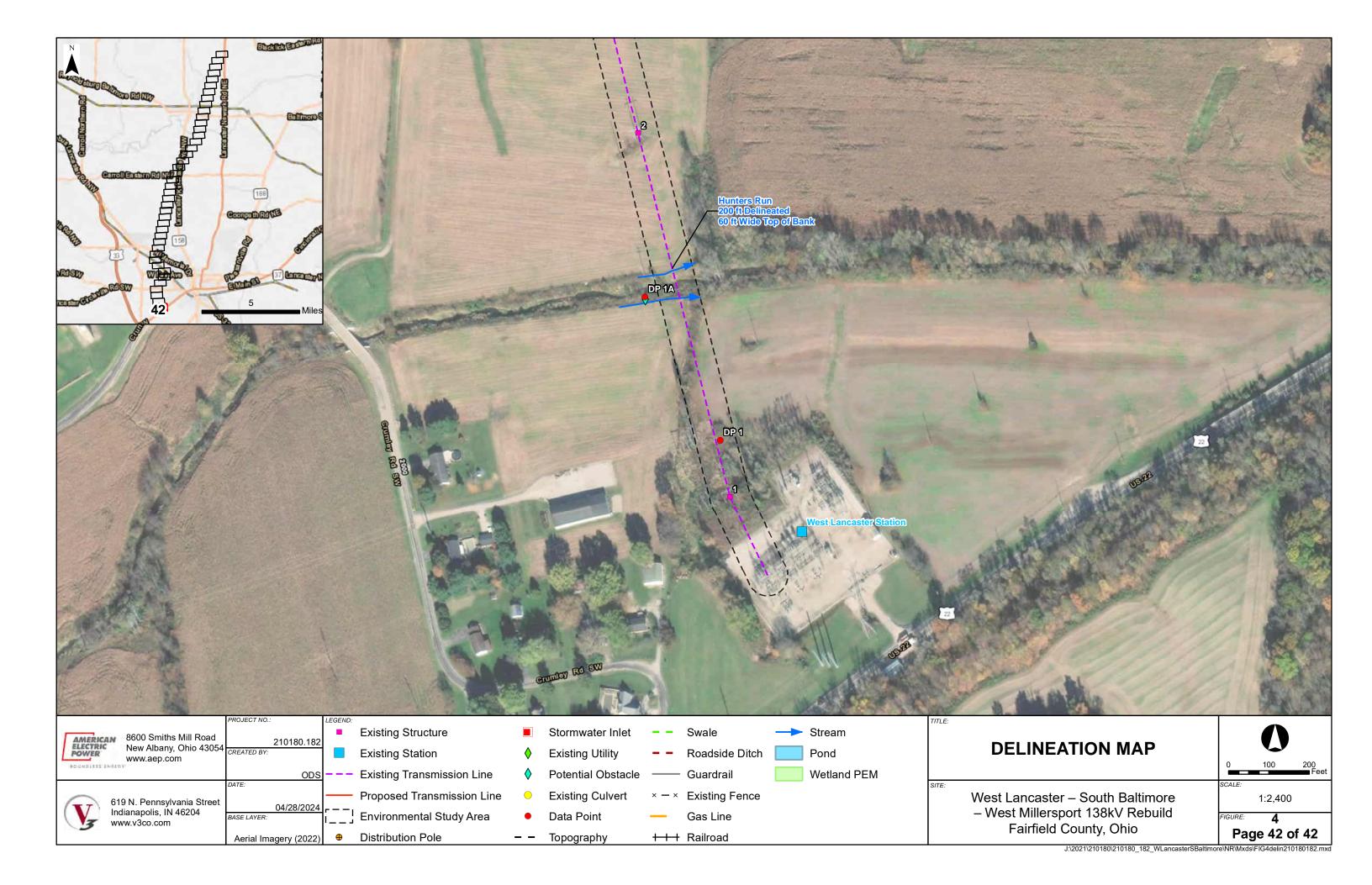












Appendix A

ETR Species Correspondence Letters





United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 Phone: (614) 416-8993 Fax: (614) 416-8994

In Reply Refer To: 03/18/2024 20:18:46 UTC

Project Code: 2024-0064491

Project Name: West Lancaster - South Baltimore - West Millersport 138kV Rebuild

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

Project code: 2024-0064491

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

Attachment(s):

Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 (614) 416-8993

PROJECT SUMMARY

Project Code: 2024-0064491

Project Name: West Lancaster – South Baltimore – West Millersport 138kV Rebuild Project Type: Transmission Line - Maintenance/Modification - Above Ground

Project Description: AEP proposes to rebuild the West Lancaster – South Baltimore – West

Millersport 138kV Transmission Line located in Liberty, Walnut, Greenfield, and Pleasant Township, Fairfield County Ohio. The project involves rebuilding approximately 14.4 miles of the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Lines.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.7632933,-82.63181485815679,14z



Counties: Fairfield County, Ohio

ENDANGERED SPECIES ACT SPECIES

Project code: 2024-0064491

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

MAMMALS

NAME STATUS

Indiana Bat *Myotis sodalis*

Endangered

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Northern Long-eared Bat Myotis septentrionalis

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Tricolored Bat *Perimyotis subflavus*Proposed

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/10515

Endangered

REPTILES

NAME STATUS

Eastern Massasauga (=rattlesnake) Sistrurus catenatus

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2202

Threatened

CLAMS

NAME STATUS

Round Hickorynut *Obovaria subrotunda*

Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/9879

Salamander Mussel Simpsonaias ambigua

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical

habitat.

Species profile: https://ecos.fws.gov/ecp/species/6208

Endangered

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Project code: 2024-0064491 03/18/2024 20:18:46 UTC

IPAC USER CONTACT INFORMATION

Agency: V3 Companies Name: Olivia Speckman

Address: 619 N Pennsylvania Street

City: Indianapolis

State: IN Zip: 46204

Email ospeckman@v3co.com

Phone: 3174230690

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994



April 17, 2024

Project Code: 2024-0064491

Dear Olivia Speckman:

The U.S. Fish and Wildlife Service (Service) has received your recent correspondence requesting information about the subject proposal. We offer the following comments and recommendations to assist you in minimizing and avoiding adverse impacts to threatened and endangered species pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq), as amended (ESA).

Federally Threatened and Endangered Species: The endangered Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) occur throughout the State of Ohio. The Indiana bat and northern long-eared bat may be found wherever suitable habitat occurs unless a presence/absence survey has been performed to document absence. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and breed that may also include adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, woodlots, fallow fields, and pastures. Roost trees for both species include live and standing dead trees ≥ 3 inches diameter at breast height (dbh) that have any exfoliating bark, cracks, crevices, hollows and/or cavities. These roost trees may be located in forested habitats as well as linear features such as fencerows, riparian forests, and other wooded corridors. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat. In the winter, Indiana bats and northern long-eared bats hibernate in caves, rock crevices and abandoned mines.

Seasonal Tree Clearing for Federally Listed Bat Species: The proposed project is in the vicinity of one or more confirmed records of Indiana bats and/or northern long-eared bats. Should the proposed project site contain trees ≥ 3 inches dbh, we recommend avoiding tree removal wherever possible. If any caves or abandoned mines may be disturbed, further coordination with this office is requested to determine if fall or spring portal surveys are warranted. If no caves or abandoned mines are present and trees ≥ 3 inches dbh cannot be avoided, we recommend removal of any trees ≥ 3 inches dbh only occur between October 1 and March 31. Seasonal clearing is recommended to avoid adverse effects to Indiana bats and northern long-eared bats. Please note that, because Indiana bat and/or northern long-eared bat presence has already been confirmed in the project vicinity, any additional summer surveys would not constitute presence/absence surveys for these species.

<u>Federally Proposed Species</u>: On September 14, 2022, the Service proposed to list the tricolored bat (*Perimyotis subflavus*) as endangered under the ESA. The bat faces extinction due to the impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. During spring, summer, and fall, this species roosts primarily among leaf clusters of live or recently dead trees, emerging at dusk to hunt for insects over waterways and forest edges. While white-nose syndrome is by far the most serious threat to the tricolored bat, other threats now have an increased significance due to the dramatic decline in the species' population. These threats include disturbance to bats in roosting, foraging, commuting, and over-wintering habitats. Mortality due to collision with wind turbines, especially during migration, has also been documented across their range. Conservation measures for the Indiana bat and northern longeared bat will also help to conserve the tricolored bat.

Section 7 Coordination: If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), then no tree clearing should occur on any portion of the project area until consultation under section 7 of the ESA, between the Service and the federal action agency, is completed. We recommend the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence. This letter provides technical assistance only and does not serve as a completed section 7 consultation document.

Stream and Wetland Avoidance: Over 90% of the wetlands in Ohio have been drained, filled, or modified by human activities, thus is it important to conserve the functions and values of the remaining wetlands in Ohio (https://epa.ohio.gov/portals/47/facts/ohio_wetlands.pdf). We recommend avoiding and minimizing project impacts to all wetland habitats (e.g., forests, streams, vernal pools) to the maximum extent possible in order to benefit water quality and fish and wildlife habitat. Additionally, natural buffers around streams and wetlands should be preserved to enhance beneficial functions. If streams or wetlands will be impacted, the U.S. Army Corps of Engineers should be contacted to determine whether a Clean Water Act section 404 permit is required. Best management practices should be used to minimize erosion, especially on slopes. Disturbed areas should be mulched and revegetated with native plant species. In addition, prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats.

Due to the project type, size, and location, we do not anticipate adverse effects to any other federally endangered, threatened, or proposed species, or proposed or designated critical habitat. Should the project design change, or additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, coordination with the Service should be initiated to assess any potential impacts.

Thank you for your efforts to conserve listed species and sensitive habitats in Ohio. We recommend coordinating with the Ohio Department of Natural Resources due to the potential for the proposed project to affect state listed species and/or state lands. Contact Mike Pettegrew, Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dnr.ohio.gov.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Erin Knoll

Field Office Supervisor

Ein Hell

cc: Nathan Reardon, ODNR-DOW Eileen Wyza, ODNR-DOW



Ohio Department of Natural Resources

MIKE DEWINE, GOVERNOR

MARY MERTZ, DIRECTOR

Office of Real Estate
Tara Paciorek, Chief
2045 Morse Road – Bldg. E-2
Columbus, Ohio 43229

Phone: (614) 265-6661 Fax: (614) 267-4764

April 26, 2024

Olivia Speckman V3 Companies 619 North Pennsylvania Street Indianapolis, Indiana 46204

Re: 24-0500_West Lancaster - South Baltimore - West Millersport 138kV Rebuild

Project: The proposed project involves rebuilding approximately 14.4 miles of the West Lancaster – South Baltimore – West Millersport 138 kV Transmission Lines.

Location: The proposed project is located in Liberty, Walnut, Greenfield, and Pleasant townships, Fairfield County, Ohio.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state, or federal agency nor relieve the applicant of the obligation to comply with any local, state, or federal laws or regulations.

Natural Heritage Database: The Natural Heritage Database has the following data within one mile of the project area:

Cerulean Warbler (Setophaga cerulea), SC Kidneyshell (Ptychobranchus fasciolaris), SC Great Blue Heron Rookery Appalachian oak forest plant community Oak-maple forest plant community

Conservation status abbreviations are as follows: E = state endangered; T = state threatened; P = state potentially threatened; SC = state species of concern; SI = state special interest; U = state status under review; X = presumed extirpated in Ohio; FE = federally endangered, and FT = federally threatened. Records for high quality plant communities indicate the presence of sites that are in our inventory of the best remaining examples of Ohio's pre-settlement ecosystems.

The review was performed on the specified project area as well as an additional one-mile radius. Records searched date from 1980. Features searched include locations of rare and endangered plants and animals determined to be of value to the conservation of their species, high quality plant communities, animal breeding assemblages, and outstanding geological features.

The species and features listed above are not recorded within the boundaries of the specified project area. However, please note that Ohio has not been completely surveyed and we rely on receiving information from many sources. Therefore, a lack of records for an area is not a statement that rare species or unique features are absent from that area.

Fish and Wildlife: The Division of Wildlife (DOW) has the following comments.

The DOW recommends that impacts to streams, wetlands and other water resources be avoided and minimized to the fullest extent possible, and that Best Management Practices be utilized to minimize erosion and sedimentation.

The project is within the vicinity of records for the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. Because presence of state endangered bat species has been established in the area, summer tree cutting is not recommended, and additional summer surveys would not constitute presence/absence in the area. However, limited summer tree cutting inside this buffer may be acceptable after further consultation with DOW (contact Eileen Wyza at Eileen.Wyza@dnr.ohio.gov).

In addition, the entire state of Ohio is within the range of the Indiana bat (*Myotis sodalis*), a state endangered and federally endangered species, the northern long-eared bat (*Myotis septentrionalis*), a state endangered and federally endangered species, the little brown bat (*Myotis lucifugus*), a state endangered species, and the tricolored bat (*Perimyotis subflavus*), a state endangered species. During the spring and summer (April 1 through September 30), these bat species predominately roost in trees behind loose, exfoliating bark, in crevices and cavities, or in the leaves. However, these species are also dependent on the forest structure surrounding roost trees. The DOW recommends tree cutting only occur from October 1 through March 31, conserving trees with loose, shaggy bark and/or crevices, holes, or cavities, as well as trees with DBH ≥ 20 if possible.

The DOW also recommends that a desktop habitat assessment is conducted, followed by a field assessment if needed, to determine if a potential hibernaculum is present within the project area. Direction on how to conduct habitat assessments can be found in the current USFWS "<u>RANGE-WIDE INDIANA BAT & NORTHERN LONG-EARED BAT SURVEY GUIDELINES</u>." If a habitat assessment finds that a potential hibernaculum is present within 0.25 miles of the project area, please send this information to Eileen Wyza for project recommendations. If a potential or known hibernaculum is found, the DOW recommends a 0.25-mile tree cutting and subsurface disturbance buffer around the hibernaculum entrance, however, limited summer or winter tree cutting may be acceptable after consultation with the DOW. If no tree cutting or subsurface impacts to a hibernaculum are proposed, this project is not likely to impact these species.

This project must not have an impact on native mussels. This applies to both listed and non-listed species, as all species of mussel are protected in Ohio. Per the Ohio Mussel Survey Protocol (2022), all Group 2, 3, and 4 streams (Appendix A) require a mussel survey. Per the Ohio Mussel Survey Protocol, Group 1 streams (Appendix A) and unlisted streams with a watershed of 5 square miles or larger above the point of impact should be assessed using the Reconnaissance Survey for Unionid Mussels (Appendix B) to determine if mussels are present. Mussel surveys may be recommended for these streams as well. Therefore, if in-water work is planned in any stream that meets any of the above criteria, the DOW recommends the applicant provide information to indicate no mussel impacts will occur. If this is not possible, the DOW recommends a professional malacologist conduct a mussel survey in the project area. If mussels that cannot be avoided are found in the project area, the DOW recommends a professional

malacologist collect and relocate the mussels to suitable and similar habitat upstream of the project site. Mussel surveys and any subsequent mussel relocation should be done in accordance with the Ohio Mussel Survey Protocol. If there is no in-water work proposed, impacts to mussels are not likely.

The project is within the range of the northern brook lamprey (*Ichthyomyzon fossor*), a state endangered fish, and the popeye shiner (*Notropis ariommus*), a state endangered fish. The DOW recommends no inwater work in perennial streams from March 15 through June 30 to reduce impacts to indigenous aquatic species and their habitat. If no in-water work is proposed in a perennial stream, this project is not likely to impact these or other aquatic species.

The project is within the range of the northern harrier (*Circus hudsonius*), a state endangered bird. This is a common migrant and winter species. Nesters are much rarer, although they occasionally breed in large marshes and grasslands. Harriers often nest in loose colonies. The female builds a nest out of sticks on the ground, often on top of a mound. Harriers hunt over grasslands. If this type of habitat will be impacted, construction should be avoided in this habitat during the species' nesting period of April 15 through July 31. If this habitat will not be impacted, this project is not likely to impact this species.

Due to the potential of impacts to federally listed species, as well as to state listed species, we recommend that this project be coordinated with the US Fish & Wildlife Service.

Water Resources: The Division of Water Resources has the following comment.

The <u>local floodplain administrator</u> should be contacted concerning the possible need for any floodplain permits or approvals for this project.

ODNR appreciates the opportunity to provide these comments. Please contact Mike Pettegrew at mike.pettegrew@dnr.ohio.gov if you have questions about these comments or need additional information.

Mike Pettegrew Environmental Services Administrator

Appendix B

SITE Photographs



Photo: 1 WL-12-PEM

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 2 WL-12-PEM

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 3 WL-12-PEM

<u>Direction of View:</u> South

<u>Date:</u> 27 March 2024



Photo: 4 WL-12-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 5
DP UPL-12

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 6
DP UPL-12

Direction of View:

West

Date:

27 March 2024



Photo: 7 WL-10-PEM

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 8 WL-10-PEM

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 9 WL-10-PEM

<u>Direction of View:</u> South



Photo: 10 WL-10-PEM

<u>Direction of View:</u> West

<u>Date:</u>

27 March 2024



Photo: 11 DP UPL-10

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 12 DP UPL-10

<u>Direction of View:</u> South



Photo: 13 WL-5-PEM

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 14 WL-5-PEM

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 18 WL-5-PEM

<u>Direction of View:</u> Southwest

Date:



Photo: 16 WL-5-PEM

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 17 DP UPL-5

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 18 WL-68-PEM

Direction of View:

North

Date:



Photo: 19 WL-68-PEM

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 20 WL-68-PEM

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 21 WL-68-PEM

Direction of View:

West

Date:



Photo: 22 DP UPL-68

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 23 DP UPL-68

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 24 WL-60-PEM DP WL-60

<u>Direction of View:</u> North



Photo: 25 WL-60-PEM DP WL-60

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 26 WL-60-PEM DP WL-60

<u>Direction of View:</u> South

Date: 27 March 2024

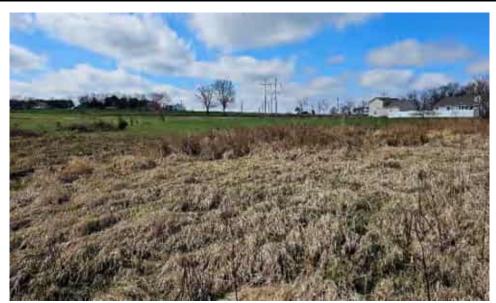


Photo: 27 WL-60-PEM DP WL-60

<u>Direction of View:</u> West



Photo: 28 DP UPL-60

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 29 DP UPL-60

<u>Direction of View:</u> Southwest

Date: 27 March 2024



Photo: 30 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> North



Photo: 31 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> East

Date: 27 March 2024



Photo: 32 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 33 WL-60-PEM DP WL-60-A

<u>Direction of View:</u> West



Photo: 34 DP UPL-60-A

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 35 WL-50-PEM

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 36 WL-50-PEM

Direction of View:

East

Date:



Photo: 37 WL-50-PEM

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 38 WL-50-PEM

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 39 DP UPL-50

Direction of View:

East

Date:



Photo: 40 DP UPL-50

<u>Direction of View:</u> West

Date:

27 March 2024



Photo: 41 WL-41-PEM

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 42 WL-41-PEM

<u>Direction of View:</u> East

Date:



Photo: 43 WL-41-PEM

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 44 WL-41-PEM

<u>Direction of View:</u> West

Date: 27 March 2024



Photo: 45
DP UPL-41

<u>Direction of View:</u> North

Date:



Photo: 46 DP UPL-41

<u>Direction of View:</u> Southwest

Date:

27 March 2024



Photo: 47 WL-18-PEM

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 48 WL-18-PEM

<u>Direction of View:</u> East

Date:



Photo: 49 WL-18-PEM

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 50 WL-18-PEM

Direction of View:

West

Date:

28 March 2024



Photo: 51
DP UPL-18

Direction of View:

East

Date:



Photo: 52 DP UPL-18

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 53 DP 33A

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 54 DP 33A

<u>Direction of View:</u> South

Date:



Photo: 55
DP 33

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 56 DP 33

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 57 DP 31

<u>Direction of View:</u> North



Photo: 58 DP 31

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 59 DP 28

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 60 DP 28

<u>Direction of View:</u> South

Date:



Photo: 61 DP 25

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 62 DP 25

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 63 DP 22

<u>Direction of View:</u> North

Date:



Photo: 64
DP 22

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 65 DP 19

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 66 DP 19

<u>Direction of View:</u> South

Date:



Photo: 67
DP 16

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 68 DP 16

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 69 DP 14

<u>Direction of View:</u> North

Date:



Photo: 70 DP 14

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 71 DP 12

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 72 DP 12

<u>Direction of View:</u> South

Date:



Photo: 73
DP 10

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 74 DP 10

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 75
DP 8

<u>Direction of View:</u> North



Photo: 76
DP 8

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 77 DP 6

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 78 DP 6

<u>Direction of View:</u> Southwest

Date:



Photo: 79
DP 4

<u>Direction of View:</u> Northeast

<u>Date:</u> 27 March 2024



Photo: 80 DP 4

<u>Direction of View:</u> Southwest

Date: 27 March 2024



Photo: 81

<u>Direction of View:</u> Northeast

<u>Date:</u> 27 March 2024



Photo: 82 DP 4A

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 83 DP 3

<u>Direction of View:</u> Northeast

Date: 27 March 2024



Photo: 84 DP 3

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 85

<u>Direction of View:</u> Northeast

Date:

27 March 2024



Photo: 86 DP 2

Direction of View:

Southwest

Date:

27 March 2024

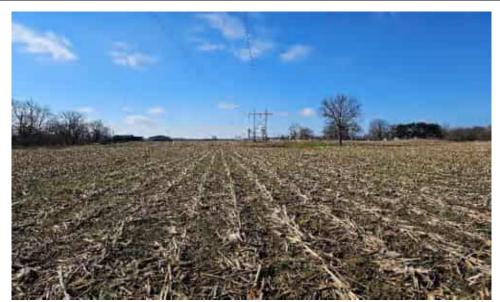


Photo: 87
DP 71

Direction of View:

North

Date:



Photo: 88 DP 71

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 89 DP 70

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 90 DP 70

<u>Direction of View:</u> South

Date:



Photo: 91
DP 68

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 92 DP 68

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 93 DP 63

<u>Direction of View:</u> North



Photo: 94 DP 63

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 95 DP 62A

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 96 DP 62A

<u>Direction of View:</u> South

<u>Date:</u> 27 March 2024



Photo: 97
DP 62

<u>Direction of View:</u> North

<u>Date:</u> 27 March 2024



Photo: 98 DP 62

<u>Direction of View:</u> South

Date: 27 March 2024



Photo: 99 DP 59

<u>Direction of View:</u> Northeast



Photo: 100 DP 59

<u>Direction of View:</u> Southwest

<u>Date:</u> 27 March 2024



Photo: 101 DP 57

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 102 DP 57

<u>Direction of View:</u> Southwest



Photo: 103 DP 52

<u>Direction of View:</u> East

Date:

27 March 2024



Photo: 104 DP 52

Direction of View:

West

Date:

27 March 2024



Photo: 105
DP 51

Direction of View:

Northwest

Date:



Photo: 106
DP 51

<u>Direction of View:</u> Southeast

Date:

27 March 2024



Photo: 107 DP 48

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 108 DP 48

Direction of View:

South

Date:



Photo: 109 DP 46

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 110 DP 46

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 111 DP 44

<u>Direction of View:</u> North

Date:



Photo: 112 DP 44

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 113 DP 42

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 114 DP 42

<u>Direction of View:</u> South

Date:



Photo: 115 DP 41

<u>Direction of View:</u> North

<u>Date:</u>

27 March 2024



Photo: 116 DP 41

<u>Direction of View:</u> South

<u>Date:</u>

27 March 2024



Photo: 117 DP 40

<u>Direction of View:</u> North

Date:



Photo: 118 DP 40

<u>Direction of View:</u> South

Date:

27 March 2024



Photo: 119 DP 39

<u>Direction of View:</u> North

Date: 27 March 2024



Photo: 120 DP 39

<u>Direction of View:</u> South

Date:



Photo: 121
DP 36

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 122 DP 36

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 123 DP 34

<u>Direction of View:</u> North

Date:



Photo: 124
DP 34

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 125 DP 32

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 126 DP 32

Direction of View:

West

Date:



Photo: 127 DP 31A

<u>Direction of View:</u> North

<u>Date:</u> 28 March 2024



Photo: 128 DP 31A

<u>Direction of View:</u> South

Date: 28 March 2024



Photo: 129 DP 26

<u>Direction of View:</u> North

Date: 28 March 2024



Photo: 130 DP 26

<u>Direction of View:</u> South

Date:

28 March 2024



<u>Photo: 131</u>

DP 23

Direction of View:

North

Date:

28 March 2024



Photo: 132 DP 23

Direction of View:

South

Date:



Photo: 133 DP 22

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 134 DP 22

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 135 DP 20

<u>Direction of View:</u> Northwest

Date:



Photo: 136 DP 20

<u>Direction of View:</u> Southeast

Date:

28 March 2024



Photo: 137 DP 15

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 138 DP 15

Direction of View:

South

Date:



Photo: 139
DP 13

<u>Direction of View:</u> Northeast

Date:

28 March 2024



Photo: 140 DP 13

Direction of View:

Southwest

Date:

28 March 2024



Photo: 141
DP 11

Direction of View:

North

Date:



Photo: 142 DP 11

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 143 DP 8A

<u>Direction of View:</u> North

Date: 28 March 2024



Photo: 144 DP 8A

<u>Direction of View:</u> South

<u>Date:</u>



Photo: 145
DP 7

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 146 DP 7

<u>Direction of View:</u> South

Date: 28 March 2024



Photo: 147 DP 5A

<u>Direction of View:</u> North

Date: 28 March 2024



Photo: 148 DP 5A

<u>Direction of View:</u> South

Date:

28 March 2024



Photo: 149 DP 3A

<u>Direction of View:</u> North

Date:

28 March 2024



Photo: 150 DP 3A

<u>Direction of View:</u> South

Date:



Photo: 151 DP 1A

<u>Direction of View:</u> East

Date:

28 March 2024



Photo: 152 DP 1A

Direction of View:

West

Date:

28 March 2024



Photo: 153 DP 1

Direction of View:

East

Date:



Photo: 154 DP 1

<u>Direction of View:</u> West

Date:

28 March 2024



Photo: 155 ST-31-PER

<u>Direction of View:</u> North

Date:

27 March 2024



Photo: 156 ST-31-PER

Direction of View:

South

Date:



Photo: 157 ST-25-PER

Direction of View:

East

Date:

27 March 2024



Photo: 158 ST-25-PER

Direction of View:

West

Date:

27 March 2024



Photo: 159 ST-15-PER

Direction of View:

East

Date:



Photo: 160 ST-15-PER

Direction of View:

Southwest

Date:

27 March 2024



<u>Photo: 161</u> Walnut Creek

Direction of View:

East

Date:

27 March 2024



Photo: 162 Walnut Creek

Direction of View:

West

Date:



Photo: 163 ST-2-PER

Direction of View:

East

Date:

27 March 2024



Photo: 164 ST-2-PER

Direction of View:

West

Date:

27 March 2024



Photo: 165 ST-68-INT

Direction of View:

East

Date:



Photo: 166 ST-68-INT

Direction of View:

West

<u>Date:</u>

27 March 2024



Photo: 167 ST-63-EPH

Direction of View:

Northeast

Date:

27 March 2024



Photo: 168 ST-63-EPH

Direction of View:

Southwest

Date:



Photo: 169 ST-55-INT

Direction of View:

East

Date:

27 March 2024



Photo: 170 ST-55-INT

Direction of View:

West

Date:

27 March 2024



Photo: 171 ST-53-INT

Direction of View:

North

Date:



Photo: 172 ST-53-INT

Direction of View:

South

Date:

27 March 2024



Photo: 173 ST-48-EPH

Direction of View:

Northwest

Date:

27 March 2024



Photo: 174 ST-48-EPH

Direction of View:

Southeast

Date:



Photo: 175 ST-44-INT

Direction of View:

East

Date:

27 March 2024



Photo: 176 ST-44-INT

Direction of View:

West

Date:

27 March 2024



Photo: 177 ST-44-EPH

Direction of View:

North

Date:



Photo: 178 ST-44-EPH

Direction of View:

South

Date:

27 March 2024



Photo: 179 ST-42-INT

Direction of View:

East

Date:

27 March 2024



Photo: 180 ST-42-INT

Direction of View:

West

Date:



Photo: 181 ST-14-PER

Direction of View:

East

Date:

28 March 2024



Photo: 182 ST-14-PER

Direction of View:

Southwest

Date:

28 March 2024



Photo: 183 Hocking River

Direction of View:

Northwest

Date:



Photo: 184
Hocking River

Direction of View:

Southeast

Date:

28 March 2024



Photo: 185 ST-11-INT

Direction of View:

Northwest

Date:

28 March 2024



Photo: 186 ST-11-INT

Direction of View:

Southeast

Date:



Photo: 187 Hunters Run

Direction of View:

Northwest

Date:

28 March 2024



Photo: 188 Hunters Run

Direction of View:

East

Date:

28 March 2024



Photo: 189 OW-32-POND

Direction of View:

East

Date:



Photo: 190 OW-32-POND

<u>Direction of View:</u> South

<u>Date:</u>

28 March 2024



Photo: 191 OW-22-POND

<u>Direction of View:</u> Northwest

Date:

28 March 2024



Photo: 192 OW-22-POND

<u>Direction of View:</u> South

Date:



Appendix C

Data Forms



Site: Client:		r-S.Baltimor	e-W.Millersport	City/County:		Fai	irfield County nship, Range:	_Date:	27 Marc Sec	• <u>h 2024</u> Data I S19, T 16N, R	
Invest	tigator(s):	N. Houk, N					Landform		erraces	Local Relief	Concave
Slope Soil M		1-3 Canal silt le	Lat. 3 oam, 0 to 2 perc	39.847477 Pent slones	Long.		-82.586566	_Datum	NAD83	NWI Class:	PEM
COILIV	Climatic/hydrolo	gic condition	ns typical for tim	e of year?	Y/N	Υ					
	Vegetation		,	N or Hy	drology	N	significantly disturbed				
Are N	Vegetation ormal Circumst		,	N or Hy	drology No	N	naturally problematic				
	MARY OF FIND	INGS		-	_ 110						
	Hydr		etation Present?		No				DD 1/11		
	,		ric Soil Present? Irology Present?		_No No			Yes	x No	a Wetland?	
Rema	ırks:		e.egy : :eee	100 X	110			1.00	х 110		
VEGE	TATION			A h a a l t a . 0/	D						
Tree S	Stratum_	Plot size:	30'	Absolute % Cover		inant cies	Indicator Statu	IS			
1.				00.0.	Opo	0.00				minance Test \	
2.										f dominant spec	
3. 4.					-					FACW, or FAC: ber of dominant	
5.									species ad	cross all strata:	2
Chrub	Ctratum	Dist size.	451	0	Total C	over				f dominant spec	
1.	Stratum	Plot size:	15							FACW, or FAC: ce Index Works	
2.									Total	% cover of:	
3.									OBL spec FACW spe		x 1 80
4. 5.									FAC spec		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	_			0	Total C	over			FACU spe	cies 0	x 4
Herb S	<u>Stratum</u> Leersia oryzo	Plot size:	5'	80	,	v	OBL	1	UPL speci		_ x 5(120
2.	Elymus virgin			20		<u>Y</u>	FACW	1 2	100	Prevalenc	
3.										rtic Vegetation	
4. 5.					-					oid Test for Hydi ninance Test is	
6.										valence Index is	
7.									Mor	phological Adap	otations*
8.				100	Total C	over				elematic Hydrophy	· ·
Wood	ly Vine Stratum	Plot size:	30'	100	_ TOTAL C	ovei				tors of hydric so	
1.										logy must be pr disturbed or pro	
2.				0	Total C	OVAT				phytic Vegetat	
	Remarks:				Total O	OVCI			Yes		ion i resent.
SOIL	D-	efile Deceri	ntion. (Deceri	4	d - d + e		mont the indicator or	nfirm		of indicators \	
	Depth		Matrix	be to depth n	eeaea t	o docui	ment the indicator or Redox Featu		absence	or indicators.)	
	(inches)	Color	%	Color			Loc**		ture	Remarks	
	0-18	10YR 4/1	95	10YR 5/6	5	С	M	Si (CL		
	*Tvr00:	C-Concentr	ation D-Donloti	ion PM-Pod	lood Mot	riv CC	=Coated Sand grains	**! 0001	ion: DI _Do	ore Lining, M=M	otriv
	туре.	C=Concenti	ation, D=Depleti	ion, Rivi=Reuc			=Coated Sand grains _	Lucai	1011. FL=FC	ore ciriling, ivi=ivi	allix
	Histosol (A1)				Sandy I	Mucky I	Mineral (S1)			lox Dark Surfac	` '
	_ Histic Epipedo Black Histic (/						eat or Peat Matrix (S4)		'	leted Dark Surf lox Depressions	` '
	_ Black Histic (/ Hydrogen Sul				Sandy l					ors for Problema	
	Stratified Lay	ers (À5)			Strippe	d Matrix	x (S6)		Coa	st Prairie Redo	x (A16)
	_ 2 cm Muck (A		inna (A11)				Mineral (F1)		Iron	-Manganese Ma y Shallow Dark	asses (F12)
	Depleted Belo		ace (ATT)	X	Deplete		l Matrix (F2) ix (F3)		Oth		Surface (F12)
Restr	ictive Layer (if		Type:	χ	200.000	Ju man	(1 0)		Otti	CI .	
	Damada		Depth (Inches)				Hydric Soil Pro	esent?	Yes	x No	
	Remarks:										
	nd Hydrology										
	Conform Water		nary Indicators				- (DO)			condary Indicat	tors
X	Surface Wate High Water T				r Stained ic Fauna		s (B9)			oil Cracks (B6) Patterns (B10)	
X	Saturation (A:				Aquatic F		B14)			on Water Table	(C2)
	Water Marks				gen Sulf					Burrows (C8)	(00)
	Sediment Dep Drift Deposits						es on Living Roots d Iron (C4)	-		i Visible on Aeri r Stressed Plant	al Imagery (C9)
L	Algal Mat or 0	Crust (B4)		Recer	nt Iron R	eductio	n in Tilled Soil (C6)	Х	Geomorph	nic Position (D2)	
	Iron Deposits		al las a (B=)	Thin N	Muck Su	rface (C	C7)	Х	FAC-Neut	ral Test (D5)	
	Inundation Vis Sparsely Veg		al Imagery (B7)	Guage Other	e or Wel	ı Data ((PD)				
Field	Observations:			Yes x	No		Depth (inches) 1	 			
			le Present?	Yes x	No		Depth (inches) 0	Hydro		ors Present?	
Descr	ibe Recorded F	Saturation Data (stream		Yes x ing well. aeria	No I photos.	previo	Depth (inches) 0 us inspections), if avail	lable:	Yes	s x No	

Site: Client:		r-S.Baltimor AEP	e-W.Millersport		Section		irfield County nship, Range:	_Date:		<u>h 2024</u> D S19. T 16N		UPL-12
Invest	igator(s):	N. Houk, N				•	_ Landforr	n Te	erraces	Local Re	elief (Convex
Slope		1-3	Lat. 3 oam, 0 to 2 perd	39.847526	Long.		-82.586522	Datum	NAD83	NWI Cla	ISS:	N/A
			ns typical for tim		Y/N	Υ						
	Vegetation				drology	N	significantly disturbed					
Are No	Vegetatior ormal Circumst		,	N or Hy es x	drology No	N	naturally problematic					
	MARY OF FIND	INGS			_							
	Hydr		etation Present? ric Soil Present?		No No	X		Is the	DP within	a Wetland	2	
			rology Present?		No	X		Yes	No	X		
Rema	rks: TATION											
		District	201	Absolute %	Dom	inant	In dianta a Otat					
	Stratum_	Plot size:	30	Cover	Spe	ecies	Indicator Stat	us	_			
1. 2.										minance To f dominant		at
3.									are OBL, I	FACW, or F	AC:	1
4. 5.										ber of domi cross all str		4
J.	-		 ,	0	Total C	over				dominant		at
Shrub 1.	Stratum Rosa multifloi	Plot size:	15'	8	,	v	FACU	4		FACW, or F ce Index W		
2.	Rubus allegh			2		<u>Y</u>	FACU	4		% cover of:		
3.									OBL speci		<u>0</u> x 1	0
4. 5.					-				FACW speci		0 x 2 25 x 3	
				10	Total C	over			FACU spe		85 x 4	340
Herb S	Stratum Solidago cana	Plot size: adensis	5'	75	,	Y	FACU	4	UPL speci Tot		<u>0</u> x 5	<u>0</u> 415
2.	Apocynum ca	nnabinum		20		Y	FAC	3		Preva	lence Inde	ex: 3.77
3. 4.	Vernonia giga	antea		5		N	FAC	3		tic Vegeta id Test for		
5.			·						Don	ninance Te	st is >50%	-
6. 7.							-			valence Ind phological		
8.										lematic Hydr		
\\\ood	y Vine Stratum	Plot cizo:	30'	100	Total C	over				tors of hydi		
1.	y vine Stratum	_ FIUL SIZE.	30						,	logy must b	•	
2.				0	Total C					disturbed or phytic Vec	•	
	Remarks:			0	Total C	ovei			Yes	. , .	•	resent:
SOIL	D	ofilo Docori	ntion: /Docaril	no to donth n	andad t	o doou	ment the indicator or	oonfirm	absonos	of indicate	ro \	
	Depth		Matrix	be to depth in	eeueu ii	o docu	Redox Feat		absence	oi indicato	15.)	
	(inches)	Color	%	Color	%	Type ³	* Loc**		ture	Rema	rks	
	0-13 13-18	10YR 4/1 10YR 4/1	100 95	10YR 5/6	5	С	M	Si C				
	*Type:	C=Concentr	ation, D=Deplet	ion, RM=Redu			=Coated Sand grains	**Locat	ion: PL=Po	re Lining, N	Л=Matrix	
	Histosol (A1)						ndicators: Mineral (S1)		Red	lox Dark Su	rface (F6)	1
	Histic Epipedo				5cm M	ucky Pe	eat or Peat		Dep	leted Dark	Surface (F	
	Black Histic (A Hydrogen Sul				Sandy Sandy		Matrix (S4) (S5)			lox Depress ors for Prob		dric Soils
	Stratified Laye	ers (À5)			Strippe	d Matri	x (S6)		Coa	st Prairie R	Redox (A16	6)
	2 cm Muck (A Depleted Belo		ace (A11)		Loamy	Mucky	Mineral (F1) I Matrix (F2)			-Manganes		
	Thick Dark Su		ace (ATT)		Deplete				Oth	,	ark Surial	Ge (F12)
Restri	ictive Layer (if	observed):					Uvdria Cail D		Vaa	N		
	Remarks:		Depth (Inches)	•			Hydric Soil P	esent	Yes	N	o x	
	OLOGY nd Hydrology	Indicators										
vvelia	na nyarology		nary Indicators	(check all th	at apply	/)			Sec	ondary Inc	dicators	
	Surface Wate	r (A1)	•	Wate	Stained	d Leave				oil Cracks (
	High Water Tage Saturation (A:				ic Fauna Aquatic I					Patterns (B on Water Ta		
	Water Marks	(B1)		Hydro	gen Sulf	fide Od	or (C1)		Crayfish B	urrows (C8	3)	(- -)
	Sediment Deposits						es on Living Roots d Iron (C4)			Visible on Stressed F		
	Algal Mat or C	Crust (B4)		Recer	nt Iron R	eductio	on in Tilled Soil (C6)		Geomorph	nic Position	(D2)	,
<u> </u>	Iron Deposits		al Imagery (B7)		/luck Su e or Wel			-	FAC-Neut	ral Test (D5	i)	
	Sparsely Veg	etated Conc	ave Surface	Other	J 01 VVEI	Dala (
Field	Observations:		ater Present? le Present?	Yes Yes	No No	X	Depth (inches) Depth (inches)	اعراطاهما	lov Indiast	ors Preser		
L		Saturation	Present?	Yes	No	X X	Depth (inches)		ioy indicat Yes			
Descri	ihe Recorded D					nrevio	us inspections) if ava	ilable.			_	

Site: Client:		r-S.Baltimor AEP	e-W.Millersport	City/County:		Fai	irfield County nship, Range:	_Date:		• <u>h 2024 _</u> Data Po S25, R 16N, R 19	
Invest	tigator(s):	N. Houk, N				,	Landform	·	rrances	Local Relief	Concave
Slope Soil M		1-3 Canal silt I	Lat. 3 oam, 0 to 2 perc	39.841685 cent slopes	Long.		-82.589005	Datum	NAD83	_ NWI Class: _	PEM
	Climatic/hydrolo	gic condition	ns typical for tim	e of year?	Y/N	Υ					
	Vegetation Vegetation			N or Hy N or Hy	/drology /drology	N	significantly disturbed naturally problematic				
	ormal Circumsta	ances Prese		'es x							
SUMN	MARY OF FIND Hydro		etation Present?	Yes x	No			1			
	-	Hydi	ric Soil Present?	Yes x	_No			Is the I	DP within	a Wetland?	
Rema		Vetland Hyd	Irology Present?	Yes x	No			Yes	x No		
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute %	Domi		Indicator Statu	IS			
1.				Cover	Spe	cies			Do	minance Test W	orksheet
2.									Number of	f dominant specie	
3. 4.					_					FACW, or FAC: ber of dominant	
5.					_				species ad	cross all strata:	2
Chrub	Stratum	Diet eizer	15'	0	Total Co	over	· ·			dominant specie	es that 100.00
<u> </u>	Stratum	Plot size:	15							FACW, or FAC: ce Index Worksh	eet
2.					-					% cover of:	
3. 4.					-				OBL speci FACW spe		x 1 0 x 2 50
5.	-						· 		FAC spec	ies <u>15</u>	x 3 45
Herb S	Stratum	Plot size:	5'	0	_Total Co	over			FACU speci		x 4 x 5 0
1.	Elymus virgini	cus		25		<u> </u>	FACW	2	Tot	al 40	95
2. 3.	Barbarea vulg	aris		15		<u> </u>	FAC	3	Hydronby	Prevalence rtic Vegetation Ir	
4.									Rap	oid Test for Hydro	phytic Veg.
5. 6.					_					ninance Test is > valence Index is •	
7.					-		-			phological Adapta	
8.				40	Tatal C					elematic Hydrophytic	•
Wood	y Vine Stratum	Plot size:	30'	40	_Total Co	over				tors of hydric soil	
1.			·		_				,	logy must be pres disturbed or probl	•
2.	-			0	Total Co	over				phytic Vegetation	
	Remarks:			-					Yes		
SOIL	Pro	ofile Descri	ntion: (Descri	be to depth n	eeded to	docu	ment the indicator or	confirm	absence	of indicators.)	
	Depth		Matrix				Redox Featu	ıres		•	
	(inches) 0-18	Color 10YR 3/1	% 95	Color 10YR 5/6	5	Type ³	* Loc** M	Si C	cure	Remarks	
	0.10	10111071		10111070			IVI	O. C			
	*Type: 0	C=Concentr	ation, D=Depleti	ion, RM=Redu			=Coated Sand grains ndicators:	**Locati	ion: PL=Po	re Lining, M=Mat	rix
	Histosol (A1)						Mineral (S1)		x Red	lox Dark Surface	(F6)
	Histic Epipedo						eat or Peat			leted Dark Surfac	
	Black Histic (A Hydrogen Sulf				Sandy G		Matrix (S4) (S5)			lox Depressions (ors for Problemation	
	Stratified Laye				Strippe					st Prairie Redox	
	2 cm Muck (A Depleted Belo		ace (A11)		Loamy	iviucку Gleved	Mineral (F1) I Matrix (F2)			-Manganese Mas y Shallow Dark S	
	Thick Dark Su	rface (A12)	, ,		Deplete				Oth		,
Restr	ictive Layer (if	observed):	Type: Depth (Inches)				Hydric Soil Pro	esent?	Yes	x No	
	Remarks:		Deptir (inches)	•			Tiyano con Ti	COCIII.	103	X 110	
	OLOGY Ind Hydrology	Indicators:									
vvetia	ina riyarology		nary Indicators	(check all th	at apply	')			Sec	ondary Indicato	rs
Х	Surface Water				r Stained					oil Cracks (B6)	
X	_High Water Ta Saturation (A3				iic Fauna Aquatic F					Patterns (B10) on Water Table (0	(2)
	Water Marks ((B1)		Hydro	gen Sulf	ide Od	or (C1)		Crayfish B	Surrows (C8)	,
	Sediment Dep Drift Deposits						es on Living Roots d Iron (C4)			Visible on Aerial Stressed Plants	
	Algal Mat or C						on in Tilled Soil (C6)	х		nic Position (D2)	(61)
	Iron Deposits	(B5) ` ´	ol Imaria (DT)	Thin N	Muck Sur	rface (0	C7)			ral Test (D5)	
	Inundation Vis Sparsely Vege		al Imagery (B7) ave Surface	Guag	e or Well	ı Data ((D9)				
Field	Observations:	Surface W	ater Present?	Yes x	No		Depth (inches) 1				
		Water Tab Saturation	le Present?	Yes x Yes x	No No		Depth (inches) 0 Depth (inches) 0	Hydrol	oy Indicat Yes	ors Present?	
Descr	ibe Recorded D					previo	us inspections), if avail	lable:	1 05	5 ^ INU	

Site:			e-W.Millersport		C+:		rfield County	Date:				ata Point:	UPL-10
	igator(s):	AEP N. Houk, N			_ Section	i, row	nship, Range: Landform	Те	rrances	Lo	cal Re		Convex
Slope Soil M	(%): ap Unit Name:	Canal silt le		39.841658 cent slopes	Long.		-82.589099	Datum	NAD83	8 NV	VI Cla	nss:	N/A
	limatic/hydrolog	gic condition	ns typical for tin	ne of year?	Y/N	Υ							
	Vegetation Vegetation	N	, Soil , Soil		drology drology		significantly disturbed naturally problematic						
	ormal Circumsta	ances Prese		Yes x			, ,						
SUIVIIV		phytic Vege	etation Present		No	Х							
	V	Hydr Vetland Hyd	ric Soil Present Irology Present	? Yes <u>x</u> ? Yes	No No	Х		Is the I	DP withir No		tlandî (?	
Remai	rks:	volidi id i iya	rology i roconc	. 100	110			1100	110		-		
	TATION			Absolute %	Domi	nant							
	Stratum_	Plot size:	30'	Cover	Spec	cies	Indicator Statu	S	_		_		
1. 2.					-		-					est Works species th	at
3.									are OBL, Total nur	, FACV	√, or F	AC:	0
4. 5.									species a				1
Shrub	Stratum	Diet size:	15'	0	Total Co	over				of dom	inant s	species th	at
1.	<u>Stratum</u>	Plot size:	10						Prevaler	nce Inc	lex W	orksheet	
2. 3.									Tota OBL spe	l % cov	er of:	0 x 1	0
4.									FACW s	pecies		0 x 2	0
5.				0	Total Co	ver			FAC spe FACU sp			0 x 3 0 x 4	
	Stratum_	Plot size:			=				UPL spe	cies		80 x 5	400
1. 2.	Triticum aestiv	<i>rum residue</i>		80	Y		UPL	5	10	otal I	Preval	<u>80</u> lence Inde	400 ex: 5.00
3.					-							tion Indic	
4. 5.												Hydrophyt st is >50%	
6. 7.	-						-					lex is <3.0 Adaptation	
8.												ophytic Ve	
Woody	Vine Stratum	Plot size:	30'	80	Total Co	over					•	ric soil and	
1.		1 101 0120.							hydr	0,		e present problema	
2.													
				0	Total Co	ver			Hydr			getation P	
	Remarks:			0	Total Co	over			Hydr Ye	ophyti			resent?
SOIL	Pro						ment the indicator or		Ye	ophyti s	ic Veg N	o X	resent?
	Pro Depth	ı	Matrix	be to depth no	eeded to	docu	Redox Featu	ires	absence	ophyties of inc	c Veg N licato	o x	resent?
	Depth (inches)	Color 10YR 3/1	Matrix % 100	be to depth no	eeded to	docu	Redox Featu	res Text Si C	absence	ophyties of inc	ic Veg N	o x	resent?
	Pro Depth (inches)	Color	Matrix %	be to depth no	eeded to	docu	Redox Featu	res Text	absence	ophyties of inc	c Veg N licato	o x	resent?
	Depth (inches)	Color 10YR 3/1	Matrix % 100	be to depth no	eeded to	docu	Redox Featu	res Text Si C	absence	ophyties of inc	c Veg N licato	o x	resent?
	Depth (inches) 0-4 4-18	Color 10YR 3/1 10YR 3/1	Matrix	Color 10YR 5/6	% 5	Type C	Redox Featu Loc** M Coated Sand grains	Text Si C	absence	ophyties e of inc	ic Veg N dicato	o x rs.) rks	resent?
	Depth (inches) 0-4 4-18 *Type: (Color 10YR 3/1 10YR 3/1	Matrix	Color 10YR 5/6	% 5	Type C	Redox Feature Redox Feature	Text Si C	absence	es e of inc	dicato Rema	o x ors.) urks M=Matrix	resent?
	Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo	Color 10YR 3/1 10YR 3/1 C=Concentra	Matrix	Color 10YR 5/6	eeded to % 5 ceed Matri Hydric Sandy N 5 5cm Mu	Type C C ix, CS Soil In	Redox Feature Re	Text Si C	absence ure CL CL ion: PL=P	Pore Line	dicato Rema	o x rs.) urks M=Matrix urface (F6) Surface (I	resent?
	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A	C=Concentra (A2) (A2) (A2) (A3)	Matrix	Color 10YR 5/6	eeded to % 5 ceed Matri Hydric Sandy N 5 5 m Mu Sandy O	Type C Tix, CS Soil In Mucky cky Pe	Redox Feature Re	Text Si C	ion: PL=P	e of inc	dicato Rema hing, N ark Su Dark epress	o x rrs.) urks M=Matrix urface (F6) Surface (I) sions (F8)	Present?
	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	C=Concentra (A2) (A2) (A2) (A3) (de (A4) (rs (A5)	Matrix	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N Sandy C Sandy C Sandy C Sandy C	Type C C Tix, CS Soil In Mucky cky Pe Bleyed Redox I Matri	Redox Feature Re	Text Si C	x Re Re Indica	e of inc	dicato Rema hing, N Dark ppress r Problairie R	M=Matrix Inface (F6) Surface (I) Surface (F8) Ilematic Hy Redox (A16)	resent?
	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra on (A2) 3) ide (A4) rs (A5)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy F Strippec Loamy N	Type C Tix, CS Soil In Mucky cky Pe Gleyed Redox I Matri Mucky	Redox Feature Re	Text Si C	x Re Indica Co	Pore Liredox Date of the colors of the color	dicato Rema hing, Mark Su Dark press r Problairie R ganes	M=Matrix Inface (F6) Surface (IF8) Ilematic Hy Redox (A16 Redox (resent?
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy F Strippec Loamy N	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C	x Re Re Indica Iron Ve	Pore Liredox Date of the colors of the color	dicato Rema hing, Mark Su Dark press r Problairie R ganes	M=Matrix Inface (F6) Surface (I) Surface (F8) Ilematic Hy Redox (A16)	resent?
SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple	Color 10YR 5/6 tion, RM=Redu	sandy F Sandy F Sandy F Strippee Loamy C	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C Si C	x Re Re Indica Iron Ve	Pore Linedox Depleted edox Dep	dicato Rema Mining, N Dark Bepress r Proble Biganes Billow D	M=Matrix Inface (F6) Surface (I6) Surface (I8) Ilematic Hy Redox (A10) Be Masses Dark Surface	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks:	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra on (A2) (A3) ide (A4) rrs (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Deple face (A11) Type:	Color 10YR 5/6 tion, RM=Redu	sandy F Sandy F Sandy F Strippee Loamy C	Type C Cix, CS Soil II Mucky cky Pe Redox I Matriy Mucky Gleyec	Redox Feature Re	Text Si C Si C	x Re De Co Iro	Pore Linedox Depleted edox Dep	dicato Rema Mining, N Dark Bepress r Proble Biganes Billow D	M=Matrix Inface (F6) Surface (I6) Surface (I8) Ilematic Hy Redox (A10) Be Masses Dark Surface	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra (A2) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 tion, RM=Redu	ced Matr Hydric Sandy N Sandy C Sandy F Stripped Loamy N Depleter	Type C ix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyec d Matr	Redox Feature Re	Text Si C Si C	x Re De Co Iro	Pore Linedox Depleted edox Dep	dicato Rema Mining, N Dark Bepress r Proble Biganes Billow D	M=Matrix Inface (F6) Surface (I6) Surface (I8) Ilematic Hy Redox (A10) Be Masses Dark Surface	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belov Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra on (A2) 3) ide (A4) irs (A5) 10) w Dark Surf rface (A12) observed): Indicators: Prin	Matrix % 100 95 ation, D=Deple	be to depth no Color 10YR 5/6 tion, RM=Redu	seded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C Depleted at apply)	Type C ix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyed d Matri	Redox Feature Re	Text Si C Si C **Locati	x Re Indica Iron Ve Ot Ye Se	Pore Lire edox Da epleted edox Da eators for hand ery Shaher	ic Veg Nilicato Rema Ming, Ning, Ni	M=Matrix Inface (F6) Surface (Isions (F8) Iematic Hy Redox (A10 R	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology I Surface Water High Water Ta	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra In (A2) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A7) (A7) (A8) (A8) (A8) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A1) (A1) (A1) (A1) (A1) (A2) (A1) (A2) (A3) (A3) (A4) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	be to depth no Color 10YR 5/6 tion, RM=Redu : : : : : : : : : : : : : : : : : :	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy N Loamy (Deplete at apply) Stained ic Fauna	Type C Tix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyec d Matr Leave (B13)	Redox Feature Re	Text Si C Si C ***Locati	x Re Indica Co Other Yes Surface Surfa	Pore Linedox Date atoms for a control of the contro	dicato Rema Mining, N Dark Bepress Prob Aligner Riganes Ri	M=Matrix Inface (F6) Surface (I	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra In (A2)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	be to depth no Color 10YR 5/6 tion, RM=Redu b. (check all the Water Aquat True A	seded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy N Loamy (Depleted at apply) Stained ic Fauna Aquatic P	Type C Cix, CS Soil II Mucky cky Pe Redox I Matri Mucky Gleyec d Matr Leave (B13) lants (Redox Feature Re	Text Si C Si C ***Locati	x Re De Indica Co Otl	Pore Line edox Date edox D	dicato Rema Mining, N Dark Dark Bepress Prob Aligner Riganes Illow D Aligner Align	M=Matrix Inface (F6) Surface (I	resent?
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentri (A2) (A3) ide (A4) irrs (A5) 10) w Dark Surf frace (A12) observed): Indicators: Prin (A1) ible (A2) i) B1) osits (B2)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 10YR 5/6 tion, RM=Redu color 10YR 5/6 tion, RM=Redu tion, RM=Redu True Aquat True Aquat Hydro Oxidiz	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy F Stripped Loamy N Loamy N Deplete at apply Stained ic Fauna Aquatic P gen Sulfi ged Rhizo	Type C C Cix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri	Redox Feature Re	**Locati	ye absence ure CL CL CL CSL Sion: PL=P x Re Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Crayfish Saturatio	Pore Line edox Da epleted edox De extors for on-Maniery Sharker econda Soil Crae Patter expression Was Burrow on Visib	Ic Veg Nilicato Rema Mining, Nilicato Rema Mining, Nilicato Dark Suppress r Proble Proble Rema Mining, Nilicato	M=Matrix Inface (F6) Surface (I6) Surface (dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentri (A2) (A3) (de (A4) (rs (A5) (10) (w Dark Surf (face (A12) (observed): Indicators: Prin (A1) (bble (A2) (b) (B1) (b3)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color 10YR 5/6 10YR 5/6 tion, RM=Redu Signature Aquat — Hydro — Oxidiz — Prese	ced Matr Hydric Sandy N Sandy N Sandy F Stripped Loamy N Loamy O Depleter at apply Stained ic Fauna Aquatic P agen Sulfi led Rhizo nce of Re	Type C ix, CS Soil II Mucky Cky Pe Gleyedd Redox I Matri Mucky Gleyedd Matri Mucky Gleyedd Redox I Matri Mucky Gleyedd Redox I Matri Mucky Gleyedd Redox I Matri Mucky Redox I Matri	Redox Feature Re	**Locati	x Re R	e of ince e of i	Ic Veg No	M=Matrix Irrks M=Matrix Irrace (F6) Surface (I6) Surface (F8) Iematic Hy Redox (A10 R	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belov Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentration (A2) 3) ide (A4) irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Print (A1) ible (A2)) B1) oosits (B2) (B3) rust (B4) (B5)	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	ced Matrice Sandy Manager Stripped Loamy Matrice Depleter Stripped Stripped Stripped Loamy Matrice Sandy Matrice Sandy Matrice Sandy Matrice Stripped Stripp	Type C C C Soil In Mucky Cky Pe Redock Redock Mucky Gleyed Matri Mucky Muc	Redox Feature Redox Feature M =Coated Sand grains Indicators: Mineral (S1) Indicators: Mineral (S4) Indicators: Matrix (S4) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Matrix (S4) Indicators: Indicators	**Locati	ye absence ure CL CL CL CSL Sion: PL=P x Re Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Crayfish Saturatio	e of incesses of i	ic Veg Ni dicato Rema hing, N ark Su Dark r Proble r Proble airie R ganes llow D c Ni site Ta site (Sh	M=Matrix Inface (F6) Surface (I6) Surface (I6) Surface (I8) Ilematic Hy Redox (A10 Redo	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belov Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentration (A2) 3) ide (A4) irs (A5) 10) w Dark Surfrface (A12) observed): Indicators: Print (A1) ible (A2) i) B1) oosits (B2) (B3) rust (B4) (B5) ible on Aeria	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicator:	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	ced Matr Hydric Sandy M Sandy G Sandy G Stripped Loamy M Loamy G Depleter	Type C C C Soil In Mucky Cky Pe Redock Redock Mucky Gleyed Matri Mucky Muc	Redox Feature Redox Feature M =Coated Sand grains Indicators: Mineral (S1) Indicators: Mineral (S4) Indicators: Matrix (S4) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Mineral (S1) Indicators: Matrix (S4) Indicators: Indicators	**Locati	ion: PL=P x Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Saturatio Stunted of Geomorp	e of incesses of i	ic Veg Ni dicato Rema hing, N ark Su Dark r Proble r Proble airie R ganes llow D c Ni site Ta site (Sh	M=Matrix Inface (F6) Surface (I6) Surface (I6) Surface (I8) Ilematic Hy Redox (A10 Redo	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belor Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentra In (A2) In (A2) In (A2) In (A3) In (A4) In (A5) In (A5) In (A5) In (A6) In (A2) In (A6) In (A6) In (A6) In (B6) In (B6	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicator al Imagery (B7) ave Surface ater Present?	color Color 10YR 5/6 10YR 5/6 tion, RM=Redu Water Aquat True A Hydro Oxidiz Presse Recer Thin N Guage Other Yes	eeded to % 5 ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy N Loamy O Depleted at apply) Stained ic Fauna Aquatic P gen Sulfi ed Rhizo nce of Re I Iron Re Muck Surr e or Well No	Type C Tix, CS Soil II Mucky Cky Pe Redox I Matri Mucky Gleyed Matri Mucky Matri Mu	Redox Feature Re	res Text Si C Si C ***Locati	x Re De Re Indica Co Iro Ve Otl Ye Se Surface S Drainage Dry-Seas Crayfish Saturatio Stunted of Geomorp FAC-Neu	Pore Line dox Date ledox Date led	dicato Rema Ming, N Dark Suppress Proble Aury Inc C N Mary Inc Mary	M=Matrix Irrks M=Matrix Irrface (F6) Surface (I Sions (F8) Ilematic Hy Ledox (A16 Lee Masses Dark Surface O Dicators B6) 10) Aerial Ima Plants (D1 (D2) 5)	dric Soils (F12) ce (F12)
Restri	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Inundation Vis Sparsely Vege Observations:	Color 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 10YR 3/1 C=Concentri (A2) 3) ide (A4) res (A5) 10) w Dark Surf rface (A12) observed): Prin (A1) ible (A2) i) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeria etated Conce Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Deple ace (A11) Type: Depth (Inches mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	color Color 10YR 5/6 10YR 5/6 Ition, RM=Redu Signature Aquat Aquat Aquat Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ced Matr Hydric Sandy N Sandy N Sandy F Stripped Loamy N Loamy O Deplete at apply Stained ic Fauna Aquatic P gen Sulfi led Rhizo nce of Ro It Iron Re Muck Surre e or Well No No	Type C Tix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyed Gleye	Redox Feature Re	**Locati	ion: PL=P x Re Re Indica Co Iro Ve Ott Ye Surface S Drainage Dry-Seas Saturatio Stunted of Geomorp	Pore Line dox Date ledox Date led	dicato Rema Ming, N Dark Suppress Proble Aury Inc C N Mary Inc Mary	mematrix mematr	dric Soils (F12) ce (F12) agery (C9)

			WETL	AND DET	ERMIN	IATIC	ON FORM-MIDW	EST	REGIO	N	
Site:			e-W.Millersport				irfield County	Date:		ch 2024 Data Poi	
Client:		AEP	Llalt	_State: OF	Sectio	n, Towi	nship, Range:			S25, R 16N, R 19	
Slope	igator(s):	L. Vine, E.		39.834307°	Long.		Landform -82.591561°	Datum	ke Plains NAD83	Local Relief NWI Class:	Concave PEM
		Minster silt	y clay loam, 0 to		Long.		-02.001001	_Datuii	I IVADOS		I LIVI
C	limatic/hydrolo	gic condition	ns typical for tim	ne of year?	Y/N	Υ					
	Vegetation		,		lydrology		significantly disturbed				
	Vegetation				lydrology	N	naturally problematic				
	ormal Circumsta		ent? Y	'es <u>X</u>	No						
JOIVIIV			etation Present?	Yes X	No			1			
	,		ic Soil Present?		_No			Is the	DP within	a Wetland?	
		Vetland Hyd	rology Present?	Yes X	No			Yes	X No		
Remai	rks: TATION										
VEGE	TATION			Absolute %	Dom	inant			1		
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Statu	S			
1.				Oover	Орс	CiCS			Do	ominance Test Wo	rksheet
2.										of dominant species	s that
3.					_					FACW, or FAC:	4
4.				·					_	nber of dominant	2
5.										cross all strata:	
Chrub	Stratum	Plot size:	15!	0	_Total C	over				of dominant species FACW. or FAC:	1.00
1.	Stratum	Piot Size:	15	-					,	ce Index Workshe	
2.	-			-			-			% cover of:	
3.				-					OBL spec		1 80
4.					_				FACW sp		2 0
5.									FAC spec		
ا مام د	24 marks	District	5 1		_Total C	over			FACU spe		
Herb S	Stratum Scirpus atrovi	Plot size:	5	60	- ,	′	OBL	1	UPL spec	cies 0 x	5 <u>0</u> 140
2.	Apocynum cai			20		<u>'</u> /	FAC	3	1 10	Prevalence Ir	
3.	Alisma subcoi			10		<u>, </u>	OBL	1	Hydroph	ytic Vegetation Inc	
4.	Juncus effusu			10		<u></u>	OBL	1		pid Test for Hydrop	
5.										minance Test is >5	
6.										evalence Index is <	
7.										rphological Adapta	
8.				100	Total C	over			 	blematic Hydrophytic	· ·
Woods	v Vine Stratum	Plot size:	30'		_ Total C	ovei				ators of hydric soil a	
1.	v vinc otratum	1 101 3120.								ology must be prese	
2.				-						disturbed or proble	matic
				0	Total C	over				ophytic Vegetatio	n Present?
	Remarks:								Yes	s X No	
SOIL	Dr	ofilo Docori	ntion: (Doscril	ho to donth i	anadad te	docu	ment the indicator or	confirm	n absonce	of indicators \	
	Depth		Matrix		ieeueu it	uocui	Redox Featu		ii abseiice	or indicators.)	
	(inches)	Color	%	Color	%	Type*	Loc**		ture	Remarks	
	0-6	10YR 4/2	100			,,			SiL		
	6-18	10YR 4/2	95	10YR 7/6	5	С	М	S	SiL		
	*Type: (C=Concentr	 ation D-Denlet	ion RM-Red	luced Mat	riv CS	=Coated Sand grains	**! 003	tion: PI –P	ore Lining, M=Matr	iv
	турс.		ori, D-Dopiet				ndicators:	_000		Limiy, ivi–iviati	<u></u>
	Histosol (A1)						Mineral (S1)		X Re	dox Dark Surface (F6)
	Histic Epipedo				5cm Mu	icky Pe	eat or Peat			pleted Dark Surface	
	Black Histic (A						Matrix (S4)			dox Depressions (F	
	Hydrogen Sulf				_Sandy I					tors for Problematic	
	Stratified Laye 2 cm Muck (A	` '			Strippe		x (S6) Mineral (F1)			ast Prairie Redox (/ n-Manganese Mass	
	Depleted Belo		ace (A11)				Matrix (F2)			ry Shallow Dark Su	
	Thick Dark Su		400 (7111)		Deplete				—— Oth	•	11400 (1 12)
Restri	ctive Layer (if		Type:				(* 5)		0	101	
			Depth (Inches)	:			Hydric Soil Pro	esent?	Yes	s X No	
	Remarks:										
	OLOGY	lu dia ataua									
wetia	nd Hydrology		nary Indicators	c (chack all t	hat annly	Λ		1	80	condary Indicator	
	Surface Wate		nary Indicators		nat appry er Stained		s (B9)	1		condary Indicator Soil Cracks (B6)	<u> </u>
Х	High Water Ta				atic Fauna		3 (B3)			Patterns (B10)	
X	Saturation (A3				Aquatic F		B14)			on Water Table (Ca	2)
	Water Marks ((B1)		Hydr	ogen Sulf	ide Od	or (C1)		Crayfish I	Burrows (C8)	•
	Sediment Dep			Oxid	ized Rhizo	osphere	es on Living Roots		Saturation	n Visible on Aerial I	
	Drift Deposits						d Iron (C4)			or Stressed Plants (D1)
	_Algal Mat or C						n in Tilled Soil (C6)	X		hic Position (D2)	
	Iron Deposits		al Imagery (B7)		Muck Su			X	_rac-neu	tral Test (D5)	
	_Inundation vis Sparsely Vege			Othe	ge or Wel	เ บลเล (ופט				
Field (Observations:			Yes	No	Х	Depth (inches)				
			le Present?	Yes X	No		Depth (inches)	Hydro	loy Indica	tors Present?	
		Saturation		Yes X	No		Depth (inches)		_ Ye		
	be Recorded D dric indicators		guage, monitor	ing well, aeria	ai photos,	previo	us inspections), if avail	able:			

Client:		r-S.Baltimore AEP	e-W.Millersport	City/County: State: OH	Section,		eld County hip, Range:	_Date:	27 March Sec	<u>n 2024</u> Data S25, R 16N, R		UPL-5
	igator(s):	L. Vine, E.		39.834361°			Landform -82.591594°		e Plains NAD83	Local Relief NWI Class:	Со	nvex I/A
Soil M	ap Unit Name:	Minster silt	ty clay loam, 0 to	o 1 percent slo	_Long pes		-02.591594	_Datum	INADOS	_ INVVI CIASS.		N/A
	Vegetation Vegetation	N N	, Soil	N or Hy N or Hy	Y/N _ drology _ drology _		gnificantly disturbed aturally problematic					
	ormal Circumst	INGS		es <u>x</u>								
	V	Hydr	etation Present? ric Soil Present? rology Present?	Yes	No _ No _ No	X		Is the Yes	DP within a	a Wetland? X		
Remai	rks: TATION											
	Stratum	Plot size:	30'	Absolute %	Domin		Indicator Statu	s				
1. 2. 3.				Cover	Speci	es 			Number of	ninance Test dominant spe FACW, or FAC	cies that	eet 2
4.									Total numb	per of dominar	t	5
	Stratum_	Plot size:	15'	0	Total Cov	ver _	F4.0U		Percent of are OBL, F	ross all strata: dominant spe FACW, or FAC	cies that	40.00
1. 2. 3.	Rubus alleghe Acer rubrum	eniensis		5 5	Y Y		FACU FAC	3	Total 9 OBL speci			0
4. 5.									FACW speci-	es <u> </u>	x 2 x 3	40 15
Herb S	Stratum	Plot size:	5'	10	Total Cov	ver			FACU species		<u>5</u> x 4 .	340 0
1. 2.	Solidago cana Schedonorus	ndensis		50 30	<u>Y</u>		FACU FACU	4	Tota)	395 3.59
3.	Dichanthelium			20	<u> </u>		FACU	2		tic Vegetation	Indicato	rs:
4. 5.					· ·					id Test for Hyd ninance Test is		Veg.
6. 7.									X Prev	alence Index i	s <u><</u> 3.0*	
7. 8.										phological Ada lematic Hydroph		ation*
Woods 1.	V Vine Stratum	Plot size:	30'	100	Total Cov	ver			hydrol	ors of hydric s ogy must be p isturbed or pro	resent, ur	
2.				0	Total Cov	ver _				phytic Vegeta		sent?
SOIL	Remarks:								Yes			
JUIL												
				pe to depth ne	eded to	docume	ent the indicator or		absence o	of indicators.)		
	Depth	ı	ption: (Describ Matrix %				Redox Featu	ıres	ture	of indicators.) Remarks		
	Depth (inches) 0-12	Color 10YR 3/2	Matrix % 100	Color	%	Type* I	Redox Featu Loc**	res Text	ture CL			
	Depth (inches)	Color	Matrix %				Redox Featu	ires Text	ture CL			
	Depth (inches) 0-12	Color 10YR 3/2	Matrix % 100	Color	%	Type* I	Redox Featu Loc**	res Text	ture CL			
	Depth (inches) 0-12 12-18	Color 10YR 3/2 10YR 4/2	Matrix	Color 10YR 6/6	% 5 ced Matrix	Type* C C x, CS=C	Redox Featu Loc** M Coated Sand grains	Text SiG	ture CL CL			
	Depth (inches) 0-12 12-18 *Type:	Color 10YR 3/2 10YR 4/2	Matrix	Color 10YR 6/6	% 5 ced Matrix Hydric S Sandy M	Type* I C x, CS=C Soil Ind ucky Mi	Redox Featu Loc** M Coated Sand grains icators: ineral (S1)	Text SiG	ion: PL=Poi	Remarks re Lining, M=Mox Dark Surface	latrix	
	Depth (inches) 0-12 12-18 *Type:	Color 10YR 3/2 10YR 4/2 C=Concentra	Matrix	Color 10YR 6/6	% 5 ced Matrix Hydric S Sandy Mi 5cm Muc	Type* I C x, CS=C Soil Ind ucky Mi	Redox Featu Loc** M Coated Sand grains icators: ineral (S1)	Text SiG	ion: PL=Poi	Remarks re Lining, M=M	latrix ce (F6) face (F7)	
	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sull	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) (A3) (iide (A4)	Matrix	Color 10YR 6/6	% 5 ced Matrix Hydric S Sandy M 5cm Muc Sandy GI Sandy Re	Type* II C x, CS=C Soil Ind ucky Micky Peat leyed M edox (S	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5)	Text SiG	ion: PL=Poi Red Dep Red Indicate	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problem	latrix ce (F6) face (F7) s (F8) atic Hydric	e Soils
	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sull Stratified Laye 2 cm Muck (A	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) (A3) (Gide (A4) (First (A5) (A5)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	% 5 ced Matrix Hydric S Sandy Mi 5cm Muc Sandy GI Sandy Re Stripped Loamy M	Type* C C x, CS=C Soil Ind ucky Mi kky Peat leyed M edox (S Matrix (I lucky M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat atrix (S4) 5) S6) ineral (F1)	Text SiG	ion: PL=Poi Red Dep Red Indicate Coa: Iron-	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfox ox Depression ors for Problems st Prairie Redo Manganese N	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F	12)
	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A1) Hydrogen Sull Stratified Laye	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) (A3) (Fide (A4) (Firs (A5) 10) (W Dark Surf	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	% 5 ced Matrix Hydric S Sandy Mi 5cm Muc Sandy GI Sandy Re Stripped Loamy M	Type* I C x, CS=C Soil Ind ucky Mi ky Peat leyed M edox (S Matrix (I lucky M ileyed M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) fatrix (F2)	Text SiG	ion: PL=Poi Red Dep Red Indicate Coa: Iron- Very	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfox ox Depression ors for Problemate st Prairie Redo Manganese N or Shallow Dark	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F	12)
Restri	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedd Black Histic (All) Hydrogen Sull Stratified Laye 2 cm Muck (All) Depleted Belo	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) iride (A4) ers (A5) 10) w Dark Surf rface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	% 5 Ced Matrix Hydric S Sandy Mi 5cm Muc Sandy Gl Sandy Re Stripped Loamy M Loamy G	Type* I C x, CS=C Soil Ind ucky Mi ky Peat leyed M edox (S Matrix (I lucky M ileyed M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat atrix (S4) 5) S6) ineral (F1) latrix (F2) (F3)	Text Sid	ion: PL=Poi Red Dep Red Indicate Coaa Iron Very Othe	Remarks re Lining, M=N ox Dark Surface leted Dark Surfox ox Depression ors for Problement of Prairie Redo Manganese M Shallow Dark er	latrix ce (F6) face (F7) s (F8) atic Hydrid ox (A16) lasses (F Surface	12)
	Type: *Type: *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) iride (A4) ers (A5) 10) w Dark Surf rface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	% 5 Ced Matrix Hydric S Sandy Mi 5cm Muc Sandy Gl Sandy Re Stripped Loamy M Loamy G	Type* I C x, CS=C Soil Ind ucky Mi ky Peat leyed M edox (S Matrix (I lucky M ileyed M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) fatrix (F2)	Text Sid	ion: PL=Poi Red Dep Red Indicate Coa: Iron- Very	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfox ox Depression ors for Problemate st Prairie Redo Manganese N or Shallow Dark	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F	12)
HYDR	Type: *Type: *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) Fide (A4) Firs (A5) 10) W Dark Surfrace (A12) observed):	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6	% 5 Ced Matrix Hydric S Sandy Mi 5cm Muc Sandy Gl Sandy Re Stripped Loamy M Loamy G	Type* I C x, CS=C Soil Ind ucky Mi ky Peat leyed M edox (S Matrix (I lucky M ileyed M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat atrix (S4) 5) S6) ineral (F1) latrix (F2) (F3)	Text Sid	ion: PL=Poi Red Dep Red Indicate Coaa Iron Very Othe	Remarks re Lining, M=N ox Dark Surface leted Dark Surfox ox Depression ors for Problement of Prairie Redo Manganese M Shallow Dark er	latrix ce (F6) face (F7) s (F8) atic Hydrid ox (A16) lasses (F Surface	12)
HYDR	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedc Black Histic (Anchor Mistric Epipedc Stratified Layer 2 cm Muck (Anchor Muck Depleted Below Thick Dark Suctive Layer (if Remarks: OLOGY Ind Hydrology	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) fide (A4) ters (A5) 10) w Dark Surfrace (A12) observed): Indicators: Prin	Matrix % 100 95 ation, D=Depleti	Color 10YR 6/6 ion, RM=Redu	% 5 ced Matrix Hydric S Sandy Mi 5cm Muc Sandy Re Sandy Re Stripped Loamy M Loamy G Depleted	Type* C x, CS=C Soil Ind ucky Mi kky Peat leyed M edox (S Matrix (Iucky M ideyed M Matrix (Iucky M	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) Matrix (F2) (F3) Hydric Soil Pro	Text Sid	ion: PL=Poi ion: PL=Poi Red Depi Red Indicate Coa: Iron- Very Othe Yes	Remarks re Lining, M=N ox Dark Surface leted Dark Surfox Depression ors for Problements Prairie Rede Manganese No or Shallow Dark er No ondary Indica	latrix ce (F6) face (F7) fatic Hydric ox (A16) lasses (F Surface X	12)
HYDR	Type: *Type: *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentration (A2) A3) Cide (A4) Pers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Print (A1)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 ion, RM=Redu (check all th. Water	% 5 ced Matrix Hydric \$ Sandy Mi 5cm Muc Sandy Gl Sandy Re Stripped Loamy M Loamy G Depleted	x, CS=CSoil Inducky Miky Peat leyed Metrix (lucky Mikeyed Matrix (lucky Mikeyed Matrix)	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) Matrix (F2) (F3) Hydric Soil Pro	Text Sid	ion: PL=Poi Red Dep Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F	Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface ox Problems st Prairie Redo Manganese M Shallow Dark er No ondary Indica Datterns (B10)	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface	12)
HYDR	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentric on (A2) (A3) (Fide (A4) (Fide (A4) (Fide (A12) (Fide (A12	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 ion, RM=Redu (check all the Water Aquat True A	ced Matrix Hydric S Sandy Mi 5cm Muc Sandy GI Sandy Re Stripped Loamy M Loamy M Loamy G Depleted	x, CS=CSoil Inducky Miky Peatleyed Medox (S Matrix (Illucky Mikeyed Matrix) Matrix	Redox Featu Loc** M Coated Sand grains icators: neral (S1) t or Peat atrix (S4) 5) S6) ineral (F1) latrix (F2) (F3) Hydric Soil Profile (B9)	Text Sid	ion: PL=Po Red Dep Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso	Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface res for Problem ors for Problem on Prob	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface	12)
HYDR Wetlar	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A) Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks) Sediment Dep	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentric on (A2) A3) ide (A4) ers (A5) 10) w Dark Surf erface (A12) observed): Indicators: Print r (A1) able (A2) b) (B1) cosits (B2)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 ion, RM=Redu ion, RM=Redu Check all the Water Aquat True A Hydro Oxidiz	ced Matrix Hydric S Sandy Mi 5cm Muc Sandy GI Sandy Re Stripped Loamy M Loamy G Depleted at apply) at apply at ap	Type* C x, CS=C Soil Ind ucky Mi sky Peat leyed M dedox (S Matrix (I lucky M illucky M illuck	Redox Featu- Loc** M Coated Sand grains icators: neral (S1) t or Peat atrix (S4) 5) S6) ineral (F1) latrix (F2) (F3) Hydric Soil Pro (B9) (C1) on Living Roots	Text Sid	ion: PL=Po Red Depl Red Indicate Coa: Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfox Depression ors for Problem st Prairie Redo Manganese N or Shallow Dark er No ondary Indica oil Cracks (B6) Patterns (B10) n Water Table urrows (C8) Visible on Aer	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image	12) (F12)
HYDR Wetlar	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits	Color 10YR 3/2 10YR 4/2 10YR 4/2 C=Concentric on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surf rface (A12) observed): Indicators: Prin r (A1) able (A2) (B3) (B3)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 ion, RM=Redu ion, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese	ced Matrix Hydric S Sandy Mi Sandy Re Sandy Re Stripped Loamy M Loamy G Depleted at apply) Stained L ic Fauna (ic Fauna (ic quatic Pla gen Sulfid ed Rhizos nce of Rec	x, CS=CSoil Inducky Misky Peat leyed Matrix (Bucky Matrix) (Bucky Matrix) (Barants (B13)) ants (B14) ele Odor spheres duced li	Redox Featu- Loc** M Coated Sand grains icators: Ineral (S1) It or Peat Ineral (F1) Ineral (F2) Ineral (F3) Hydric Soil Pro (B9) I4) I4) I5) I6) I6) I6) I6) I6) I6) I6) I6) I6) I6	Text Sid	ion: PL=Po Red Depl Red Indicate Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or	Remarks re Lining, M=M ox Dark Surfact leted Dark Surfact leted Dark Surfox Depression ors for Problem st Prairie Redo Manganese M or Shallow Dark er No ondary Indica il Cracks (B6) Patterns (B10) n Water Table urrows (C8) Visible on Aer Stressed Plar	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image ts (D1)	12) (F12)
HYDR Wetlar	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A1) Stratified Laye 2 cm Muck (A2) Depleted Belot Thick Dark Suctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3) Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Gide (A4) ers (A5) 10) w Dark Surfrace (A12) observed): Indicators: Print r (A1) able (A2) b) (B1) oosits (B2) (B3) crust (B4) (B5)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 6/6 10YR 6/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	% 5 Ced Matrix Hydric S Sandy Mi 5cm Muc Sandy Re Sandy Re Stripped Loamy M Loamy G Depleted Authority Authority Company S Compa	Type* I C x, CS=C Soil Ind ucky Mi kky Peat leyed M edox (S Matrix (I lucky Mi leyed M leyed M leyed M leyed M ducky M leyed M ducky M leyed M leyed M ducky M leyed M leye	Redox Featu- Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) Matrix (F2) (F3) Hydric Soil Pro (B9) 14) (C1) on Living Roots ron (C4) in Tilled Soil (C6)	Text Sid	ion: PL=Po Red Dep Red Indicate Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	Remarks re Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfox Depression ors for Problem st Prairie Redo Manganese N or Shallow Dark er No ondary Indica oil Cracks (B6) Patterns (B10) n Water Table urrows (C8) Visible on Aer	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image ts (D1)	12) (F12)
HYDR Wetlan	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentration (A2) (A3) (Fide (A4) (Fis (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5)	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface	Color 10YR 6/6 10YR 6/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	% 5 Ced Matrix Hydric \$ Sandy Mi 5cm Muc Sandy Gl Sandy Re Stripped Loamy M Loamy G Depleted at apply) Stained L ic Fauna (ic quatic Pla gen Sulfid ed Rhizos ince of Rei it Iron Rec it Iron Rec	x, CS=CSoil Inducky Mikey Peat leyed Meleyed M	Redox Featu- Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) fatrix (F2) (F3) Hydric Soil Pro (B9) (C1) on Living Roots ron (C4) in Tilled Soil (C6)) 9)	Text Sid	ion: PL=Po Red Dep Red Indicate Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	Remarks re Lining, M=M ox Dark Surfact leted Dark Surfox Depression ors for Problem st Prairie Redo Manganese M or Shallow Dark er No ondary Indica Patterns (B10) on Water Table urrows (C8) Visible on Aer Stressed Plar ic Position (D2	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image ts (D1)	12) (F12)
HYDR Wetlan	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentration (A2) (A3) (B3) (B4) (B4) (B5) (B5) (B5) (B5) (B5) (B5) (B5) (B5	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present?	Color 10YR 6/6 ion, RM=Redu ion, RM=Redu Check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes	ced Matrix Hydric S Sandy Mi Sandy Ri Loamy M Loamy G Depleted at apply) Stained L ic Fauna (iquatic Pla gen Sulfid ed Rhizos nce of Rec it Iron Rec	Type* C x, CS=C Soil Ind ucky Mi kky Peat leyed M edox (S Matrix (I lucky Mi leyed M fileyed M leyed M leyed M fileyed M care (B13) ants (B1 le Odor spheres duced I duction ace (C7 Data (D0	Redox Featu- Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) latrix (F2) (F3) Hydric Soil Pro (B9) (C1) on Living Roots ron (C4) in Tilled Soil (C6) 9) Depth (inches)	esent?	ion: PL=Poi Red Dep Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface ox Poptession st Prairie Redo Manganese M Shallow Dark er No ondary Indica oil Cracks (B6) Patterns (B10) n Water Table urrows (C8) Visible on Aer Stressed Plar ic Position (D2 al Test (D5)	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image ts (D1)	12) (F12)
HYDR Wetlan X	Depth (inches) 0-12 12-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Sparsely Vege Observations:	Color 10YR 3/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentrice on (A2) A3) Gide (A4) Grace (A5) 10) w Dark Surfrace (A12) observed): Indicators: Print r (A1) able (A2) B1) cosits (B2) (B3) crust (B4) (B5) cible on Aerice etated Conce Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	Color 10YR 6/6 ion, RM=Redu ion, RM=Redu Check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes Yes X	ced Matrix Hydric S Sandy Mi 5cm Muc Sandy GI Sandy Re Stripped Loamy M Loamy G Depleted at apply) Stained L ic Fauna (iquatic Pla gen Sulfid ed Rhizos ince of Rei tit Iron Rec fluck Surfa e or Well I	x, CS=CSoil Inducky Misky Peatleyed Medox (S Matrix (Illucky Misky Patrix (Illucky	Redox Featu- Loc** M Coated Sand grains icators: neral (S1) t or Peat latrix (S4) 5) S6) ineral (F1) fatrix (F2) (F3) Hydric Soil Pro (B9) (C1) on Living Roots ron (C4) in Tilled Soil (C6)) 9)	esent?	ion: PL=Poi Red Dep Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface ox Depression ast Prairie Redo Manganese M Shallow Dark er No ondary Indica oil Cracks (B6) Patterns (B10) n Water Table urrows (C8) Visible on Aer Stressed Plar ic Position (D2 al Test (D5)	latrix ce (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface X ttors (C2) ial Image ts (D1)	12) (F12)

Soil Map Unit Name: Bennington sitt loam, 0 to 2 percent slopes Climatic/hydrologic conditions typical for time of year? Vegetation N, Soil N or Hydrology N naturally problematic Vegetation N, Soil N or Hydrology N naturally problematic Are Normal Circumstances Present? Ves X No Hydrophytic Vegetation Present? Yes X No Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No VEGETATION Tree Stratum Plot size: 30' Absolute % Dominant Cover Species Indicator Status Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC: Total number of dominant species that are OBL, FACW, or FAC: Total number of dominant species that are OBL, FACW, or FAC: Prevalence Index Worksheet 1. Shrub Stratum Plot size: 15' 1. Shrub Stratum Plot size: 15' 1. Herb Stratum Plot size: 5' 1. Juncus effusus Plot size: 5' 1. Juncus effusus Adv Y OBL 1. Solidago canadensis 10 N FACU 4 Hydrophytic Vegetation Indicators: 1. Juncus effusus A N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 N FACU 4 Rapid Test for Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 Total Cover Hydrophytic Vegetation Indicators: 1. Solidago canadensis 10 Total Cover Hydrophytic Vegetation Indicators of Hydrophytic Vegetation Indicators of Hydrophytic Vegetation Indicators of Hydrophytic Vegetation Indicators: 1. Solidago Consoleration Indicators of Hydrophytic Vegetation Indicators of Hydrophytic Veg
SUMMARY OF FINDINGS
Hydric Soil Present? Yes X No No Is the DP within a Wetland?
Absolute % Dominant Species Indicator Status
Tree Stratum
4, Total number of dominant species across all strata: species across all strata: species across all strata: Percent of dominant species that are OBL, FACW, or FAC: Prevalence Index Worksheet 60.0 1. Prevalence Index Worksheet Total % cover of: OBL species 1 x 1 = Total % cover of: OBL species 30 x 2 = Total % cover of: OBL species 1 x 1 = Total % cover of: OBL species 1 x 2 = Total Cover of: OBL species 1 x 2 = Total Cover of: OBL species 1 x 2 = Total Cover of: OBL sp
Percent of dominant species that are OBL, FACW, or FAC: 1.
4.
Herb Stratum
1. Juncus effusus 40 Y OBL 1 Prevalence Index: 2 Jichanthelium clandestinum 30 Y FACW 2 Hydrophytic Vegetation Indicators: 4. Elymus canadensis 10 N FACU 4 Rapid Test for Hydrophytic Veg. 5. Carex molesta 1 N FAC 3 X Dominance Test is >50% 6. S N Prevalence Index: 7. Solitable 1. Solitable 2. Solitable 3. Solitable 3
3. Solidago canadensis 4. Elymus canadensis 4. N FACU 4 Rapid Test for Hydrophytic Veg. 5. Carex molesta 6. N FAC 3 x Dominance Test is >50% 6. X Prevalence Index is ≤3.0* 7. Morphological Adaptations* 8. Morphological Adaptations* Problematic Hydrophytic Vegetation* **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic **Remarks: **O Total Cover** **Remarks: **Depth** **Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.) **Redox Features** **Redox Features**
5. Carex molesta 6.
6.
8. Problematic Hydrophytic Vegetation* Woody Vine Stratum Plot size: 30' 1. 2. O Total Cover Remarks: O Total Cover Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.) Problematic Hydrophytic Vegetation Present? Yes X No SOIL Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.) Redox Features
Woody Vine Stratum Plot size: 30'
Remarks: O Total Cover Hydrophytic Vegetation Present? Yes X No
SOIL Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.) Depth Matrix Redox Features
Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.) Depth Matrix Redox Features
0-18 10YR 4/2 90 10YR 5/4 10 C M SiCL
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Coated Sand grains **Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:
Histosol (A1) Sandy Mucky Mineral (S1) Histic Epipedon (A2) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat Depleted Dark Surface (F7)
Black Histic (A3) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Hydrogen Sulfide (A4) Sandy Redox (S5) Indicators for Problematic Hydric Soils
Stratified Layers (A5) Stripped Matrix (S6) Coast Prairie Redox (A16)
2 cm Muck (A10) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Very Shallow Dark Surface (F12)
Thick Dark Surface (A12) Depleted Matrix (F3) Other
Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes X No Remarks:
HYDROLOGY
Wetland Hydrology Indicators: Primary Indicators (check all that apply) Secondary Indicators
Surface Water (A1) Water Stained Leaves (B9) Surface Soil Cracks (B6)
XHigh Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)Saturation (A3)True Aquatic Plants (B14)Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Iron Deposits (B5) Recent Iron Reduction in Tilled Soil (C6) X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Guage or Well Data (D9)
Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes No X Depth (inches)
IFIEID ODSELVATIONS. SUNDUE WATER FIESENT! 1ES NO A DEPUT (INCHES)
Water Table Present? Yes X No Depth (inches) 5 Hydroloy Indicators Present? Saturation Present? Yes No X Depth (inches) Yes X No

Site:			e-W.Millersport				irfield County	Date:	27 March 20		
Client:	igator(s):	AEP L. Vine, E.	Holt	State: OH	_Sectio	n, Tow	nship, Range: Landform	Til		, T 15N, R 19¹ .ocal Relief	W Convex
Slope	(%):		Lat.	39.822032°	Long.		-82.597449°	Datum		NWI Class:	N/A
Soil M	ap Unit Nai	me: Benningto	n silt loam, 0 to ns typical for tim	2 percent slop	es Y/N	Υ					
	Vegeta	ation N	, Soil	N or Hy	drology	N	significantly disturbed				
A N.	Vegeta	ation N	_ , Soil		drology	N	naturally problematic				
	IARY OF F	mstances Presellindings	ent?	es <u>x</u>	No		=				
	F		etation Present?		No	Χ	-				
		, .	ric Soil Present? drology Present?		No No	Х	=	Yes	DP within a W No	etiano? X	
VEGE	TATION										
	Stratum	Diet eizer	201	Absolute %	Dom	inant	Indicator Statu	•			
	<u>straturri</u>	Plot size:	30	Cover	Spe	cies	mulcator Statu	5	.		
1. 2.					-		-		Number of do	ance Test Wo minant specie	s that
3.									are OBL, FAC	W, or FAC:	2
4. 5.									Total number		4
Э.				0	Total C	over			species acros Percent of dor		s that
	Stratum	Plot size:	15'	40	-	,	E4011		are OBL, FAC	•	
1. 2.	Rubus alle	egheniensis		10		<u> </u>	FACU	4	Prevalence In Total % c		eet
3.							· ·		OBL species		
4. 5.				-					FACW species FAC species	s <u>0</u> 50	
J.				10	Total C	over			FACU species		
	Stratum to	Plot size:	5'	50	_ 、	,	FA.0	0	UPL species	0	
1. 2.	Juncus te	canadensis		50 20		<u>r</u> Y	FAC FACU	<u>3</u> 4	Total	91 Prevalence I	ndex: 311
3.		richum ericoide	S	10		′	FACU	4	Hydrophytic '	Vegetation In	dicators:
4. 5.										est for Hydror nce Test is >5	
6.							· ·			nce Index is <	
7. 8.					_					logical Adapta atic Hydrophytic	
0.				80	Total C	over				of hydric soil	ū
	y Vine Stra	tum_ Plot size:	30'		=					must be pres	
1.					_				diate	rbed or proble	amatic
2.									distu	indea of proble	Jillatio
	Remarks:			0	Total C	over	-		Hydrophy	tic Vegetatio	n Present?
	Remarks:						-		Hydrophy Yes	rtic Vegetatio No	
							ment the indicator or		Hydrophy Yes	rtic Vegetatio No	n Present?
	Depth (inches	s) Color	Matrix %	be to depth no	eeded to	docu	Redox Featu	res Tex	Hydrophy Yes n absence of in	rtic Vegetatio No	n Present?
	Depth		Matrix %	be to depth no	eeded to	docu	Redox Featu	ires	Hydrophy Yes n absence of in	rtic Vegetatio No ndicators.)	n Present?
	Depth (inches	s) Color	Matrix %	be to depth no	eeded to	docu	Redox Featu	res Tex	Hydrophy Yes n absence of in	rtic Vegetatio No ndicators.)	n Present?
	Depth (inches	s) Color	Matrix %	be to depth no	eeded to	docu	Redox Featu	res Tex	Hydrophy Yes n absence of in	rtic Vegetatio No ndicators.)	n Present?
	Depth (inches 0-18	S) Color 10YR 4/2	Matrix % 90	be to depth no Color 10YR 5/4	% 10	Type C	Redox Featu * Loc** M S=Coated Sand grains	res Texi Si0	Hydrophy Yes n absence of inture	ntic Vegetatio No ndicators.) Remarks	n Present?
	Depth (inches 0-18	S) Color 10YR 4/2 pe: C=Concenti	Matrix % 90	be to depth no Color 10YR 5/4	% 10 10 Iced Mat	Type C C rix, CS	Redox Featu * Loc** M =Coated Sand grains ndicators:	res Texi Si0	Hydrophy Yes n absence of inture CL cion: PL=Pore L	ndicators.) Remarks Lining, M=Mate	n Present?
	Depth (inches 0-18 *Ty Histosol (/	color 10YR 4/2 pe: C=Concenti	Matrix % 90	be to depth no Color 10YR 5/4	% 10 10 Iced Mat	Type C C rix, CS	Redox Featu * Loc** M S=Coated Sand grains	res Texi Si0	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox [ntic Vegetatio No ndicators.) Remarks	rix (F6)
	Depth (inches 0-18 *Ty Histosol (Histic Epip Black Hist	pe: C=Concenti	Matrix % 90	be to depth no Color 10YR 5/4	eeded to % 10 loced Mat Hydric Sandy I 5cm Mu Sandy (Type C Crix, CS Soil I Mucky Jucky P Gleyed	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4)	res Texi Si0	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface Depressions (rix (F6) te (F7) F8)
	Depth (inches 0-18 *Ty Histosol (/ Histic Epip Black Hist Hydrogen	color 10YR 4/2 pe: C=Concenti	Matrix % 90	be to depth no Color 10YR 5/4	eeded to % 10 10 Icced Mat Hydric Sandy I 5cm Mu Sandy I 5andy I	Type C Crix, CS Soil I Mucky ucky P Gleyed Redox	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	res Texi Si0	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface	rix (F6) Ee (F7) F8) E Hydric Soils
	Depth (inches 0-18 *Ty Histosol (/ Histic Epigl Black Hist Hydrogen Stratified I 2 cm Muc	pe: C=Concentral A1) bedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10)	Matrix % 90 ration, D=Deplet	be to depth no Color 10YR 5/4	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy (Sand	Type C C Trix, CS Soil I Mucky P Gleyed Redox d Matri Mucky Mucky	Redox Feature Re	res Texi Si0	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface Operessions (for Problematic Prairie Redox (enganese Mas	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12)
	Depth (inches 0-18 *Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted	pe: C=Concents A1) pedon (A2) ic (A3) Sulfide (A4) Layers (A5) k (A10) Below Dark Sur	Matrix % 90 ration, D=Deplet	be to depth no Color 10YR 5/4	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C Trix, CS: Soil I Mucky ucky P Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Texi Si0	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh	ndicators.) Remarks Lining, M=Mation Dark Surface of Dark Surface of Dark Surface of Depressions (for Problematic Prairie Redox (rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12)
SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted Thick Darl	pe: C=Concentral A1) bedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10)	Matrix % 90 ration, D=Deplet face (A11) : Type:	be to depth no Color 10YR 5/4 ion, RM=Redu	eeded to % 10 10 Icced Mat Hydric Sandy I Sandy (Sand	Type C Trix, CS: Soil I Mucky ucky P Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface Operessions (for Problematic Prairie Redox (enganese Mas	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12)
SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted Thick Darl	pe: C=Concents A1) bedon (A2) ic (A3) Sulfide (A4) Layers (A5) k (A10) Below Dark Sur k Surface (A12)	Matrix % 90 ration, D=Deplet	be to depth no Color 10YR 5/4 ion, RM=Redu	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C Trix, CS: Soil I Mucky ucky P Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface Operessions (for Problematic Prairie Redox (enganese Mas	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12)
SOIL	*Ty Histosol (/ Histic Epir Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl ctive Laye Remarks: OLOGY	pe: C=Concenti A1) bedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur c Surface (A12) r (if observed)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4 ion, RM=Redu	eeded to % 10 Iced Mat Hydric Sandy I 5cm Mu Sandy I Stripped Loamy Loamy	Type C Trix, CS: Soil I Mucky ucky P Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other	ndicators.) Remarks Lining, M=Matricate (d Dark Surface (d Dark Surface) Corpressions (for Problematic Prairie Redox (enganese Mashallow Dark Surface)	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12)
SOIL	*Ty Histosol (/ Histic Epir Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl ctive Laye Remarks: OLOGY	pe: C=Concenti A1) bedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur c Surface (A12) r (if observed)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Sandy I Strippe Loamy Loamy Deplete	Type C C Irix, CS Soil I Mucky Gleyed Redox Mucky Gleyed Mucky Gleyed Mucky Mu	Redox Feature Re	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other	ndicators.) Remarks Lining, M=Mate Dark Surface of Dark Surface of Dark Surface of Problematic Prairie Redox (Inganese Mas allow Dark Surface X No	rix (F6) te (F7) F8) thydric Soils (A16) ses (F12) urface (F12)
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SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl ctive Laye Remarks: OLOGY nd Hydrolo Surface W High Wate	pe: C=Concents A1) pedon (A2) ic (A3) Sulfide (A4) Layers (A5) k (A10) Below Dark Sur k (A10) Selow Dark Sur k (A12) r (if observed) pegy Indicators: Prii Atter (A1) er Table (A2)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4 ion, RM=Redu : : : : : : : : : : : : : : : : : :	eeded to % 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C Trix, CS: Soil I Mucky ucky Pe Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature* * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X	ndicators.) Remarks Lining, M=Matri Dark Surface (d Dark Surface) Corpressions (corpressions	rix (F6) te (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12)
SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted Thick Darl ctive Laye Remarks: OLOGY nd Hydrok High Wate Saturation	pe: C=Concents A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur k (Surface (A12) r (if observed) pegy Indicators: Print Atter (A1) Per Table (A2) (A3)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4 ion, RM=Reduction, RM=Reduct	eeded to % 10 10 Inceed Material Hydric Sandy Inceed Material San	Type C Trix, CS Soil I Mucky ucky P Gleyed Redox Mucky Gleyed Mucky Gleyed Mucky Gleyed Gleyed Mucky Gleyed	Redox Feature* * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14)	Text Sid	Hydrophy Yes Tabsence of inture CL Sion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patt Dry-Season W	rtic Vegetation No Indicators.) Remarks Inining, M=Matric Vegetation Memorial Vegetation (Incomplement Congruence Memorial Vegetation (Incomplement Congruence Memorial Vegetation (Incomplement	rix (F6) te (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12)
SOIL	Ty Histosol (A Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl Ctive Laye Remarks: OLOGY nd Hydrolo Surface W High Wate Saturation Water Ma Sediment	pe: C=Concenti A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur k (Surface (A12) r (if observed) per Table (A2) (A3) rks (B1) Deposits (B2)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4 ion, RM=Redu ion, RM=Redu Aquat True A Hydro Oxidiz	eeded to % 10 10 Loced Mat Hydric Sandy I Stripped Loamy Loamy Loamy Deplete at apply Stained ite Fauna Aquatic F gen Sulf	Type C C Irix, CS Soil I Mucky P Gleyed Redox d Matri Mucky Gleyed d Matri Mucky Gleyed a (B13) Plants ide Odospher	Redox Feature* Loc** M	Text Sid	ion: PL=Pore L X Redox [Deplete Redox [Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis	rtic Vegetation No No Indicators.) Remarks Inning, M=Matricologo August Surface of Dark Surface of Dark Surface of Depressions (for Problematic Prairie Redox (Inganese Masiallow Dark Surface of Dark Surface of Problematic Prairie Redox (Inganese Masiallow Dark Surface of Dark Surface of Dark Surface of Dark (B10) Vater Table (Cows (C8) ible on Aerial	rix (F6) se (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12) rs
SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I Thick Darl ctive Laye Remarks: OLOGY nd Hydrok Surface W High Wate Saturation Water Ma Sediment Drift Depo	pe: C=Concenti A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur k (A10) r (if observed) pegy Indicators: Prii Atter (A1) per Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)	face (A11) Type: Depth (Inches)	be to depth no Color 10YR 5/4 ion, RM=Redu s (check all the Water Aquat True A Hydro Oxidiz Prese	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhize nce of R	Type C Type C Tix, CS Soil I Mucky Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature* Loc** M	Text Sid	Hydrophy Yes absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patt Dry-Season W Crayfish Burrd Saturation Vis Stunted or Str	microtic Vegetation No Indicators.) Remarks Inning, M=Matronomic Mark Surface of Dark Surface of Dark Surface of Depressions (for Problematic Prairie Redox (Inganese Masuallow Dark Surface of Mary Indicator Cracks (B6) Indicator Indicator Cracks (B6) Vater Table (Comes (C8) Indicator Indic	rix (F6) se (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12) rs
SOIL	*Ty Histosol (/ Histic Epip Black Hist Hydrogen Stratified I Thick Darl ctive Laye Remarks: OLOGY nd Hydrok Surface W High Wate Saturation Water Ma Sediment Drift Depo	pe: C=Concenti A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Selow Dark Sur Surface (A12) r (if observed) ar (A1) per Table (A2) (A3) or Crust (B4)	face (A11) Type: Depth (Inches)	color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True Hydro Oxidiz Prese Recer	eeded to % 10 Loced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhize nce of R	Type C Type C Tix, CS Soil I Mucky Gleyed Redox d Matri Mucky Gleyed d Matri D I Leave a (B13) Plants iide Od ospher educe eductio	Redox Feature* Loc** M	Text Sid	ion: PL=Pore L X Redox [Deplete Redox [Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patte Dry-Season W Crayfish Burro Saturation Vis	mining, M=Mation No Indicators.) Remarks Inining, M=Mation North Surface of Depressions (Iffor Problematic Prairie Redox (Inganese Mashallow Dark Surface (Inganese Mashallow Dark (Inganese Mashallow Dark (Inganese (Ingane	rix (F6) se (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12) rs
SOIL	Ty Histosol (A Histic Epigl Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl Ctive Laye Remarks: OLOGY nd Hydrolo Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior	pe: C=Concents A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur Surface (A12) r (if observed) r (if observed) r (A3) pedon (A2) ic (A3) r (B1) pedon (A2) r (B1) per Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aeri	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators	color 10YR 5/4 ion, RM=Reduction, RM=Reduct	eeded to % 10 Icced Mat Hydric Sandy I Stripper Loamy Loamy Deplete at apply T Stained ic Fauna Aquatic F gen Sulf zed Rhize nce of R t Iron R Muck Sule or Well	Type C C C C C C C C C C C C C C C C C C C	Redox Feature * Loc** B=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved Bes (B9) (B14) Hor (C1) Hes on Living Roots d Iron (C4) In in Tilled Soil (C6) (C7)	Text Sid	Hydrophy Yes n absence of inture CL ion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic F	mining, M=Mation No Indicators.) Remarks Inining, M=Mation North Surface of Depressions (Iffor Problematic Prairie Redox (Inganese Mashallow Dark Surface (Inganese Mashallow Dark (Inganese Mashallow Dark (Inganese (Ingane	rix (F6) se (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12) rs
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Restri	Ty Histosol (A Histic Epip Black Hist Hydrogen Stratified I 2 cm Muc Depleted I Thick Darl ctive Laye Remarks: OLOGY nd Hydrold Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior Sparsely	pe: C=Concentro A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Sur Surface (A12) r (if observed) per Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aeri /egetated Concentro /egetated C	Matrix % 90 ration, D=Deplet face (A11) : Type: Depth (Inches) mary Indicators ration (B7) ration (B7)	color 10YR 5/4 ion, RM=Redu ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guago Other Yes Yes	eeded to % 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C C C C C C C C C C C C C C C C C C C	Redox Feature* * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) Mineral (F1) Mineral (F2) rix (F3) Hydric Soil Preserved Pes (B9) (B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches)	**Locat	Hydrophy Yes Tabsence of inture CL Sion: PL=Pore L X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic F FAC-Neutral T	mining, M=Matical Dark Surface (d Dark Surface	rix (F6) te (F7) th Hydric Soils (A16) th Ses (F12) triface (F12) rs (F2) Imagery (C9) (D1)
SOIL Restri	*Ty Histosol (/ Histic Epip Black Hist Ty History Hist	pe: C=Concentro A1) pedon (A2) ic (A3) Sulfide (A4) ayers (A5) k (A10) Below Dark Surk Surface (A12) r (if observed) r (if observed) per Table (A2) ic (A3) or Crust (B4) sits (B3) or Crust (B4) sits (B5) in Visible on Aeri /egetated Concentro Water Tab Saturation	Matrix % 90 ation, D=Deplet face (A11) Type: Depth (Inches) mary Indicators at Imagery (B7) ave Surface /ater Present? be Present? Present?	color 10YR 5/4 lion, RM=Redu sion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes	eeded to % 10 10 Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Citalined ite Fauna Aquatic F gen Sulf yed Rhize nce of R nt Iron Ro Muck Sule or Well No No No	Type C Type C Tix, CS Soil I Mucky Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature* * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved es (B9) (B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)	**Locat	Hydrophy Yes Tabsence of inture CL X Redox I Deplete Redox I Indicators f Coast P Iron-Ma Very Sh Other Yes Second Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str Geomorphic F FAC-Neutral T	mining, M=Matical Dark Surface (d Dark Surface	rix (F6) se (F7) F8) se Hydric Soils (A16) ses (F12) urface (F12) rs

Site: Client:	W. Lancaster	r-S.Baltimor AEP	e-W.Millersport			Fairfield County wnship, Range:	_Date:2	27 March 2024 Data F Sec S1, T 15N, R 1	
	igator(s):	L. Vine, E.	Holt		_Section, 10	Landforn		lains Local Relief	Concave
Slope	· /	Maranga		9.809106°	_Long	-82.610454°	Datum:	NAD83 NWI Class:	PEM
	ap Unit Name: limatic/hydrolo		ns typical for tim	e of year?	Y/N Y				
	Vegetation			N or Hy		significantly disturbed			
Are No	Vegetation ormal Circumsta		_,	N or Hy 'es x	rdrology N	naturally problematic			
	IARY OF FIND	INGS		-			_		
	Hydro		etation Present? ric Soil Present?		_No No	_	le the DP	within a Wetland?	
	V		Irology Present?		No			X No	
VEGE	TATION								
	Stratum	Dist size:	201	Absolute %	Dominant	Indicator State			
	otratum_	Plot size:	30'	Cover	Species	maicator Stati	is		
1. 2.				-	_		——— NI	Dominance Test V umber of dominant spec	ies that
3.							ar	e OBL, FACW, or FAC:	5
4. 5.								otal number of dominant pecies across all strata:	6
				0	Total Cover		Pe	ercent of dominant spec	ies that
Shrub 1.	Stratum_	Plot size:	15'					e OBL, FACW, or FAC: revalence Index Works	
2.					_			Total % cover of:	Heet
3.									x 1 1 1 1 2 90
4. 5.							FA		x 2 x 3 0
		D		0	Total Cover		FA	ACU species 0	x 4 0
1.	Stratum Juncus effusu	Plot size:	5	45	Υ	OBL	1	PL species 10 Total 56	x 5 <u>50</u>
2.	Phalaris arund			25	Y	FACW	2	Prevalence	
3. 4.	Thyrsanthella Dipsacus lacir			<u>15</u> 10	- <u>N</u> N	FACW UPL	2 Hy	ydrophytic Vegetation Rapid Test for Hydr	
5.	Lepidium latifo	olium		3	N	FACW	2	x Dominance Test is:	>50%
6. 7.	Carex vulpino	idea		2	N	FACW	2	x Prevalence Index is Morphological Adap	
8.								Problematic Hydrophyt	
Woods	Vine Stratum	Plot size:	30'	100	Total Cover			*Indicators of hydric so	
1.	v vine otratam	1 101 3120.						hydrology must be pre	•
2.					Total Cover	_		disturbed or prob	
F	Remarks:			0	Total Cover			Hydrophytic Vegetat Yes X No	
		ofile Descri	ntion: (Descri			rument the indicator or	confirm at	Hydrophytic Vegetat Yes X No	
F			Matrix	be to depth ne	eeded to doo	cument the indicator or Redox Feat	ures	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth (inches)	Color	Matrix %		eeded to doo		ures Texture	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth		Matrix % 100	be to depth ne	eeded to doo	Redox Feat	ures	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Pro Depth (inches) 0-6	Color 10YR 4/2	Matrix % 100	be to depth no	eeded to doo	Redox Feat	ures Texture SiCL	Hydrophytic Vegetat Yes X No osence of indicators.)	
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ	Redox Feat	Texture SiCL SiCL	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks	ion Present?
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ 10 C	Redox Feat De* Loc** M CS=Coated Sand grains	Texture SiCL SiCL	Hydrophytic Vegetat Yes X No osence of indicators.)	ion Present?
F	Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2	Matrix	Color	% Typ 10 (Iced Matrix, (Hydric Soi	Redox Feat	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks	ion Present?
F	Depth (inches) 0-6 6-18 *Type: 0	Color 10YR 4/2 10YR 4/2 10YR 4/2	Matrix	Color	% Typ 10 C	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface	atrix e (F6) ace (F7)
F	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (3) (ide (A4)	Matrix	Color	% Type 10 Control of the control of	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema	atrix e (F6) ace (F7) (F8) tic Hydric Soils
F	Pro Depth (inches) 0-6 6-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (ide (A4) (ors (A5)	Matrix	Color	% Typ 10 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ded Matrix (S4) x (S5) trix (S6)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema Coast Prairie Redox	atrix e (F6) ace (F7) (F8) tic Hydric Soils
F	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (de (A4) (ers (A5) 10)	Matrix % 100 95 ation, D=Depleti	Color	% Typ 10 (C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Sandy Redo Stripped Ma Loamy Muck	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Ma X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problema	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti	Color	% Typ 10 (C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Sandy Redo Stripped Ma Loamy Muck	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Desence of indicators.) Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti face (A11) Type:	Color 10YR 4/6 ion, RM=Redu	% Typ 10 C 10 C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3)	restures Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Souther	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
SOIL	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) iris (A5) 10) w Dark Surfrface (A12)	Matrix % 100 95 ation, D=Depleti	Color 10YR 4/6 ion, RM=Redu	% Typ 10 C 10 C Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	restures Texture SiCL SiCL **Location	Hydrophytic Vegetat Yes X No Desence of indicators.) Remarks Remarks PL=Pore Lining, M=Max X Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark S	atrix e (F6) ace (F7) (F8) tic Hydric Soils c (A16) asses (F12)
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Restri- HYDR Wetlan X X	Pro Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surf fface (A12) observed): Indicators: Prir r (A1) able (A2) (B1)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color 10YR 4/6 10YR 4/6 ion, RM=Redu color (check all the Water Aquat True A Hydro	% Type 10 Comments of the sedent to document of the sedent of th	Redox Feat De* Loc** CS=Coated Sand grains Indicators: By Mineral (S1) Peat or Peat By Mineral (S4) CS5) By Mineral (S4) CS6) By Mineral (F1) By Mineral (F1) By Mineral (F2) By Mineral (F3) Hydric Soil Pr Wes (B9) By Si (B14) By Odor (C1)	**Location **Location cesent? SiCL **Location cesent?	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Mayery Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table or ayfish Burrows (C8)	atrix e (F6) ace (F7) (F8) tic Hydric Soils ((A16) Surface (F12) ors
Restri- HYDR Wetlan X X	Production	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) (A5) (A5) (A7) observed): Indicators: Prir (A1) able (A2) (B3)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese	meeded to door % Typer	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Dy Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) trix (S6) Xy Mineral (F1) Ed Matrix (F2) Atrix (F3) Hydric Soil Pr Des (B9) 3) S (B14) Odor (C1) Eres on Living Roots Ed Iron (C4)	**Location **Cesent? SiCL **Location **Cesent?	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Ma Very Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Tayfish Burrows (C8) Saturation Visible on Aeria United or Stressed Plant	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	Production Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Watel High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) irs (A5) (A5) (A5) (A5) (A7) observed): Indicators: Prir (A1) able (A2) (B) (B1) osits (B2) (B3) irust (B4)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer	meded to door which the control of t	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Ty Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) Trix (S6) Ey Mineral (F1) Ed Matrix (F2) Attrix (F3) Hydric Soil Pr Type of the property of the propert	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	Property Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suctive Layer (if Remarks: OLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Deposits Algal Mat or Clron Deposits	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) irs (A5) (D) w Dark Surfrface (A12) observed): Indicators: Prir (A1) able (A2) (B) (B3) (rust (B4) (B5)	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches)	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M	meeded to door % Typer	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Ty Mineral (S1) Peat or Peat Ed Matrix (S4) X (S5) trix (S6) Ey Mineral (F1) Ed Matrix (F2) atrix (F3) Hydric Soil Pr Type (Si) Wes (B9) By Mineral (C1) Hydric Soil Pr Type (C1) Type (C2) Type (C3) Type (C4) Ty	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Ma Very Shallow Dark S Other Yes X No Secondary Indicat Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Tayfish Burrows (C8) Saturation Visible on Aeria United or Stressed Plant	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri HYDR Wetlan	Property Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 c=Concentr on (A2) (A3) ide (A4) ide (A4) irrs (A5) ide (A4) ivrs (A5) ide (A2) ible (A2) ible (A2) ible (A2) ible (A3) ible on Aerietated Concentrations	Matrix % 100 95 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other	meeded to door % Typer 10 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr Ves (B9) 3) as (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	resert? **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri HYDR Wetlan	Property Depth (inches) 0-6 6-18	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prir (A1) bble (A2) (B3) (B3) (B5) ide (A4) ers (A5) ide (A6) id	Matrix % 100 95 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present?	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True A Hydro Oxidiz Presse Recer Thin N Guage Other	meeded to door % Typer 10 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 18 Column 18 Column 19 Column 10 Column 10 Column 10 Column 10 Column 10 Column 11 Column 11 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column	Redox Feat De* Loc** CS=Coated Sand grains Indicators: Ly Mineral (S1) Peat or Peat Ed Matrix (S4) Indicators: Hy Mineral (F1) Ed Matrix (F2) Ed Matrix (F3) Hydric Soil Pr Wes (B9) By Si (B14) Dodor (C1) Eres on Living Roots Ed Iron (C4) Lition in Tilled Soil (C6) (C7) Ea (D9) Depth (inches)	resert? **Location **Location **Location Cr SiCL **Location **Location **Location **X **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Mayery Shallow Dark Sother Yes X No Secondary Indicate Urface Soil Cracks (B6) Trainage Patterns (B10) Try-Season Water Table (Table States) Trainage Patterns (C8)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)
Restri- HYDR Wetlan X X	*Type: 0 Depth (inches) 0-6 6-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5)	Matrix % 100 95 ation, D=Depleti Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	color Color 10YR 4/6 10YR 4/6 ion, RM=Redu Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes Yes X Yes X	meeded to door % Typer 10 Column 11 Column 11 Column 11 Column 12 Column 12 Column 13 Column 14 Column 15 Column 16 Column 17 Column 17 Column 18 Column 10 Column	Redox Feat De* Loc** M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr Ves (B9) 3) as (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	**Location **Location **Location Comparison **Location **Location	Hydrophytic Vegetat Yes X No Disence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Max Redox Dark Surface Depleted Dark Surface Redox Depressions Indicators for Problemat Coast Prairie Redox Iron-Manganese Max Very Shallow Dark Stother Yes X No Secondary Indicat urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (rayfish Burrows (C8) atturation Visible on Aeria unted or Stressed Plant elemorphic Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric Soils (A16) asses (F12) Surface (F12) ors (C2) al Imagery (C9) s (D1)

Site:		-S.Baltimore	e-W.Millersport	City/Co	unty:		Fa	irfield County	_Date:	27 Marc	h 2024 Data Po	
Client Invest		L. Vine, E.I	Holt	_State: _	OH	_ Section	i, IOW	nship, Range: Landform	Til	I Plains	S1, T 15N, R 19 Local Relief	Convex
Slope	(%):		Lat. 3	9.80922	8°	Long.		-82.610301°		NAD83	NWI Class:	N/A
Soil M	lap Unit Name: Climatic/hydrolog	Marengo cl	ay loam	o of voo	r?	Y/N	Υ					
	Vegetation			e or yea N		/drology		significantly disturbed				
	Vegetation	N	, Soil	N	or Hy	/drology	N	naturally problematic				
	ormal Circumsta		nt? Y	es	Х	No		- -				
SOWIN		phytic Vege	tation Present?		Х	No No	Χ	-	Is the	DP within	a Wetland?	
	W		rology Present?			No	Χ	-	Yes	X No		
VEGE	TATION											
	Stratum	Plot size:	20'	Absolu	ıte %	Domi	nant	Indicator Statu	10			
	<u>Stratum</u>	FIOL SIZE.		Cov	er	Spec	cies	mulcator State	12	_		
1. 2.						_		-			minance Test W f dominant specie	
3.						-				are OBL. I	FACW. or FAC:	4
4.						-		-			ber of dominant	7
5.						Total Co	wor				cross all strata: dominant specie	
Shrub	Stratum	Plot size:	15'			_ Total CC	vei				FACW, or FAC:	57.14
1.										Prevalence	e Index Worksh	neet
2. 3.										Total OBL spec	% cover of:	x 11
3. 4.						-				FACW spec		\hat{x} \hat{z} $\frac{1}{0}$
5.								-		FAC spec	es 10	x 3 30
Harh 9	Stratum	Plot size:	5'	0		_Total Co	over			FACU speci		x 4 x 5 280
1.	Schedonorus a			55	5	Υ	•	FACU	4	Tot		311
2.	Juncus effusus	3		10		N		OBL	1	<u>.</u>	Prevalence	
3. 4.	Juncus tenuis Carex frankii					N		FAC OBL	<u>3</u>		tic Vegetation In id Test for Hydro	
5.	Trifolium prate			5		N		FACU	4		ninance Test is >	
6.	Dipsacus fullor			<u>5</u>		- N		FACU	4		valence Index is	
7. 8.	Solidago canad	aensis		5		IN		FACU	4		phological Adapt	
0.				95	5	Total Co	ver	-			tors of hydric soil	· ·
	ly Vine Stratum	Plot size:	30'								logy must be pre	
1. 2.	-										disturbed or probl	
				0		Total Co	ver	-		Hydro	phytic Vegetation	on Present?
SOIL	Remarks:									Yes	X No	
JOIL	Pro	file Descri	ption: (Descril	oe to de	pth ne	eeded to	docu	ment the indicator or	confirm	absence	of indicators.)	
	Depth		Matrix	0.1		%	_	Redox Feat			D	
	(inches) 0-6	Color 10YR 4/2	% 100	Col	Or	%	туре	* Loc**	Tex		Remarks	
	6-18	10YR 4/2	95	10YR	4/6	10	С	M	Si			
	*Type: C	=Concentra	ation, D=Deplet	ion, RM=	=Redu			S=Coated Sand grains	**Locat	ion: PL=Po	re Lining, M=Mat	trix
	Histosol (A1)							ndicators: Mineral (S1)		Poo	lox Dark Surface	/E6\
	Histic Epipedo	n (A2)		-				eat or Peat			leted Dark Surfa	` '
	Black Histic (A	3) ်		_		Sandy C	Sleyed	l Matrix (S4)		Red	lox Depressions	(F8) ´
	Hydrogen Sulfi Stratified Layer			-		Sandy F					ors for Problemations st Prairie Redox	
	2 cm Muck (A1			-				Mineral (F1)			-Manganese Mas	
	Depleted Belov	w Dark Surfa	ace (A11)	_		Loamy (Gleye	d Matrix (F2)		Ver	y Shallow Dark S	
Postr	Thick Dark Sur		Typo:			Deplete	d Mati	rix (F3) T		Oth	er	
Kesu	ictive Layer (ii t		Depth (Inches)	:				Hydric Soil Pr	esent?	Yes	X No	
	Remarks:											
	ROLOGY and Hydrology I	ndicators:										
Wetha		Prim	nary Indicators	(check	all th	at apply))			Sec	ondary Indicato	ors
	Surface Water					Stained					oil Cracks (B6)	
Х	_ High Water Ta Saturation (A3)					ic Fauna Aquatic P					Patterns (B10) on Water Table (0	22)
⊢^	Water Marks (I				Hydro	gen Sulfi	de Oc	lor (C1)		Crayfish B	urrows (C8)	,
						zed Rhizo		es on Living Roots			Visible on Aerial Stressed Plants	
	Sediment Depo				D					SHIDTED OF	AUDICEDA PIONTO	
	Sediment Depo Drift Deposits ((B3) ` ´				nce of Rent Iron Re						(D1)
	Sediment Depo Drift Deposits (Algal Mat or Cı Iron Deposits ((B3) rust (B4) B5)			Recer Thin N	nt Iron Re Muck Surf	eduction face (on in Tilled Soil (C6) C7)	X	Geomorph	nic Position (D2) ral Test (D5)	(D1)
	Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Visi	(B3) rust (B4) B5) ble on Aeria			Recer Thin N Guage	nt Iron Re Muck Surf e or Well	eduction face (on in Tilled Soil (C6) C7)	X	Geomorph	nic Position (D2)	(טו)
Field	Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Visi Sparsely Vege	(B3) rust (B4) B5) ble on Aeria tated Conca	ve Surface		Recer Thin N	nt Iron Re Muck Surf e or Well	eduction face (Data	on in Tilled Soil (C6) C7) (D9)	X	Geomorph	nic Position (D2)	(61)
Field	Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Visi	rust (B4) B5) ble on Aeria tated Conca Surface Wa Water Tabl	ave Surface ater Present? e Present?	Yes	Recer Thin N Guage	nt Iron Re Muck Suri e or Well No No	eduction face (Face (Fac	on in Tilled Soil (C6) C7) (D9) Depth (inches) Depth (inches)		Geomorph FAC-Neut	nic Position (D2) ral Test (D5) ors Present?	
	Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Visi Sparsely Vege Observations:	(B3) rust (B4) B5) ble on Aeria tated Conca Surface Wa Water Tabl Saturation	ave Surface ater Present? e Present? Present?	Yes Yes Yes	Recer Thin N Guage Other	nt Iron Re Muck Surf e or Well No No No	eduction face (Faca Data X X X	on in Tilled Soil (C6) C7) (D9) Depth (inches)	Hydro	Geomorph FAC-Neut	nic Position (D2) ral Test (D5) ors Present?	<u>х</u>

Investigator(s):	Site: Client:		AEP	•	City/County: State: OH	Sectio		irfield County nship, Range:	Date:	Sec S1, T 15N, R 19W	
Sol May Left Name Centerbury etil Lonn, 2 to 9 persont Boose. Clinistic/replocy conditions yellor from or year, 1 persons, 2 persons			L. Vine, E.		39.807529°	Long.					е
Vegetation N Soil N Or Hydricology N A brook N N N N N N N N N						es	· ·				
Vegetation M. Soil N. or Phydrology N. naturally problematic	C				N or Hy			significantly disturbed			
SUMMARY OF FINDINGS Hydrollysic Pegestaria Yes X No Is the DP within a Westand? VEGETATION Ties Stratum Plot size: 30" Absolute % Cover Seeing Indicator Status Dominance Test Mortichest 2.2 Number of dominant species that 5.5 No GRID Number of dominant 8.5 No GRID Number of dominant 8.		Vegetation	N N	, Soil	N or Hy	drology					
Phydrophytic Vegetation Present? Yes X No Is the DP within a Wetland?				ent? `	Yes <u>x</u>	No					
Wetland Hydrology Present? Yes X No Ye			ophytic Vege			No					
VEGETATION		V				-					
Tree Stratum			velianu riyu	irology i resent	: 162 V	INU			I 162	A NO	
1	VEGE	TATION			Absolute 9/	Dom	inant			T	
1. Dominance Test Worksheet 2. Shubber of dominant species that 1 3. Total Cover	Tree S	tratum_	Plot size:	30'				Indicator Statu	S		
3	1.									Dominance Test Worksheet	
A											8
Shrub Stratum					-					Total number of dominant	_
Shade Stratum										species across all strata:	8
1.	Charle	Ctratum	Dist size.	451	0	Total C	over			. 100	0.00
2		Stratum	Plot size:	15							
A										Total % cover of:	
Fact Species											
Heth Stratum					-						
1. Juncus effusus 20 Y OBL 1 Total 26 51 2. Scipus poperius 20 Y OBL 1 Hydrophytic Vegetation Indicators: 3. Phalaris arundinacea 15 N FACW 2 Hydrophytic Vegetation Indicators: 4. Carex frankii 10 N FACW 2 Dominance Test is >50% 5. Carex vulpinoidea 10 N FACW 2 Dominance Test is >50% 6. Alisma subcordetum 5 N OBL 1 Repid Test for Hydrophytic Vegetation Facility Science 1 N OBL 1 Provide Parallel Science 1 Provided Parallel Science 1 Provid	0.				0	Total C	over				
2. Scirpus cyperinus 3. Prilateris arundinacee 4. Carex frankii 5. No OBL 1 Rapid Test for Hydrophytic Vegetation Indicators: 4. Carex frankii 6. Alisma subcordatum 5. No OBL 1 Prevalence Index: is 5:0% 6. Alisma subcordatum 5. No OBL 1 Prevalence Index: is 5:0% 7. Typha latifolia 8. Carex muskingumensis 5. No OBL 1 Prevalence Index is 5:30. 8. Carex muskingumensis 5. No OBL 1 Prevalence Index: is 2:30. 90 Total Cover Woody Vine Stratum Plot size: 30. 1. 2. Braining Plot size: 30. 30. 1. 2. Braining Plot size: 30. 30. 1. 2. Braining Plot size: 30. 30. 30. 30. 30. 30. 30. 30. 40. 40. 40. 40. 40. 40. 40. 40. 40. 4			Plot size:	5'		_	,	0.01			
3. Phalaris atundinacea 15 N FACW 2 Hydrophytic Vegetation Indicators: 4. Carex Kuplanoidea 10 N FACW 2 Dominance Test is 550% 5 N OBL 1 Rapid Test for Hydrophytic Veg. 2 Dominance Test is 550% 6. Alisma subcordatum 5 N OBL 1 Problematic s3.0° 7. Typha latifolia 5 N OBL 1 Morphological Adaptations' 7. Typha latifolia 5 N OBL 1 Morphological Adaptations' 8. Carex muskingumensis 5 N OBL 1 Morphological Adaptations' 90 Total Cover 1 Hydrology must be present. unless the same of the sa							<u>(</u>				
4. Carex frankii 5. Carex vulpinoidea 10. N FACW 2 Dominance Test to 1-ydrophytic Veg. 6. Alisma subcordatum 5. N OBL 1 Prevalence Index is 3.0° 7. Typha latifolia 8. Carex muskingumensis 5. N OBL 1 Problematic Hydrophytic Vegetation* 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Woody Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Wyordy Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Wyordy Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 90. Total Cover Wyordy Vine Stratum Plot size: 30° 1. 2. Grank muskingumensis 1. 2. Grank muskingumensis 1. 2. Grank muskingumensis 1. 3. Grank muskingumensis 1. 3. Grank muskingumensis 4. No Siculture Remarks 4. No Siculture Rema							1				1.50
6. Alisma subcordatum 5 N OBL 1 Prevalence Index is 23.0" 7. Typha Istaloile 5 N OBL 1 Morphological Adaptations* 8. Carex muskingumensis 5 N OBL 1 Problematic Hydrophytic Vegetation* 9 Total Cover "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Present? 2. O Total Cover Hydrophytic Vegetation Present? Now Yine Stratum. Plot size: 30' Hydrophytic Vegetation Present? Yes X No OSIL. Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicator or confirm absence of indicators.) Profile Description: (Describe to depth needed to document the Indicators or Problematic Pytrophytic Vegetation Present? Ves X No Sicla Matrix (Sol Carlo Matrix									1	Rapid Test for Hydrophytic Veg.	
7. Typha latifolia											
Moody Vine Stratum Plot size: 30'											
Moody Vine Stratum Plot size: 30'	8.	Carex musking	gumensis					OBL	1		
2.	Woods	/ Vino Stratum	Plot cizo:	30'	90	_Total C	over			,	
Remarks: Profile Description: (Describe to depth needed to document the indicator or confirm absence of indicators.)			='							, ,,	3
Remarks: Yes X No	2.					-				· ·	^
Profile Description: (Describe to depth needed to document the Indicator or confirm absence of Indicators.) Depth	F	Remarks:	1		U	lotal C	over				•
Depth Matrix Redox Features										I TES A INO	
Color % Type* Loc** Texture Remarks	SOIL		- ('I- D'		9-4-4-4	- 1- 14					
### A-18	SOIL	Pro			ibe to depth no	eeded to	docu				
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Coated Sand grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Histosol (A1) Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Histic Epipedon (A2) Sandy Mucky Peat or Peat Black Histic (A3) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Hydrogen Sulfide (A4) Sandy Redox (S5) Indicators for Problematic Hydric Soils Stratified Layers (A5) Stripped Matrix (S6) Coast Prairie Redox (A16) 2 cm Muck (A10) Loamy Mucky Mineral (F1) Iron-Manganese Masses (F12) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Very Shallow Dark Surface (F12) Thick Dark Surface (A12) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes X No Remarks: HYDROLOGY Wetland Hydrology Indicators: Frimary Indicators (check all that apply) Secondary Indicators Surface Water (A1) Water Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Flants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) X Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Saturation Visible on Aerial Imagery (C9) Tin Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) X Geomorphic Position (D2) Tin Deposits (B5) Oxidized Rhizospheres on Living Roots Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Surface (C7) Surface (C7) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) Saturation), if available: Describe Recorded Data (streamy guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Pro Depth (inches)	Color	Matrix %				Redox Featu	res Text	n absence of indicators.)	
Hydric Soil Indicators: Histosol (A1) Sandy Mucky Mineral (S1) Sandy Mucky Peat or Peat Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6) Stratified Layers (A5) Stratified Layers (A5) Stripped Matrix (S6) Stripped Matrix (S6) Coast Prairie Redox (A16) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Field Observations: Surface Water Present? Ves X No Depth (inches) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if availables:	SOIL	Depth (inches)	Color 10YR 4/2	Matrix % 100	Color	%	Туре	Redox Featu	res Text	n absence of indicators.) ture Remarks	
Hydric Soil Indicators: Histosol (A1) Sandy Mucky Mineral (S1) Sandy Mucky Peat or Peat Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6) Stratified Layers (A5) Stratified Layers (A5) Stripped Matrix (S6) Stripped Matrix (S6) Coast Prairie Redox (A16) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Field Observations: Surface Water Present? Ves X No Depth (inches) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if availables:	SOIL	Depth (inches)	Color 10YR 4/2	Matrix % 100	Color	%	Туре	Redox Featu	res Text	n absence of indicators.) ture Remarks	
Hydric Soil Indicators: Histosol (A1) Sandy Mucky Mineral (S1) Sandy Mucky Peat or Peat Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Gleyed Matrix (S4) Black Histic (A3) Sandy Redox (S5) Black Histic (A3) Sandy Redox (S5) Stripped Matrix (S6) Stratified Layers (A5) Stratified Layers (A5) Stripped Matrix (S6) Stripped Matrix (S6) Coast Prairie Redox (A16) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Field Observations: Surface Water Present? Ves X No Depth (inches) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if availables:	SOIL	Depth (inches)	Color 10YR 4/2	Matrix % 100	Color	%	Туре	Redox Featu	res Text	n absence of indicators.) ture Remarks	
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Hydrogen Sulfide (A4) Sandy Redox (S5) Indicators for Problematic Hydric Soils Stratified Layers (A5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Yes X No Remarks: HYDROLOGY Wetland Hydrology Indicators Frimary Indicators (check all that apply) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Inon Deposits (B5) Thin Muck Surface (D7) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes X No Depth (inches) Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Depth (inches) 0-4 4-18	Color 10YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	10	С	Redox Featu * Loc** M	res Text Si	ture Remarks	
Black Histic (A3) Hydrogen Sulfide (A44) Sandy Redox (S5) Hydrogen Sulfide (A49) Stratified Layers (A5) Stratified Layers (A5) Stratified Layers (A5) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Frimary Indicators (check all that apply) Surface Water (A1) X Saturation (A3) X Saturation (A3) Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Inin Muck Surface (C7) Sparsely Vegetated Concave Surface Water Present? Yes No Recox Perimary Indicators (Primary Indicators Present) (Primary Indicators Present) Substitute (Primary Indicators (Primary Indicators Present) (Pri	SOIL	Depth (inches) 0-4 4-18	Color 10YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	% 10	Type C rix, CS	Redox Featu Loc** M Coated Sand grains	res Text Si	ture Remarks	
Hydrogen Sulfide (A4) Stratified Layers (A5) Stratified Layers (A5) Stratified Layers (A6) Stratified Layers (A10) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present? Hydric Soil Present? Wetland Hydrology Indicators: Frimary Indicators (check all that apply) Surface Water (A1) Water Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Wet Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B4) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) Saturation Present? Yes X No Depth (inches) Fyes X No Describe Recorded Data (Stream guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Depth (inches) 0-4 4-18 *Type: 0	Color 10YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	10 Iced Mat Hydric Sandy I	Type C rix, CS Soil I	Redox Featu * Loc** M =Coated Sand grains indicators: Mineral (S1)	res Text Si	in absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6)	
2 cm Muck (A10) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Restrictive Layer (if observed): Type: Depth (Inches): Depth (Inches): Hydric Soil Present? Wetand Hydrology Indicators: Primary Indicators (check all that apply) Surface Water (A1) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators Secondary Indicators Surface Soil Cracks (B6) True Aquatic Plants (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) X Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Guage or Well Data (D9) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes X No Depth (inches) 5 Saturation Present? Yes X No Depth (inches) 5 Yes X No Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Depth (inches) 0-4 4-18 *Type: 0	Color 10YR 4/2 10YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	10 Iced Mat Hydric Sandy I	Type C rix, CS Soil I Mucky	Redox Featu * Loc** M =Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Text Si	in absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Matrix (F2) Depleted Matrix (F3) Other Restrictive Layer (if observed): Type: Depth (Inches): Depth (Inches): Hydric Soil Present? Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Water (A1) Water Stained Leaves (B9) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Surface Water Present? Yes X No Depth (inches) Stream guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr	Matrix	Color 10YR 4/6	% 10 10 10 10 10 10 10 10 10 10 10 10 10	Type C rix, CS Soil I Mucky ucky Pe Gleyed Redox	Redox Feature Re	res Text Si	in absence of indicators.) Iture Remarks IL CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil	ls
Thick Dark Surface (A12) Restrictive Layer (if observed): Type:	SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) A3) Fide (A4) ers (A5)	Matrix	Color 10YR 4/6	10 10 10 10 10 10 10 10 10 10	rix, CS Soil I Mucky ucky Po Gleyed Redox d Matri	Redox Feature Re	res Text Si	in absence of indicators.) ture Remarks CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16)	Is
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (check all that apply) Surface Water (A1) X High Water Table (A2) Water Stained Leaves (B9) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface Field Observations: Surface Water (Inches): Water Marks (B7) Auduatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Drift Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil (C6) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface Field Observations: Surface Water Marks (B7) Surface Soil Cracks (B6) Drainage Patterns (B10) X Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes No Depth (inches) Water Table Present? Yes X No Depth (inches) Yes X No Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:	SOIL	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A	Color 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) (Fide (A4) (Fis (A5) (A5)	Matrix % 100 90 attion, D=Deplet	Color 10YR 4/6	% 10 10 Sandy I 5cm Mt Sandy I Sandy I Strippee Loamy	rix, CS Soil I Mucky Jcky Po Gleyed Redox d Matri Mucky	Redox Feature Re	res Text Si	in absence of indicators.) ture Remarks L CL ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16) Iron-Manganese Masses (F12)	
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Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Other Field Observations: Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes X No Depth (inches) 5 Saturation Present? Yes X No Depth (inches) 5 Saturation Present? Yes X No Depth (inches) 5 Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:	Restric F HYDRo Wetlan	Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ers (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prin r (A1) able (A2) (B3)	Matrix % 100 90 ation, D=Deplet face (A11) Type: Depth (Inches	color 10YR 4/6 tion, RM=Redu tion, RM=Redu water Aquat True A Hydro Oxidiz Prese	miced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhize nce of R	rix, CS Soil I Mucky Joke Ped Gleyed Redox d Matri Mucky Gleyed d Matri Leave id (B13) Plants (ide Od Dospher educe	Redox Feature * Loc** M =Coated Sand grains Indicators: Mineral (S1) Peat or Peat Matrix (S4) (S5) X (S6) Mineral (F1) I Matrix (F2) IX (F3) Hydric Soil Presented Ses (B9) B14) Or (C1) Pes on Living Roots I Iron (C4)	**Locat	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C5) Stunted or Stressed Plants (D1))
Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes No X Depth (inches) Water Table Present? Yes X No Depth (inches) 5 Saturation Present? Yes X No Depth (inches) 5 Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available: Vestor Contact	Restric F HYDRo Wetlan	Pro Depth (inches) 0-4 4-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 c=Concentr on (A2) 33 ide (A4) ers (A5) 10) w Dark Surfrface (A12) observed): Indicators: Prir (A1) able (A2) 8) (B1) oosits (B2) (B3) crust (B4)	Matrix % 100 90 ation, D=Deplet face (A11) Type: Depth (Inches	color 10YR 4/6 tion, RM=Redu tion, RM=Redu water Aquat True A Hydro Oxidiz Prese Recer	miced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ted Rhize nce of R nt Iron Re	rix, CS Soil I Mucky Joke Pedice Sed Matri Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed J Leave Leave J Leave Leav	Redox Feature* Loc** M	**Locat	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Stunted or Stressed Plants (D1) Geomorphic Position (D2))
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Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:	Restric F HYDRo Wetlan	Pro Depth (inches) 0-4 4-18 *Type: (Inches) 1-4-18 *Type: (Inches) *Type: (Inches) *Type: (Inches) Histosol (A1) Histic Epipedo Black Histic (And And And And And And And And And And	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 c=Concentr on (A2) (A3) ide (A4) ide (A4) ide (A4) in (A5) ide (A4) ide (A2) ide (A3) ide (A4)	Matrix % 100 90 ation, D=Depler ation	color 10YR 4/6 110YR 4/6 1	3 % % % % % % % % % % % % % % % % % % %	rix, CS Soil I Mucky Jcky Po Gleyed Redox d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri	Redox Feature Redox Feature Loc** M =Coated Sand grains Indicators: Mineral (S1) Indicators: Indicato	***Locat	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5))
	Restrict Field (Pro Depth (inches) 0-4 4-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentr on (A2) (A3) ide (A4) ide (A4) ifface (A12) observed): Indicators: Prin r (A1) able (A2) (B3) irust (B4) (B5) ible on Aeri etated Conc Surface W Water Tab Saturation	Matrix % 100 90 ation, D=Depler ation	color 10YR 4/6 110YR 4/6 1	miced Material Materi	rix, CS Soil I Mucky Joke Po Gleyed Redox d Matri Mucky Gleyed (B13) Plants ide Od pspher educe eductic face (I Data	Redox Feature* Loc** M	**Locat **Locat X X Hydrol	ion: PL=Pore Lining, M=Matrix X Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soil Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other Yes X No Secondary Indicators Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5))

Site:			e-W.Millersport				airfield County	Date:	27 Ma				UPL-60A
Client: Invest	igator(s):	AEP L. Vine, E.	Holt	State: OH	_Section	n, Tow	nship, Range: Landform	M	Soraines	ec S1, ⁻ Lo	Г 15N, I cal Reli		Convex
Slope	(%):		Lat. 39	9.807445°	Long.		-82.611981°	Datum			VI Clas		N/A
			g silt loam, 2 to 6		es -			_					
C	imatic/nydroid Vegetatior		ns typical for time , Soil		Y/N drology	YN	significantly disturbed						
	Vegetation	N N	_, Soil	or Hy	drology	N	naturally problematic						
	ormal Circumst		ent? Y	es x	No		- -						
SOWIN			etation Present?	Yes	No	Х							
	-	Hydi	ric Soil Present?	Yes X	No		-		DP withi				
	\	Vetland Hyd	Irology Present?	Yes X	No			Yes	N	0)	(
VEGE	TATION												
Tree S	Stratum	Plot size:	30'	Absolute %		inant	Indicator Statu	S					
1.				Cover	Spe	cies				omina	nce Tes	st Works	heet
2.												ecies th	
3.									are OBL				
4. 5.									Total nu species				4
				0	Total Co	over	-					ecies tha	at
	Stratum	Plot size:	15'						are OBL Prevale	,			
1. 2.										al % cov		KSHEEL	
3.									OBL spe			1 x 1	1
4.									FACW s			0 x 2 5 x 3	0
5.				0	Total Co	over			FACU SI			<u>5</u> x 3	<u>15</u> 380
Herb S	Stratum_	Plot size:	5'						UPL spe	ecies		0 x 5	0
1. 2.	Solidago cana Rubus alleghe	adensis		70 15		Υ <u> </u>	FACU FACU	4	Т	otal		<u>01</u> nce Inde	x: 396 x: 3.92
3.	Rosa multiflor			10	N		FACU FACU		Hydropi				
4.	Poa pratensis			5		V	FAC	3	R	apid Te	st for H	ydrophyti	
5. 6.												is >50% x is <u><</u> 3.0°	•
7.												t is <u><</u> 3.0 daptation	
8.												ohytic Veg	
Mood	. Vina Ctratum	Diet eizer	201	100	Total Co	over			*Indi	cators o	f hydric	soil and	wetland
1.	v Vine Stratum	Piot size:							hyd	0,		present,	
2.									l	disturk			
2.	Remarks:			0	Total Co	over						tation P	
2.	Remarks:								Y	rophyti es	c Vege No	tation P	
2.	Remarks:	ofile Descri	iption: (Describ				ment the indicator or Redox Featu		Y	rophyti es	c Vege No	tation P	
2.	Remarks:	ofile Descri	iption: (Describ Matrix		eded to	o docu	ment the indicator or Redox Feature	res Text	absenc	rophyti es e of inc	c Vege No	tation P	
2.	Remarks: Pr Depth (inches) 0-4	ofile Descri	iption: (Describ	e to depth ne	eeded to	Type	Redox Featu	res Text	absence ture	rophyti es e of inc	c Vege No licators	tation P	
2.	Remarks: Pr Depth (inches)	ofile Descri	iption: (Describ	e to depth ne	eded to	o docu	Redox Featu	res Text	absence ture	rophyti es e of inc	c Vege No licators	tation P	
2.	Remarks: Pr Depth (inches) 0-4	ofile Descri	iption: (Describ	e to depth ne	eeded to	Type	Redox Featu	res Text	absence ture	rophyti es e of inc	c Vege No licators	tation P	
2.	Pr Depth (inches) 0-4 4-18	ofile Descri	iption: (Describ Matrix % 100 95	ce to depth ne	eeded to	Type	Redox Featu * Loc** M	Text	absence cure CL	rophyti es e of inc	c Vege No licators	tation Pr X S.)	
2.	Pr Depth (inches) 0-4 4-18	ofile Descri	iption: (Describ Matrix % 100 95	ce to depth ne	seded to % 5 ced Mat	Type C	Redox Featu	Text	absence cure CL	rophyti es e of inc	c Vege No licators	tation Pr X S.)	
2.	Pr Depth (inches) 0-4 4-18 *Type:	color 10YR 3/2 10YR 3/2	iption: (Describ Matrix % 100 95	ce to depth ne	% 5 ced Mat Hydric Sandy I	Type C C crix, CS	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1)	Text	absence ture CL CL CL CL CL CL CL X R	e of inc	c Vege No licators Remark	tation Pi	resent?
2.	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipede	ofile Descri	iption: (Describ Matrix % 100 95	ce to depth ne	% 5 ced Mat Hydric Sandy I	Type C C crix, CS	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat	Text	absence ture CL CL CL CL CL CL CL C	e of inc	c Vege No licators Remark sing, M=	tation Pi X S.) :ss =Matrix ace (F6) urface (F	resent?
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SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belc Thick Dark Su	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12)	Matrix 100 95 ation, D=Depleti	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Sandy I Loamy Loamy	Type C C Irix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Text SIG	A absence ture CL CL CL CL CL CL CL C	e of inceptor incepto	c Vege No licators Remark sing, M= ark Surf Dark S pressic r Proble airie Re ganese	EMATRIX ace (F6) urface (F6) matic Hyddox (A16 Masses	77) Aric Soils (F12)
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedd Black Histic (And Histic	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12)	iption: (Describ Matrix	Color 10YR 6/6 on, RM=Redu	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Sandy I Loamy Loamy	Type C C Irix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Text SIG	A absence ture CL CL CL CL CL CL CL C	e of inceptor incepto	c Vege No licators Remark sing, Mark Surf Dark S epression Proble ganese llow Da	EMATRIX ace (F6) urface (F6) matic Hyddox (A16 Masses	77) Aric Soils (F12)
SOIL Restri	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bejc Thick Dark St ctive Layer (if	ofile Descri	face (A11)	Color 10YR 6/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete	Type C C Irix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec d Mat	Redox Feature Re	Text SIG	x Rocal Indice Control Indice Contro	e of ince Pore Line edox Da epleted edox De ators for on-Mane ery Sha ther	c Vege No licators Remark Remark ark Surf Dark S repression reproble airie Re ganese llow Da	eMatrix ace (F6) urface (F8) matic Hyc dox (A16 Masses rk Surface	77) Aric Soils (F12)
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SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3	ofile Descri	face (A11)	Color 10YR 6/6 0n, RM=Redu (check all that Water Aquati True A	seded to % 5 ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F	Type C Crix, CS: Soil I Mucky P Gleyec Redox d Matr Mucky Gleyec Gleyec A (B13) Plants	Redox Feature* Karling Redox Feature* Marrix Redox Feature*	Text SIG	Absence ture CL CL CL CL CL CL CL C	econda Soil Crae Patterson Wa	c Vege No No licators Remark sing, M= ark Surf Dark S epressic r Proble ganese llow Da C No ry Indiacks (B ns (B10 tter Tab	ace (F6) urface (F6) urface (F6) urface (F8) matic Hyc dox (A16 Masses rk Surfac	77) Aric Soils (F12)
SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A) Water Marks	ofile Descritory Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 100 by Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1)	face (A11)	Color 10YR 6/6 Don, RM=Redu (check all tha Water Aquati True A Hydrog	seded to % 5 ced Mat Hydric Sandy I S	Type C Crix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyed Mucky Gleyec Gleyec Redox A (B13) Plants Glents	Redox Feature Re	Text SIG	Yourse CL CL CL CL CL CL CL C	e of ince Pore Line edox Da epleted edox Da epleted edox Da ators for oast Pra oast Pra oast Pra oast Pra son-Man ery Sha ther es Soil Cra e Patter son Wa Burrow	c Vege No No licators Remark ark Surf Dark S epressic r Proble airie Re ganese gllow Da (No ry India ry India ry India ry (R) ry (R)	ace (F6) urface (F6) urface (F8) matic Hy dox (A16 Masses rk Surface cators 6) 0)	resent?
SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) oosits (B2)	face (A11)	Color 10YR 6/6 On, RM=Redu (check all tha Water Aquati True A Hydrog Oxidiz	ced Mat Hydric Sandy F Schy M Sandy F Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhize	Type C Cirix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec d Matr Mucky Gleyec d Matr Mucky Flants Gleyne Gleyec Gleyec	Redox Feature* Karling Redox Feature* Marrix Redox Feature*	Text SIG	A surface Drainage Crayfish Saturatic Stunted	e of ince Pore Line edox Da epleted edox Da epleted edox Da epry Sha ther es De econda Soil Cra e Patter son Was Burrow on Visib or Stress	c Vege No licators Remark ark Surf Dark S repression Proble airie Re ganese gllow Da (No ry India acks (B the Tabb s (C8) le on A ssed Pla sed Pla	eMatrix ace (F6) urface (F6) matic Hy dox (A16 Masses rk Surface cators 6) 0) ele (C2) erial Ima ants (D1)	resent?
SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedd Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A) Water Marks Sediment Dep Drift Deposits Algal Mat or O	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surf urface (A12) observed): Indicators: Prir r (A1) able (A2) (B1) oosits (B2) (B3) Crust (B4)	face (A11)	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loany Loamy Lo	Type C C C C C C C C C C C C C	Redox Feature* * Loc** M	Text SIG	A Record of the second of the	econda Soil Crae Patter Son Visibor Survey Pore Liri edox Da eepleted eedox Da ators fo poast Pra pon-Mangery Sha ther	c Vege No licators Remark ling, M= ark Surf Dark S pressic r Proble airie Re ganese llow Da (No ry Indi acks (B ns (B1) ter Tab rs (C8) le on A ssed Pla sition (I	eMatrix ace (F6) urface (F6) matic Hy dox (A16 Masses rk Surface cators 6) 0) ele (C2) erial Ima ants (D1)	resent?
SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedd Black Histic (And Depleted Beloward B	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 c=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prir r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5)	face (A11) Type: Depth (Inches):	Color 10YR 6/6 10YR 6/6 On, RM=Reduction (check all that water Aquation True A Hydrog Oxidiz Preser Recen Thin M	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf gen Sulf gen Sulf t Iron Ro fluck Sur	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d d Matrix (S4) (S5) ix (S6) r Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved (B14) dor (C1) rese on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	Text SIG	A surface Drainage Crayfish Saturatic Stunted	econda Soil Crae Patter Son Visibor Survey Pore Liri edox Da eepleted eedox Da ators fo poast Pra pon-Mangery Sha ther	c Vege No licators Remark ling, M= ark Surf Dark S pressic r Proble airie Re ganese llow Da C No ry Indi acks (B ns (B10 tter Tab rs (C8) le on A ssed Pla sition (I	eMatrix ace (F6) urface (F6) matic Hy dox (A16 Masses rk Surface cators 6) 0) ele (C2) erial Ima ants (D1)	resent?
SOIL Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedd Black Histic (And Depleted Beloward B	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 c=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prir r (A1) able (A2) 8) (B1) oosits (B2) (B3) crust (B4) (B5) sible on Aeri	face (A11) Type: Depth (Inches):	Color 10YR 6/6 10YR 6/6 On, RM=Reduction (check all that water Aquation True A Hydrog Oxidiz Preser Recen Thin M	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loany Loamy Lo	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat d d Matrix (S4) (S5) ix (S6) r Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved (B14) dor (C1) rese on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	Text SIG	A Record of the second of the	econda Soil Crae Patter Son Visibor Survey Pore Liri edox Da eepleted eedox Da ators fo poast Pra pon-Mangery Sha ther	c Vege No licators Remark ling, M= ark Surf Dark S pressic r Proble airie Re ganese llow Da C No ry Indi acks (B ns (B10 tter Tab rs (C8) le on A ssed Pla sition (I	eMatrix ace (F6) urface (F6) matic Hy dox (A16 Masses rk Surface cators 6) 0) ele (C2) erial Ima ants (D1)	resent?
Restri HYDR Wetla	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belc Thick Dark Su Ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water T: Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) fide (A4) fide (A5) fino by Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) B) (B1) oosits (B2) (B3) (Carust (B4) (B5) sible on Aerietated Conce Surface W	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes	seded to % 5 ced Mat Hydric Sandy N 5cm Mu Sandy S Sandy S Strippe Loamy Loamy Deplete at apply Stained c Fauna equatic F gen Sulf ed Rhizc for Ref fluck Sur e or Well No	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) If Matrix (F2) mix (F3) Hydric Soil Preserved (S1) eas (B9) (B14) dor (C1) eas on Living Roots If Irilled Soil (C6) C7) (D9) Depth (inches)	**Locat	x Rindic CC Irr Vo O Yu	econda Soil Crae Patter Son Visibor Street Pore Lined Andrews Forest Patter Person Mangery Shatther Person Was Burrow Was	c Vege No No licators Remark sing, M= ark Surf Dark S pressior Proble ganese llow Da (No ry India acks (B ns (B10 acks (B) s (C8) le on A ssed Pla sition (I st (D5)	tation Property X s.) ace (F6) urface (F6) urface (F6) urface (F8) matic Hyc dox (A16 Masses rk Surface cators 6) 0) erial Ima ants (D1) 02)	resent?
Restri HYDR Wetla	Remarks: Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A Water Marks Sediment Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vegi	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) by Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes X	seded to % 5 ced Mat Hydric Sandy N 5cm Mu Sandy F Stripper Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhizz nce of R t Iron Re fluck Sur e or Well No No	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) ix Mineral (F1) ix (F3) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Hydric Soil Preserved (S6) Depth (inches) Depth (inches) Depth (inches) Depth (inches)	**Locat	Absence ture CL CL CL CL CL CL CL C	e of ince Pore Line edox Da epleted edox Da ators for oast Pra on-Man ery Sha ther es > econda Soil Cra e Patter son Wa Burrow on Visib or Stree phic Po utral Te	c Vege No No licators Remark sing, M= ark Surf Dark S pressid r Proble airie Re ganese llow Da (No ry Indiacks (B ns (B10 acks (B) sition (I st (D5))	tation Property X s.) ace (F6) urface (F6) urface (F6) urface (F8) matic Hyc dox (A16 Masses rk Surface cators 6) 0) erial Ima ants (D1) 02)	resent?
Restri HYDR Wetla X X Field	Pr Depth (inches) 0-4 4-18 *Type: Histosol (A1) Histic Epipedc Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belc Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vegi Observations:	ofile Descri Color 10YR 3/2 10YR 3/2 10YR 3/2 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc Surface W Water Tab Saturation Oata (stream	iption: (Describ Matrix	Color 10YR 6/6 10YR 6/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preser Recen Thin M Guage Other Yes Yes Yes X	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf ed Rhize nce of R t Iron Re fluck Sur e or Well No No	Type C C C C C C C C C C C C C	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) If Matrix (F2) mix (F3) Hydric Soil Preserved (S1) eas (B9) (B14) dor (C1) eas on Living Roots If Irilled Soil (C6) C7) (D9) Depth (inches)	**Locat	Absence ture CL CL CL CL CL CL CL C	e of ince Pore Line edox Da epleted edox Da ators for oast Pra on-Man ery Sha ther es > econda Soil Cra e Patter son Wa Burrow on Visib or Stree phic Po utral Te	c Vege No No licators Remark sing, M= ark Surf Dark S pressior Proble ganese llow Da (No ry India acks (B ns (B10 acks (B) s (C8) le on A ssed Pla sition (I st (D5)	tation Property X s.) ace (F6) urface (F6) urface (F6) urface (F8) matic Hyc dox (A16 Masses rk Surface cators 6) 0) erial Ima ants (D1) 02)	resent?

Site:			e-W.Millersport				irfield County	Date:		2024 Data P	
Client	: tigator(s):	AEP N. Houk, N	N. Barnett	_State: OH	_Section	n, Tow	nship, Range: Landform	Mo	Sec S [.] oraines	11, T 15N, R 1 Local Relief	9W Concave
Slope	· (%):	1-3	Lat.	39.793217	Long.		-82.621980	Datum		NWI Class:	PEM
			g silt loam, 2 to one typical for time		es, erode Y/N	ed Y					
Ì	Vegetatio	n N	• •	N or Hy	drology	N	significantly disturbed				
A NI	Vegetatio	n <u>N</u>	_ , Soil		drology	N	naturally problematic				
	ormal Circums		ent? r	'es <u>x</u>	No						
	Hydı		etation Present?		No						
	,		ric Soil Present? Irology Present?		No No		-	Is the I	DP within a \ x No	Wetland?	
Rema	ırks:	TTO GIATIA TIYO	rology i rocont.	100 X	140			1100	X NO		
VEGE	TATION			Absolute %	Domi	nant					
Tree S	Stratum_	Plot size:	30'	Cover	Spec		Indicator Status	S			
1.							- ·-			nance Test W	
2. 3.							· -			ominant speci CW, or FAC:	es that 1
4.							· 			r of dominant	1
5.				0	Total Co	nvor.	-			oss all strata: ominant speci	·
Shrub	Stratum	Plot size:	15'		Total Ct	ovei				CW, or FAC:	100.00
1.							· -			Index Worksl	heet
2. 3.							· -		OBL species	cover of:	x 1 0
4.							-		FACW spec		
5.					-		-		FAC species	3 0	x 3 0
Herb :	Stratum	Plot size:	5'	0	Total Co	over			FACU species		x 4 x 5
1.	Carex vulpino			100	Y	′	FACW	2	Total	100	200
2. 3.							· 		Usalvanhsatia	Prevalence	
3. 4.				-	-		. :			Vegetation I Test for Hydro	
5.							· <u> </u>		x Domin	nance Test is >	-50%
6. 7.	-						·			lence Index is iological Adap	
8.				-						matic Hydrophyti	
				100	Total Co	over			*Indicato	rs of hydric so	il and wetland
Wood 1.	ly Vine Stratum		· · · · · · · · · · · · · · · · · · ·						,	gy must be pre	•
2.										turbed or prob	
	Remarks:			0	Total Co	over			Hydropl Yes	nytic Vegetati x No	on Present?
SOIL	Nemarks.								162	A INU	
				be to depth ne	eded to	docu	ment the indicator or		absence of	indicators.)	
	Depth (inches)	Color	Matrix %	Color	%	Type	Redox Featu	res Text	ure	Remarks	
	0-18	10YR 4/1	85	7.5YR 4/6	15	Ç	M	Si C			
	*T	C Composite	estina D. Domlat	ion DM Dodu	Na-t-	CC	=Coated Sand grains	**!+	an Di Dana	Lining M Ma	
	r ype:	C=Concent	ation, D=Deplet	ion, Rivi=Redu			ndicators:	Locali	ion: PL=Pore	Lining, IVI=IVIA	IUTIX
	Histosol (A1)				Sandy N	Лиску	Mineral (S1)			Dark Surface	
	Histic Epiped Black Histic (eat or Peat Matrix (S4)			ted Dark Surfa Depressions	
	Hydrogen Su				Sandy F					s for Problemat	
	Stratified Lay				Stripped					Prairie Redox	
	2 cm Muck (A Depleted Bel		face (A11)				Mineral (F1) d Matrix (F2)			langanese Ma Shallow Dark S	
	Thick Dark S		iacc (ATT)	x	Deplete				Other	onanow bark c	ourrace (1 12)
Restr	ictive Layer (i	f observed):			-		Under Oak D			., A1	
	Remarks:		Depth (Inches)	:			Hydric Soil Pre	esent?	Yes	x No	
	ROLOGY										
Wetla	and Hydrology		mary Indicators	(check all th	at anni.			1	e _{nn} -	ndary Indicate	ore
	Surface Wate		mary mulcators		Stained		es (B9)		Surface Soil		015
	High Water T	able (A2)		Aquat	ic Fauna	(B13)	,		Drainage Pa	tterns (B10)	
	Saturation (A Water Marks				Aquatic P gen Sulfi				Dry-Season Crayfish Bur	Water Table (C2)
	Sediment De						es on Living Roots				I Imagery (C9)
	Drift Deposits	s (B3)		Prese	nce of Re	educe	d Iron (C4)		Stunted or S	tressed Plants	
	_ Algal Mat or (Iron Deposits				nt Iron Re Nuck Sur		on in Tilled Soil (C6)		Geomorphic FAC-Neutral	Position (D2)	
			al Imagery (B7)		or Well			^	- AU-INGULIAI	1031 (D3)	
	Sparsely Veg	etated Conc	ave Surface	Other			. ,				
rield	Observations		ater Present? le Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydrol	oy Indicator	s Present?	
		Saturation	Present?	Yes	No	х	Depth (inches)	-	Yes	X No	
Descr	ibe Recorded I	Data (stream	guage, monitor	ing well, aerial	photos,	previo	ous inspections), if avail	able:			

			e-W.Millersport	_City/County:			irfield County	Date:		h 2024 D		UPL-50
Client: Invest	: igator(s):	AEP N. Houk, N	I. Barnett	_State: OH	_Sectio	n, Iowi	nship, Range: Landform	Мо	oraines	S11, T 15N Local Re		Convex
Slope	(%):	2-5	Lat.	39.793193	Long.		-82.622009	Datum		NWI Cla		N/A
Soil M	lap Unit Name:	Centerburg	silt loam, 2 to	6 percent slope	es, erode Y/N	ed Y						
	Vegetation			N or Hy	drology		significantly disturbed					
	Vegetation	n <u>N</u>	, Soil	N or Hy	drology		naturally problematic					
	ormal Circums		ent? Y	'es <u>x</u>	No							
		ophytic Vege	etation Present?		No	Х						
	,		ric Soil Present? Irology Present?		No No	X		Is the I	DP within No	a Wetland' x	?	
Rema	rks:	Wolland Hyd	relegy i recent.	100	110	Λ		1100	110			
VEGE	TATION			Absolute %	Dom	inant						
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Status	S				
1.							·		_	minance T		
2. 3.	-			-						f dominant FACW, or F	•	at 0
4.					-					ber of domi		2
5.				0	Tatal C					cross all str		
Shrub	Stratum	Plot size:	15'		Total C	over				FACW, or F	•	0.00
1.									Prevalence	e Index W	orksheet	
2. 3.									Total OBL spec	% cover <u>of:</u>	0 x 1	
3. 4.									FACW spec		0 x 1	
5.									FAC spec		5 x 3	15
Herb S	Stratum	Plot size:	5'	0	Total C	over			FACU speci		75 x 4 20 x 5	
1.	Setaria faberi	i		70			FACU	4	Tot	al	100	415
2.	Zea mays res Panicum virga			<u>20</u> 5			UPL FAC	5	Llyrdu o mby		lence Inde	
3. 4.	Rubus allegh			5		<u>, </u>	FACU	3 4		rtic Vegetar old Test for		
5.										ninance Te		
6. 7.										valence Ind phological		
8.										lematic Hydr		
\^/l-	\/:n n Ctuntuum	Dist sins.	201	100	Total C	over			*Indica	tors of hydr	ric soil and	wetland
1.	v Vine Stratum	Piot Size:	30						,	logy must b	•	
2.										disturbed or	•	
	Remarks:	1		0	Total C	over			Hyard Yes	phytic Veg	•	resent?
SOIL												
	Depth		ption: (Descri l Matrix	be to depth ne	eded to	docui	ment the indicator or on Redox Featu		absence	of indicato	rs.)	7
	(inches)	Color	%	Color	%	Type'	* Loc**	Text	ure	Rema	rks	
	0-18	10YR 4/3	100					Si C	C L			
	*Type:	C=Concentr	⊥ ation, D=Deplet	⊥ ion, RM=Redu	ced Mat	rix, CS	=Coated Sand grains	**Locati	on: PL=Po	re Lining, N	Л=Matrix	
	Historal (A1)						ndicators:		Poo	lox Dark Su	rfood (EG)	
	Histosol (A1) Histic Epiped	on (A2)					Mineral (S1) eat or Peat	:		oleted Dark	` ,	
	Black Histic (A3)			Sandy (Gleyed	Matrix (S4)	:	Rec	lox Depress	sions (F8)	,
	Hydrogen Sul Stratified Lay				Sandy I Stripped					ors for Prob ist Prairie R		
	2 cm Muck (A	\10) [`]			Loamy	Mucky	Mineral (F1)			-Manganes	,	,
	Depleted Belo		ace (A11)				Matrix (F2)	:		y Shallow D	ark Surfac	ce (F12)
Restri	Thick Dark Suictive Layer (if		Type:		Deplete	ed iviatr	IX (F3)		Oth	er		
			Depth (Inches)	:			Hydric Soil Pre	esent?	Yes	N	o x	
	Remarks:											
	nd Hydrology											
	Surface Wate		nary Indicators		at apply Stained		es (R9)			condary Incoming Condar		
	High Water T				ic Fauna					Patterns (B		
	Saturation (A				Aquatic F					on Water Ta		
	Water Marks Sediment De				gen Sulf ed Rhiza		or (C1) es on Living Roots			Burrows (C8 Visible on		nery (C9)
	Drift Deposits						d Iron (C4)		Stunted or	Stressed F	Plants (D1	
	Algal Mat or (on in Tilled Soil (C6)	lacksquare		nic Position		
	Iron Deposits Inundation Vi		al Imagery (B7)		fluck Sur or Well				rac-neut	ral Test (D5))	
	Sparsely Veg	etated Conc	ave Surface	Other								
Field	Observations		ater Present? le Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydral	ov Indiast	ors Preser	nt?	
		Saturation		Yes	No	X X	Depth (inches)	i iyurol	oy indicat Yes			
Descri	ihe Recorded [us inspections) if avail	able.				

Site: Client:		-S.Baltimore	e-W.Millersport			Fairfield County wnship, Range:	_Date::	27 March 2024 Data Po Sec S14, T 15N, R 19	
	igator(s):	L. Vine, E.				Landform		Plains Local Relief	Concave
Slope		A otno cilt l		9.774841°	_Long	-82.628062°	Datum:	NAD83 NWI Class:	PEM
			oam, fan, occas	e of year?	Y/N Y				
	Vegetation	N	, Soil	N or Hy		significantly disturbed			
Are No	Vegetation ormal Circumsta		.,	N or Hy 'es x	rdrology N	naturally problematic			
	IARY OF FIND	NGS				_			
	Hydro		etation Present? ric Soil Present?		_No 	_	ls the DP	within a Wetland?	
	V		rology Present?		No	_		X No	
VEGE	TATION								
		District	001	Absolute %	Dominan	In diagram Otato			
	Stratum_	Plot size:	30'	Cover	Species	Indicator Statu	is		
1. 2.							——INI	Dominance Test W umber of dominant specie	es that
3.							ar	e OBL, FACW, or FAC:	7
4. 5.								otal number of dominant pecies across all strata:	9
				0	Total Cover		Pe	ercent of dominant specie	es that
Shrub 1.	Stratum Rubus alleghe	Plot size:	15'	5	Υ	FACU		e OBL, FACW, or FAC: revalence Index Worksh	
2.	Trubus allegile	IIIGIISIS			- '			Total % cover of:	leer
3.								BL species 1 ACW species 35	x 1 1 x 2 70
4. 5.							F.A	ACW species 35 AC species 30	
luant C	````	Dist!		5	Total Cover		F/	ACU species 8	x 4 32
1.	Stratum Verbena urticii	Plot size: folia	5	20	Υ	FAC	3	PL species 0 Total 74	x 5 <u>0</u> 193
2.	Phalaris aruno			20	Y	FACW	2	Prevalence	Index: 2.61
3. 4.	Physostegia vi			<u>15</u> 15	N N	FACW OBL	2 Hy	ydrophytic Vegetation Ir Rapid Test for Hydro	
5.	Carex frankii			10	N	OBL	1	x Dominance Test is >	50%
6. 7.	Juncus tenuis Carex musking	gumensis		<u>10</u> 5	N N	FAC OBL	3	x Prevalence Index is Morphological Adapt	
8.	Setaria faberi	,		3	N	FACU	4	Problematic Hydrophytic	
///ood/	Vine Stratum	Plot size:	30'	98	Total Cover			*Indicators of hydric soil	
1.	- VIIIC Ottatum	1 101 3120.						hydrology must be pres	·
2.					Total Cover			disturbed or probl	
F	Remarks:			0	Total Cover			Hydrophytic Vegetation Yes X No	
		ofile Descri	ntion: (Descri	-		cument the indicator or	confirm al	Hydrophytic Vegetation Yes X No	
F		I	Matrix	be to depth ne	eeded to do	cument the indicator or Redox Feat	ıres	Hydrophytic Vegetation Yes X No	
F	Pro Depth (inches)	Color	Matrix %	oe to depth ne	eeded to doo	Redox Feat	ures Texture	Hydrophytic Vegetation Yes X No	
F	Pro Depth	Color 10YR 4/2 10YR 4/2	Matrix % 95 85	be to depth ne	eeded to do	Redox Feature Redox Feature	Texture SiL SiL	Hydrophytic Vegetation Yes X No	
F	Depth (inches) 0-10	Color 10YR 4/2	Matrix % 95	Color 10YR 4/6	eeded to doo	Redox Feature Redox Feature	res Texture SiL	Hydrophytic Vegetation Yes X No	
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 (Redox Feati	Texture SiL SiL	Hydrophytic Vegetation Yes X No	
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 C 15 C	Redox Feati	Texture SiL SiL SiCL	Hydrophytic Vegetation Yes X No	on Present?
F	Depth (inches) 0-10 10-13 13-18	Color 10YR 4/2 10YR 4/2 10YR 2/1	Matrix	Color 10YR 4/6 10YR 4/6	% Typ 5 C 15 C	Redox Feati	Texture SiL SiL SiCL **Location	Hydrophytic Vegetation Yes X No bsence of indicators.) Remarks	on Present?
F	Depth (inches) 0-10 10-13 13-18 *Type: (Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra	Matrix	Color 10YR 4/6 10YR 4/6	% Tyl 5 (15 (uced Matrix, (Hydric Soi Sandy Muck	Redox Feato Pe* Loc** M M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat	Texture SiL SiL SiCL **Location	Hydrophytic Vegetation Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Mator New Yes No	on Present?
F	Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentration (A2) 3) ide (A4)	Matrix	Color 10YR 4/6 10YR 4/6	5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Redo	Redox Feature Re	Texture SiL SiL SiCL **Location	Hydrophytic Vegetation Yes X No besence of indicators.) Remarks PL=Pore Lining, M=Mata X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematicators for Problematicators (Indicators for Problematicators (Indicators for Problematicators (Indicators	on Present? Frix (F6) Ce (F7) (F8) C Hydric Soils
F	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra (A2) 3) ide (A4) rs (A5)	Matrix	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma	Redox Feature Re	Texture SiL SiL SiCL **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks EPL=Pore Lining, M=Mate A Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox	on Present? crix (F6) ce (F7) (F8) c Hydric Soils (A16)
F	Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra n (A2) 3) ide (A4) rs (A5)	Matrix % 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc	Redox Feature Re	Texture SiL SiL SiCL **Location	Hydrophytic Vegetation Yes X No besence of indicators.) Remarks PL=Pore Lining, M=Mata X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematicators for Problematicators (Indicators for Problematicators (Indicators for Problematicators (Indicators	rrix (F6) (F8) (F8) (c Hydric Soils (A16) (Sees (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sulf	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6	seded to doo % Typ 5 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc	Redox Feative* M S M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2)	Texture SiL SiL SiCL **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Mat X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas	rrix (F6) (F8) (F8) (c Hydric Soils (A16) (Sees (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belov	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feative* M S M CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2)	Texture SiL SiL SiCL **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other	rrix (F6) (F8) (F8) (c Hydric Soils (A16) (Sees (F12)
SOIL	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12)	Matrix 95 85 100 ation, D=Depleti	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feative* M S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3)	Texture SiL SiL SiCL **Location	Hydrophytic Vegetation Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Uron-Manganese Mase Very Shallow Dark Surface Other	rrix (F6) (F8) (F8) (c Hydric Soils (A16) (Sees (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentra (A2) 3) ide (A4) rs (A5) 10) w Dark Surf fface (A12) observed):	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	5 (CHydric Soi Sandy Muck Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Redox Feative* M S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2) atrix (F3)	Texture SiL SiL SiCL **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other	rrix (F6) (F8) (F8) (c Hydric Soils (A16) (Sees (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY Ind Hydrology I	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentric (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): ndicators: Prin	Matrix 95 85 100 ation, D=Depleti ace (A11) Type:	Color 10YR 4/6 10YR 4/6 ion, RM=Redu	seded to door 15 Control 15 Contr	Redox Feature Redox Redo	res Texture SiL SiL SiCL **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) E Remarks E PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicators	rix (F6) cc (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentra n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrface (A12) observed): ndicators: Prin (A1)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu	seded to doo % Typ 5 (Color Color	Redox Feature Re	res Texture SiL SiCL **Location **Location esent?	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Very Shallow Dark S Other Yes X No Secondary Indicator Secondary Indicator	rix (F6) cc (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3)	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators: Prin (A1) ble (A2)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu (check all the Mater Aquati True A	seded to doo % Typ 5 (15 (15 (Hydric Soi Sandy Muck Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant	Redox Feature Redox Redo	res Texture SiL SiL SiCL **Location **Location cesent?	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mase Very Shallow Dark S Other Yes X No Secondary Indicator Grainage Patterns (B10) Try-Season Water Table (C	on Present? (F6) ce (F7) (F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri- HYDR Wetlan X X	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belo' Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3) Water Marks (Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) ido w Dark Surfrface (A12) observed): rdicators: Prin (A1) ble (A2)) B1)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu Godern 10YR 4/6 Water Aquati True A	seded to doo % Typ 5 C 15 C 15 C Hydric Soi Sandy Muck Sandy Gley Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide (C)	Redox Feato Redox Feato Redox Feato Redox Feato M S M S S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) kry Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr Ves (B9) 3) S (B14) Odor (C1)	res Texture Sil Sil SiC **Location **Location control sil SiC **Location Control Contro	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicator Urface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (Crayfish Burrows (C8)	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12)
Restri- HYDR Wetlan X X	Production Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) 10) w Dark Surfface (A12) observed): rdicators: Prin (A1) ble (A2) bl (B3)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Head of the Water Aquati True Aquati Hydro Oxidiz Preset	seded to door with the	Redox Feato Redox Feato Redox Feato M Selection Redox Feato M Redox Fea	res Texture Sil Sil SiCL **Location **Location control contr	Hydrophytic Vegetation Yes X No bsence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark SOther Yes X No Secondary Indicator Unificator Soil Cracks (B6) Prainiage Patterns (B10) Pry-Season Water Table (Crayfish Burrows (C8) Patterns Visible on Aerial Counted or Stressed Plants	rix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) rs
Restri- HYDR Wetlan X X	Production Depth (inches) 0-10 10-13 13-18 *Type: (Inches) 13-18 *Type: (Inches) Black Histic (Inches) Black Histic (Inches) Black Histic (Inches) Stratified Laye 2 cm Muck (Inches) Stratified Laye 2 cm Muck (Inches) Thick Dark Suider Cology Thick Dark Suider Cology Thick Dark Suider Cology Thick Dark Suider Thick Dark Suider Cology Surface Water High Water Ta Saturation (Inches)	Color 10YR 4/2 10YR 4/2 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) io) w Dark Surfrface (A12) observed): ndicators: Prin (A1) ble (A2) bl) B1) osits (B2) (B3) rust (B4)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Water Aquati True A Hydrog Oxidiz Presei Recen	seded to door with the	Redox Feato Redox Feato Redox Feato M Selection M Redox M Redox Feato M	res Texture Sil Sil SiC **Location **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Redox Dark Surface Depleted Dark Surface Pepleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicator Urface Soil Cracks (B6) Rainage Patterns (B10) Regy-Season Water Table (Crayfish Burrows (C8) Reduration Visible on Aerial Reduction Visible on Aerial	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) Imagery (C9)
Restri- HYDR Wetlan X X	Production Depth (inches) 0-10 10-13 13-18 *Type: (Inches) 13-18 *Type: (Inches) *Type:	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentra In (A2) 3) ide (A4) irs (A5) io) w Dark Surfrface (A12) observed): In (A2) In (A2) In (A2) In (A2) In (A3) In (A3) In (A4) In (A5)	Matrix % 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General Hamman Aquati True A Hydro Oxidiz Presei Recen Thin M	seded to door with the	Redox Feato Redox Feato Redox Feato M Selection M Redox Feato M Redox F	res Texture Sil Sil SiC **Location **Location	Hydrophytic Vegetation Yes X No bsence of indicators.) Remarks Remarks Remarks Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark SOther Yes X No Secondary Indicator Unificator Soil Cracks (B6) Prainiage Patterns (B10) Pry-Season Water Table (Crayfish Burrows (C8) Patterns Visible on Aerial Counted or Stressed Plants	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) Imagery (C9)
Restri HYDR Wetlan	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belov Thick Dark Sult ctive Layer (if Remarks: OLOGY Ind Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits (Inundation Vis Sparsely Vege	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators: Prin (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) B5) ible on Aeriatated Conce	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) nary Indicators	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu Guerry Aquati True A Hydro Oxidiz Prese Recen Thin M Guage Other	seded to doo % Typ 5 (C) 15 (C) 15 (C) 15 (C) Hydric Soi Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muc Loamy Gley Cany Gley Sandy Redo Stripped Ma Loamy Huc Loamy Gley Sandy Redo Stripped Ma Loamy Huc Loamy Gley Sandy Redo The Company Muc Loamy Gley Sandy Redo The Company Muc Loamy Gley The Company Muc Loamy Muc	Redox Feative* CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr ves (B9) 3) s (B14) odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	res Texture Sil Sil SiC **Location **Location	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Redox Dark Surface Depleted Dark Surface Pepleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicator Urface Soil Cracks (B6) Rainage Patterns (B10) Regy-Season Water Table (Crayfish Burrows (C8) Reduration Visible on Aerial Reduction Visible on Aerial	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) Imagery (C9)
Restri HYDR Wetlan	Pro Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belov Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Inundation Vis	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri n (A2) 3) ide (A4) rs (A5) 10) w Dark Surfrace (A12) observed): ndicators: Prin (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) B5) ible on Aeriatated Conca	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface ater Present?	Color 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu ion, RM=Redu Water Aquati True A Hydro Oxidiz Presee Recen Thin M Guage Other	seded to doo % Typ 5 (C) 15 (C) 15 (C) 15 (C) Hydric Soi Sandy Muck- Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted Ma Loamy Gley Depleted Ma Loamy Gley Company Gley Com	Redox Feative* M	#*Location #*Location #*Location #*Location SiL SiCL **Location Ci Ci Ci Ci Ci Ci Ci C	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Remarks PL=Pore Lining, M=Mate X Redox Dark Surface Depleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicator Uraface Soil Cracks (B6) rainage Patterns (B10) ry-Season Water Table (Crayfish Burrows (C8) aturation Visible on Aerial funted or Stressed Plants eomorphic Position (D2) AC-Neutral Test (D5)	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) Imagery (C9)
Restri- HYDR Wetlan X X	Depth (inches) 0-10 10-13 13-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A' Depleted Belo' Thick Dark Sul ctive Layer (if Remarks: OLOGY nd Hydrology I Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Inundation Vis Sparsely Vege Observations:	Color 10YR 4/2 10YR 4/2 10YR 2/1 10YR 2/1 10YR 2/1 C=Concentri (A2) 3) ide (A4) rs (A5) ide (A4) ide (A6) ide (A6	Matrix 95 85 100 ation, D=Depleti ace (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	Color 10YR 4/6 10YR 4/6 10YR 4/6 10YR 4/6 ion, RM=Redu General State of the state	seded to door with the	Redox Feative* CS=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) atrix (F3) Hydric Soil Pr ves (B9) 3) s (B14) odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	res Texture Sil Sil SiC **Location **Location Comparison But Sic **Location And Sic **Location And Sic **Location And Sic **Location And Sic And And And Sic And And And And Sic And	Hydrophytic Vegetatic Yes X No bsence of indicators.) Remarks Remarks Redox Dark Surface Depleted Dark Surface Pepleted Dark Surface Redox Depressions (Indicators for Problematic Coast Prairie Redox Iron-Manganese Mas Very Shallow Dark S Other Yes X No Secondary Indicator Urface Soil Cracks (B6) Rainage Patterns (B10) Regy-Season Water Table (Crayfish Burrows (C8) Reduration Visible on Aerial Reduction Visible on Aerial	crix (F6) ce (F7) F8) c Hydric Soils (A16) sses (F12) urface (F12) Imagery (C9)

Site:			e-W.Millersport				irfield County	Date:	27 March 2024		UPL-41
Client	: igator(s):	AEP L. Vine, E.	Holt	State: OH	_Sectio	n, Tow	nship, Range: Landform	Flor	Sec S14, T 15 od Plains Local R		onvex
Slope	(%):		Lat. 3	9.774898°	Long.		'-82.628027°	Datum			N/A
			oam, fan, occas			.,		-		-	
(imatic/nydroio Vegetatior		ns typical for time , Soil	e or year <i>?</i> N or Hy	Y/N drology		significantly disturbed				
	Vegetation	n N	, Soil	N or Hy	drology		naturally problematic				
	ormal Circumst //ARY OF FIND		ent? Y	es <u>x</u>	No		-				
SOWIN			etation Present?	Yes	No						
		Hydr	ric Soil Present?	Yes X	No		-		DP within a Wetland	ქ?	
	V	Vetland Hyd	Irology Present?	Yes	No	Χ		Yes	No		
VEGE	TATION										
Tree S	Stratum	Plot size:	30'	Absolute %		inant	Indicator Statu	S			
1.				Cover	Spe	cies			Dominance -	Test Worksh	neet
2.									Number of dominant		
3.									are OBL, FACW, or Total number of don		
4. 5.									species across all st		8
	_			0	Total C	over	-		Percent of dominant	species that	37.50
Shrub 1.	Stratum Rubus alleghe	Plot size:	15'	15	,	′	FACU	4	are OBL, FACW, or Prevalence Index V	-	
2.	Rubus occen			5		<u>'</u>	UPL	5	Total % cover o		
3.	Elaeagnus an	gustifolia		5	1	1	FACU	4	OBL species	1 x 1	1
4. 5.	-								FACW species FAC species	0 x 2 10 x 3	30
0.	-			25	Total C	over	-		FACU species	90 x 4	360
	Stratum	Plot size:		70		,	E4011		UPL species	15 x 5	75
1. 2.	Schedonorus Brassica rapa		JS	70 10		<u>′ </u>	FACU UPL	<u>4</u> 5	Total Previ	<u>116</u> alence Index	466 4.02
3.	Plantago majo			10	1		FAC		Hydrophytic Vegeta	ation Indicat	ors:
4.	Carex frankii			10	1	1	OBL	1	Rapid Test for		: Veg.
5. 6.									Dominance To Prevalence In		
7.							-		Morphologica	Adaptations	
8.				100	Total C	over			Problematic Hyd		
Wood	v Vine Stratum	Plot size:	30'	100	Total C	Ovei			*Indicators of hydrology must		
1.							-		, ,,	or problemation	
2.	-			0	Total C	over	-		Hydrophytic Ve	•	
	Remarks:			0	Total C	over			Hydrophytic Ve	•	
		ofile Descri	ntion: (Describ				ment the indicator or	confirm	Hydrophytic Ve Yes I	egetation Pre	
	Pro Depth		Matrix	pe to depth ne	eeded to	docu	ment the indicator or Redox Featu	res	Hydrophytic Ve Yes I	egetation Pre No X ors.)	
	Property (inches)	Color	Matrix %		eeded to	docu		res Tex	Hydrophytic Veryes In absence of indicate	egetation Pre No X ors.)	
	Pro Depth		Matrix % 100	pe to depth ne	eeded to	docu	Redox Featu	res Tex Sa	Hydrophytic Ve Yes I	egetation Pre No X ors.)	
	Depth (inches)	Color 10YR 3/3	Matrix % 100 96	e to depth ne	eeded to	Type	Redox Featu	res Tex Sa	Hydrophytic Veryes In absence of indicate ture Rem	egetation Pre No X ors.)	
	Property Depth (inches) 0-6 6-9	Color 10YR 3/3 10YR 4/2	Matrix % 100 96	e to depth ne	eeded to	Type	Redox Featu	res Tex Sa	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL	egetation Pre No X ors.)	
	Depth (inches) 0-6 6-9 9-18	Color 10YR 3/3 10YR 4/2 10YR 3/3	Matrix	Color 10YR 5/6	eeded to	Type	Redox Featu	res Tex Sa: Sa: Sa:	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL	ors.)	
	Depth (inches) 0-6 6-9 9-18	Color 10YR 3/3 10YR 4/2 10YR 3/3	Matrix	Color 10YR 5/6	% 4 ced Mat	Type C rix, CS	Redox Featu * Loc** M =Coated Sand grains ndicators:	res Tex Sa: Sa: Sa:	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL Silc Silc Silc Silc Silc Silc Silc Silc	egetation Pre No X ors.) arks M=Matrix	
	Depth (inches) 0-6 6-9 9-18 *Type:	Color 10YR 3/3 10YR 4/2 10YR 3/3	Matrix	Color 10YR 5/6	% 4 ceed Mat Hydric Sandy I	Type C Crix, CS	Redox Featu * Loc** M =Coated Sand grains ndicators: Mineral (S1)	res Tex Sa: Sa: Sa:	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL X Redox Dark S	egetation Pre No X ors.) arks M=Matrix Gurface (F6)	esent?
	Pr. Depth (inches) 0-6 6-9 9-18 *Type:	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr	Matrix	Color 10YR 5/6	eeded to % 4 ced Mat Hydric Sandy I 5cm Mu Sandy (Type C Crix, CS Soil I Mucky Jucky P Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4)	res Tex Sa: Sa: Sa:	Hydrophytic Veryes I n absence of indicate ture Rem SiL	m=Matrix M=Matrix Gurface (F6) K Surface (F7) Signification (F8)	esent?
	Pr. Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sult	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4)	Matrix	Color 10YR 5/6	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I	Type C Crix, CS Soil I Mucky Jucky P Gleyec Redox	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	res Tex Sa: Sa: Sa:	Hydrophytic Veryes I n absence of indicate ture Rem SiL SiL SiL sich tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Depres Indicators for Pro	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7) esions (F8) blematic Hydr	esent?
	Pr. Depth (inches) 0-6 6-9 9-18 *Type:	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5)	Matrix	Color 10YR 5/6	ced Mat Hydric Sandy I Sandy I Sandy I Stripped	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	res Tex Sa: Sa: Sa:	Hydrophytic Veryes I n absence of indicate ture Rem SiL	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7) ssions (F8) blematic Hydr Redox (A16)	esent?
	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf	Matrix % 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Tex Sa: Sa: Sa:	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL Sil Lion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Depres Indicators for Pro Coast Prairie Iron-Mangane Very Shallow	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7) ssions (F8) blematic Hydr Redox (A16) sse Masses (less Masses	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy (Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	res Tex Sa: Sa: Sa:	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Depresent Redox D	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7) ssions (F8) blematic Hydr Redox (A16) sse Masses (I	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7) ssions (F8) blematic Hydr Redox (A16) sse Masses (I	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12)	Matrix % 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other	M=Matrix M=Matrix Gurface (F6)	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sulictive Layer (if Remarks:	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed):	Matrix % 100 96 100 ation, D=Depleti	Color 10YR 5/6 on, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy	Type C C rix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other	M=Matrix M=Matrix Gurface (F6)	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology	Color 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prir	Matrix % 100 96 100 ation, D=Depleti	color 10YR 5/6 non, RM=Redu	ced Mat Hydric Sandy I Sandy I Strippe Loamy Loamy Deplete	Type C C rix, CS Soil I Mucky Gleyec Redox Mucky Gleyec d Matr Mucky Gleyec d Matr	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL tion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Depres Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other Yes X I	egetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7 ssions (F8) blematic Hydr Redox (A16) ese Masses (I) Dark Surface No	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Sulictive Layer (if Remarks: OLOGY nd Hydrology Surface Wate	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches):	Color 10YR 5/6 on, RM=Redu (check all that Water	ced Mat Hydric Sandy I Sandy O Sandy O Sandy O Sandy O Deplete	Type C C rix, CS: Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleyed d Matr	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL sicion: PL=Pore Lining, X Redox Dark S Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other Yes X I Secondary Ir Surface Soil Cracks	egetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) ssions (F8) blematic Hydr Redox (A16) sse Masses (I) Dark Surface No ndicators (B6)	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: COLOGY Ind Hydrology	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches):	Color 10YR 5/6 on, RM=Redu (check all the Water Aquati	ced Mat Hydric Sandy I Sandy I Strippe Loamy Loamy Deplete	Type C Crix, CS Soil I Mucky ucky P Gleyec Redox d Matr Mucky Gleyec d Mat	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes n absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL Sin A Redox Dark Sin Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other Yes X Secondary Ir Surface Soil Cracks Drainage Patterns (I	egetation Pre No X ors.) arks M=Matrix Gurface (F6) x Surface (F7 ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10)	esent?
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: • Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulfactive Layer (if Remarks: OLOGY nd Hydrology Surface Water High Water Ta Saturation (A3 Water Marks)	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 8) (B1)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches):	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf	Type C Trix, CS Soil I Mucky John Mucky Gleyec Redox d Matr Mucky Gleyec Gle	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) Eat or Peat I Matrix (S4) (S5) Exix (S6) I Mineral (F1) I Matrix (F2) I Mineral (F2) I Matrix (F3) Hydric Soil Preses (B9) (B14) For (C1)	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiC SiL SiC	megetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10) Fable (C2) 8)	ric Soils F12) (F12)
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: • *T	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33 fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 8) (B1) oosits (B2)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches):	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Oxidiz	ced Mat Hydric Sandy I Stripped Loamy Loamy Deplete at apply gen Sulf ed Rhize	Type C C C C C C C C C C C C C	Redox Feature* Loc** M	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiC	megetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10) Fable (C2) 8) n Aerial Imag	ric Soils F12) (F12)
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulfus Care Muck (A Depleted Beloward Thick Dark Sulfus Cology and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks Sediment Depoposits Algal Mat or Cologo Cologo Care Depoposits Algal Mat or Cologo Cologo Care Depoposits Algal Mat or Cologo Cologo Care Depoposits Cologo Care Depoposits Algal Mat or Cologo Cologo Care Depoposits Care Depoposits Algal Mat or Cologo Cologo Care Depoposits Care D	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) oosits (B2) (B3) Crust (B4)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches):	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Preseger Recen	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna quatic F gen Sulf gen Sulf ed Rhiz nce of R it Iron Ro	Type C C C C C C C C C C C C C	Redox Feature* Loc** M	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL	egetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) seions (F8) blematic Hydr Redox (A16) se Masses (I) Dark Surface No ndicators (B6) B10) Fable (C2) 8) n Aerial Imag Plants (D1) n (D2)	ric Soils F12) (F12)
SOIL	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Suictive Layer (if Remarks: COLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks Sediment Deposits Algal Mat or Colron Deposits	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) 8) (B1) oosits (B2) (B3) rust (B4) (B5)	Matrix % 100 96 100 ation, D=Depleti Type: Depth (Inches):	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Presei Recen Thin M	ced Mat Hydric Sandy I Stripper Loamy Loamy Deplete at apply Stained to Fauna quatic F gen Sulf ed Rhizo nce of R t Iron R Muck Sulf	Type C C C Soil I Mucky Gleyec Redox Mucky Gleyec Mucky Gleyec Mucky Gleyec Gley	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved Bes (B9) (B14) Hor (C1) Hes on Living Roots d Iron (C4) In in Tilled Soil (C6) (C7)	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiL SiC SiL SiC	egetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) seions (F8) blematic Hydr Redox (A16) se Masses (I) Dark Surface No ndicators (B6) B10) Fable (C2) 8) n Aerial Imag Plants (D1) n (D2)	ric Soils F12) (F12)
SOIL	Property (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sulictive Layer (if Remarks: COLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5) sible on Aeri	Matrix % 100 96 100 ation, D=Depleti Type: Depth (Inches): mary Indicators	Color 10YR 5/6 10YR 5/6 on, RM=Redu Water Aquati True A Hydroi Oxidiz Presei Recen Thin M Guage	ced Mat Hydric Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna quatic F gen Sulf gen Sulf ed Rhiz nce of R it Iron Ro	Type C C C Soil I Mucky Gleyec Redox Mucky Gleyec Mucky Gleyec Mucky Gleyec Gley	Redox Feature * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preserved Bes (B9) (B14) Hor (C1) Hes on Living Roots d Iron (C4) In in Tilled Soil (C6) (C7)	Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL	egetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7) seions (F8) blematic Hydr Redox (A16) se Masses (I) Dark Surface No ndicators (B6) B10) Fable (C2) 8) n Aerial Imag Plants (D1) n (D2)	ric Soils F12) (F12)
Restri	Property Depth (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Suictive Layer (if Remarks: COLOGY and Hydrology Surface Water High Water Ta Saturation (A3 Water Marks Sediment Deposits Algal Mat or Colron Deposits	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) ers (A5) 10) ww Dark Surfurface (A12) observed): Indicators: Prir r (A1) able (A2) B) (B1) oosits (B2) (B3) (B3) (B5) sible on Aerietated Concentrated C	Matrix % 100 96 100 ation, D=Depleti Type: Depth (Inches): mary Indicators al Imagery (B7) ave Surface	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Presei Recen Thin M	ced Mat Hydric Sandy I Stripper Loamy Loamy Deplete at apply Stained to Fauna quatic F gen Sulf ed Rhizo nce of R t Iron R Muck Sulf	Type C C C Soil I Mucky Gleyec Redox Mucky Gleyec Mucky Gleyec Mucky Gleyec Gley	Redox Feature* Loc** M	res Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiL Sin Redox Dark Sin Depleted Dark Redox Deprese Indicators for Pro Coast Prairie Iron-Mangane Very Shallow Other Yes X Secondary In Surface Soil Cracks Drainage Patterns (In Dry-Season Water Torayfish Burrows (Coatturation Visible or Stunted or Stressed Geomorphic Position FAC-Neutral Test (December 2017)	megetation Pre No X ors.) arks M=Matrix Gurface (F6) K Surface (F7 ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10) Fable (C2) B) A Aerial Imag Plants (D1) n (D2) D5)	ric Soils F12) F12)
Restri	Property (inches) 0-6 6-9 9-18 *Type: Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Sulf ictive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A3 Water Marks (A4 Water Marks (A4 Water Marks (A5 Sediment Dep Drift Deposits Algal Mat or Collino Deposits Inundation Vis Sparsely Vege	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) A3) fide (A4) fide (A4) fide (A4) fide (A4) fide (A4) fide (A4) fide (A2) fide (A5) fide (A5) fide (A6)	Matrix % 100 96 100 ation, D=Depleti face (A11) Type: Depth (Inches): mary Indicators al Imagery (B7) ave Surface ater Present? le Present?	Color 10YR 5/6 10YR 5/6 On, RM=Redu Water Aquati True A Hydrog Oxidiz Preset Recen Thin M Guage Other Yes Yes	ced Mate Hydric Sandy I Loamy Loamy Deplete Sandy I I Stained in Fauna Aquatic Fagen Sulfed Rhizzance of Rat Iron Round I Iron R	Type C C Type C C C Soil I Mucky Gleyed Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Gleyed Gleyed Gleyed I Leave Gleyed Gleyed	Redox Feature* Loc** M	res Tex Sa: Sa: Sa: **Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiL Sin SiL SiL Sin SiL Sin	megetation Pre No X ors.) arks M=Matrix Gurface (F6) « Surface (F7 ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10) Fable (C2) B) A Aerial Imag Plants (D1) n (D2) D5)	ric Soils F12) F12)
Restri	Property (inches) 0-6 6-9 9-18 Histosol (A1) Histic Epipedo Black Histic (A) Hydrogen Sull Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark Sulictive Layer (iffer a layer of the la	Color 10YR 3/3 10YR 4/2 10YR 3/3 10YR 4/2 10YR 3/3 C=Concentr on (A2) 33 fide (A4) fide (A4) fide (A4) for (A5) 10) w Dark Surfurface (A12) observed): Indicators: Prin r (A1) able (A2) 8) (B1) for (B3) frust (B4) (B5) sible on Aericetated Conce Surface W Water Tab Saturation	Matrix % 100 96 100 ation, D=Depleti Type: Depth (Inches): mary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	Color 10YR 5/6 10YR 5/6 on, RM=Redu (check all the Water Aquati True A Hydrog Oxidiz Presel Recen Thin M Guage Other Yes Yes Yes	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna gen Sulf ed Rhize nce of R it Iron R fluck Sule or Well No No	Type C C Irix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec Gleye	Redox Feature* Loc** M	**Locat	Hydrophytic Veryes In absence of indicate ture Rem SiL SiL SiL SiL SiL SiL SiL SiL Sin SiL SiL Sin SiL Sin	megetation Pre No X ors.) arks M=Matrix Gurface (F6) K Surface (F7 ssions (F8) blematic Hydr Redox (A16) see Masses (I Dark Surface No ndicators (B6) B10) Fable (C2) B) A Aerial Imag Plants (D1) n (D2) D5)	ric Soils F12) F12)

Site:			re-W.Millersport				airfield County	Date:	27 March 2	2024 Data	Point:	WL-41A
Client	: igator(s):	AEP L. Vine, E.	.Holt	State: OH	_Sectior	n, Tow	nship, Range: Landform	Floo	od Plains	Local Relief	Con	cave
Slope	(%):		Lat. 3	9.774189°	Long.		-82.628267°	Datum		NWI Class:		EM
Soil M	lap Unit Name	e: Aetna silt l	loam, fan, occas	ionally flooded	l Y/N	Υ						
	Vegetatio	on N	, Soil	N or Hy	drology	N	significantly disturbed					
A N.I	Vegetation		_,		drology	N	naturally problematic					
	ormal Circum: //ARY OF FIN		ent? Y	es <u>x</u>	No		-					
		drophytic Veg	etation Present?		No		_					
		, .	ric Soil Present? drology Present?		No No		-	Is the Yes	DP within a \ X No	Vetland?		
		vvctiana riye	arology i resent:	163 X	INO			1163	A 140			
VEGE	TATION			Absolute %	Domi	nont			I			
Tree S	Stratum	Plot size:	30'	Cover	Spec		Indicator Status	S				
1.										nance Test		et
2. 3.							-		Number of dare OBL, FA			8
4.					· 				Total numbe			8
5.									species acro			0
Shrub	Stratum	Plot size:	15'	0	Total Co	over			Percent of do are OBL, FA	•		100.00
1.	Ott at at at a	1 101 0120.							Prevalence	Index Work		
2.							-: -		Total % OBL species		- x 1	1
3. 4.									FACW species		_ x ı -) x 2	80
5.									FAC species	25	x 3	75
Herb 9	Stratum	Plot size:	5'	0	Total Co	over			FACU species UPL species		<u>)</u> x 4) x 5	0 0
1.	Carex vulpir	noidea		20	Y		FACW	2	Total	66		156
2. 3.	Apocynum c Carex musk	annabinum		15 10	N		FAC OBL	<u>3</u>	Hydrophytic	Prevalenc	_	2.36
3. 4.	Epilobium co			10	N		OBL	1		Test for Hyd		
5.	Cinna arund			10	N		FACW	2	x Domin	ance Test is	>50%	J
6. 7.	Poa pratens	ıs :hum lateriflor	rum	10	N		FAC FACW	2		ence Index i ological Ada		
8.	Lycopus am			5	N	1	OBL	1		natic Hydroph		tion*
\\\ood	v Vine Stratur	m Dieteizer	201	90	Total Co	over			*Indicator	s of hydric s	oil and we	etland
<u>vv 0</u> 00	y virie Stratur											
1.		11 100 3126.	30						, .	y must be p		less
		<u>11</u> 1 10t 312e.	30						dist	turbed or pro	blematic	
1. 2.	Remarks:	II I lot size.	30	0	Total Co	over			dist		blematic	
1. 2.	Remarks:						ment the indicator or	confirm	disi Hydroph Yes	urbed or pro ytic Vegeta X No	blematic	
1. 2.	Remarks:	Profile Descr	iption: (Descrik	pe to depth ne	eded to	docu	ment the indicator or o		disi Hydroph Yes	iurbed or pro nytic Vegeta X No indicators.)	blematic	
1. 2.	Remarks: F Depth (inches)	Profile Descr	iption: (Descrik Matrix %		eded to	docu		res Tex	Hydroph Yes absence of	urbed or pro ytic Vegeta X No	blematic	
1. 2.	Remarks:	Profile Descr	iption: (Descrik Matrix % 100	pe to depth ne	eded to	docu	Redox Featu	res	Hydroph Yes absence of	iurbed or pro nytic Vegeta X No indicators.)	blematic	
1. 2.	Remarks: F Depth (inches) 0-2	Profile Descr Color 10YR 4/2	iption: (Descrik Matrix % 100	pe to depth ne	eeded to	doc u	Redox Featu	res Tex	Hydroph Yes absence of	iurbed or pro nytic Vegeta X No indicators.)	blematic	
1. 2.	Remarks: F Depth (inches) 0-2	Profile Descr Color 10YR 4/2	iption: (Descrik Matrix % 100	pe to depth ne	eeded to	doc u	Redox Featu	res Tex	Hydroph Yes absence of	iurbed or pro nytic Vegeta X No indicators.)	blematic	
1. 2.	Remarks: Popth (inches) 0-2 2-18	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix % 100 97	Color	% 3	Type C	Redox Featu * Loc** M S=Coated Sand grains	res Texi Si	Hydroph Yes a absence of	urbed or pro nytic Vegeta X No indicators.)	blematic	
1. 2.	Remarks: F Depth (inches) 0-2 2-18 *Type	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix % 100 97	Color	% 3 ced Mati	Type C Crix, CS	Redox Featu * Loc** M S=Coated Sand grains ndicators:	res Texi Si	Hydroph Yes absence of ture L CL ion: PL=Pore	turbed or pronytic Vegeta X No indicators.) Remarks Lining, M=M	blematic tion Pres	
1. 2.	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper	Color 10YR 4/2 10YR2/1 : C=Concentu	iption: (Descrit Matrix % 100 97	Color	eeded to % 3 ced Matr Hydric Sandy M	Type C Crix, CS Soil I	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Texi Si	Hydroph Yes absence of ture iiL CL ion: PL=Pore X Redox Deplet	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur	latrix e (F6) face (F7)	
1. 2.	Remarks: Properth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic	Color 10YR 4/2 10YR2/1 :: C=Concentr) don (A2) (A3)	iption: (Descrit Matrix % 100 97	Color	eeded to % 3 ceed Matri Hydric Sandy N 5cm Mu Sandy O	Type C C rix, CS Soil I Mucky licky P Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4)	res Texi Si	Hydroph Yes absence of ture iL CL ion: PL=Pore X Redox Deplet Redox	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur Depression	latrix ee (F6) face (F7) s (F8)	sent?
1. 2.	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper	Color 10YR 4/2 10YR2/1 :: C=Concentr) don (A2) (A3) ulfide (A4)	iption: (Descrit Matrix % 100 97	Color	eeded to % 3 ced Matr Hydric Sandy M	Type C C rix, CS Soil I Mucky licky P Gleyec Redox	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5)	res Texi Si	Hydroph Yes absence of ture iii ion: PL=Pore X Redox Deplet Redox Indicators	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur	latrix e (F6) face (F7) s (F8) atic Hydric	sent?
1. 2.	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Color 10YR 4/2 10YR2/1 10YR2/1 10YR2/1 10YR2/1 10YR2/1 10YR2/1 10YR2/1 10YR2/1	iption: (Descrit Matrix % 100 97 ration, D=Depleti	Color	ced Mate Hydric Sandy N Sandy C Sandy C Sandy F Strippec Loamy N	Type C C rix, CS Soil I Mucky Icky P Gleyec Redox d Matr Mucky	Redox Feature Re	res Texi Si	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M	Lining, M=M Dark Surfaced Dar	latrix ee (F6) face (F7) so (F8) atic Hydric tx (A16) lasses (F	sent?
1. 2.	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be	Color 10YR 4/2 10YR2/1 :: C=Concentr) don (A2) (A3) ulfide (A4) yers (A5) A10) low Dark Surf	iption: (Descrit Matrix 100 97 ration, D=Depleti	Color	ced Mate Hydric Sandy N Sandy S Sandy F Strippec Loamy N	Type C rix, CS Soil I Mucky licky P Gleyec Redox d Matr Mucky Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)	res Texi Si	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S	curbed or property of the prop	latrix ee (F6) face (F7) so (F8) atic Hydric tx (A16) lasses (F	sent?
1. 2. SOIL	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be	Color 10YR 4/2 10YR2/1 10YR2/1 :: C=Concentr C=Concen	iption: (Descrik Matrix	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy N Sandy C Sandy C Sandy F Strippec Loamy N	Type C rix, CS Soil I Mucky licky P Gleyec Redox d Matr Mucky Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)	res Texi Si	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M	Lining, M=M Dark Surfaced Dar	latrix ee (F6) face (F7) so (F8) atic Hydric tx (A16) lasses (F	sent?
SOIL Restri	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Sr Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Color 10YR 4/2 10YR2/1 10YR2/1 :: C=Concentr C=Concen	iption: (Descrite Matrix % 100 97 station, D=Depleting face (A11)	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy N Sandy S Sandy F Strippec Loamy N	Type C rix, CS Soil I Mucky licky P Gleyec Redox d Matr Mucky Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S	Lining, M=M Dark Surfaced Dar	latrix ee (F6) face (F7) so (F8) atic Hydric tx (A16) lasses (F	sent?
SOIL Restri	Remarks: Properth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Strative Layer (Remarks: COLOGY	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy N Sandy S Sandy F Strippec Loamy N	Type C rix, CS Soil I Mucky licky P Gleyec Redox d Matr Mucky Gleyec	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3)	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur Depression: For Problems Prairie Redo anganese M Shallow Dark	latrix ee (F6) face (F7) so (F8) atic Hydric tx (A16) lasses (F	sent?
SOIL Restri	Remarks: Properth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Stictive Layer (Remarks:	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	color Color 10YR 4/6 on, RM=Redu	ced Matr Hydric Sandy M Sandy C Sandy C Sandy C Sandy C Deplete	Type C C Tix, CSSoil I Muckyy Gleyec Redox Muthal	Redox Featu * Loc** M S=Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2) rix (F3)	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other	turbed or property to the property of the prop	latrix le (F6) face (F7) s (F8) atic Hydric x (A16) lasses (F Surface (F)	sent?
SOIL Restri	Remarks: Properth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Strative Layer (Remarks: COLOGY	Color 10YR 4/2 10YR2/1 10YR2/1 :: C=Concentr) don (A2) (A3) ulfide (A4) yers (A5) A10) low Dark Surface (A12) if observed): y Indicators: Prii	iption: (Descrit Matrix	color Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy N Sandy C Sandy C Sandy C Sandy C Deplete	Type C C rix, CS Soil I Muckyy Gleyec Redox Mucky Gleyed d Matr	Redox Feature Re	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur	latrix le (F6) face (F7) s (F8) atic Hydric x (A16) lasses (F Surface (F)	sent?
SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 on, RM=Redu (check all the Water Aquati	ced Mate Hydric Sandy N Sandy C Sandy C Sandy C Sandy C Sandy C Surippec Loamy N Loamy (Depleted at apply) Stained	Type C C rix, CS Soil I Mucky J Leave (B13)	Redox Feature Re	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa	indicators.) Remarks Lining, M=W Dark Surfaced Dark Sur Depression: For Problema Prairie Redo anganese M shallow Dark X No Indicators.)	latrix lee (F6) face (F7) s (F8) atic Hydric asses (F Surface	sent?
SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Sr Stratified La 2 cm Muck (Depleted Be Thick Dark Si ictive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water Saturation (A	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu (check all the Water Aquati	ced Mater Hydric Sandy N Sandy N Strippec Loamy N Loamy O Depleted at apply Stained in Fauna Aquatic P	Type C C rix, CS Soil I Mucky P Gleyec d Matr Mucky Gleyed d Matr Leave (B13)	Redox Feature Re	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season	indicators.) Remarks Lining, M=M Dark Surfaced Dark Surfor Problems Prairie Redard Indicators Mallow Dark X No Indicators.)	latrix lee (F6) face (F7) s (F8) atic Hydric asses (F Surface	sent?
SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: COLOGY nd Hydrolog Surface Wat High Water Saturation (Water Marks Sediment De	Color 10YR 4/2 10YR2/1 10YR2/1 10YR2/1 10YR2/1 C=Concentr C=Concentr C(A3) Ulfide (A4) Users (A5) A10) Users (A5) Frii (Fer (A1) Table (A2) A3) S (B1) Esposits (B2)	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu (check all the Water Aquati True A Hydro	ced Matr Hydric Sandy N Sandy S Stripped Loamy N Loamy O Depleted	Type C C Trix, CS Soil I Address CRedox Mucky Gleyer	Redox Feature Re	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur	latrix lee (F6) face (F7) s (F8) atic Hydric vx (A16) lasses (F Surface (C2) fall Image	Soils 12) F12)
SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Stratick Layer (Remarks: COLOGY nd Hydrolog Surface Wat High Water Saturation (A	Color 10YR 4/2 10YR2/1 10YR2/1 10YR2/1 10YR2/1 C=Concentr C=Concentr Color 10YR 4/2 10YR2/1 C=Concentr Color 10YR 4/2 10YR2/1 C=Concentr Color	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu Water Aquati True A Hydro Oxidiz Prese	ced Matr Hydric Sandy N 5cm Mu Sandy F Stripped Loamy N Loamy O Deplete at apply Stained to Fauna dquatic P gen Sulfi ed Rhizo nce of Re	Type C C rix, CSSoil I Redox Harris, CSSoil I Leave (B13) Leave (B13)	Redox Feature Re	**Locat	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	indicators.) Remarks Lining, M=M Dark Surfaced Dark Sur Depression For Problema Prairie Redoanganese Mallow Dark X No Indicators.) Remarks	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)
SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: COLOGY nd Hydrolog Surface Wat High Water Saturation (Water Marks Sediment De	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	ce to depth ne	ced Matr Hydric Sandy N Sandy G Sandy F Stripped Loamy N Loamy O Depleter	Type C C rix, CS Soil I File Soil I Color Soil I Co	Redox Feature Re	Tex Si Sid	ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	indicators.) Remarks Lining, M=M Dark Surfaced Dark Surfaced Dark Surfaced Dark Surfaced Plan Prairie Redcanganese Michallow Dark X No Madary Indicators (B10) Water Table rows (C8) sible on Aertressed Plan Position (D2)	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)
SOIL Restri	Remarks: Pepth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epipee Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Sictive Layer (Remarks: COLOGY Ind Hydrolog Surface Wat High Water Saturation (A) Water Marks Sediment Do Drift Deposit Algal Mat or Iron Deposit Inundation (A)	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu Water Aquati True A Hydroo Oxidiz Presee Recen Thin M Guage	ced Matr Hydric Sandy N 5cm Mu Sandy F Stripped Loamy N Loamy O Deplete at apply Stained to Fauna dquatic P gen Sulfi ed Rhizo nce of Re	Type C C rix, CS Soil I Muckyy Gleyec d Matr Mucky Blayed Matr Mucky Pale Redox Harr Mucky Pale Redox Harr Mucky Redox Harr Mucky Redox Harr Mucky Redox Harr Mucky Redox Harr Harr	Redox Feature Re	**Locat	disi Hydroph Yes absence of ture L CL ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	indicators.) Remarks Lining, M=M Dark Surfaced Dark Surfaced Dark Surfaced Plan Prairie Redcanganese Michallow Dark X No Mary Indicators.) Mary Indicators (B10) Water Table rows (C8) sible on Aertressed Plan Position (D2)	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)
SOIL Restri HYDR Wetla	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water Saturation (A Water Marks Sediment Doi Tolft Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve	Color 10YR 4/2 10YR2/1 10YR2/1 10YR2/1 10YR2/1 10Hamber of the color o	iption: (Descrik Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu Water Aquati True A Hydroo Oxidiz Presee Recer Thin M Guage Other	ced Matr Hydric Sandy M Sandy M Sandy C Sandy M Sandy M Sandy C Sandy M Sandy	Type C C rix, CS Soil I Mucky Gleyec Redox Matr Mucky Side Add Leave (B13) Plants ide Oc sepende eductieface (Data	Redox Feature Re	**Locat	disi Hydroph Yes absence of ture L CL ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	indicators.) Remarks Lining, M=M Dark Surfaced Dark Surfaced Dark Surfaced Plan Prairie Redcanganese Michallow Dark X No Mary Indicators.) Mary Indicators (B10) Water Table rows (C8) sible on Aertressed Plan Position (D2)	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)
SOIL Restri HYDR Wetla	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark S ictive Layer (Remarks: OLOGY nd Hydrolog Surface Wat High Water Saturation (A Water Marks Sediment Doi Tolft Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu Water Aquati True A Hydroo Oxidiz Presee Recen Thin M Guage	ced Matr Hydric Sandy M Sandy C Sandy M Sandy C Sandy M Sandy C Sandy M Stripped Loamy M Loamy C Depleter	Type C C rix, CS Soil I Muckyy Gleyec d Matr Mucky Blayed Matr Mucky Pale Redox Harr Mucky Pale Redox Harr Mucky Redox Harr Mucky Redox Harr Mucky Redox Harr Mucky Redox Harr Harr	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) mineral (F2) mix (F3) Hydric Soil Preserved (S6) Hydric Soi	**Locat	disi Hydroph Yes absence of ture L CL ion: PL=Pore X Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic	Lining, M=M Lining, M=M Dark Surfaced Dark Surfor Problems Prairie Redocanganese M Shallow Dark X No Madary Indica Cracks (B6) tterns (B10) Water Table rows (C8) sible on Aer tressed Plan Position (D2 Test (D5)	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)
1. 2. SOIL Restri	Remarks: Depth (inches) 0-2 2-18 *Type Histosol (A1 Histic Epiper Black Histic Hydrogen Stratified La 2 cm Muck (Depleted Be Thick Dark Sictive Layer (Remarks: COLOGY nd Hydrolog Surface Wat High Water Saturation (Water Marks) Sediment Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve Observations	Color 10YR 4/2 10YR2/1	iption: (Descrit Matrix	Color 10YR 4/6 10YR 4/6 on, RM=Redu Water Aquati True A Hydro Oxidiz Presel Recen Thin M Guage Other Yes Yes	ced Matr Hydric Sandy N Sandy F Stripped Loamy N Loamy O Deplete at apply Stained or Fauna dquatic P gen Sulfi ed Rhizo nce of Re t Iron Re fluck Surre or Well No No	Type C C rix, CSSoil I Redox All Matr Mucky P Gleyec Redox All Matr Mucky B Gleyec Redox All Matr Mucky B Gleyec	Redox Feature * Loc** M S=Coated Sand grains Indicators: Mineral (S1) eat or Peat If Matrix (S4) (S5) ix (S6) Mineral (F1) Matrix (F2) mineral (F2) mix (F3) Hydric Soil Preserved (S6) Hydric Soi	**Locat **Locat A X X Hydro	ion: PL=Pore A Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S Geomorphic FAC-Neutral	Lining, M=M Lining, M=M Dark Surfaced Dark Surfor Problems Prairie Redocanganese M Shallow Dark X No Madary Indica Cracks (B6) tterns (B10) Water Table rows (C8) sible on Aer tressed Plan Position (D2 Test (D5)	latrix lee (F6) face (F7) s (F8) atic Hydric ox (A16) lasses (F Surface (C2) fall Image ts (D1)	Soils 12) F12)

Site:			e-W.Millersport				irfield County	Date:	27 March 2	2024 Data F	Point: U	JPL-41A
Client:	igator(s):	AEP L. Vine, E.	.Holt	_State: OH	_Sectio	n, Tov	nship, Range: Landform	Floo	od Plains	Local Relief	Conv	vex
Slope	(%):		Lat.	39.774139°	Long.		'-82.628196°	Datum		NWI Class:	N/A	
			loam, fan, occas ns typical for tim		l Y/N	Υ						
	Vegetation	on N	, Soil	N or Hy	drology	N	significantly disturbed					
A N.I.	Vegetation		_ ,		drology	N	naturally problematic					
	ormal Circums		ent? Y	'es <u>x</u>	No		-					
		rophytic Veg	etation Present?		No		=					
		, .	ric Soil Present? drology Present?		No No	X	=	Is the Yes	DP within a \ No	Wetland? X		
		Trottana riye	arelegy i recent.	100	110			1100	110	Α		
VEGE	TATION			Absolute %	Domi	inant						
Tree S	Stratum	Plot size:	30'	Cover	Spe		Indicator Statu	S				
1.										nance Test \		t
2. 3.				-			-		Number of do are OBL, FA		ies that	3
4.										r of dominant		5
5.				0	T-1-10		-		species acro		ion that —	<u> </u>
Shrub	Stratum	Plot size:	15'		Total Co	over			Percent of do are OBL, FA	•	ies mai	60.00
1.		01 0.20.							Prevalence	Index Works	heet	
2. 3.									Total % OBL species	cover of:	x 1 _	1
3. 4.				-					FACW species		x 2 —	20
5.									FAC species	10	x 3 _	30
Herb S	Stratum	Plot size:	5'	0	Total Co	over			FACU species UPL species		x 4 _	260 0
1.	Setaria fabe			60	\		FACU	4	Total	86		311
2.	Carex franki Verbena urti			15 10			OBL	1	l li calma mbo ett a	Prevalence		3.62
3. 4.	Euthamia gr			10	<u></u>		FAC FACW	<u>3</u>	Hydrophytic Rapid	: vegetation Test for Hydi		
5.	Solidago car			5	N	1	FACU	4	x Domin	ance Test is	>50%	- 5
6. 7.										ence Index is ological Adar		
8.				-						natic Hydrophy		on*
l., .		5		100	Total Co	over	-			s of hydric so		
Woods	v Vine Stratur	n_ Plot size:	30'						, ,	y must be pr		ess
2.										turbed or prol		
<u> </u>	Domorko			0	Total Co	over			Hydronn	ytic Vegetat	ion Prese	ent?
	Remarks:				. otal o				Yes	X No		
SOIL		refile Decer	intion: (Decerit				mont the indicator or	a a mfi um	Yes	X No		
			iption: (Describ		eeded to	docu	ment the indicator or Redox Featu		Yes	X No		
	Depth (inches)	Color	Matrix %		eeded to	docu		res Tex	Yes n absence of	X No		
	P Depth		Matrix %	be to depth ne	eeded to	docu	Redox Featu	ires	Yes n absence of	X No		
	Depth (inches)	Color	Matrix %	be to depth ne	eeded to	docu	Redox Featu	res Tex	Yes n absence of	X No		
	Depth (inches)	Color	Matrix %	be to depth ne	eeded to	docu	Redox Featu	res Tex	Yes n absence of	X No		
	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	color	eeded to	Туре	Redox Featu	res Tex Sid	n absence of ture	X No indicators.) Remarks		
	Depth (inches) 0-18	Color 10YR 3/2 : C=Concenti	Matrix % 100	color	% ced Mat Hydric	Type	Redox Featu * Loc** S=Coated Sand grains Indicators:	res Tex Sid	Yes n absence of ture CL tion: PL=Pore	X No indicators.) Remarks Lining, M=M	atrix	
	Depth (inches) 0-18 *Type	Color 10YR 3/2	Matrix % 100	color	% ced Mat Hydric Sandy I	Type	Redox Featu * Loc** S=Coated Sand grains ndicators: Mineral (S1)	res Tex Sid	Yes n absence of ture CL tion: PL=Pore Redox	X No indicators.) Remarks Lining, M=M Dark Surface	atrix	
	*Type Histosol (A1 Histic Epiper Black Histic	Color 10YR 3/2 : C=Concentu	Matrix % 100	color	ced Mat Hydric Sandy N Sandy (Sandy (Type Tix, CS Soil Mucky Jucky P Gleyec	Redox Feature Re	res Tex Sid	Yes n absence of ture CL cion: PL=Pore Redox Deplet Redox	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions	atrix e (F6) ace (F7) f (F8)	
	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen Su	Color 10YR 3/2 : C=Concentu don (A2) (A3) ulfide (A4)	Matrix % 100	color	ced Mat Hydric Sandy I Sandy I Sandy I	rix, CS: Soil Mucky PGleyec	Redox Feature Re	res Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators	X No indicators.) Remarks Lining, M=M Dark Surfaceed Dark Surfac	atrix e (F6) ace (F7) (F8) tic Hydric \$	
	*Type Histosol (A1 Histic Epiper Black Histic	Color 10YR 3/2 : C=Concentu don (A2) (A3) ulfide (A4) yers (A5)	Matrix % 100	color	ced Mat Hydric Sandy I Sandy I Sandy I Stripped	rix, CS: Soil Mucky PGleyed Redox d Matri	Redox Feature Re	res Tex Sid	rabsence of ture CL cion: PL=Pore Redox Deplet Redox Indicators Coast	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions	atrix e (F6) ace (F7) (F8) tic Hydric \$ x (A16)	Soils
	*Type Histosol (A1) Histic Epiper Hydrogen St Stratified Lay 2 cm Muck (Depleted Be	Color 10YR 3/2 10YR 3/2 C=Concents 10don (A2) (A3) (A3) (Jillide (A4) (A5) (A5) (A10) Low Dark Sur	Matrix % 100 ration, D=Depleti	Color ion, RM=Redu	ced Mat Hydric Sandy I Sandy I Sandy I Strippec Loamy Loamy	rix, CS Soil Mucky Jeyec Redox Mucky Gleyec Gleyec	Redox Feature Re	res Tex Sid	ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redox	atrix e (F6) acce (F7) i (F8) tic Hydric s x (A16) asses (F12	Soils 2)
SOIL	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti	Color ion, RM=Redu	ced Mat Hydric Sandy I Sandy (rix, CS Soil Mucky Jeyec Redox Mucky Gleyec Gleyec	Redox Feature Re	res Tex Sid	rabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Material Redotanganese Redotan	atrix e (F6) acce (F7) i (F8) tic Hydric s x (A16) asses (F12	Soils 2)
Restri	*Type Histosol (A1) Histic Epiped Black Histic Hydrogen Su 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti	color	ced Mat Hydric Sandy I Sandy I Sandy I Strippec Loamy Loamy	rix, CS Soil Mucky Jeyec Redox Mucky Gleyec Gleyec	Redox Feature Re	Tex Sid	ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Material Redotanganese Redotan	atrix e (F6) acce (F7) i (F8) tic Hydric s x (A16) asses (F12	Soils 2)
Restri	*Type #Type #Istosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks:	Color 10YR 3/2 10YR 3	Matrix % 100 ation, D=Depleti face (A11) Type:	color	ced Mat Hydric Sandy I Sandy I Sandy I Strippec Loamy Loamy	rix, CS Soil Mucky Jeyec Redox Mucky Gleyec Gleyec	Redox Feature Re	Tex Sid	ture CL Edion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surf Depressions for Problema Prairie Redot anganese Mallow Dark	atrix e (F6) ace (F7) e (F8) tic Hydric S x (A16) asses (F12 Surface (F	Soils 2)
Restri	*Type Histosol (A1) Histic Epiped Black Histic Hydrogen Su 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Color 10YR 3/2 10YR 3/2 C=Concenti Con (A2) (A3) Ilfide (A4) I	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Mat Hydric Sandy I Sandy I Sandy I Strippec Loamy Loamy	rix, CS Soil Mucky Jeyec Redox Mucky Gleyec Gleyec	Redox Feature Re	Tex Sid	ture CL Edion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surf Depressions for Problems Prairie Redot anganese Mallow Dark	atrix e (F6) ace (F7) e (F8) tic Hydric S x (A16) asses (F12 Surface (F	Soils 2)
Restri	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology	Color 10YR 3/2 10YR 3/2 Concention Concent	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Mat Hydric Sandy I Sandy I Stripper Loamy Loamy Deplete	Type Type Trix, CS Soil I Muckyy Gleyec GRedox Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky M	Redox Feature Re	Tex Sid	rabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor	X No indicators.) Remarks Lining, M=M Dark Surfaced Dark Surfaced Dark Surfaced Depressions for Problema Prairie Redolanganese Mallow Dark No No	atrix e (F6) ace (F7) (F8) tic Hydric 9 x (A16) asses (F12) Surface (F	Soils 2)
Restri	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Mat Hydric Sandy I Sandy (Sandy (Sandy C Sandy D Deplete	Type Type Trix, CS Soil I Mucky Redox Mucky Gleyee d Matr Mucky Cleye Leav	Redox Feature Re	Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Mallow Dark No No indary Indicated Cracks (B6)	atrix e (F6) ace (F7) (F8) tic Hydric 9 x (A16) asses (F12) Surface (F	Soils 2)
Restri	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color Color Color ion, RM=Redu ion, RM=Redu Check all the Water Aquati True A	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete	Type	Redox Feature Re	res Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pai Dry-Season	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfac	atrix e (F6) ace (F7) f (F8) x (A16) asses (F12) Surface (F	Soils 2)
Restri	*Type Histosol (A1 Histic Epiped Black Histic Hydrogen Su Stratified Lav 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A	Color 10YR 3/2 10YR 3/2 C=Concentr Color 10YR 3/2 Color 10	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color Color Color ion, RM=Redu ion, RM=Redu ion Aquati True A Hydrog	ced Mat Hydric Sandy I Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained c Fauna quatic F gen Sulf	Type Type Trix, CS Soil Mucky PS Selection Se	Redox Feature Re	res Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pat Dry-Season Crayfish Buri	X No indicators.) Remarks Lining, M=M. Dark Surface ed Dark Surface do Dark	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F	Soils 2) 112)
Restri	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A	Color 10YR 3/2 10YR 3/2 C=Concenti Color 10YR 3/2 Color 10	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	color Color Color ion, RM=Redu Check all the Water Aquati True A Hydrog Oxidiz	ced Mat Hydric Sandy F Stripped Loamy Loamy Deplete at apply Stained to Fauna Aquatic F gen Sulf ed Rhize	rix, CS Soil I Mucky Gleyee dd Matr Leavu (B13) Plants ide Ocosphei	Redox Feature Re	res Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pai Dry-Season	X No indicators.) Remarks Lining, M=M. Dark Surface ed Dark Surface do Dark	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X	Soils 2) 112)
Restri	*Type Histosol (A1 Histic Epipea Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology Surface Wat High Water Saturation (A) Water Marks Sediment De Drift Deposit Algal Mat or	Color 10YR 3/2 10YR 3/2 Color 10YR 3/2 Colo	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches)	Color	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna quatic F gen Sulf gen Sulf ed Rhiz nce of R it Iron Re	rix, CS Soil Type rix, CS Soil Fix	Redox Feature Re	res Tex Sid	res nabsence of ture CL cion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Par Dry-Season Crayfish Burr Saturation V Stunted or S Geomorphic	X No indicators.) Remarks Lining, M=M Dark Surface ed Dark Surface No No No edary Indicate Cracks (B6) tterns (B10) Water Table rows (C8) sisible on Aeri- tressed Plant Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X COTS (C2) al Imagery s (D1)	Soils 2) 112)
Restri	*Type Histosol (A1 Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) Type: Depth (Inches)	Color	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained to Fauna quatic F gen Sulf ed Rhizo nce of R t Iron R Muck Sur	rix, CS Soil I Mucky Gleye d Matr Mucky Plants ide Od eductie educte educte fface (Redox Feature Re	res Tex Sid	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pa Dry-Season Crayfish Buri Saturation Vi Stunted or S	X No indicators.) Remarks Lining, M=M Dark Surface ed Dark Surface No No No edary Indicate Cracks (B6) tterns (B10) Water Table rows (C8) sisible on Aeri- tressed Plant Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X COTS (C2) al Imagery s (D1)	Soils 2) 112)
Restri	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology Surface Wat High Water Saturation (A) Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators al Imagery (B7) rave Surface	Color	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loamy Deplete at apply Stained ic Fauna quatic F gen Sulf gen Sulf ed Rhiz nce of R it Iron Re	rix, CS Soil I Mucky Gleye d Matr Mucky Plants ide Od eductie educte educte fface (Redox Feature Re	res Tex Sid	res nabsence of ture CL cion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Par Dry-Season Crayfish Burr Saturation V Stunted or S Geomorphic	X No indicators.) Remarks Lining, M=M Dark Surface ed Dark Surface No No No indary Indicate Cracks (B6) tterns (B10) Water Table rows (C8) isible on Aeri- tressed Plant Position (D2)	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X COTS (C2) al Imagery s (D1)	Soils 2) 112)
Restri	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology Surface Wat High Water Saturation (A) Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve	Color 10YR 3/2 10YR 3	Matrix % 100 ration, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators rations (B7) rave Surface Vater Present?	ion, RM=Redu io	ced Mat Hydric Sandy I Sandy I Sandy I Strippe Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ed Rhizc nce of R it Iron Re fluck Sur e or Well No	rix, CS Soil I Mucky Gleye d Matr Mucky Plants ide Od eductie educte educte fface (Redox Feature Re	**Locat	Tes nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pai Dry-Season Crayfish Buri Saturation Vi Stunted or S Geomorphic FAC-Neutral	Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Mallow Dark No No No No No No No No No N	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X (C2) al Imagery s (D1)	Soils 2) 112)
Restri	*Type Histosol (A1) Histic Epiper Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY Ind Hydrology Surface Wat High Water Saturation (A) Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Ve	Color 10YR 3/2 10YR 3	Matrix % 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators fal Imagery (B7) ave Surface fater Present?	color Co	ced Mat Hydric Sandy I Sandy I Stripper Loamy Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ed Rhizo mice of R tt Iron Ro fuck Sur e or Well	Type Type Tix, CS Soil I Mucky Gleyee Gedox Heave I (B13) Plants ide Ocosphee educe educe educe face (I Data	Redox Feature Re	**Locat	res nabsence of ture CL cion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Par Dry-Season Crayfish Burr Saturation V Stunted or S Geomorphic	Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Mallow Dark No No No No No No No No No N	atrix e (F6) ace (F7) (F8) tic Hydric S x (A16) asses (F12 Surface (F X (C2) al Imagery s (D1)	Soils 2) 112)
Restri HYDR Wetlan	*Type Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be Thick Dark S ctive Layer (Remarks: OLOGY nd Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Inundation V Sparsely Veo Observations	Color 10YR 3/2	Matrix % 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators al Imagery (B7) ave Surface /ater Present? be Present? Present?	Color Co	ced Mat Hydric Sandy I Sandy I Sandy I Stripped Loamy Loany Loamy	rix, CS Soil I Vivia Solution of the Control of the	Redox Feature Re	**Locat	res nabsence of ture CL tion: PL=Pore Redox Deplet Redox Indicators Coast Iron-M Very S Other Yes Secor Surface Soil Drainage Pai Dry-Season Crayfish Buri Saturation Vi Stunted or S Geomorphic FAC-Neutral	X No indicators.) Remarks Lining, M=M Dark Surfacted Dark Surfacted Dark Surfacted Dark Surfacted Depressions for Problema Prairie Redotanganese Mandary Indicated Cracks (B6) tterns (B10) Water Table rows (C8) isible on Aerictressed Planter Position (D2) Test (D5) s Present?	atrix e (F6) ace (F7) f (F8) s (A16) asses (F12) Surface (F X COTS (C2) al Imagery s (D1)	Soils 2) 112)

Site: Client:		r-S.Baltimore	e-W.Millersport	City/County:		Fai	irfield County nship, Range:	_Date:		• <u>h 2024</u> Data Po S35, T 15N, R 19	
Invest	tigator(s):	N. Houk, N				11, 1011	Landform	·	od Plains	Local Relief	Concave
Slope Soil M		Aetna silt le	Lat. 3 oam, occasional	39.729007 Ilv flooded	Long.		-82.633563	_ Datum	NAD83	NWI Class: _	PEM
C	Climatic/hydrolo	gic condition	ns typical for time	e of year?	Y/N	Y	-1				
	Vegetatior Vegetatior			N or Hy N or Hy	drology/drology	<u>N</u>	significantly disturbed naturally problematic				
	ormal Circumst	ances Prese		es x	No						
SUIVIIV	MARY OF FIND Hydro	ophytic Vege	etation Present?		No						
	V		ic Soil Present? rology Present?		_No No			Is the Yes	DP within x No	a Wetland?	
Rema	rks:	vetiana riya	lology i resent:	163 X	NO			1163	X 110		
	TATION			Absolute %	Dom	inant					
Tree S	Stratum_	Plot size:	30'	Cover		cies	Indicator Statu	IS			
1. 2.										minance Test W f dominant specie	
3.					_		-		are OBL,	FACW, or FAC:	1
4. 5.					-				-	ber of dominant cross all strata:	1
				0	Total C	over				dominant specie	es that
Shrub 1.	Stratum	Plot size:	15'		_					FACW, or FAC: ce Index Worksh	
2.							-		Total	% cover of:	
3. 4.							-		OBL spec		x 1 x 2 196
5.									FAC spec	ies 2	x 3 6
Herb S	Stratum	Plot size:	5'	0	_Total C	over			FACU spec		x 4 x 5 0
1.	Phalaris arund	dinacea		98		<u>Y</u>	FACW	2	Tot	al 100	202
2. 3.	Apocynum ca	nnabinum		2		N	FAC	3	Hydrophy	Prevalence tic Vegetation In	
4.									Rap	oid Test for Hydro	phytic Veg.
5. 6.							-			ninance Test is > valence Index is	
7.									Mor	phological Adapt	ations*
8.				100	Total C	over	=			elematic Hydrophytic tors of hydric soi	•
	y Vine Stratum	Plot size:	30'		_					logy must be pre	
1. 2.										disturbed or probl	lematic
	Remarks:			0	Total C	over			Hydro Yes	phytic Vegetation x No	on Present?
SOIL		1									
	Depth Pr		ption: (Descrik Matrix	e to depth no	eeded to	docu	ment the indicator or Redox Feat		absence	of indicators.)	
	(inches)	Color	%	Color			Loc**	Tex	ture	Remarks	
	0-5 5-18	10YR 3/2 10YR 4/2		10YR 5/6 10YR 5/6	5 5	C	M M	Si (
	*Type:	C=Concentr	ation, D=Depleti	on, RM=Redu			=Coated Sand grains	**Locat	ion: PL=Pc	re Lining, M=Ma	trix
	Histosol (A1)						Mineral (S1)		x Rec	lox Dark Surface	(F6)
	Histic Epipedo Black Histic (A						eat or Peat Matrix (S4)			leted Dark Surfa	
	Hydrogen Sulf	fide (A4)			Sandy I	Redox	(S5)		Indicat	ors for Problemati	c Hydric Soils
	Stratified Laye 2 cm Muck (A				Strippe		x (S6) Mineral (F1)			st Prairie Redox -Manganese Mas	
	Depleted Belo	w Dark Surf	ace (A11)		Loamy	Gleyed	Matrix (F2)			y Shallow Dark S	
Rostri	Thick Dark Su ictive Layer (if		Type:		Deplete	ed Matr	ix (F3)		Oth	er	
		observeu).	Depth (Inches):	:			Hydric Soil Pr	esent?	Yes	x No	
	Remarks: ROLOGY										
	nd Hydrology										
-	Surface Wate		nary Indicators		ı at apply r Stained		s (B9)			condary Indicate oil Cracks (B6)	rs
	High Water Ta	able (A2)		Aquat	tic Fauna	a (B13)	, ,		Drainage	Patterns (B10)	
	Saturation (A3 Water Marks)				Aquatic F ogen Sulf					on Water Table (0 Surrows (C8)	<i>3</i> 2)
	Sediment Dep	osits (B2)		Oxidiz	zed Rhizo	ospher	es on Living Roots		Saturation	Visible on Aeria	
	Drift Deposits Algal Mat or C						d Iron (C4) on in Tilled Soil (C6)	х		r Stressed Plants nic Position (D2)	(D1)
	Iron Deposits	(B5) ` ´		Thin N	Muck Sui	rface (C	C7)	X		ral Test (D5)	
	Inundation Vis Sparsely Vege		al Imagery (B7)	Guage Other	e or Wel	l Data ((D9)				
Field	Observations:	Surface W	ater Present?	Yes	No	Х	Depth (inches)				
		Water Tab Saturation	le Present? Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydro	loy Indicat Yes	ors Present? s x No	
Descr	ibe Recorded D						us inspections), if avai	lable:	1 63	110	

Site: Client:		r-S.Baltimor AEP	e-W.Millersport	City/County: State: OH	Section		ld County	_Date:	28 March 202	<u>4 </u> Data Poii T 15N, R 19\	
	igator(s):	N. Houk, N	I. Barnett	_Olale. OII	_ 5600011,	, TOWNSH	Landforn	n Floc		cal Relief	Convex
Slope		A		39.728973	_Long		82.633588	Datum	NAD83 NV	VI Class:	N/A
			oam, occasionans typical for tim		Y/N	V					
C	Vegetation				drology _	N sigi	nificantly disturbed				
	Vegetation	N N	, Soil		drology _		urally problematic				
	ormal Circumsta		ent? Y	es x	No _						
SOININ	IARY OF FIND Hvdro		etation Present?	Yes	No	Х		1			
	-	Hydr	ric Soil Present?	Yes	No _	X		Is the [DP within a Wet	land?	
Dama		Vetland Hyd	Irology Present?	Yes	No	Χ		Yes	No x		
Remai	TATION										
	Stratum	Diet eizer	201	Absolute %	Domin	ant	Indicator Statu	10			
	<u>stratum</u>	Plot size:		Cover	Speci	es	mulcator Statt	72			
1.									Dominar Number of domi	nce Test Wo	
2. 3.	·								are OBL, FACW	•	1
4.									Total number of		3
5.				0	T-1-10-1				species across a Percent of domi		
Shrub	Stratum	Plot size:	15'		_Total Cov	/er			are OBL, FACW		33.33
1.	Catalpa specie			50	Υ		FACU		Prevalence Ind		et
2.	Rosa multiflora			15	Y		FACU	4	Total % cov		· . ·
3. 4.	Crataegus cru	ıs-gallı		2	N		FAC		OBL species FACW species	0 x 55 x	
5.									FAC species		
l <u>.</u>				67	Total Cov	/er			FACU species	75_ x	
Herb S	<u>Stratum</u> Elymus virgini	Plot size:	5'	50	Υ		FACW		UPL species Total	0 x	5 <u>0</u>
2.	Taraxacum of			10	- I		FACU	<u>2</u> 4		Prevalence Ir	
3.	Phalaris arund	dinacea		5	N		FACW	2	Hydrophytic Ve		dicators:
4.										st for Hydrop	
5. 6.					-					ce Test is >50 ce Index is <3	
7.									Morpholo	gical Adaptat	tions*
8.				- CF	T-4-1 C-1					c Hydrophytic \	•
Woods	y Vine Stratum	Plot size:	30'	65	_Total Cov	/ei			*Indicators o	•	
1.									, ,,	nust be prese ed or proble	•
2.					Total Cov					•	
2.	Remarks:			0	Total Cov	/er				c Vegetation	
2.				-					Hydrophyti Yes	c Vegetation No	Present?
2.	Pro			-			nt the indicator or Redox Feat		Hydrophyti Yes	c Vegetation No	Present?
2.			ption: (Describ	-	eeded to		Redox Feat		Hydrophyti Yes absence of ind	c Vegetation No	Present?
2.	Pro Depth		Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures	Hydrophyti Yes absence of ind	c Vegetation No licators.)	Present?
2.	Depth (inches)	Color	Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures Text	Hydrophyti Yes absence of ind	c Vegetation No licators.)	Present?
2.	Depth (inches)	Color	Matrix %	pe to depth no	eeded to	documer	Redox Feat	ures Text	Hydrophyti Yes absence of ind	c Vegetation No licators.)	Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	eeded to	documer	Redox Feat	ures Texto Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	% 3	Type* Lo	Redox Feat	ures Texto Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18	Color 10YR 3/2	Matrix % 100	Color	% 3	Type* Lo	Redox Feat oc** pated Sand grains cators:	ures Texto Si C	Hydrophyti Yes absence of ind	c Vegetation No licators.)	n Present?
2.	Depth (inches) 0-18 *Type: 0	Color 10YR 3/2 C=Concentr	Matrix % 100	Color	eeded to e % iced Matrix Hydric \$ Sandy M. 5cm Muc	Type* Lo	Redox Feat ocated Sand grains cators: eral (S1) or Peat	ures Texto Si C	Hydrophyti Yes absence of ind ture F	c Vegetation No licators.) Remarks ing, M=Matri ark Surface (F	x x x x x x x x x x x x x x x x x x x
2.	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipedo Black Histic (A	Color 10YR 3/2 C=Concentr	Matrix % 100	Color	ced Matrix Hydric S Sandy M 5cm Muc Sandy G	Type* Lo x, CS=Cooil Indicucky Mincky Peat of leyed Ma	Redox Feat oc** pated Sand grains cators: eral (S1) or Peat trix (S4)	ures Texto Si C	Hydrophyting Yes absence of indexture Figure Figure	c Vegetation No licators.) Remarks ing, M=Matri ark Surface (F Dark Surface epressions (F	x Present? x x x x x x x x x x x x x x x x x x x
2.	Depth (inches) 0-18 *Type: 0	Color 10YR 3/2 C=Concentr on (A2) (A3) (Gide (A4)	Matrix % 100	Color	eeded to e % iced Matrix Hydric \$ Sandy M. 5cm Muc	Type* Lo x, CS=Co Soil Indio ky Peat o leyed Ma edox (S5)	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)	ures Texto Si C	Hydrophyting Yes absence of indexture February Feb	c Vegetation No licators.) Remarks ing, M=Matri ark Surface (F Dark Surface epressions (F	x X X X X X X X X X X X X X X X X X X X
2.	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye	Color 10YR 3/2 10YR 3/2 C=Concentr on (A2) (33) Gide (A4) ers (A5) 10)	Matrix % 100 ation, D=Depleti	Color	sandy Re Sandy Re Sandy Re Stripped Loamy M	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o ledyod Ma edox (S5 Matrix (S5 lucky Mir	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) 66) heral (F1)	ures Texto Si C	Hydrophyti Yes absence of ind ture CL ion: PL=Pore Lin Redox Da Depleted Redox De Indicators for Coast Pra Iron-Mang	c Vegetation No licators.) Remarks ling, M=Matri ark Surface (F Dark Surface pressions (F Problematic airie Redox (A ganese Mass	x X X X X X X X X X X X X X X X X X X X
2.	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 3/2 C=Concentr on (A2) (A3) (iide (A4) ers (A5) (10) w Dark Surf	Matrix % 100 ation, D=Depleti	Color	seded to of the sed of	Type* Lo x, CS=Co Soil Indic ucky Min eky Peat o leeyed Ma leeyed Ma for Matrix (S) Matrix (S) lucky Min leyed Ma	Redox Feat pated Sand grains cators: eral (S1) or Peat trix (S4)) li6) heral (F1) etrix (F2)	ures Texto Si C	Hydrophyti Yes absence of ind ture CL ion: PL=Pore Lin Redox Da Depleted Redox De Indicators for Coast Pra Iron-Mang Very Shal	c Vegetation No licators.) Remarks ing, M=Matri ark Surface (F Dark Surface expressions (F Problematic airie Redox (A	x X X X X X X X X X X X X X X X X X X X
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Client: Investiga Slope (% Soil Map Clim	tor(s): b): Unit Name:	AEP N. Houk, N 1-3 Pewamo si gic condition N N ances Prese	Lat. 3 Ity clay loam, los typical for tim , Soil , Soil	State: C 39.887537 ow caronate ie of year? N or N or	Long e till, 0 to Y/N Hydrolog	g. 2 perce Y N y N	airfield County wnship, Range: Landfor -82.567358 nt slopes significantly disturbe naturally problematio	rm <u>Drair</u> Datum	nageways Lo	T 16N, R 18W	:: 33A Convex N/A
COMMINI	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes	No No No	X 	_	Is the Yes	DP within a We	etland?	
Remarks	:	ctiaria riyai	ology i resent:	163	INO			163	140 2	`	
VEGETA				Absolute	% Do	minant			1		1
1 2 3 4 5.		Plot size:		Cover		pecies	Indicator Sta	atus	Number of dom that are OBL, F Total number o	ACW, or FAC f dominant	0
Shrub St 1. R	ratum_ ubus alleghe igustrum vulg		15'	50 5	Total	Cover	FACU FACU	4	species across Percent of dom that are OBL, F Prevalence Ind Total % co	inant species ACW, or FAC dex Workshee	
2. <u>Li</u> 3 4 5	gustrum vulg	gare		55		Cover	FACU	4	OBL species FACW species FAC species FACU species	x	2 <u>0</u> 3 30
2. <u>P</u>	atum_ olidago cana oa pratensis irsium arvens aucus carota	se	5'	40 10 2 2	Total	Y N N	FACU FAC FACU UPL	4 3 4 5	UPL species Total IMPLICATION Hydrophytic V Rapid Te Dominan Prevalen	2 x 109 Prevalence Indiest for Hydroph ce Test is >50 ce Index is ≤3.	5 10 428 ex: 3.93 cators: ytic Veg. % 0*
7. 8. <u>Woody V</u> 1. 2.	/ine Stratum	Plot size:		54		Cover			Problemat *Indicators of hydrology r disturb	ogical Adaptation of Hydrophytic Ventral Adaptation of Hydric soil are must be preserued or problem	egetation* ad wetland at, unless aatic
Re	marks:	Ī		0	Total	Cover			Hydrophyti Yes	c Vegetation No	
SOIL		l .									
	Prof Depth		tion: (Describ Matrix	e to depth	needed	to docu	ment the indicator o Redox Fea		n absence of in	dicators.)	
	(inches)	Color	%	Color	%	Туре	e* Loc**	Text		Remarks	
	0-18	10YR 4/2	100			_		Si (J L		
						_					
	*Type: C	=Concentra	ition, D=Depleti	on, RM=Re			S=Coated Sand grains Indicators:	s **Locat	tion: PL=Pore Li	ning, M=Matrix	(
Hi BI	istosol (A1) istic Epipedo lack Histic (A	(3)			Sand 5cm Sand	y Mucky Mucky F ly Gleye	Mineral (S1) Peat or Peat d Matrix (S4)		Depleted Redox Depleted	ark Surface (Fo Dark Surface epressions (F8	(F7) 3)
Si 2 D	ydrogen Sulf tratified Laye cm Muck (A' epleted Belov	rs (À5) [´] 10) w Dark Surf	ace (A11)		Stripp Loam Loam	ny Gleye	rix (Ś6) y Mineral (F1) d Matrix (F2)		Coast Pron-Man Very Sha	r Problematic H airie Redox (A ganese Masse Illow Dark Surf	16) s (F12)
	nick Dark Sulve Layer (if		Type:		Deple	eted Mat	trix (F3)		Other		
	marks:		Depth (Inches)	:			Hydric Soil F	Present?	Yes	No >	(
HYDROL											
Wetland	Hydrology I			/-ll				1	0		
History Science of the Control of th	parsely Vege	(A1) lble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerie		Wa Aq Tru Hyu Ox Pre Re Thi Gu	ater Stain uatic Fau ue Aquati drogen S idized Rh esence of	ed Leav ina (B13 c Plants ulfide O nizosphe f Reduce Reducti Surface ((B14) dor (C1) veres on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7)		Seconda Surface Soil Cr Drainage Patte Dry-Season Wa Crayfish Burrow Saturation Visil Stunted or Stre Geomorphic Po FAC-Neutral Te	rns (B10) ater Table (C2) vs (C8) ble on Aerial In ssed Plants (D osition (D2)	nagery (C9)
Field Ob	servations:	Surface Water Table Saturation	ater Present? le Present? Present?	Yes Yes Yes ring well, a	No No No erial phot	x x x os, prev	Depth (inches) Depth (inches) Depth (inches) rious inspections), if a		loy Indicators F Yes	Present? No	(

Site:	W. Lanca	ster-S. Baltimo	ore-W. Millersport	t City/County		Fa	airfield County			n 2024 Data P	oint: 33
Client		AEP	N. Barnett	State: OH	Section	on, To	wnship, Range: Landform			S6, T 16N, R 18 Local Relief	
Slope	(%): `´	1-3	Lat. 3	39.886661	Long.		-82.567648	_ Datum_			N/A
Soil M C	ap Unit Na limatic/hvo	me: <u>Pewamo</u> Irologic conditio	silty clay loam, loons typical for time	ow caronate to ne of vear?	ill, 0 to 2 Y/N	perce Y	nt slopes				
	Vegeta	ation N	, Soil	N or H	ydrology		significantly disturbed				
Are No	Vegeta ormal Circu	ation Numstances Pre		N or H	ydrology No	N	_naturally problematic				
SUMN	MARY OF I		getation Present?	Yes x	No	-	_	1			
		Hyd	dric Soil Present?	Yes	No	Х	- : -			a Wetland?	
Rema	rks:	Wetland Hy	drology Present?	Yes	No	Х		Yes	No	Х	
	TATION			Al I1 - 0/	D						
Tree S	Stratum	Plot size:	30'	Absolute % Cover		inant ecies	Indicator Statu	ıs			
1.								NI NI		ninance Test W	
2. 3.	-				= ====					dominant spec BL, FACW, or F	1
4. 5.								Te	otal numb	per of dominant	1
				0	Total C	over		P	ercent of	ross all strata: dominant speci	100.00
Shrub 1.	Stratum	Plot size:	15'							BL, FACW, or F e Index Works	AC:
2.									Total 9	% cover of:	
3. 4.	-			-			<u> </u>		BL specion		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5.				0	Total C	`0\'0"		F.	AC specie ACU spec	es 40	x 3 120
Herb S	Stratum	Plot size:	5'		_				PL specie	es 0	x 4 x 5
1. 2.	Barbarea	vulgaris		40		Y	FAC	3	Tota	al <u>40</u> Prevalence	120 Index: 3.00
3.								Н		ic Vegetation	Indicators:
4. 5.							_			d Test for Hydro inance Test is:	
6.									x Prev	alence Index is	<u><</u> 3.0*
7. 8.										phological Adap ematic Hydrophyti	
Wood	v Vine Stra	tum Plot size:	30'	40	Total C	cover				ors of hydric so	
1.	y vine one	<u>ituiii</u> 1 10t 3126.							•	ogy must be pre sturbed or prob	•
2.	-			0	Total C	:over				ohytic Vegetati	
	Remarks:			· · · · · · · · · · · · · · · · · · ·	. 014.				Yes	x No	
SOIL		Profile Descr	iption: (Describ	e to depth n	eeded to	o doci	ument the indicator or		absence	of indicators.)	
	Depth (inche		Matrix %	Color	%	Type	Redox Featue* Loc**	ures Textur	·e	Remarks	
	0-14	10YR 3/	1 100			. , , ,	200	Si C L	_		
	14-18	3 10YR 3/	1 95	10YR 5/6	5			Si C L	_		
	*Ту	oe: C=Concent	ration, D=Depleti	on, RM=Red			S=Coated Sand grains	**Location	n: PL=Po	re Lining, M=Ma	atrix
	Histosol (A1)					Indicators: / Mineral (S1)		Redo	ox Dark Surface	e (F6)
	Histic Epi	pedon (A2)			5cm M	ucky É	Peat or Peat	_	Depl	eted Dark Surfa	ace (F7)
	Black His Hydrogen	Sulfide (A4)			_Sandy Sandy		d Matrix (S4) ((S5)	_		ox Depressions rs for Problemat	
	Stratified 2 cm Muc	Layers (À5)			Strippe		rix (S6) y Mineral (F1)	_		st Prairie Redox Manganese Ma	
	Depleted	Below Dark Su					ed Matrix (F2)			Shallow Dark	
Rostri		k Surface (A12 er (if observed		-	Deplet	ed Ma	trix (F3)		Othe	er	
		i (ii obscived	Depth (Inches)	:			Hydric Soil Pr	esent?	Yes	No	x
	Remarks: OLOGY										
		ogy Indicators		/abaalaall ti	4				Casa	- u - d - u - d : e t	
	Surface V	Vater (A1)	imary Indicators		r Staine		res (B9)	S		ondary Indicate oil Cracks (B6)	ors
	High Wat Saturation	er Table (A2)		Aqua	tic Faun Aquatic	a (B13	(B14)			Patterns (B10) n Water Table ((C2)
	Water Ma	rks (B1)		Hydro	ogen Sul	fide O	dor (C1)	С	rayfish B	urrows (C8)	,
	Sediment Drift Depo	Deposits (B2)					eres on Living Roots and Iron (C4)			Visible on Aeria Stressed Plant	al Imagery (C9)
	Algal Mat	or Crust (B4)		Rece	nt Iron R	Reduct	ion in Tilled Soil (C6)	G	eomorph	ic Position (D2)	
	Iron Depo		erial Imagery (B7)		Muck Suge or We			FF	AC-Neutr	al Test (D5)	
	Sparsely	Vegetated Con	cave Surface	Othe	r		. ,				
Field	Observati		Water Present? able Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydrolov	y Indicato	ors Present?	
Doso	he Possa	Saturatio	n Present?	Yes	No	Х	Depth (inches) rious inspections), if ava		Yes		Х
LICOLI I	DE 1/60010	ou pala islied	ııı uuau c . HIUHIIO	ınıu wen. aell	ai piiUlU	s, piev	ious mispections). Il dVa	anabic.			

Client: Invest Slope Soil M C	igator(s): (%): lap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Pewamo si gic condition N N tances Prese	Lat. ilty clay loam, kens typical for time, Soil , Soil	State: 39.88445 ow caron ne of yea N	OH 59 nate till r? or Hyd	Long. , 0 to 2 Y/N drology drology	percer Y N	irfield County /nship, Range: Landford -82.569989 nt slopes significantly disturbed naturally problemation	m <u>Drai</u> Datum	27 Mard Sei nageways n NAD83	c S6, T Loc	16N, R	18W C	31 Convex N/A
SUMIN	-	phytic Vege Hydri	etation Present? ic Soil Present?	Yes		No No	X	-		DP within				
Rema	rks:	/etiand Hydi	rology Present?	Yes		No	Х		Yes	No	Х			
VEGE	TATION			Absolu	ıto %	Dom	inant			ı				<u>'</u>
1. 2. 3. 4. 5.		Plot size:		Cov		Spe		Indicator Sta	tus	Number of that are C Total nun species a	of domi OBL, Fanber of	ACW, or dominar	cies FAC: nt	heet 0 2
		Plot size:		0		Total C	over			Percent of that are C Prevalen	of domi OBL, France Ind % cov cies Decies	nant spe ACW, or ex Work er of: 0 5	cies FAC:	0.00 0 10
Herb 5 1. 2. 3. 4. 5. 6. 7.	Stratum Lamium purpu Zea mays res Conium macu Stellaria medi Allium vineale	idue ılatum ia	5'	0 48 40 5 5 2	3	1	over Y Y N N N	UPL UPL FACW FACU FACU	5 5 2 4 4	FACU spectors To	ecies cies otal P ytic Ve pid Tes minance evalence	7 88 100 Prevalence egetation st for Hyd ce Test is se Index i gical Ada	x 4 x 5 e Index Indica Irophyti s >50% s <3.0*	28 440 478 4.78 ators: ic Veg.
1. 2.	y Vine Stratum	Plot size:	30'	0		Total C				*Indica hydro	ators of plogy m disturb ophytic	Hydrophy hydric so lust be pro ed or pro Vegeta No	oil and resent, blemat	wetland unless ic
SOIL	Pro	file Descrip	tion: (Describ	e to der	oth ne	eded to	docu	ment the indicator of	r confirr	n absence	e of inc	dicators.)	
	Depth	Ī	Matrix					Redox Fea	tures					
	(inches) 0-18	Color 10YR 3/1	% 100	Col	or	%	Туре	* Loc**		ture	F	Remarks		
	0.10	10110 3/1	100				+			_				
		 		 										
	*Type: C	=Concentra	ation, D=Depleti	on, RM=	Reduc	ced Mat	rix, CS	=Coated Sand grains	**Loca	tion: PL=P	ore Lir	ing, M=N	/latrix	
	11'-11 (04)							ndicators: Mineral (S1)		Б.	.l D	-l- Of	· · /E0\	
Rostri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) .10) ow Dark Surf urface (A12)	` ′	- - - - - -		5cm Mu Sandy Sandy Strippe Loamy	ucky Po Gleyed Redox d Matri Mucky Gleyed	eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F2)		De Re Indica	pleted dox De tors for ast Pra n-Manç	rk Surfac Dark Sur pression Problema irie Redo ganese M low Dark	face (F s (F8) atic Hyd ox (A16 lasses	ric Soils (F12)
10361	ctive Layer (ii	observeuj.	Depth (Inches)):				Hydric Soil P	resent?	Ye	s	No	X	
	Remarks:													
	OLOGY nd Hydrology	Indicators:												
		Prim	nary Indicators									ry Indica		
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerie			Aquati True A Hydrog Oxidizo Preser Recen Thin M	ed Rhiz	a (B13) Plants fide Oc cospher Reduce leduction	(B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface S Drainage Dry-Seas Crayfish I Saturatio Stunted of Geomorp FAC-Neu	Patter son Wa Burrow n Visib or Stres phic Pos	ns (B10) ter Table s (C8) le on Aer ssed Plar sition (D2	(C2) rial Ima	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes		No No No	X X X	Depth (inches) Depth (inches) Depth (inches)	_	loy Indica Ye		resent? No	х	
Descri	ibe Recorded D	vata (stream	guage, monito	rıng well	, aeria	ı pnotos	s, previ	ous inspections), if a	/aiiable:					

Sito:	W Lancaste	ır-S Baltimor	WEILA e-W. Millersport			_	FORM-MIDWEST	I REGI Date:	_	n 2024 Data	Point: 28
Client:		AEP	•	State: OH	Sectio		nship, Range:		Sec	S7, T 16N, R	18W
Invest Slope	igator(s): (%)·	N. Houk, N 1-3		9.877952	Long.		_ Landform -82.574087		nageways NAD83	Local Relief NWI Class:	Convex N/A
Soil M	làp Únit Name	e: Pewamo s	silty clay loam, lo	w caronate ti	II, 0 to 2	percent		_ Datum	1171200	_ 14441 Oldoo.	14// (
С	limatic/hydrolo Vegetatio		ns typical for tim , Soil		Y/N /drology	$\frac{Y}{N}$	significantly disturbed				
	Vegetatio	n N	, Soil	N or Hy	drology/	N	naturally problematic				
Are No	ormal Circums MARY OF FIN	stances Pres	ent? Y	es x	No						
SUIVIN	Hydr	rophytic Vege	etation Present?	Yes	No	Х		1			
	,	Hydr	ric Soil Present?	Yes	No	Х				a Wetland?	
Rema		wetiand Hyd	Irology Present?	Yes	No	Х		Yes	No	Х	
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute %	Domi		Indicator Statu	ıs			
1.				Cover	Spe	cies			Dor	ninance Test	Worksheet
2.									Number of	dominant spe	cies
3. 4.									that are Ol	BL, FACW, or per of dominar	FAC:
5.									species ac	ross all strata:	1
O ! !-	011	DI	451	0	Total C	over			Percent of	dominant spe	cies 0.00
Shrub 1.	Stratum	Plot size:	15'							BL, FACW, or e Index Work	FAC:
2.			 ,							% cover of:	Silect
3.									OBL speci		x 1 0
4. 5.							-		FACW speci		x 2 x 3
				0	Total C	over			FACU spe	cies 0	x 4 0
Herb S	Stratum Glycine max	Plot size:	5'	60	`	/	UPL	5	UPL speci Tota		x 5 300 300
1. 2.	Glycine max	residue			'		UPL	5	100	Prevalenc	
3.										tic Vegetation	
4. 5.					_					id Test for Hyd ninance Test is	
6.							-			alence Index i	
7.										phological Ada	
8.				60	Total C	over	-			lematic Hydrophy	oil and wetland
	y Vine Stratun	n_Plot size:	30'							ogy must be pi	
1. 2.									•	isturbed or pro	
			 ,	0	Total C	over					tion Present?
SOIL	Remarks:								Yes	No	X
SUIL	Pro	ofile Descrip	otion: (Describ	e to depth ne	eded to	docun	nent the indicator or	confirm	absence	of indicators.)
	Depth		Matrix				Redox Featu	ıres			,
	(inches) 0-18	Color 10YR 3/2	% 100	Color	%	Type"	Loc**	Text Si C		Remarks	
	0.0	.0									
	*Type:	C=Concentra	ation, D=Depleti	on, RM=Redu			Coated Sand grains	**Locat	ion: PL=Pc	re Lining, M=N	Matrix
	Histosol (A1)	1					dicators: Mineral (S1)		Red	ox Dark Surfac	ce (F6)
	Histic Epiped				5cm Mu	icky Pe	at or Peat	-		leted Dark Sur	
	Black Histic (Hvdrogen Su				Sandy (Gleyed	Matrix (S4)	-		ox Depression	s (F8) atic Hydric Soils
	Stratified Lay				Sandy I Stripped					st Prairie Redo	
	2 cm Muck (/	A10)			Loamy	Mucky I	Mineral (F1)	- -	Iron-	-Manganese M	lasses (F12)
	Depleted Bel Thick Dark S				Loamy Deplete		Matrix (F2)	-	Very Othe		Surface (F12)
Restri	ictive Layer (i				Deplete	u Main	х (гэ)		Otne	2 1	
		,	Depth (Inches)				Hydric Soil Pro	esent?	Yes	No	X
	Remarks: OLOGY										
	nd Hydrology	y Indicators:									
	Curfo on Mot	Prir	nary Indicators	(check all th	at apply	<u>')</u>	- (DO)			ondary Indica	
	Surface Water T				r Stained tic Fauna		s (B9)			oil Cracks (B6) Patterns (B10)	
	Saturation (A	\3) `´´		True	Aquatic F	Plants (l	B14)		Dry-Seaso	n Water Table	
	Water Marks				gen Sulf					urrows (C8)	sial Imagan, (CO)
	Sediment De Drift Deposits						es on Living Roots I Iron (C4)			Stressed Plan	rial Imagery (C9) nts (D1)
	Algal Mat or	Crust (B4)		Recei	nt Iron R	eductio	n in Tilled Soil (C6)		Geomorph	ic Position (D2	
	Iron Deposits		ial Imagery (B7)		Muck Su			<u> </u>	FAC-Neuti	al Test (D5)	
	Sparsely Vec			Guag Other	e or Wel	เ บลเล ((פּט				
Field		s: Surface W	ater Present?	Yes	No	Х	Depth (inches)			_	
		Water Tab Saturation	ole Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hydrol	oy Indicat Yes	ors Present? No	x
Descri	ibe Recorded						ous inspections), if ava	ailable:	163	110	

Site: Client:		er-S. Baltimore	e-W. Millersport	City/County:		Fa	irfield County /nship, Range:	_Date:		n 2024 <u>Data Po</u> S7, T 16N, R 18	
Investi	igator(s):	N. Houk, N	I. Barnett	-		,, , , o v	Landform		nageways	Local Relief	Convex
Slope Soil M		1-3 e: Pewamo si	Lat. 3 ilty clay loam, lo	39.871979 ow caronate til	Long. IL 0 to 2	percer	-82.576534 nt slopes	Datum	NAD83	NWI Class:	N/A
C	limatic/hydro	logic condition	ns typical for tim	e of year?	Y/N	Υ	•				
	Vegetation Vegetation		,		drology drology		significantly disturbed naturally problematic				
	ormal Circum	stances Prese		es x			a.ay problemane -				
SUMN	MARY OF FIN Hvd		tation Present?	Yes	No	Х					1
	•	Hydri	c Soil Present?	Yes	No	Х	-			a Wetland?	
Remai		Wetland Hydr	rology Present?	Yes	No	Х		Yes	No	X	
	TATION										
Tree S	Stratum	Plot size:	30'	Absolute % Cover		inant cies	Indicator Statu	IS			
1.				Cover	Spe	CIES			Don	ninance Test W	orksheet
2.										dominant specie	7
3. 4.					-				Total numb	BL, FACW, or FA ber of dominant	
5.										ross all strata:	4
Shruh	Stratum	Plot size:	15'	0	Total C	over				dominant specie BL. FACW. or FA	50.00
1.	Rubus alleg	heniensis		5	•	Y	FACU	4	Prevalenc	e Index Worksh	
2.	Rosa multifle	ora		3		N	FACU	4	Total %	% cover of:	y 1
3. 4.					-				FACW species		x 1 <u>0</u> x 2 100
5.							· -		FAC speci	es 0	x 3 0
Herh S	Stratum_	Plot size:	5'	8	Total C	over			FACU specie		
1.	Conium mad			30	,	Y	FACW	2	Tota	al 98	322
2.	Lamium pur			30 20		Y Y	UPL	5] 	Prevalence	
3. 4.	Cyperus esc Stellaria me			10		Y N	FACW FACU	<u>2</u> 4		tic Vegetation In id Test for Hydro	
5.		u.u					17100	•	Dom	ninance Test is >	50%
6. 7.										/alence Index is : ohological Adapt	
7. 8.										lematic Hydrophytic	
	\" O	DI		90	Total C	over			*Indicat	ors of hydric soil	and wetland
Woods	y Vine Stratui	m_Plot size:	30'						,	ogy must be pres	•
2.										isturbed or probl	
	Remarks:			0	Total C	over			Hydror Yes	phytic Vegetatio No	on Present?
SOIL											~
	Pi Depth		ition: (Describ Matrix	e to depth ne	eded to	docu	ment the indicator or Redox Featu		n absence	of indicators.)	
	(inches)	Color	%	Color	%	Type	* Loc**	Text	ture	Remarks	
	0-18	10YR 3/2	100					Si (CL		
	*Type:	C=Concentra	l ation, D=Depleti	⊥ on, RM=Redu	iced Ma	trix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=Ma	trix
			•	•	Hydric	Soil I	ndicators:		D(D 0 f	(F0)
	Histosol (A1 Histic Epipe						Mineral (S1) eat or Peat			ox Dark Surface leted Dark Surfa	
	Black Histic	(A3) ´			Sandy	Gleyed	d Matrix (S4)		Redo	ox Depressions	(F8) ´
	Hydrogen Stratified La				Sandy Strippe					ors for Problemationst Prairie Redox	
	2 cm Muck (Mineral (F1)			-Manganese Mas	
	Depleted Be	low Dark Surf	ace (A11)		Loamy	Gleye	d Matrix (F2)			√ Shallow Dark S	urface (F12)
Restri		Surface (A12) (if observed):	Type:		Deplete	ed Mati	rix (F3) T		Othe	er	
			Depth (Inches)				Hydric Soil Pro	esent?	Yes	No	x
	Remarks: OLOGY										
		y Indicators:									
	Surface Wat		nary Indicators		at apply r Stained		oo /P0\			ondary Indicato oil Cracks (B6)	rs
	High Water				ic Faun					Patterns (B10)	
	Saturation (A3) `´´		True	Aquatic	Plants	(B14)		Dry-Seaso	n Water Table (0	C2)
	Water Marks Sediment De				gen Sul		dor (C1) res on Living Roots			urrows (C8) Visible on Aeria	I Imagery (C9)
	Drift Deposit	ts (B3)					d Iron (C4)		Stunted or	Stressed Plants	
	Algal Mat or						on in Tilled Soil (C6)			ic Position (D2)	
	Iron Deposit		al Imagery (B7)		Muck Su e or We				FAC-Neutr	ral Test (D5)	
	Sparsely Ve	getated Conc	ave Surface	Other							
		e Surface W	ater Present?	Yes	No	Х	Depth (inches)				
Field (Observation			Voc	No	v	Donth (inches)	Hydro	lov Indicate	ore Procont?	
		Water Tab	le Present? Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches) ous inspections), if ava	_	loy Indicate Yes	ors Present? No	х

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	Lat. n silt loam, 0 tons typical for tir , Soil , Soil	State: _ 39.86654 2 percer ne of yea N	OH I1 It slope Ir? or Hyd	Long. es Y/N Irology Irology	n, Tow Y N	irifield County vnship, Range: Landforn -82.578898 significantly disturbed naturally problematic	m <u>M</u> Datum		12024 Data 518, T 16N, I Local Relie NWI Class	R 18W ef(22 Convex N/A
SUMN	-	phytic Vege Hydri	etation Present ic Soil Present	? Yes ¯		No No	X	-		DP within a			
Remai	ks:	Vetland Hydi	rology Present	? Yes		No	Х		Yes	No	Х		
VEGE	TATION			۸ h a a l .	.t. 0/	D							
1. 2. 3. 4. 5.		Plot size:		Absolu		Spe		Indicator Stat	us	Number of that are OE Total numb	ninance Tes dominant sp BL, FACW, o per of domina ross all strat	ecies or FAC: ant	1 3
Shrub 1. 2. 3. 4.		Plot size:		0		Total C	over			Percent of that are OF Prevalence	dominant sp BL, FACW, on the Index Work of cover of: the cover of:	ecies r FAC:	33.33
1.	Stratum Glycine max I Barbarea vulg Stellaria medi Allium vineale	garis ia	5'	0 40 20 20 5)	Total C	<u> </u>	UPL FAC FACU FACU	5 3 4 4	FACU species UPL species Tota Hydrophyt Rapi Dom Prev	cies 2	25 x 4 40 x 5 35 nce Inde: on Indic; or drophytis >50% c is ≤3.0°	100 200 360 x: 4.24 ators: ic Veg.
1. 2.	/ Vine Stratum			85		Total C				*Indicate hydrolo di	ematic Hydrop ors of hydric ogy must be sturbed or p ohytic Veget No	soil and present, roblema	wetland unless tic
SOIL	Pro	file Descrin	ntion: (Descri	he to der	oth nee	aded to	docu	ment the indicator of	r confirm	n ahsence	of indicator	e 1	1
	Depth		Matrix	be to dep	Juli He	tueu io	uocu	Redox Feat		ii absence	or indicator.	s. <i>j</i>	
	(inches)	Color	%	Col	or	%	Туре	* Loc**		ture	Remark	S	
	0-18	10YR 3/2	100						51	L			
	*Type: (C-Concentra	ation D=Denle	ion RM-	Reduc	ed Mat	rix C.S	S=Coated Sand grains	**Loca	tion: PI =Po	re Linina. M=	-Matrix	
	турс. С	<u> </u>	Allon, B-Beple			Hydric	Soil I	ndicators:	Looa	(IOI). 1 L=1 O	io Lilling, ivi-	-IVICUIX	
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) a10) ow Dark Surf urface (A12)	, ,	- - - - - -		5cm Mu Sandy (Sandy I Strippe Loamy	icky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) ⁄ Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Surfa eted Dark So ox Depressions for Probler st Prairie Rea Manganese Shallow Darer	urface (F ons (F8) natic Hyd dox (A16 Masses	7) Iric Soils S) (F12)
Restri	ctive Layer (if	observed):	: Type: Depth (Inches	\·				Hydric Soil P	rasant?	Yes	No	х	
	Remarks:		Deput (mones	7.				1 TIYOTIC SOILE	. cociil (162	INU		
	OLOGY												
wetiai	nd Hydrology		nary Indicator	s (check	all tha	t apply	·)			Seco	ondary Indic	ators	
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc	ial Imagery (B7 ave Surface		Water Aquation True A Hydrog Oxidize Present Recent	Stained Fauna quatic f gen Sulf ed Rhize ace of R	Leave (B13) Plants ide Od osphe educe educti rface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	oil Cracks (Bi Patterns (B10 In Water Tab Jurrows (C8) Visible on A Stressed Platic Position (I al Test (D5)	6))) le (C2) erial Ima ants (D1	gery (C9))
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes Oring well	, aerial	No No No photos	x x x , prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicate Yes	ors Present' No	? x	

Client: Investig Slope (Soil Ma Cl	gator(s): (%): ap Unit Name: imatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	Lat. n silt loam, 0 to ns typical for tir , Soil , Soil	State: 39.8602 2 perce	OH 15 ent slop ar? or Hy	Long. es Y/N drology drology	n, Tov	nirfield County vnship, Range: Landforn -82.581483 significantly disturbed naturally problematic	n <u>M</u> Datum	27 March Sec S oraines NAD83	2024 Data 518, T 16N, F Local Relie NWI Class	R 18W fC	19 Convex N/A
SUMM	-	phytic Vege Hydri	tation Present ic Soil Present	? Yes		No No	X	_		DP within a	a Wetland?		
Remar		Vetland Hydi	rology Present	? Yes		No	Х		Yes	No	X		
VEGE	TATION			A I I		D				1			
Tree S 1. 2. 3. 4. 5.		Plot size:			ute % ver		inant	Indicator State	us	Number of that are Of Total numb	ninance Test dominant sp BL, FACW, o per of domina ross all strata	ecies FAC: nt	0 2
	Stratum	Plot size:	15'		0	Total C	over			Percent of that are Of Prevalenc	dominant speak, FACW, or elected line work work cover of: es ecies	ecies FAC:	0.00 0 0 15
<u>Herb S</u> 1. 2.	Stratum Zea mays res Stellaria medi Barbarea vulg	ia	5'	7 2	0 0 0 5		over Y Y N	UPL FACU FAC	5 4 3	FACU species Tota Hydrophyte Rapies Dome	cies 2		80 350 445 4.68 ators: c Veg.
8. <u>Woody</u> 1. 2.	Vine Stratum		5'		0	Total C				Probl *Indicat hydrold di	ematic Hydropl ors of hydric ogy must be p sturbed or pr ohytic Veget No	nytic Vege soil and present, oblemat	etation* wetland unless ic
SOIL	Pro	file Descrin	ntion: (Descri	ne to de	nth ne	eded to	doci	ment the indicator or	confirm	n absence	of indicators		
ſ	Depth		Matrix	Je to de	purne	cucu it		Redox Feat		ii abscilec	or indicators	,.,	
	(inches)	Color	%	Co	olor	%	Туре	e* Loc**		ture	Remarks	3	
	0-18	10YR 4/3	100						L	_			
ŀ													
	*Type: (C=Concentra	tion. D=Deple	ion. RM	=Redu	ced Mat	rix. CS	S=Coated Sand grains	**Locat	tion: PI =Po	re Linina. M=	Matrix	
	. , , , , ,		2 200.00			Hydric	Soil I	ndicators:			· <u>J</u> ,		
	Histosol (A1) Histic Epipedo Black Histic (I Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	A3) fide (A4) ers (A5) a10) ow Dark Surf urface (A12)	, ,			5cm Ma Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Surfa eted Dark Su ox Depressio rs for Problen st Prairie Red Manganese I Shallow Dar	irface (F ns (F8) natic Hyd lox (A16 Masses	ric Soils) (F12)
Resuit	Clive Layer (II	observeu).	Depth (Inches):				Hydric Soil Pr	esent?	Yes	No	x	
	Remarks:		, ,										
	OLOGY nd Hydrology	Indicators:											
		Prin	nary Indicator	s (check					L	Sec	ondary Indic	ators	
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc)	Aquati True A Hydro Oxidiz Preser Recen Thin N	ed Rhiz	a (B13) Plants fide Od osphe Reduce educti rface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	oil Cracks (Be) catterns (B10 n Water Tabl urrows (C8) Visible on Ae Stressed Plai ic Position (D al Test (D5)) e (C2) erial Ima nts (D1)	gery (C9)
Field (Observations:	Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes oring we	II, aeria	No No No Il photos	X X X S, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if avi		loy Indicate Yes	ors Present? No	x	

Client: Invest Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt I gic condition N N	N. Barnett Lat. loam, occasion s typical for tir , Soil , Soil	State	232 oded ear? or Hy	Long Y/N vdrology	on, Tov	airfield County vnship, Range: Landfor -82.583901 significantly disturbed naturally problematic	m Floo Datum		2024 Data 519, T 16N, R Local Relief NWI Class:	18W	nonvex N/A
	MARY OF FIND	INGS phytic Vege	etation Present	? Yes	Х	No		=	1				
Domo			ic Soil Present rology Present			No No	X X	_	Is the Yes	DP within a	a Wetland?		
Rema VEGE	TATION												
1. 2. 3. 4.		Plot size:			olute % over		ninant ecies	Indicator Sta	tus	Number of	ninance Test dominant spe BL, FACW, or per of dominar	cies	neet 22
1. 2. 3.	<u>Stratum</u>	Plot size:	15'		0	Total (Cover			Percent of that are Of Prevalenc Total % OBL speci-		cies FAC: sheet	100.00
4. 5. Herb 9 1. 2. 3. 4. 5. 6.	Stratum Phalaris arund Apocynum ca Echinacea pa Allium vineale	nnabinum Ilida	5'		0 45 20 10 5	Total (Cover Y Y N N	FACW FAC UPL FACU	2 3 5 4	Rapi x Dom	es 20 cies 5 es 10	e Index Indica Irophytics >50%	tors:
1. 2.	y Vine Stratum				80	Total (Probl *Indicate hydrolo di Hydro p	phological Ada ematic Hydroph ors of hydric s ogy must be p sturbed or pro phytic Vegeta	vtic Vege oil and v resent, u oblemati	tation* wetland unless c
SOIL	Remarks:									Yes	x No		
00.2				be to c	epth ne	eded t	o docu	ment the indicator o		n absence	of indicators.)	
	Depth (inches)	Color	Matrix %	-	Color	%	Type	Redox Fea		ture	Remarks		-
	0-18	10YR 3/2			Oloi	/0	Турс	LUC	Si (Remarks		-
			 										-
	*Type: C	C=Concentra	ation, D=Deple	ion, RI	M=Redu			S=Coated Sand grains Indicators:	**Loca	tion: PL=Po	re Lining, M=N	<i>l</i> atrix	
	Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo	A3) fide (A4) ers (A5) 10)	face (A11)			Sandy 5cm M Sandy Sandy Strippo Loamy	Mucky Mucky P Gleyed Redox ed Matr Mucky	Mineral (S1) Peat or Peat d Matrix (S4) (S5)		Depl Redo Indicato Coas	ox Dark Surface eted Dark Sur ox Depression rs for Problem ot Prairie Redo Manganese M Shallow Dark	face (F7 s (F8) atic Hydr ox (A16) lasses (ic Soils F12)
	Thick Dark Su	ırface (A12)	, ,			Deple	ted Mat	rix (F3)		Othe			- ()
Restri	ictive Layer (if	observed):	: Type: Depth (Inches	١٠				Hydric Soil P	recent?	Yes	No	х	
	Remarks:		Deptil (Iliches).				Tiyane Son i	resent:	163	NO		
	OLOGY	ll' 1											
wetia	nd Hydrology		nary Indicator	s (che	k all th	at app	lv)			Sec	ondary Indica	tors	
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc	ial Imagery (B7 ave Surface)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	r Staine lic Faur Aquatic ligen Su liged Rhi lince of lint Iron I Muck Si lige or We	ed Leav na (B13 Plants Ilfide Od zosphe Reduce	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	il Cracks (B6) catterns (B10) n Water Table urrows (C8) Visible on Ae Stressed Plar ic Position (D2 al Test (D5)	e (C2) rial Imaç nts (D1)	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes	ال معتا	No No No	X X X	Depth (inches) Depth (inches) Depth (inches)		loy Indicate Yes	ors Present? No	х	
Descr	ine kecolaea L	vata (Stream	i guage, monito	ning w	en, aeria	ai prioto	, prev	ious inspections), if a	aliable.				

Client: Invest Slope Soil M	igator(s): (%): (ap Unit Name limatic/hydrolo Vegetation Vegetation	AEP N. Houk, N 1-3 : Minster sillogic condition n N n N	N. Barnett Lat. Ity clay loam ins typical fo , Soil , Soil	39.85 1, 0 to 1 p r time of N	e: OH 1571 ercent sl year? or Hy or Hy	Long. opes Y/N rdrology	n, Tow 	irfield County unship, Range: Landform -82.584979 significantly disturbed naturally problematic	- ı Lak		2024 Data Po 19, T 16N, R 18 Local Relief NWI Class:	
	ormal Circums MARY OF FINI			Yes	X	No No		-	1			
	-	Hydr Wetland Hyd	ric Soil Pres	ent? Yes	X	_No No	X 	- -	Is the Yes	DP within a No	Wetland?	
Rema	rks: TATION								-			
				Abs	solute %	Dom	inant					
1. 2. 3. 4.		Plot size:			Cover	Spe	cies	Indicator Statu	JS	Number of o	inance Test Wo dominant specie L, FACW, or FA er of dominant	es 0 AC:0
5.	Stratum	Plot size:			0	Total C	over			species acre Percent of contract that are OB	oss all strata: dominant specie L, FACW, or FA e Index Worksh	es 0.00
2. 3. 4. 5.										Total % OBL specie FACW specie FAC specie	cover <u>of:</u> es	x 1 0 x 2 0
Herb \$ 1. 2.	Stratum Glycine max Lolium multifi	Plot size: residue	_		0 60 30	Total C	over /	UPL UPL	5 5	FACU spec UPL specie Total	s 90)	x 5 450 450
3. 4. 5. 6. 7.										Rapid Domi Preva	ic Vegetation Ir d Test for Hydro nance Test is statence Index is	phytic Veg. 50% < <u>3</u> .0*
8.					00	T-1-10				Proble	ematic Hydrophytic	Vegetation*
Wood 1. 2.	y Vine Stratum	n_ Plot size:	30'		90	Total C				hydrolog dis	ors of hydric soil gy must be pres sturbed or proble	sent, unless ematic
	Remarks:	1			0	Total C	over			Hydrop Yes	hytic Vegetatio No	n Present? x
SOIL												
	Depth Pro		ption: (Des Matrix	cribe to	depth ne	eded to	docu	ment the indicator or Redox Featu		n absence o	of indicators.)	
	(inches)	Color	%		Color	%	Туре	* Loc**	Text		Remarks	
	0-4 4-18	10YR 2/2 10YR 2/2		10	YR 4/6	5	С	M	C			
	4-10	1011 2/2	93	10	711(4/0	3		IVI		<u> </u>		
	*Type:	C=Concentr	ation D=De	pletion R	M=Redu	ced Mat	rix C.S	 S=Coated Sand grains	**Locat	ion: PI =Por	e Lining, M=Mat	rix
	1,700.	<u>0-00110011111</u>	<u>ution, B-Bo</u>	piotion, r		Hydric	Soil I	ndicators:	Local		G,	
	_Histosol (A1) _Histic Epiped Black Histic (lon (A2) (A3)				5cm Mu Sandy (icky É Gleyed	Mineral (S1) eat or Peat Matrix (S4)		Deple Redo	x Dark Surface eted Dark Surfac x Depressions (ce (F7) F8)
	Hydrogen Su Stratified Lay					Sandy I					s for Problemation	
	2 cm Muck (A							Mineral (F1)			Manganese Mas	
	Depleted Bel							d Matrix (F2)			Shallow Dark Si	urface (F12)
Postri	Thick Dark S ictive Layer (i					Deplete	ed Mati	rix (F3) 1		Other	ſ	
IIVE SUI	ictive Layer (i	i observeu)	Depth (Incl	hes):				Hydric Soil Pro	esent?	Yes	x No	
	Remarks:							_				
	OLOGY nd Hydrology	/ Indicators										
		Prir	nary Indica	tors (che							ndary Indicato	rs
	_Surface Wate _High Water T _Saturation (A _Water Marks	āble (A2) .3)			Aquat	r Stained ic Fauna Aquatic F gen Sulf	a (B13) Plants) (B14)		Drainage Pa	il Cracks (B6) atterns (B10) n Water Table (C irrows (C8)	; 2)
	Sediment De Drift Deposits Algal Mat or (Iron Deposits	S (B3) Crust (B4)			Prese Recer	nce of R	educe eduction	res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Stunted or S	Visible on Aerial Stressed Plants c Position (D2) al Test (D5)	
	Inundation Vi	isìble on Aeri			Guag	e or Wel						
Field	Sparsely Veg Observations				Other	No	Х	Depth (inches)	1			
1614	- Door valions	Water Tab	ole Present?	Yes		No	Х	Depth (inches) Depth (inches)	Hydro		rs Present?	v
Descri	ibe Recorded		<u>n Present?</u> n guage, mo	Yes onitoring v		No al photos	x , previ	ous inspections), if ava	ailable:	Yes	No	Х

Client: Invest Slope Soil M	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Canal silt lo	Lat. 3	State: 39.84599 cent slo	94 pes	Long.	n, Tow	irfield County vnship, Range: Landforn 	n Te	27 March Sec Serraces NAD83	n 2024 Da 319, T 16N Local Re NWI Clas	, R 18W lief	Convex N/A
Are No	Vegetation Vegetation ormal Circumst	N N ances Prese	, Soil	N N /es	or Hy or Hy x	-	N	significantly disturbed naturally problematic	I				
	W	Hydri	ic Soil Present? rology Present?	? Yes		No No No	X X X	-	Is the Yes	DP within a	a Wetland? x	>	
Rema VEGE	rks: TATION												
1. 2. 3. 4.	Stratum_	Plot size:		Absolu		Dom Spe	inant cies	Indicator Stat	us	Number of that are Of Total numb	BL, FACW, per of domi	species or FAC: nant	0
5. Shrub 1. 2. 3. 4. 5.	Stratum_ Pyrus callerya Sambucus cal Lonicera maad	nadensis	15'	4-	5		over Y Y	UPL FACU UPL	5 4 5	Percent of that are Of Prevalenc	BL, FACW, e Index We 6 cover of: es ecies	species or FAC: orksheet 0 x 1 0 x 2	0 0
Herb 5 1. 2. 3. 4. 5.	Stratum_ Allium vineale Solidago cana Poa pratensis	adensis		30 20 10	0		over Y Y	FACU FACU FAC	4 4 3	FACU species Tota Hydrophyte Rapi Dom Prev	cies es Prevale tic Vegetat id Test for I sinance Test ralence Inde	Hydrophy at is >50% ax is <u><</u> 3.0	260 250 540 ex: 4.32 cators: rtic Veg. %
1. 2.	y Vine Stratum Remarks:	_ Plot size:		6		Total C				Probl *Indicat hydrolo di	ohological A ematic Hydro ors of hydri ogy must be isturbed or ohytic Vege No	ophytic Ver c soil and e present problema etation F	getation* d wetland t, unless atic Present?
SOIL	Pro	file Descrip	tion: (Describ	e to de	pth ne	eded to	docu	ment the indicator o	r confirn	n absence	of indicato	rs.)	
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	Со	olor	%	Туре	Redox Feat	Text		Remar	ks	
	*Type: C	C=Concentra	ation, D=Deplet	ion, RM	=Redu	ced Mat	rix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, N	∕I=Matrix	
	Historia (A4)							ndicators: Mineral (S1)		Dad	ari Danii Cri	-fa-a- (EC	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	, ,			5cm Mi Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleyed	eat or Peat ´ I Matrix (S4) (S5) ix (S6) d Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas	ox Dark Suleted Dark Sox Depressors for Problest Prairie Rumanganese Shallow Der	Surface (ions (F8) ematic Hy edox (A1 e Masses	(F7) odric Soils 6) s (F12)
			Depth (Inches)):				Hydric Soil P	resent?	Yes	No) х	
	Remarks: OLOGY												
	nd Hydrology												
	Sparsely Vege	r (A1) able (A2) B) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerie			Water Aquati True A Hydrog Oxidiz Presen Recen Thin M	Stained ic Fauna Aquatic I gen Sulf ed Rhiz nce of R	d Leave a (B13) Plants fide Oc osphe Reduce eduction	(B14) dor (C1) res on Living Roots dol Iron (C4) on in Tilled Soil (C6) C7)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	n Water Ta urrows (C8) Visible on A Stressed F ic Position	36) l0) ble (C2)) Aerial Im Plants (D' (D2)	agery (C9)
	Observations:	Surface Water Table Saturation	ater Present? le Present? Present?	Yes Yes Yes oring wel	l, aeria	No No No al photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av	_	loy Indicate Yes			

			e-W. Millersport				field County	Date:	27 March 2024		10
Client: Investi	igator(s):	AEP N. Houk, N		State: OH	_Section	n, Iowr	nship, Range: Landform	Lak	Sec S24, T 16 te Plains Local F		nvex
Slope	(%):	1-3	Lat. 3	9.843258	Long.		- -82.588475	Datum			V/A
			ty clay loam, 0 to								
С	limatic/hydrolog Vegetation	gic conditior N	ns typical for tim , Soil	e of year? N or H\	Y/N /drology	$\frac{Y}{N}$	significantly disturbed				
	Vegetation	N	, Soil		/drology		naturally problematic				
	ormal Circumst	ances Pres		es x			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SUMN	IARY OF FIND		totion Dragant?	V	NI-			ı			
	пушо		etation Present? ic Soil Present?		_No No	X		Is the I	DP within a Wetlan	43	
			rology Present?		No	X		Yes	No x		
Remai								-			
	TATION			Absolute %	Domi	inant					
Tree S	Stratum_	Plot size:	30'	Cover	Spe		Indicator Statu	s			
1.				0010.	Opo.	0.00			Dominance '	Test Worksh	eet
2.									Number of dominan		1
3. 4.									that are OBL, FACV Total number of dor	W, or FAC:	
5.	-			-					species across all s	strata:	3
				0	Total Co	over			Percent of dominan	t species	33.33
	Stratum Cornus alba	Plot size:	15'	30	Υ	,	FACW	2	that are OBL, FACV		
1. 2.	Rubus alleghe	eniensis		20	- - '		FACU	<u>2</u> 4	Prevalence Index Notal % cover of		
3.	Rosa multiflor	а		10	N	-	FACU	4	OBL species	10 x 1	10
4.	Lonicera maa	ckii		5	N	1	UPL		FACW species	30 x 2	60
5.	-			65	Total Co	over	-		FAC species FACU species	30 x 3 75 x 4	90 300
Herb S	Stratum	Plot size:	5'		_ 10101 01	0 7 01			UPL species	5 x 5	25
1.	Solidago cana			40	<u>Y</u>		FACU	4	Total	150	485
2. 3.	Juncus tenuis Poa pratensis			15 15	<u> </u>	-	FAC FAC	3	Preva Hydrophytic Veget	alence Index:	
3. 4.	Juncus effusu			10	N		OBL	1	Rapid Test fo		
5.	Symphyotrich	um ericoide	S	5	N	1	FACU	4	Dominance T	est is >50%	,
6. 7.				-	-				Prevalence Ir		*
7. 8.									Morphologica Problematic Hy		
				85	Total Co	over			*Indicators of hyd		
	y Vine Stratum	Plot size:	30'						hydrology must		
1.									disturbed (or problemation	
2.									disturbed t	or problemane	,
2.				0	Total Co	over			Hydrophytic Ve	egetation Pre	
ı	Remarks:			0	Total Co	over			Hydrophytic Ve	•	
		l file Descrip	otion: (Describ				nent the indicator or	confirm	Hydrophytic Ve Yes	egetation Pre No x	
ı	Pro Depth	i	Matrix `	e to depth no	eeded to	docun	nent the indicator or Redox Featu	ıres	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches)	Color	Matrix %			docun		res Text	Hydrophytic Ve Yes n absence of indica	egetation Pre No x	
ı	Pro Depth (inches) 0-6	Color 10YR 4/1	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches)	Color	Matrix %	e to depth no	eeded to	docun	Redox Featu	res Text	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6	Color 10YR 4/1	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophytic Ve Yes n absence of indica	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6 6-18	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5	Type*	Redox Featu Loc**	res Text Si Si C	Hydrophytic Veryes n absence of indicature Rem L CL	egetation Pre No x ators.)	
ı	Pro Depth (inches) 0-6 6-18	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5 sced Mate	Type* C rix, CS=	Redox Featu Loc** M -Coated Sand grains dicators:	res Text Si Si C	Hydrophytic Veryes n absence of indications ure Rem L C L ion: PL=Pore Lining	egetation Pre No x ators.) harks , M=Matrix	
ı	Pro Depth (inches) 0-6 6-18 *Type: C	Color 10YR 4/1 10YR 4/1	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate	docun Type* C rix, CS= Soil In	Redox Featu Loc** M Coated Sand grains dicators: Mineral (S1)	res Text Si Si C	Hydrophytic Veryes n absence of indicators ure Rem L C L ion: PL=Pore Lining Redox Dark S	egetation Pre No x ators.) marks , M=Matrix Surface (F6)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C	Color 10YR 4/1 10YR 4/1 =Concentra	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate Hydric Sandy N 5cm Mu	Type* C rix, CS= Soil In Mucky N	Redox Featu Loc** M Coated Sand grains dicators: Wineral (S1) at or Peat	res Text Si Si C	Hydrophytic Veryes n absence of indication: L C L ion: PL=Pore Lining Redox Dark S Depleted Dar	egetation Pre No x ators.) harks , M=Matrix Surface (F6) k Surface (F7)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (# Hydrogen Sull	Color 10YR 4/1 10YR 4/1 ==Concentra on (A2) 33) fide (A4)	Matrix	e to depth no Color 10YR 5/6	% 5 suced Mate Hydric Sandy N 5cm Mu	Type* C rix, CS= Soil In Mucky N ucky Pe Gleyed	Redox Featu Loc** M Coated Sand grains dicators: wineral (S1) at or Peat Matrix (S4)	res Text Si Si C	Hydrophytic Veryes n absence of indicators ure Rem L C L ion: PL=Pore Lining Redox Dark S	egetation Pre No x ators.) harks , M=Matrix Surface (F6) k Surface (F7) ssions (F8)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (A1) Hydrogen Sull Stratified Laye	Color 10YR 4/1 10YR 4/1 10YR 4/1 ==Concentra on (A2) A3) Fide (A4) ers (A5)	Matrix	e to depth no Color 10YR 5/6	eeded to % 5 ced Mate Hydric Sandy f Sandy (Sandy (Sandy (Sandy f Stripped	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6)	res Text Si Si C	Hydrophytic Veryes n absence of indication: PL=Pore Lining Redox Dark S Depleted Dar Redox Depre Indicators for Pro Coast Prairie	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16)	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A) Hydrogen Sull Stratified Laye 2 cm Muck (A	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) fide (A4) ers (A5) 10)	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6	eeded to % 5 ceed Mate Hydric Sandy N Sandy C Sandy S Strippec Loamy	rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Mucky	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1)	res Text Si Si C	Hydrophytic Veryes n absence of indicators of PL=Pore Lining Redox Dark Street Depleted Dare Redox Depresidations for Processing Coast Prairie Iron-Mangane	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
ı	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) ide (A4) ers (A5) 10) w Dark Suri	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6	eeded to % 5 ceed Mate Hydric Sandy N Sandy C Sandy S Strippec Loamy	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2)	res Text Si Si C	Hydrophytic Veryes n absence of indication: PL=Pore Lining Redox Dark S Depleted Dar Redox Depre Indicators for Pro Coast Prairie	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
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SOIL	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedd Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	Color 10YR 4/1 10YR 4/1 10YR 4/1 E=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surlarface (A12)	Matrix % 100 95 ation, D=Depletic	e to depth no Color 10YR 5/6 on, RM=Redu	seeded to % 5 uced Mati Hydric Sandy F 5cm Mu Sandy F Sandy F Sandy F Sandy F Loamy Loamy	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed	Redox Featu Loc** M -Coated Sand grains dicators: Wineral (S1) at or Peat Matrix (S4) S5) ((S6) Mineral (F1) Matrix (F2)	Text Si Si C ***Locat	Hydrophytic Veryes n absence of indications PL=Pore Lining Redox Dark Some Depleted Dare Redox Depresions for Proceeding Iron-Mangane Very Shallow Other	egetation Pre No x ators.) marks , M=Matrix Surface (F6) k Surface (F7 ssions (F8) bblematic Hydri Redox (A16) ese Masses (I	sent?
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SOIL Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedc Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) 33) fide (A4) ers (A5) 10) w Dark Surl urface (A12) observed): Indicators: Prin r (A1) able (A2) 8) B1) lossits (B2) (B3) rrust (B4) (B5)	Matrix % 100 95 ation, D=Depletic face (A11) Type: Depth (Inches):	cto depth not color colo	eeded to % 5 Iced Mate Hydric Sandy N Sandy N Sandy N Sandy S Stripped Loamy Loamy Loamy Deplete sat apply r Stained tic Fauna Aquatic F gen Sulf zed Rhizo ence of R ent Iron R Muck Sun	Type* C C Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Pe Gleyed d Matrix File I Leaves a (B13) Plants (l'ide Odo osphere educed eduction face (C	Redox Featu Loc** M	res Text Si Si C **Locat	Hydrophytic Veryes n absence of indications of the control of the	egetation Pre No x ators.) harks marks m	c Soils = 12)
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Restri	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Inundation Vis Sparsely Veget	Color 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 10YR 4/1 c=Concentra on (A2) A3) fide (A4) ers (A5) 10) w Dark Surinface (A12) observed): Indicators: Prin r (A1) able (A2) b) rust (B4) (B5) crust (B4) (B5) sible on Aerie etated Conc Surface W Water Tab	Matrix % 100 95 ation, D=Depletion face (A11) Type: Depth (Inches): nary Indicators al Imagery (B7) ave Surface ater Present? le Present?	cto depth not color Color 10YR 5/6 10YR	seeded to % 5 Loced Mate Hydric Sandy F Stripped Loamy Loamy Deplete Loamy Toeplete Loamy Loamy Loamy Loamy Loamy Loamy Negen Sulf Red Rhize Rhiz	Type* C rix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix Mucky Fleated d Matrix Mucky Gleyed	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Redox Feature	**Locat	Hydrophytic Veryes n absence of indicate	egetation Pre No x ators.) harks marks M=Matrix Surface (F6) k Surface (F7 ssions (F8) blematic Hydri Redox (A16) ese Masses (I Dark Surface No ndicators 6 (B6) (B10) Table (C2) (C8) n Aerial Imag d Plants (D1) on (D2) (D5)	c Soils = 12)
Restri HYDR Wetlar	Pro Depth (inches) 0-6 6-18 *Type: C Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sulf Stratified Layer 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if Remarks: OLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Vater Marks Coediment Deposits Algal Mat or Coediment Deposits Inundation Vis Sparsely Vege Observations:	Color 10YR 4/1 con (A2) A3) fide (A4) ers (A5) 10) w Dark Surriface (A12) observed): Indicators: Print r (A1) able (A2) B1) cosits (B2) (B3) crust (B4) (B5) sible on Aerietated Conc Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Depletion face (A11) Type: Depth (Inches): mary Indicators fall Imagery (B7) fave Surface fall Present? Present?	cto depth not color colo	eeded to % 5 Inced Matt Hydric Sandy F Sandy F Sandy F Stripped Loamy No No No No	Type* C C Soil In Mucky Pe Gleyed (A Matrix Mucky Pe Gleyed (B Matrix Mucky Pe Gleyed (B Matrix Mucky Pe Gleyed (C Matrix X X	Redox Featu Loc** M	**Locat	Hydrophytic Veryes n absence of indicate	egetation Pre No x ators.) marks m	c Soils = 12)

Client: Invest	igator(s):	AEP N. Houk, N	l. Barnett	State	: <u>OH</u>	Section	n, Tov	uirfield County vnship, Range: Landform	n Te	Sec :	n 2024 Da S25, T 16N, Local Rel	, R 19W lief(8 Convex
Slope Soil M C	(%): lap Unit Name: limatic/hydrolo Vegetatior Vegetatior	Canal silt I gic condition N	oam, 0 to 2 pe	39.838 rcent sl ne of yo N	opes ear? or Hy	Y/N drology drology	Y	-82.590298 significantly disturbed naturally problematic	_	NAD83	_ NWI Clas	SS:	N/A
	ormal Circumst	tances Prese	ent?	Yes .	X		IN	_naturally problematic -					
Domo	V	Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X X X		Is the Yes	DP within No	a Wetland? x	<i>`</i>	
Rema VEGE	TATION												
1. 2.		Plot size:			olute % over	Spe		Indicator State	ıs	Number of	ninance Te f dominant s	species	sheet 0
3. 4. 5.										-	BL, FACW, ber of domin cross all stra		1
	Stratum	Plot size:	15'		0	Total C	over	-		Percent of that are Ol Prevalence	dominant s BL, FACW, ce Index Wo cover of:	species or FAC:	0.00
3. 4. 5.										OBL speci FACW speci FAC speci	es ecies	0 x 1 0 x 2 0 x 3	0 0 0
	Stratum Triticum aesti	Plot size:	5'		0	Total C		UPL	5	FACU speci UPL speci Tota	cies es	0 x 4 80 x 5	0 400 400
2. 3. 4.		vum residue			00		ı	UPL	5	Hydrophy Rap	Prevale tic Vegetat id Test for F	ence Index ion Indica lydrophyt	x: 5.00 ators: ic Veg.
5. 6. 7.										Prev Mor	ninance Tes valence Inde phological A	ex is $\leq 3.0^{\circ}$ Adaptation	้* าร*
8. <u>Wood</u> 1.	y Vine Stratum				80	Total C	over	<u> </u>		*Indicat	lematic Hydro ors of hydri ogy must be	c soil and	wetland
2.					0	Total C	over	-			isturbed or phytic Vege	•	
SOIL	Remarks:									Yes	No	<u> </u>	
	Pro Depth		otion: (Descri Matrix	oe to d	epth ne	eded to	docu	ment the indicator or Redox Feat		n absence	of indicato	rs.)	
	(inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remar	ks	
	0-18	10YR 4/2	100						Si (S L			
	*Type: 0	C=Concentra	ation, D=Deple	ion, RN	∕l=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Pc	ore Lining, M	/I=Matrix	
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			ox Dark Sui		
	Histic Epipedo Black Histic (A				-			eat or Peat d Matrix (S4)			leted Dark Sox Depress		- 7)
	Hydrogen Sul	fide (A4)				Sandy	Reďox	(S5) ` ´		Indicato	ors for Proble	ematic Hyd	
	Stratified Laye 2 cm Muck (A	ers (A5) .10)				Strippe		ix (S6) / Mineral (F1)			st Prairie Re -Manganese		
	Depleted Belo	ow Dark Surf				Loamy	Gleye	d Matrix (F2)		Very	/ Shallow Da		
Restri	Thick Dark Suictive Layer (if					Deplete	ed Mat	rix (F3) I		Othe	∍r		
			Depth (Inches):				Hydric Soil Pr	esent?	Yes	No) х	
	Remarks:												
	nd Hydrology			, .		, ,	,						
	Surface Wate		nary Indicator	s (cnec		Stained		es (B9)			ondary Ind oil Cracks (E		
	High Water Ta					ic Fauna Aquatic I					Patterns (B1 on Water Ta		
	Water Marks	(B1)			Hydro	gen Sul	fide O	dor (C1)		Crayfish B	urrows (C8)) `´´	
	Sediment Dep Drift Deposits			-				res on Living Roots ed Iron (C4)		Saturation Stunted or	Visible on A Stressed P	Aerial Ima	agery (C9)
	Algal Mat or C	Prust (B4)			Recer	nt Iron R	educti	on in Tilled Soil (C6)		Geomorph	ic Position	(D2)	,
	Iron Deposits Inundation Vis		al Imagery (B7)		/luck Su e or Wel				FAC-Neuti	ral Test (D5)	
	Sparsely Vege	etated Conc	ave Surface	,	Other								
Field	Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hvdro	lov Indicat	ors Presen	t?	
Doco	iha Rogardad F	Saturation	Present?	Yes	all acris	No	Х	Depth (inches) ious inspections), if ava	_	Yes			
اانادتات	ioc ivacoided L	oua (sutall	ı guay e , monill	mig w	, a c 116	יי איוטנטנ	, piev	ious mopeulions), ii ave	anabic.				

		ter-S. Baltimo AEP	re-W. Mil	llersport (City/County:		Fa	airfield County wnship, Range:	Date:		n 2024 Data S25. T 16N. R		6
	igator(s):	L. Vine, E	.Holt	;	State: OH	_ Section	on, Tov	vnsnip, Range: Landform	Te	rrances	Local Relie		onvex
Slope Soil M		1-3 ne: Canal silt	Lat.		9.836914°	Long.		-82.590981°	Datum	NAD83	NWI Class:	:	N/A
C	limatic/hydro	ologic conditio	ons typica	I for time	e of year?	Y/N	Υ						
	Vegetat Vegetat		, Soil _, Soil	N	or H	ydrology ydrology	/ N	significantly disturbed naturally problematic					
Are No	ormal Circun	nstances Pres		Ye			IN	_naturally problematic					
SUMN	MARY OF FI	NDINGS drophytic Veg	etation P	Present?	Voc	No							
	1 iy	Hyd	ric Soil P	resent? `	Yes	_No _No	X	-	Is the	DP within a	a Wetland?		
		Wetland Hyd	drology P	resent?	Yes	No	X	-	Yes	No	Х		
VEGE	TATION												
Tree S	Stratum	Plot size:	30'		Absolute %		ninant	Indicator Statu	IS				
1.				_	Cover	Spe	ecies			Don	ninance Test	Worksh	eet
2.										Number of	dominant spe	ecies	0
3. 4.								_		that are OL Total numb	BL, FACW, or per of domina	rFAC: int	
5.				 						species ac	ross all strata	a:	1
Shruh	Stratum	Plot size:	15'	-	0	Total C	Cover				dominant spe		0.00
1.	Stratum	FIUL SIZE.	10	_						Prevalenc	e Index Worl		
2.										Total %	% cover of:		
3. 4.										OBL specie FACW spe		1 x 1 0 x 2	1
5.										FAC specie	es	0 x 3	0
Harh S	Stratum	Plot size:	5'	-	0	Total C	Cover			FACU specie UPL specie		0 x 4 0 x 5	0
1.	Carex athe		<u>J</u>		Υ	1	100	OBL	1	Tota	al	1	1
2.								- -		Usaronby	Prevalend tic Vegetation		
3. 4.											id Test for Hy		
5.							-	-		Dom	inance Test i	s >50%	
6. 7.								_			ralence Index phological Ada		*
8.											ematic Hydroph		
\^/aadı	· \/ina Strati	Dlot cizo:	20'	-	0	Total C	Cover		<u></u>		ors of hydric s		
<u>vvooav</u> 1.	√ VINE Suau	um_Plot size:	30	_						,	ogy must be p		
2.											isturbed or pro		
	Remarks:				0	Total C	Jovei			Hyarop Yes	ohytic Vegeta No	ation Pre X	Sentr
SOIL		file Deceri	-tion. /	Sessibe	- t- Joseph n	dad 6	- 4201	···· and the indicator or	mfirn				
	Depth	'rotile Descri	ı ptıon: (L Matrix	Jescribe	to aeptn n	eeaea ı	o aocu	ıment the indicator or Redox Featu		1 absence	of indicators	·-)	٦
	(inches)	Color		%	Color	%	Туре	e* Loc**	Text		Remarks	-	
						+				Resid	dential, no soi	l pit takeı	1
			+			<u> </u>	<u> </u>	<u> </u>					1
			_			-	T]
	*Турє	e: C=Concentr	 ration, D=	=Depletic	n, RM=Redi	uced Ma	atrix, CS	S=Coated Sand grains	**Locat	ion: PL=Po	re Lining, M=	Matrix	J
						Hydric	c Soil I	Indicators:			· 5,		
	Histosol (A Histic Epipe							Mineral (S1) Peat or Peat			ox Dark Surfa leted Dark Su		7)
	Black Histic	c (A3)` ´				Sandy	Gleyed	d Matrix (S4)		Redo	ox Depression	ns (F8)	<i>'</i>
	Hydrogen S Stratified La	Sulfide (A4)					Redox				ors for Problem st Prairie Red		
	2 cm Muck							Mineral (F1)			Manganese N		
	Depleted B	elow Dark Su	`	1)		Loamy	/ Gleye	d Matrix (F2)			Shallow Darl	k Surface) (F1́2)
Dostri		Surface (A12 (if observed)				Deplet	ed Mat	rix (F3)		Othe	r		
Kesui	Clive Layer		Depth ((Inches):				Hydric Soil Pro	esent?	Yes	No	Х	
	Remarks:	No soil pit						<u> </u>	_				
	OLOGY nd Hydrolo	gy Indicators	:										
		Pri		licators ((check all th			75-53			ondary Indica		
	Surface Water	ater (A1) r Table (A2)		-		r Staine itic Faun					oil Cracks (B6 Patterns (B10)		
	Saturation	(A3) `´		-	True	Aquatic	Plants	(B14)		Dry-Seaso	n Water Table		
	Water Mark			-				dor (C1)			urrows (C8)		···· (CO)
	Sediment L Drift Depos	Deposits (B2) sits (B3)		-				res on Living Roots ed Iron (C4)	-		Visible on Ae Stressed Pla		ery (C9)
	Algal Mat o	or Crust (B4)		_	Rece	nt Iron F	Reducti	on in Tilled Soil (C6)		Geomorph	ic Position (D		
	Iron Depos		rial Imaa	on/(D7) =		Muck Su				FAC-Neutr	al Test (D5)		
		Visible on Aeregetated Con-			Guag Other	ge or We r	iii Data	(D9)					
Field (ns: Surface V	Vater Pre	esent? `	Yes	No		Depth (inches)					
		Water Tal Saturation			Yes Yes	No No		Depth (inches) Depth (inches)	Hydro	loy Indicato Yes	ors Present? No	X	
		d Data (strear					s, prev	ious inspections), if ava	ailable:	163	110		
	dric indicat												

Site: Client		-S. Baltimor AEP	e-W. Millerspor	City/County:	Section		rfield County	Date:	27 M	arch 202 ec S25.	24 Data Po T 16N, R 19	int:4	
	tigator(s):	L. Vine, E. 1-3	.Holt	9.833067°	Long.		Landfo 82.591983°		errances NAD	Ló	cal Relief WI Class:	Conve N/A	
Soil N	làp Unit Name:	Canal silt I	loam, 0 to 2 per ns typical for tim	cent slopes	Y/N	Y	02.001000	Datum	I IVAD	00 141	W Olass	14/74	
	Vegetation	n N	, Soil	N or Hy	drology	N	significantly disturb						
	Vegetation ormal Circums	tances Pres		N or Hy 'es x	drology No	N	naturally problema	tic					
SUMI	MARY OF FINE Hydro		etation Present?	Yes X	No								
	-	Hydr	ric Soil Present? Irology Present?	Yes	No No	Χ		Is the Yes		nin a We	etland? X		
Rema		Totalia Tiya	rology i roconc.	103 X	140			103		,	<u> </u>		
	Stratum	Plot size:	30'	Absolute %	Domi	nant	Indicator S	tatue					
1.		1 101 3120.		Cover	Spec	cies	maioator C	idido		Domina	nce Test W	orksheet	
2.											ninant specie		1
4.											FACW, or FA of dominant		3
5.				0	Total Co	over			species Percen	s across it of dom	all strata: ninant specie	s	3.33
Shrub 1.	Stratum	Plot size:	15'		=						FACW, or FA	C:	3.33
2.										tal % co	ver of:		20
3. 4.									FACW	species		(2	30 30
5.				0	Total Co	over			FAC sp	pecies species	<u>10</u> 3		30 180
Herb 1.	Stratum Juncus effusi	Plot size:	5'	30	_ Y		OBL	1	UPL sp	ecies Total	100		0 270
2.	Solidago can	adensis		25	Y	/	FACU	4		1	Prevalence I		2.70
3. 4.	Schedonorus Dichantheliur			<u>20</u> 10	Y		FACU FACW	4 2			egetation Ir est for Hydro		
5. 6.	Apocynum ca Cyperus strig			10 5	N		FAC FACW	3 2	[Dominan	nce Test is >	50%	.,
7.	Оурстав вину	0000			- <u> </u>	•	TAOW		N	Morpholo	ogical Adapta	ations*	_
8.				100	Total Co	over					tic Hydrophytic of hydric soil	•	
<u>Wood</u>	ly Vine Stratum	Plot size:								drology r	must be pres	ent, unle	
2.							-			distur	bed or proble		
				0	Total Co	OVA			H _V	dronhyti	ic Venetatio	n Presen	+2
	Remarks:			0	Total Co	over					ic Vegetatio x No	n Presen	ıt?
SOIL	Pro						ment the indicator		`\	res 2	x No	n Preser	it?
			otion: (Describ Matrix %			docu	ment the indicator Redox Fe	eatures	`\	res of in	x No	n Presen	it?
	Depth (inches)	Color 7.5YR 4/2	Matrix %	color	eeded to	Туре	Redox Fe * Loc** M	eatures Tex SiL	n abser	res of in	x No	n Presen	nt?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eeded to	docu	Redox Fe	eatures Tex	n abser	res of in	x No	n Presen	nt?
	Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	% 5	Type C	Redox Fe	eatures Tex SiL SiCL	n abser	res in	x No adicators.) Remarks		nt?
	Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	eeded to % 5	Type C	Redox Fe	eatures Tex SiL SiCL	n abser	res in	x No		nt?
	Depth (inches) 0-15 15-18 *Type: 0	Color 7.5YR 4/2 10YR 4/2	Matrix	Color 10YR 4/6	% 5 iced Matr Hydric Sandy M	Type C rix, CS Soil II	Redox Fe	eatures Tex SiL SiCL	n abser	res of in	x No Indicators.) Remarks Ining, M=Ma ark Surface	rix (F6)	nt?
	Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (.	Color 7.5YR 4/2 10YR 4/2 C=Concentra on (A2) A3)	Matrix	Color 10YR 4/6	seeded to % 5 Icced Matr Hydric Sandy 6 5 som Mu Sandy 0	Type C Crix, CS Soil II Mucky licky Po	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	ePore Li Redox D Depleted Redox D	Remarks ining, M=Ma ark Surface I Dark Surface epressions ((F6) :e (F7) F8)	
	Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5)	Matrix	Color 10YR 4/6	eeded to % 5 ced Matr Hydric Sandy N Sandy C Sandy C Sandy C Sandy C	Type C rix, CS Soil II Mucky P Gleyed Redox d Matri	Redox Fe	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic rairie Redox	(F6) :e (F7) F8) : Hydric Sc (A16)	bils
	Pro Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A	Color 7.5YR 4/2 10YR 4/2 C=Concentra on (A2) A3) lfide (A4) ers (A5)	Matrix % 100 95 ation, D=Depleti	Color 10YR 4/6	seeded to % 5 ceed Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippee Loamy I	Type C C Soil II Mucky Icky P Geleyed Redox Mucky Mucky Mucky	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
SOIL	Production Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark So	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 c=Concentra on (A2) A3) ers (A5) 110) ow Dark Surfurface (A12)	Matrix % 100 95 attion, D=Depleti	Color 10YR 4/6	seeded to % 5 ceed Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippee Loamy I	Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	eatures Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic rairie Redox	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
Restr	Production Depth (inches) 0-15 15-18 15-18 *Type: 0 Place of the production of the p	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 c=Concentra on (A2) A3) ers (A5) 110) ow Dark Surfurface (A12)	Matrix % 100 95 attion, D=Depleti	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy M Sandy F Sandy F Sarbec Loamy (Loamy (Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha	Remarks ining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas	(F6) be (F7) F8) E Hydric So (A16) ses (F12)	oils
Restr	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark Si ictive Layer (if	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed):	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 on, RM=Redu	ced Mate Hydric Sandy M Sandy F Sandy F Sarbec Loamy (Loamy (Type C C Soil II Mucky Icky P Geleyed Redox H Matri Mucky Gleyed	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Cators fo Coron-Man Very Sha Other	mining, M=Ma ark Surface I Dark Surface epressions (or Problematic airie Redox ganese Mas allow Dark S	rrix (F6) Se (F7) F8) Hydric So (A16) ses (F12) urface (F4)	oils
Restr	Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (, Hydrogen Su Stratified Lay 2 cm Muck (/ Depleted Beld Thick Dark St ictive Layer (it	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 ion, RM=Redu	seeded to % 5 ceed Matri Hydric Sandy N 5cm Mu Sandy C Sandy F Sandy C Sandy F Loamy (Deplete	Type C C rix, CS Soil II Mucky Icky Poleyed Redox d Matri Mucky Gleyed d Matri	Redox Fe Loc** M	Tex SiL SiCL	n abser	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Other	ndicators.) Remarks Ining, M=Marark Surface I Dark Surface Problematicative Redox Iganese Masallow Dark S	rix (F6) se (F7) F8) se Hydric So (A16) ses (F12) urface (F7)	oils
Restr	Production Depth (inches) 0-15 15-18 15-18 *Type: 0 Place of the production of the p	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) bw Dark Surfurface (A12) f observed): Indicators: Prine er (A1)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 on, RM=Redu	seeded to % 5 Inceed Mate Hydric Sandy N 5 cm Mu Sandy C Sandy F Strippec Loamy 0 Deplete at apply T Stained	Type C C rix, CS Soil II Mucky Gleyed Hucky Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Leave	Redox Fe Redox Fe Loc** M M Cocated Sand graindicators: Mineral (S1) Eat or Peat Matrix (S4) (S5) X (S6) Mineral (F1) Mineral (F2) Mix (F3) Hydric Soil Mes (B9)	Tex SiL SiCL	m abser ture tion: PL: findi	=Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man Very Sha Dther Yes Seconda e Soil Cr	ndicators.) Remarks Ining, M=Ma ark Surface I Dark Surface epressions (or Problematic rairie Redox ganese Mas allow Dark S No Ary Indicato racks (B6)	rix (F6) se (F7) F8) se Hydric So (A16) ses (F12) urface (F7)	oils
Restr	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belothick Dark Si ictive Layer (if Remarks: COLOGY Ind Hydrology Surface Wate High Water T Saturation (A	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color 10YR 4/6 on, RM=Redu color co	seeded to % 5 Icced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy I Loamy I Loamy I Loamy I Loamy I T Strippee Loamy I L	Type C rix, CS Soil II Mucky Icky Pr Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants	Redox Fe Loc** M	Tex SiL SiCL	n abser ture tion: PL findi indi indi indi indi indi indi ind	Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man Very Sha Dther Yes Seconda e Soil Cr ge Patte ason W	ndicators.) Remarks Ining, M=Ma ark Surface I Dark	rrix (F6) Se (F7) F8) Se Hydric So (A16) Ses (F12) urface (F7)	oils
Restr	Production Depth (inches) 0-15 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su 2 cm Muck (A Depleted Bele Thick Dark Si ictive Layer (if Remarks: COLOGY and Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment De	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color 10YR 4/6 ion, RM=Redu General the Water Aquat Aquat Hydro Oxidiz	seeded to % 5 ceed Matri Hydric Sandy N Sandy F San	Type C rix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants ide Ocopher	Redox Fe Loc** M	Tex SiL SiCL	m abser ture tion: PL findi fi	Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man /ery Sha Other /es Seconda e Soil Cr ge Patte ason W h Burrov	ndicators.) Remarks Ining, M=Ma ark Surface I Dark	(F6) Se (F7) F8) Se (Hydric Sc (A16) Ses (F12) urface (F7) X	pils) 12)
Restr	Depth (inches) 0-15 15-18 *Type: (inches) 15-18 *Type: (inches) *Type: (inches) Histosol (A1) Histic Epiped Black Histic (inches) Stratified Lay 2 cm Muck (Anches) Depleted Belevatified Layer (inches) Thick Dark Stratified Layer (inches) Stratified	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color 10YR 4/6 10YR 4/6 10On, RM=Redu Water Aquat True Hydro Oxidiz Prese	seeded to % 5 Icced Matr Hydric Sandy N 5cm Mu Sandy F Strippec Loamy I Loamy I Loamy I Toplete Total a tapply Total a tap	Type C rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed d Matri Leave (B13) Plants ide Octopher educe	Redox Fe Loc** M	Present?	ture tion: PL-	=Pore Li =Pore Li Redox D Depleted Redox D Cators for	mining, M=Marks mining, M=Marks mining, M=Marks mining, M=Marks mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr	Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (. Hydrogen Su Stratified Lay 2 cm Muck M Depleted Bela Thick Dark Si ictive Layer (if Remarks: ROLOGY und Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 C=Concentra con (A2) A3) Iffide (A4) ers (A5) A10) bow Dark Surfurface (A12) f observed): Indicators: Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5)	Matrix % 100 95 ation, D=Depleti Type: Depth (Inches) mary Indicators	color Color 10YR 4/6 10YR 4/6 Con, RM=Redu Water Aquat True / Hydro Oxidiz Prese Recer Thin M	seeded to % 5 Iced Mate Hydric Sandy N 5 cm Mu Sandy C Sandy F Strippec Loamy I Loamy I Loamy I Coult Country Loamy I Loa	Type C C Soil II Mucky Cleyed Redox d Matri Mucky Gleyed Gleyed d Matri Plants ide Ocospher educe eductic face (f	Redox Fe Loc** M	Present?	ture tion: PL: tion: PL: findi Comparison of the comparison of t	=Pore Li =Pore Li Redox D Depleted Redox D Cators for	mining, M=Ma mining, M=Ma mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr HYDF Wetla	Production Depth (inches) 0-15 15-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic C. Hydrogen Su- Stratified Lay 2 cm Muck (A- Depleted Belantick Dark Si ictive Layer (if Remarks: ROLOGY Ind Hydrology Surface Wate High Water T Saturation (A Water Marks Sediment Deporits Algal Mat or Liron Deposits Inundation Vi Sparsely Veg	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Findicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Concentration	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches) nary Indicators	color Color 10YR 4/6 ion, RM=Redu ion, RM=	ceded to % 5	Type C Tix, CS Soil II Mucky Icky Pr Gleyed Redox d Matri Leave d (B13) Plants ide Ocospher educe eduction face (I) Data	Redox Fe Loc** M	Present?	ture tion: PL: tion: PL: findi Comparison of the comparison of t	=Pore Li =Pore Li Redox D Depleted Redox D Cators fo Coast Pr ron-Man Very Sha Other Yes Seconda e Soil Cr ge Patte ason W th Burrov tion Visit d or Stre bryphic Po	mining, M=Ma mining, M=Ma mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr HYDF Wetla	Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bele Thick Dark Si ictive Layer (if Remarks: ROLOGY Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Inundation Vi	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) by Dark Surfurface (A12) f observed): Findicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conce: Surface W	Matrix % 100 95 ation, D=Depleti face (A11) : Type: Depth (Inches) nary Indicators	Color Color 10YR 4/6 In the second	ceded to % 5 ced Matr Hydric Sandy N 5 m Mu 5 m Mu 5 m Mu 5 candy N 6 candy N 6 candy N 7 candy N 7 candy N 8 ca	Type C C Soil II Mucky Cleyed Redox d Matri Mucky Gleyed Gleyed d Matri Plants ide Ocospher educe eductic face (f	Redox Fe Loc** M	Present?	m abser ture tion: PL findi Current Surface Drainae Dry-Se Crayfis Saturae Stuntee Geomo FAC-N	Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Dther Seconda e Soil Cr ge Soil Cr ge Streen do or Streen son W h Burrov tion Visil d or Streen reduction Visil	mining, M=Marks Ining, M=Mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)
Restr HYDF Wetla	Production Depth (inches) 0-15 15-18	Color 7.5YR 4/2 10YR 4/2 10YR 4/2 10YR 4/2 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Printer (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conce : Surface W Water Tab Saturation	Matrix % 100 95 ation, D=Depleti face (A11) :Type: Depth (Inches) mary Indicators face Vater Present? Depent? Present?	color Color 10YR 4/6 10YR 4/6 On, RM=Redu Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes X Yes X	seeded to % 5 Inceed Mate Hydric Sandy No Sandy F Stripped Loamy No Deplete Stained dic Fauna Aquatic Fagen Sulfiged Rhizon Sund No No No No	Type C C Trix, CS Soil II Mucky Gleyed d Matri Mucky Gleyed d Matri Mucky Gleyed d Matri C Leave (B13) Plants ide Oc pospher educe eduction face (II Data	Redox Fe Loc** M	Present? Present? Hydro	m abser ture tion: PL findi Surface Drainae Dry-Se Crayfis Saturae Stuntee Geomo FAC-N	=Pore Li Redox D Depleted Redox D Coast Pr ron-Man /ery Sha Dther Yes Seconda e Soil Cr ge Patte gason Wa th Burrov tion Visil d or Stree prphic Po eutral Te cators F	mining, M=Ma mining, M=Ma mark Surface mark	rix (F6) be (F7) F8) c Hydric So (A16) ses (F12) urface (F7) X rs	pils) 12)

Site: Client	W. Lancaster	-S. Baltimor AEP			Section		irfield County nship, Range:	Date:	27 Mar Sed	c S25. T	16N, R	19\//	4A
Inves	tigator(s):	L. Vine, E.	.Holt	· <u></u>		11, 1011	Landform		rrances	Loc	al Relief	Co	nvex
Slope Soil M		1-3 Canal silt I	Lat. 39 loam, 0 to 2 perc	9.832183° cent slopes	Long.		-82.592208°	Datum	NAD83	NVV	'I Class:		N/A
00	Climatic/hydrolo	gic condition	ns typical for time	e of year?	Y/N	Y	The second of th						
	Vegetation Vegetation	n N N			drology drology		significantly disturbed naturally problematic						
	lormal Circums	tances Pres	_,	es x									
SUMI	MARY OF FIND Hydro	phytic Vege	etation Present?	Yes	No	Х		1					
	•	Hydr	ric Soil Present?	Yes	No	Χ	• •		DP within				
	V	Vetland Hyd	drology Present?	Yes	No	X		Yes	No	<u> X</u>			
VEGE	TATION			* 1.1-0/	·				•				
Tree	Stratum_	Plot size:	30'	Absolute % Cover	Domii Spec		Indicator Statu	s					
1.											ce Test \		eet
2. 3.					·						nant spe		0
3. 4.									that are (Total nur	OBL, F <i>F</i> mber of	ACW, or i dominan	FAC: t	
5.					÷ :-10:				species a	across a	all strata:		1
Shrub	Stratum	Plot size:	15'	0	Total Co	over					nant spec		0.00
1.							-		Prevaler	nce Índe	ex Works		
2. 3.									Tota OBL spe	l % cove cies		x 1	1
4.									FACW s	pecies	0	x 2	0
5.	-			0	Total Co	over.			FAC spe FACU sp		0	x 3 x 4	0
Herb	Stratum_	Plot size:	5'		-				UPL spe	cies		x 4 x 5	500
1.	Zea mays res	idue		100	Y	/	UPL	5		otal	101 revalence		501 4.96
2. 3.							- <u> </u>		Hydroph	ytic Ve	getation	Indicat	ors:
4.									Ra	apid Tes	t for Hyd	rophytic	
5. 6.											e Test is e Index is		
7.									Mo	orpholog	gical Ada	ptations	
8.	-			100	Total Co	over					Hydrophy hydric so	•	
	dy Vine Stratum	_ Plot size:	30'		10.0.	J V C.					ust be pr		
1. 2.									,	0,	ed or pro		
۷.													
				0	Total Co	over					: Vegetat		sent?
	Remarks:	I		0	Total Co	over			Hydr Ye		Vegetat No	tion Pre X	sent?
SOIL	Pro			-			ment the indicator or		Ye	s	No	Х	sent?
	Pro Depth	İ	Matrix	e to depth ne	eded to	docu	Redox Featu	res	Ye	e of inc	No licators.)	Х	sent?
	Pro		Matrix %	-		docu			Yen absenc	e of inc	No	Х	esent?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eded to	docu	Redox Featu	res Text	Yen absenc	e of inc	No licators.)	Х	esent?
	Pro Depth (inches)	Color	Matrix %	e to depth ne	eded to	docu	Redox Featu	res Text	Yen absenc	e of inc	No licators.)	Х	sent?
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	e to depth ne	eeded to	Туре	Redox Featu * Loc**	res Text Si	yen absence	e of ind	No licators.) Remarks	X)	sent?
	Depth (inches) 0-18	Color 10YR 4/2	Matrix % 100	e to depth ne	% ced Matr	Type	Redox Featu	res Text Si	Yen absenc	e of ind	No licators.) Remarks	X)	sent?
	Depth (inches) 0-18 *Type: (Color 10YR 4/2	Matrix % 100	e to depth ne	eeded to % ced Matr Hydric Sandy M	Type Trix, CS Soil II	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1)	res Text Si	n absence	e of inc	No licators.) Remarks ing, M=M	X Matrix e (F6)	
	Depth (inches) 0-18	Color 10YR 4/2 C=Concentra	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy O	Type Tix, CS Soil II Mucky Jicky Po	Redox Feature Re	res Text Si	ure L ion: PL=F	e of income Report Line Port Line Po	No licators.) Remarks ing, M=M	X Matrix e (F6) face (F7	
	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4)	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F	Type rix, CS Soil II Mucky Po Gleyed Redox	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1) eat or Peat I Matrix (S4) (S5)	res Text Si	ion: PL=F	e of income Report Line edox Da epleted I edox De etox for	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions	Alatrix e (F6) face (F7 s (F8) titic Hydri)
	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Layo	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix % 100	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy C Sandy C Sandy C	Type rix, CS Soil II Mucky Po Gleyed Redox d Matri	Redox Featu * Loc** =-Coated Sand grains indicators: Mineral (S1) eat or Peat I Matrix (S4) (S5) x (S6)	res Text Si	ion: PL=F	e of income R Pore Line edox Da epleted I edox De tors for past Pra	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions Problema irie Redo	X latrix e (F6) face (F7 s (F8) titc Hydri x (A16)	r)
	*Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur	Matrix % 100 ation, D=Depletion	e to depth ne	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si	ion: PL=F	Pore Linedox Da epleted I edox De tedox Bernardors for the tedox Bernardors for the tedox Bernardors for the tedox Bernardors France and the tedox Bernardors France and the tedox Bernardors for the tedox Bernardors fo	No licators.) Remarks ing, M=M rk Surfact Dark Surfact Dark Surfact Pressions	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
SOIL	*Type: 0 Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletic	e to depth ne	ced Matr Hydric Sandy N Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si	ion: PL=F	e of ind R Pore Lin edox Da epleted I edox De ators for bast Pra an-Mang	No licators.) Remarks ling, M=M rk Surfactor S	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
SOIL	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletic	color Color Color Color RM=Redu	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si **Locat	ion: PL=F	e of inc	No licators.) Remarks ling, M=M rk Surfactor S	// Attrix e (F6) face (F7 s (F8) ix (A16) asses (F	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sc ictive Layer (if	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Depletion face (A11) : Type:	color Color Color Color RM=Redu	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N	Type Type rix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed	Redox Feature Re	res Text Si **Locat	ion: PL=F	e of inc	ing, M=M rk Surfac Dark Surfac Pressions Problema irie Redo lanese M low Dark	Matrix e (F6) face (F7 s (F8) titic Hydri vx (A16) asses (F Surface	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) a10) ow Dark Sur urface (A12) observed):	Matrix % 100 ation, D=Depletion fface (A11) The control of the	color Color Color Color Color	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N Depleted	Type Type rix, CS Soil II Mucky Gleyed A Matri Mucky Gleyed Mucky Gleyed Mucky Mucky Mucky Mucky Mucky Mucky	Redox Feature Re	res Text Si **Locat	ion: PL=F Re De Re Indica Iro Ve Ot	Pore Line edox Da epleted I edox De ators for another Shall her	ing, M=M rk Surfac Dark Surfac Dark Surfac Problema irie Redo janese M low Dark	Matrix Pe (F6) face (F7s (F8) tic Hydri x (A16) asses (f Surface	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark Suictive Layer (if Remarks: ROLOGY and Hydrology	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) a10) ow Dark Sur urface (A12) observed): Indicators: Prin	Matrix % 100 ation, D=Depletion face (A11) : Type: Depth (Inches):	color Color Color RM=Redu	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy (Depleted	Type Tix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	res Text Si **Locat	ion: PL=F Re De Re Indica Co Uro Ve Ott	e of ind R Pore Lin edox Da epleted I edox De ators for oast Pra on-Mang ery Shall her es	ing, M=M rk Surfac Dark Surfac Dark Surfac Problema irie Redo low Dark No	Matrix Pe (F6) face (F7s (F8) tic Hydri x (A16) asses (f Surface	r) ic Soils =12)
Restr	*Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark So ictive Layer (if Remarks:	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) a10) ow Dark Sur urface (A12) observed) Indicators: Printer (A1)	Matrix % 100 ation, D=Depletion fface (A11) The control of the	color Co	ced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy N Depleted	Type Type Tix, CS Soil II Mucky Icky Pe Gleyed Redox d Matri Mucky Gleyed d Matri	Redox Feature Re	res Text Si **Locat	ion: PL=F Re De Re Indica Iro Ve Ot	e of ind R Pore Lin edox Da epleted I edox De stors for oast Pra on-Mang ery Shall her es	ing, M=No Remarks ing, M=No rk Surfac Dark Surfac	Matrix Pe (F6) face (F7s (F8) tic Hydri x (A16) asses (f Surface	r) ic Soils =12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Belo Thick Dark Scrictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Tasaturation (A)	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3)	Matrix % 100 ation, D=Depletion fface (A11) The control of the	cto depth ne	ced Matr Hydric Sandy N Sandy C Sandy	Type rix, CS Soil III Mucky Po Gleyed Redox Mucky Gleyed Matri Mucky Mu	Redox Feature Re	res Text Si **Locat	re la	Pore Line edox Da expleted I extension was Pray Shall her excondar Soil Cras e Patters on Was	No licators.) Remarks ling, M=M rk Surface Dark Surface	Matrix se (F6) face (F7 s (F8) stic Hydri x (A16) asses (F Surface	r) ic Soils =12)
Restr	*Type: (Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (Andrews) 1-10 Histore Epipedo Black Histic (Andrews) 1-10 Histore Epipedo Black Histore Layer (Iffer Remarks: ROLOGY 1-10 High Water Tander Water Marks)	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1)	Matrix % 100 ation, D=Depletion fface (A11) The control of the	check all the Water Aquati True A Hydro	ced Matr Hydric Sandy N Sandy N Sandy C Sandy N Strippec Loamy N Loamy O Depleter at apply Stained ic Fauna Aquatic F gen Sulfi	Type Tix, CS Soil II Mucky Icky Po Gleyed Mucky Id Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed I Matri J Leave I (B13) Plants Ide Oo	Redox Feature Re	res Text Si **Locat	ion: PL=F ReDe ReIndica Indica Iro Ve Ot Ye Surface S Drainage Dry-Seas Crayfish	Pore Lin edox Da epleted I edox De ators for bast Pra an-Mang ery Shall her es econdar Soil Cra e Pattern Son War Burrows	ing, M=M rk Surfac Dark Surfac No Ler Table Surface Surface Dark Surface	Matrix e (F6) face (F7) s (F8) titic Hydrii x (A16) asses (F Surface X	(F12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Bele Thick Dark Suictive Layer (if Remarks: ROLOGY Surface Wate High Water To Saturation (A) Water Marks Sediment Dep Drift Deposits	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletion fface (A11) The control of the	check all the Water Aquati True A	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripper Loamy C Depleted at apply Stained ic Fauna Aquatic P gen Sulfit ged Rhizc nce of Ro	Type rix, CS Soil II Mucky Icky Po Gleyed Redox d Matr Mucky Gleyed d Matr Leave (B13) Plants ide Ocospher educe	Redox Feature	res Text Si **Locat	re landica Cool Iro Ve Ott Ye Se Surface Surf	e of ind R Pore Lin edox Da epleted I edox De ators for oast Pra an-Mang ery Shall her es econdar Soil Cra e Patterr son War Burrow on Visibl or Stres	ing, M=M rk Surface Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	Pro Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (A) Hydrogen Sul Stratified Laye 2 cm Muck (A) Depleted Bela Thick Dark Surictive Layer (iff Remarks: ROLOGY and Hydrology Surface Wate High Water To Saturation (A) Water Marks Sediment Deposits Algal Mat or 0	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletion fface (A11) The control of the	check all the Water Aquati True A Hydroo Oxidiz Prese Recer	ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripped Loamy (Depleted Team (Depleted Team (Depleted Team (Depleted	Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed I (B13) Plants Ide Ocopher Ide Oc	Redox Feature Re	res Text Si **Locat	re lure lure lure lure lure lure lure lu	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: 0	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ob Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aeri	Matrix % 100 ation, D=Depletion face (A11) : Type: Depth (Inches): mary Indicators	color Color Color Color Color Check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin N Guage	ced Matr Hydric Sandy N Sandy C Sandy N Sandy C Sandy N Sandy C Sandy N Stripped Loamy N Loamy C Depleted To Fauna Aquatic P gen Sulfited Rhizc nce of Rint I ron Re Muck Sur e or Well	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re landica Cool Iro Ve Ott Ye Se Surface Surf	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: (Depth (inches) 0-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark Surictive Layer (iff Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ov Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Concentration	Matrix % 100 ation, D=Depletic face (A11) : Type: Depth (Inches): mary Indicators	check all the Water Aquati True A Hydro Oxidiz Preser Recer Thin M Guage Other	ced Matr Hydric Sandy M Sandy G Sandy M Sandy G Strippe Loamy M Loamy G Depleter at apply Stained ic Fauna Aquatic P gen Sulfited Rhizo nce of Re Muck Sur e or Well	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re lure lure lure lure lure lure lure lu	e of inc R Pore Lin edox Da epleted I edox De entors for on-Mang ery Shall her es econdar Soil Cra e Patterr son Wat Burrows on Visibl or Stress on Visibl or Stress	ing, M=M rk Surfact Dark Surfac	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)
Restr	*Type: 0	Color 10YR 4/2 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ov Dark Sur urface (A12) observed) Indicators: Prin er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 ation, D=Depletic face (A11) : Type: Depth (Inches): mary Indicators	color Color Color Color Color Check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin N Guage	ced Matr Hydric Sandy N Sandy C Sandy N Sandy C Sandy N Sandy C Sandy N Stripped Loamy N Loamy C Depleted To Fauna Aquatic P gen Sulfited Rhizc nce of Rint I ron Re Muck Sur e or Well	Type Type Type Tix, CS Soil II Mucky Icky Po Gleyed Redox Id Matri Mucky Gleyed Id Matri Leave Id (B13) Plants Ide October Ide Oc	Redox Feature	res Text Si **Locat	re lion: PL=F Re De Re Indica Co Ot Ot Ye Surface Surface Surface Surface Stunted Geomorp FAC-Neu	Pore Lin Pore Lin Redox Da Epleted I Edox De ing, M=M rk Surface Dark Surface Dark Surface Problema irie Redo anese M low Dark No ry Indicar cks (B6) se (B10) se (B10) se (C8) le on Aeri sed Plan sition (D2 st (D5)	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)	
Restr	*Type: 0 Depth (inches) 0-18 *Type: 0 Histosol (A1) Histic Epipede Black Histic (Anderty Community Comm	Color 10YR 4/2 C=Concentra C=	Matrix % 100 ation, D=Depletic face (A11) Type: Depth (Inches): mary Indicators fal Imagery (B7) ave Surface Vater Present? Present?	check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ceded to % ced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy (Deplete at apply Stained ic Fauna Aquatic P gen Sulfited Rhizc nce of Re It Iron Re Muck Sur e or Well No No	Type rix, CS Soil II Mucky Icky Po Gleyed Redox d Matri Mucky Gleyed I (B13) Plants I ide Octopher educe eduction face (II Data	Redox Feature	**Locat	re lure lure lure lure lure lure lure lu	e of ind R Pore Lin R Pore Lin R R Pore Lin R R R R R R R R R R R R R R R R R R	ing, M=M rk Surface Dark Surface Dark Surface Problema irie Redo anese M low Dark No ry Indicar cks (B6) se (B10) se (B10) se (C8) le on Aeri sed Plan sition (D2 st (D5)	Matrix ee (F6) face (F7s (F8) titic Hydri x (A16) Surface X tors (C2) ial Imagets (D1)	(F12)

		ster-S. Baltimo AEP	re-W. N		t City/0	County:			Fai	irfield Co		Date:			4 Data P T 16N. R 1		3
	igator(s):	L. Vine, E	:.Holt		_				I OW	nship, Ra	Landform	Floo	od Plains	Loc	cal Relief	C	onvex
Slope Soil M		me: Aetna silt	Lat.		39.8309		Lon	g.		-82.59)2558°	Datum	NAD83	NV	VI Class:		N/A
C	limatic/hydi	rologic condition	ons typic	cal for tim	ne of ye	ear?	Y/N		Υ								
	Vegeta Vegeta		, Soil _, Soil		N N		ydrolog ydrolog				ntly disturbed problematic						
Are No	ormal Circu	ımstances Pres			'es	X				11000,	p. 00.0						
SUMIN	MARY OF F	ydrophytic Veg	etation	Present?	Yes	Х	No					I					
	-	Hyd	ric Soil	Present?	Yes		No	_	Х	:			DP within				
		Wetland Hy	rology	Present	Yes	Х	No					Yes	No	<u> </u>			
VEGE	TATION				Abe	olute %	Dr	omina	ant					-			
Tree S	Stratum	Plot size:	30'			over		omina pecie		I	Indicator Statu	IS					
1.				_											nce Test V		eet
2. 3.							=						that are (OBL, F	inant spec ACW, or F	AC:	5
4.													Total nur	nber of	f dominant	,	7
5.						0	Total	Cov	er						all strata: inant spec	es	71 /2
	Stratum	Plot size:	15'				= * -						that are 0	OBL, F	ACW, or F	AC:	71.43
1. 2.													Tota	l % cov	lex Works ⁄er of:	neet	
3.													OBL spe	cies	1	x 1	1 170
4. 5.													FACW spe	cies		x 2 x 3	170 0
		Dist size:	E1	_		0	Total	Cov	er				FACU sp	ecies	15	x 4	60
Herb S		Plot size: a alternifolia	_ 5			25		Υ			FACW		UPL spe	cies otal	101	x 5	0 231
2.		canadensis		<u> </u>		20		Y			FACW	2			Prevalence		2.29
3. 4.	Urtica dioi Thalictrum	ıca n dasycarpum				20 10		N			FACW FACW	2			egetation st for Hydr		
5.	Conium m	naculatum		_		10		N			FACW	2	Do	minan	ce Test is:	>50%	,
6. 7.	Allium can	orus arundinace nadense) US	_		10 5		N N			FACU FACU	4			ce Index is gical Adap		,*
8.				<u> </u>			T-4-1	2			17.00		Pro	blemati	c Hydrophyt	ic Vege	tation*
Wood	v Vine Stra	tum Plot size:	30'			100	_ I otai	Cov	er						f hydric so		
1.				_						-			,	0,	nust be pre ed or prob		
2.						0	Total	Cov	er_						c Vegetati		
SOIL	Remarks:												Ye	s X	No		
SUIL		Profile Descri			e to d	epth no	eeded	to d	ocur	ment the			absenc	e of in	dicators.)		
	Depth (inches		Matrix	%		Color	%		- Fyne'	* Loc**	Redox Featu	ires Text	hire		Remarks		-
	0-18	10YR 3/2	2	100		0.01		#	75~			Si		-	1011100		_
			+		+		+	-									-
			1		1			#			-						<u> </u>
	*Typ	e: C=Concent	 ration, Γ)=Depleti	on. RI	M=Redu	ıced N	/latrix	. CS	=Coated	Sand grains	**Locat	ion: PL=F	Pore Lir	ning, M=M	atrix	_
	- 1		<u></u>		<u>,</u>		Hydi	ric S	oil Ir	ndicators	s:				<u>U</u>		
	Histosol (A Histic Epig	A1) pedon (A2)								Mineral (eat or Pe					ark Surface Dark Surfa		7)
	Black Hist	tic (A3) ´					Sand	dy Gle	eyed	Matrix (S			Re	dox De	epressions	(F8)	,
		Sulfide (A4) Layers (A5)					Sand Strip			(S5) x (S6)					Problematairie Redox		
	2 cm Mucl	k (A10)` ´	11				Loan	ny Μι	ucky	Mineral			Iro	n-Man	ganese Ma	isses (F12)
	_	Below Dark Su k Surface (A12	,	(11)						d Matrix (ix (F3)	F2)			ry Sha her	llow Dark S	Surface) (F12)
Restri		r (if observed): Type:					J.C.	1710			10				.,	
	Remarks:		Deptn	n (Inches)	<u>: </u>					Н	lydric Soil Pre	esent?	Ye	S	No	Х	
HYDR	OLOGY	!:aataw															
Wetia	na Hyaroic	ogy Indicators Pri		ndicators	(cher	ck all th	at ap	ply)				l	Se	conda	ry Indicat	ors	
	Surface W	/ater (A1)				Water	r Stain	ned L		es (B9)			Surface :	Soil Cra	acks (B6)	-	
	Saturation					True A		ic Plà	ants ((B14)				son Wa	ater Table	(C2)	
	Water Mai	rks (B1)				Hydro	ogėn S	Sulfide	e Od	lor (Ć1)	to = Dooto		Crayfish	Burrow	/s (C8)	` ,	· · · · · (CO)
	Sediment Drift Depo	Deposits (B2) sits (B3)								es on Liv d Iron (C	ving Roots (4)				le on Aeria ssed Plant		ery (C9)
	Algal Mat	or Crust (B4)				Recer	nt Iron	Red	luctio	on in Tille	ed Soil (C6)	Х	Geomorp	ohic Po	sition (D2)		
	Iron Depos Inundation	sits (B5) n Visible on Ae	rial Ima	gery (B7)			Muck S e or W					Х	FAC-Neu	utrai ie	ist (D5)		
- :	Sparsely \	Vegetated Con	cave Su	urface		Other	•			` ′	('\)						
Field	Observatio	ns: Surface V Water Ta			Yes Yes		No No		X X		(inches) (inches)	Hvdro	loy Indica	ators P	resent?		
Dagori	" - Depord	Saturation	n Presei	nt?	Yes	-II cori	No	'-o r	Х	Depth .	(inches)	_			No		
Descri		ed Data (strear	n guage	3, monito	ring w	eii, aeria	ai pnoi	ios, p	orevio	ous inspe	ections), it ava	illable:					

Client:	W. Lancast	er-S. Baitimore AEP			Section	n Tow	irfield County nship, Range:	_Date:			16N, R 19	nt: W	2
Investi	igator(s):	L. Vine, E.H	lolt			11, 10	Landform		rrances	Loca	l Relief	Conve	
Slope Soil M		e: Canal silt lo		9.829667° cent slopes	_Long.		-82.592922°	Datum	NAD83	_ NWI	Class:	N/A	
C	limatic/hydro	logic conditions	s typical for time	e of year?	Y/N	Y							
	Vegetati Vegetati			N or Hy N or Hy	drology drology	N N	significantly disturbed naturally problematic						
	ormal Circum	nstances Presei		es x			Haturany problemate						
SUMN	MARY OF FIN	NDINGS drophytic Vegeta	ation Present?	Voc	No			1					
	riye	Hydric	Soil Present?	Yes	_No	X X	-	Is the	DP within	a Wetla	and?		
			ology Present?		No	X	•	Yes	No	Χ			
VEGE	TATION												
	Stratum	Plot size: 3	30,	Absolute %	Domi		Indicator Statu	Q					
	Juanu	1 IUI 3120		Cover	Spec	cies	maioator otata	`	Dor	-inanc	e Test Wo	-kahaat	
1. 2.											ant specie		
3.									that are Ol	BL, FA	CW, or FA		1
4. 5.									Total numl				6
ວ.				0	Total Co	over			species ac Percent of		ıı strata: ant species	s —	0.07
	Stratum	Plot size: _	15'	-	_ 10.0	0.0.			that are Ol	BL, FA	CW, or FA	C:	6.67
1. 2.							-			e Inde % cove	x Workshe	eet	
2. 3.									OBL speci		1 x	1 —	1
4.					-				FACW spe	ecies	10 x	2	20
5.				0	Total Co				FAC speci FACU spe		0 x		0 40
Herb S	Stratum	Plot size:	5'		_ I Olai Ol	ovei			UPL speci		10_ x		275
1.	Zea mays	_		30	Y		UPL	5	Tota	al	76		336
2.	Brassica raj			15 10	Y	<u> </u>	UPL UPL	5	· I. dronby		evalence Ir getation In		4.42
3. 4.	Packera gla			10	<u>'</u>	<u>'</u>	FACW	5 2			for Hydrop		
5.	Allium cana	dense		5	N	•	FACU	4	Don	ninance	e Test is >5	50%	· .
6. 7.	Stellaria me	edia		5	N	1	FACU	4			lndex is < cal Adapta		
7. 8.											cai Adapta Hydrophytic		n*
				75	Total Co	over					hydric soil a	•	
Woods 1.	y Vine Stratu	ım Plot size: 🤇	30'						hydrol	ogy mu	ist be prese	ent, unle	
2.					- <u> </u>		·				d or proble		
	D 2 m 2 m/c 0 :			0	Total Co	over					Vegetatio		nt?
SOIL	Remarks:								Yes		No	Χ	
	Ь												
				e to depth ne	eded to	docu	ment the indicator or				cators.)		
	Depth	M	1atrix 1	-			Redox Featu	ires	absence	of indi	,		
				e to depth ne	eeded to				absence ure	of indi	emarks		
	Depth (inches)	Color	fatrix %	-			Redox Featu	ires Text	absence ure	of indi	,		
	Depth (inches)	Color	fatrix %	-			Redox Featu	ires Text	absence ure	of indi	,		
	Depth (inches) 0-18	Color 10YR 4/3	Matrix % 100	Color	%	Туре	Redox Featu	res Text Si	ure L	of indi	emarks		
	Depth (inches) 0-18	Color 10YR 4/3	Matrix % 100	Color	% ced Mati	Type	Redox Featu * Loc** =Coated Sand grains	res Text Si	ure L	of indi	,	rix	
	Depth (inches) 0-18	Color 10YR 4/3 : C=Concentrat	Matrix % 100	Color	% ced Mati	Type	Redox Featu * Loc** =-Coated Sand grains indicators:	res Text Si	ure L	of indi	emarks		
	Depth (inches) 0-18 *Type Histosol (A1 Histic Epipe	Color 10YR 4/3 : C=Concentrat	Matrix % 100	Color	% ced Mate Hydric Sandy M	Type rix, CS Soil I	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Text Si	ion: PL=Pc	of indi	emarks ng, M=Mati k Surface (F6) e (F7)	
	Depth (inches) 0-18 *Type Histosol (A1 Histic Epipe Black Histic	Color 10YR 4/3 : C=Concentrat I) edon (A2)	Matrix % 100	Color	% ced Mate Hydric Sandy Modern Muccond	rix, CS Soil I Mucky ucky P Gleyec	Redox Feature Re	res Text Si	i absence ure L ion: PL=Pc Red Dep Red	of indi Re ore Linin ox Darl leted D ox Dep	emarks ng, M=Mati k Surface (lark Surface)	F6) e (F7) ⁻ 8)	-110
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S	Color 10YR 4/3 : C=Concentrat I) edon (A2) : (A3) sulfide (A4)	Matrix % 100	Color	% ced Mate Hydric Sandy N 5cm Mu Sandy G Sandy F	rix, CS Soil I Mucky Icky P Gleyec Redox	Redox Feature Re	res Text Si	i absence ure L ion: PL=Pc Red Dep Red Indicato	of indi Re ore Linia ox Dari leted Dox Depors for F	emarks ng, M=Mati k Surface (F6) e (F7) ⁻ 8) Hydric S	oils
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	Color 10YR 4/3 : C=Concentrat I) cdon (A2) (A3) (A4) sayers (A5) (A10)	Matrix % 100	Color	ced Mati Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy	rix, CS Soil II Mucky Icky P Gleyec Redox d Matri Mucky	Redox Feature Re	res Text Si	n absence ure L ion: PL=Po Red Dep Red Indicate Coa Iron-	of indi Re ore Linin ox Darl leted D ox Dep ox Sfor F st Prain -Manga	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be	Color 10YR 4/3 : C=Concentrat I) cdon (A2) (A3) (A40) elow Dark Surfa	Matrix % 100	Color	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	res Text Si	n absence ure ion: PL=Po Red Dep Red Indicate Coa Iron- Very	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surface) ressions (problematic	F6) e (F7) F8) Hydric S (A16) ses (F12)
Restri	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 : C=Concentrat (I) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12)	Matrix % 100 tion, D=Depletion	Color	ced Mati Hydric Sandy N 5cm Mu Sandy C Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	res Text Si	n absence ure L ion: PL=Po Red Dep Red Indicate Coa Iron-	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 : C=Concentrat (A) : C=Concentrat (A) : (A3) : (A3) : (A4) : (A4) : (A7) : (A10) : (A7) : (A10) :	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure ion: PL=Po Red Dep Red Indicate Coa Iron- Very	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (park Surfac problematic rie Redox (anese Mass	F6) e (F7) F8) Hydric S (A16) ses (F12)
ı	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks:	Color 10YR 4/3 : C=Concentrat (A) : C=Concentrat (A) : (A3) : (A3) : (A4) : (A4) : (A7) : (A10) : (A7) : (A10) :	Matrix % 100 tion, D=Depletion ace (A11) Type:	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Jicky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass bw Dark Su	F6) e (F7) F8) Hydric So A16) ses (F12 irface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY	Color 10YR 4/3 : C=Concentrat I) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit ta	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu	ced Mati Hydric Sandy N 5cm Mu Sandy G Sandy F Strippec Loamy	Type rix, CS Soil II Mucky Icky P Gleyec Redox d Matri Mucky Gleyec	Redox Feature Re	Text Si **Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe	of indi Re ore Linin ox Darl leted D ox Dep ox Dep ors for F st Prain -Manga / Shallo	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass bw Dark Su	F6) e (F7) F8) Hydric So A16) ses (F12 irface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 10YR 4	Matrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches):	Color on, RM=Redu al area (check all th	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Deplete	rix, CS Soil I Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes	of indi Re ore Linin ox Darl leted D ox Dep ox Frain -Manga / Shalld er	emarks ng, M=Mati k Surface (lark Surface ressions (F roblematic rie Redox (anese Mass ow Dark Su No	F6) e (F7) F8) Hydric Sc A16) ses (F12 rface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa	Color 10YR 4/3 : C=Concentrat (1) cdon (A2) c (A3) culfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Primater (A1)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th Water	ced Mate Hydric Sandy N Sandy C Sandy F Strippee Loamy D Loamy Deplete	Type rix, CS Soil II Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface So	of indi Re ore Linin ox Darl leted Dox Dep ox Frain -Manga / Shallo er ondary oil Crac	mg, M=Mati k Surface (lark Surface) ressions (F Problematic rie Redox (lanese Mass ow Dark Su No	F6) e (F7) F8) Hydric Sc A16) ses (F12 rface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to primater (A1) Table (A2)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th Water Aquat	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Deplete	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri Leave (B13)	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F	of indi Re ore Linii ox Darl leted D ox Dep ors for F st Praii -Manga / Shallo er ondary oil Crac Pattern:	mg, M=Mati k Surface (lark Surface) ressions (F Problematic rie Redox (lanese Mass ow Dark Su No	F6) e (F7) =8) Hydric Si A16) ses (F12 urface (F)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark	Color 10YR 4/3 : C=Concentrat i) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Prima atter (A1) Table (A2) A3) is (B1)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	check all the Water Aquat True A	ced Mati Hydric Sandy N Sandy F Stripped Loamy Loamy Deplete	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed Mucky Gleyed Matri Mucky Mu	Redox Feature Re	**Locat	rabsence ure ure lion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B	of indi Re ore Linin ox Darl leted D ox Dep ors for F st Prain -Manga / Shallo er ondary oil Crac on Wate urrows	emarks F6) e (F7) F8) Hydric S6 A16) ses (F12 urface (F X) 12)	
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wae High Water Saturation (Water Mark Sediment D	Color 10YR 4/3 : C=Concentrat i) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to gy Indicators: Prima atter (A1) Table (A2) A3) s (B1) eposits (B2)	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu on, RM=Redu Check all th Water Aquat True A Hydro Oxidiz	ced Mati Hydric Sandy M Sandy C Sandy C Sandy C Sandy C Stripped Loamy Deplete	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed Matri Mucky Gleyed Motor Mucky Gleyed Motor Mucky	Redox Feature Redox Feature Redox Feature Recoated Sand grains Indicators: Mineral (S1) Reat or Peat Indicators: Mineral (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9) (B14) dor (C1) res on Living Roots	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	of indi Re ore Linin ox Darl leted D ox Dep ors for F sala Analog ondary oil Crac ontern ourrows Visible	mg, M=Mati k Surface (lark Surface) ressions (Forblematic rie Redox (anese Mass bw Dark Sur No No VIndicator cks (B6) s (B10) er Table (C (C8)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark	Color 10YR 4/3	Addrix % 100 tion, D=Depletion ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu al area (check all th	ced Mate Hydric Sandy F Sandy F Stripper Loamy C Loamy C Loamy C T Stained ic Fauna Aquatic F gen Sulf ted Rhizz nce of R	rix, CS Soil II Mucky P Gleyec Redox d Matri Mucky Gleyec d Matri I Leave a (B13) Plants ide Ocospheie	Redox Feature Re	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	of indi Re ore Linin ox Darl leted Dox Depors for F st Prain -Manga y Shallo er on Wate urrows Visible Stress	mg, M=Mati k Surface (lark Surface) roblematic rie Redox (anese Mass ow Dark Su No No VIndicator cks (B6) s (B10) er Table (C (C8) e on Aerial	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to ay Indicators: Primater (A1) Table (A2) A3) s (B1) eposits (B2) its (B3) r Crust (B4) ts (B5)	Adatrix % 100 ace (A11) Type: Depth (Inches): aken, residentia	Color On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Press Recer Thin M	ced Matt Hydric Sandy N Sandy F Stripped Loamy Deplete at apply Stained ic Fauna Aquatic F gen Sulf ged Rhizo nnce of R t Iron Re Muck Sur	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (i	Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark i ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat of Iron Deposi Inundation	Color 10YR 4/3 : C=Concentrat : C=Concentrat : C=Concentrat : C=Concentrat : C(A3) : c(A3) : culfide (A4) : ayers (A5) (A10) : clow Dark Surfa : Surface (A12) : (if observed): -	ace (A11) Type: Depth (Inches): aken, residentia	Color on, RM=Redu color col	ced Mate Hydric Sandy M Sandy M Sandy F Stripped Loamy M Loamy Deplete at apply Stained Aquatic F gen Sulf ged Rhizz nnce of R t Iron R Muck Sur e or Well	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (i	Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR Wetlan	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation \ Sparsely Ve	Color 10YR 4/3 : C=Concentrat (1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surfa Surface (A12) (if observed): No soil pit to ay Indicators: Primater (A1) Table (A2) A3) s (B1) eposits (B2) its (B3) r Crust (B4) ts (B5)	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators	Color On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Press Recer Thin M	ced Mate Hydric Sandy M Sandy M Sandy F Stripped Loamy M Loamy Deplete at apply Stained Aquatic F gen Sulf ged Rhizz nnce of R t Iron R Muck Sur e or Well	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (i	Redox Feature	**Locat	n absence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	of indi Re ore Linin ox Dari leted Dox Depors for F st Prain -Manga / Shallo er ondary oil Crac atterns on Wate urrows Visible Stress ic Posi	mg, M=Mate k Surface (lark Surface) ressions (Forblematic rie Redox (lanese Mass ow Dark Su No / Indicator cks (B6) s (B10) er Table (C (C8) e on Aerial led Plants (ition (D2)	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)
HYDR Wetlan	*Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation \ Sparsely Ve	Color 10YR 4/3 10YR 4/1	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators al Imagery (B7) ave Surface ater Present? e Present?	Color On, RM=Redu On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes	ced Mati Hydric Sandy F Sandy F Stripper Loamy F Loamy F Loamy F Stained ic Fauna Aquatic F gen Sulf ted Rhiz cnce of R nt Iron Re Muck Sur e or Well No	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri I Leave (B13) Plants ide Ocospher educee eductic fface (i	Redox Feature	**Locat	rabsence ure L ion: PL=Pc Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	of indi Re ore Linii ox Darl leted D ox Dep ors for F straii -Manga / Shalld er ondar oil Crac Pattern on Wate urrows Visible Stress ic Posi ral Test	mg, M=Matin k Surface (k Surface (pressions (Foroblematic rie Redox (pressions (F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X S Imagery (D1)) 12)
HYDR Wetlan	*Type *Type Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark: ictive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Inundation \ Sparsely Ve Observation	Color 10YR 4/3 : C=Concentrate (1) cdon (A2) c(A3) culfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): No soil pit to ayer (A5) (A10) elow Dark Surface (A12) (If observed): Frimater (A1) Table (A2) A3) (A3) (A3) (A4) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	ace (A11) Type: Depth (Inches): aken, residentia ary Indicators al Imagery (B7) ave Surface e Present? e Present?	Color On, RM=Redu On, RM=Redu Check all th Water Aquat True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes Yes	ced Matt Hydric Sandy N Sandy F Stripped Loamy C Loamy C T Stained ic Fauna Aquatic F gen Sulf ged Rhizo nnce of R nt Iron R Muck Sur e or Well No No	Type rix, CS Soil I Mucky Gleyec Redox d Matri Mucky Gleyec d Matri File File File File File File File Fil	Redox Feature	**Locat	rabsence ure L ion: PL=Pc Red Dep Red Indicate Iron-Very Othe Yes Sec Surface Si Drainage F Dry-Sease Crayfish B Saturation Stunted or Geomorph FAC-Neutr	of indi Re ore Linii ox Darl leted D ox Dep ors for F straii -Manga / Shalld er ondar oil Crac Pattern on Wate urrows Visible Stress ic Posi ral Test	mg, M=Matin k Surface (k Surface (problematic file Redox (problemati	F6) e (F7) F8) Hydric Si A16) Ses (F12 Irface (F X) 12)

Site: Client	W. Lancaster	r-S. Baltimor	e-W. Millersport			airfield County vnship, Range:	_Date:		<u>12024</u> Data P 336, T 16N, R 1	
Inves	tigator(s):	L. Vine, E.				Landform		oraines	Local Relief	Convex
Slope Soil N		1-3 Benningtor	Lat. 3 n silt loam, 0 to	9.826230° 2 percent slop	Long bes	-82.593620°	_Datum	NAD83	NWI Class:	N/A
(Climatic/hydrolo	gic condition	ns typical for tim	ne of year?	Y/N Y					
	Vegetation Vegetation	n N N				significantly disturbed naturally problematic				
	Iormal Circums	tances Prese		'es x						
SUIVII	MARY OF FINE Hydro	ophytic Vege	etation Present?	Yes	No X		I			
	•	Hydri	ic Soil Present?	Yes	No X	- -		DP within a		
<u> </u>		Vetiana myu	rology Present?	Yes X	No		Yes	No	Х	
VEG	ETATION			^ <u> - </u>	Daminont			1		
Tree	Stratum	Plot size:	30'	Absolute % Cover	Dominant Species	Indicator Statu	IS			
1.					——————————————————————————————————————				ninance Test V	
2. 3.						_			dominant spec	
4.					· ·				BL, FACW, or Foor of dominant	t 9
5.				0	Total Cover			species ac Percent of	ross all strata: dominant spec	-ies
Shrub	Stratum_	Plot size:	1 <u>5'</u>		=			that are OE	BL, FACW, or F	FAC: 44.44
1. 2.	Cornus alba Rubus allegh	onioneie		30 15	- Y	FACW FACU	<u>2</u> 4		e Index Works 6 cover of:	sheet
3.	Lonicera mor	rowii		10	N	FACU	4	OBL specie	es <u> </u>	x 11
4.	Prunus seroti	na		5	N	FACU	4	FACW spe	cies 40	x 2 80
5.				60	Total Cover			FAC specie FACU spec		x 3 x 4 220
	Stratum_	Plot size:	5'	0.5	=	E4011	4	UPL specie	es 10	x 5 50
1. 2.	Solidago altis Epilobium col			25 20	- <u>Y</u>	_ <u>FACU</u> OBL	<u>4</u> 1	Tota	nl <u>111</u> Prevalence	366 e Index: 3.30
3.	Brassica rapa	3		10	N	UPL	5		ic Vegetation	Indicators:
4. 5.	Symphyotrich Xanthium stru		<u>um</u>	10 5	N N	FACW FAC	3		d Test for Hydr inance Test is	
6.	71007				·			Prev	alence Index is	s <u><</u> 3.0*
7. 8.									hological Adap ematic Hydrophyt	
				70	Total Cover				ors of hydric so	•
<u>Wood</u>	dy Vine Stratum	Plot size:	30'					hydrolo	ogy must be pre	esent, unless
2.					·	- ·			sturbed or prob	
					T				hitia Vaaatati	ion Present?
-	Demarks:	Т		0	Total Cover					
SOIL								Yes	No	Х
	Pro					ıment the indicator or Redox Feat		Yes	No	Х
	Pro Depth (inches)	Color	Matrix %		eded to docu	ument the indicator or Redox Featuer Redox Featuer	ures Text	Yes n absence o	No	Х
	Depth (inches)	Color 10YR 4/2	Matrix % 100	e to depth ne	eded to docu	Redox Featu	res Text Si0	Yes n absence of ture	No of indicators.)	Х
	Pro Depth (inches)	Color	Matrix % 100	e to depth ne	eded to docu	Redox Featu	ures Text	Yes n absence of ture	No of indicators.)	Х
	Depth (inches)	Color 10YR 4/2	Matrix % 100	e to depth ne	eded to docu	Redox Featu	res Text Si0	Yes n absence of ture	No of indicators.)	Х
	Depth (inches) 0-12 12-18	Color 10YR 4/2 10YR 4/1	Matrix	color	% Type	Redox Feature Text	n absence of ture	No of indicators.)	X	
	Depth (inches) 0-12 12-18 *Type: 0	Color 10YR 4/2 10YR 4/1	Matrix	color	% Type % Ced Matrix, CS Hydric Soil	Redox Featu * Loc** S=Coated Sand grains Indicators:	Text	Tyes n absence of ture CL CL CL ction: PL=Po	No of indicators.) Remarks re Lining, M=M	X
	Depth (inches) 0-12 12-18 *Type: (Color 10YR 4/2 10YR 4/1 C=Concentra	Matrix	color	% Type % Type ced Matrix, C3 Hydric Soil Sandy Mucky F	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface	x latrix e (F6) ace (F7)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Color 10YR 4/2 10YR 4/1 C=Concentra	Matrix	color	% Type % Type ced Matrix, C: Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface ox Depressions	x latrix e (F6) ace (F7) c (F8)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 10YR 4/2 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5)	Matrix	color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matrix	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemate et Prairie Redox	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (A) Hydrogen Su Stratified Lay 2 cm Muck (A)	Color 10YR 4/2 10YR 4/1 C=Concentra on (A2) A3) lfide (A4) ers (A5)	Matrix % 100 100 ation, D=Depleti	color	eeded to docu % Type ced Matrix, C3 Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyee Sandy Redox Stripped Matt Loamy Mucky	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface sox Depressions rs for Problemat st Prairie Redox Manganese Ma	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leftide (A4) ers (A5) A10) ow Dark Surf	Matrix % 100 100 ation, D=Depleti	color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matrix	Redox Feature Re	Text	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Presions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
SOIL	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (#	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leffide (A4) ers (A5) A10) ow Dark Surfurface (A12)	Matrix % 100 100 ation, D=Depleti	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Da	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
SOIL	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) leffide (A4) ers (A5) A10) ow Dark Surfurface (A12)	Matrix % 100 100 ation, D=Depleti	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Presions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	atrix e (F6) ace (F7) s (F8) s (F8) x (A16) asses (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: (inches) *T	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Da	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Sorictive Layer (it	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed):	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleye Sandy Redox Stripped Matri Loamy Muck Loamy Gleye Depleted Matri	Redox Feature Re	Text SiG	r absence of ture CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface ox Depressions rs for Problemate st Prairie Redox Manganese Ma Shallow Dark Surface No	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Production Depth (inches) 0-12 12-18 *Type: (inches) 0-12 12-18 *Type: (inches) *Type: (inches) Histosol (A1) Histic Epiped Black Histic (inches) Stratified Lay 2 cm Muck (And Depleted Belack Thick Dark Strictive Layer (inches) Remarks: ROLOGY and Hydrology Surface Water	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) bw Dark Surfurface (A12) f observed): rIndicators: Priner (A1)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color Color Color On, RM=Redu	ced Matrix, CS Hydric Soil Sandy Mucky Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Mucky Loamy Gleyer Depleted Matrix at apply) Stained Leave	Redox Feature Re	Text SiG	rabsence of ture ture CL CL CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface No ondary Indicat iil Cracks (B6)	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12)
Restr	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark Si rictive Layer (interpretation of the color) Remarks: ROLOGY Surface Wate High Water T	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) Table (A2)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Matrix, CS Hydric Soil Sandy Mucky F Sandy Gleyer Sandy Redox Stripped Matri Loamy Muck Loamy Muck Loamy Gleyer Depleted Matri at apply) Stained Leavic Fauna (B13	Redox Features	Text SiG	rabsence of ture ture CL CL CL CL CL CL CL CL CL C	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface No ondary Indicate or Cracks (B6) eatterns (B10)	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Strictive Layer (interpretation) Remarks: ROLOGY and Hydrology Surface Water High Water T Saturation (A Water Marks	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): rIndicators: Prin er (A1) able (A2) 3) (B1)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Matrix, C3 Hydric Soil Sandy Mucky Sandy Redox Stripped Matt Loamy Muck Loamy Gleye Depleted Matt at apply) Stained Leav ic Fauna (B13 Aquatic Plants gen Sulfide O	Redox Feature Re	Text SiG	ture ture CL	Remarks re Lining, M=M ox Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface eted Dark Surface ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark Surface if No ondary Indicat iii Cracks (B6) Patterns (B10) n Water Table urrows (C8)	atrix e (F6) ace (F7) ace (F7) ace (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X
Restr	Pro Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark Scrictive Layer (interpretation of the company of th	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	color	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleye Depleted Matrix Loamy Gleye The Matrix Loamy Gleye Depleted Matrix Loamy Gleye	Redox Feature Re	Text SiG	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) asses (F12) Surface (F12) X ors (C2) al Imagery (C9)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belot Thick Dark Strictive Layer (interpretation) Remarks: ROLOGY and Hydrology Surface Water High Water T Saturation (A Water Marks	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): rIndicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches)	Color Co	ced Matrix, CS Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix	Redox Feature Re	Text SiG	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belac Thick Dark Strictive Layer (inchest Depleted Belac) Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 10YR 4/2 10YR 4/1 10YR 4/1 C=Concentra con (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surf urface (A12) f observed): Indicators: Prin er (A1) Sable (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5)	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators	color Co	ceded to docu """ """ """ """ """ """ """	Redox Features Redox	res Text Sid Sid ***Locat	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Production Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belac Thick Dark Strictive Layer (inchest Depleted Belac Thick Dark Strictive Layer (inchest Depleted Belac) Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surf urface (A12) f observed): Indicators: Prin er (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aeri	Matrix % 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators	color Co	ced Matrix, CS Weded to docu """ """ """ """ """ """ """	Redox Features Redox	res Text Sid Sid ***Locat	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	*Type: 0 Depth (inches) 0-12 12-18 *Type: 0 Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Belo Thick Dark So rictive Layer (interpretation (A) Remarks: ROLOGY and Hydrology Surface Wate High Water T Saturation (A) Water Marks Sediment De Drift Deposits Algal Mat or 0 Iron Deposits Inundation Vi	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conc : Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators face Surface face Vater Present?	color Co	ceded to docu % Type ced Matrix, C3 Hydric Soil Sandy Mucky 5cm Mucky F Sandy Gleyee Sandy Redox Stripped Matt Loamy Muck Loamy Gleyee Depleted Mat at apply) Stained Leav ic Fauna (B13 Aquatic Plants gen Sulfide O ted Rhizosphe nce of Reduce thron Reductif Muck Surface e or Well Data No X	Redox Features Redox	esent?	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)
Restr	Property Depth (inches) 0-12 12-18 1	Color 10YR 4/2 10YR 4/1 10YR 4/1 10YR 4/1 C=Concentra on (A2) A3) Iffide (A4) ers (A5) A10) ow Dark Surfurface (A12) f observed): Printer (A1) able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) sible on Aerietated Conc : Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) : Type: Depth (Inches) mary Indicators face (B7) ave Surface fater Present? ole Present?	color	ced Matrix, C3 Wedded to docu Wedge Type Ced Matrix, C3 Hydric Soil Sandy Mucky Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleye Depleted Matrix The Stained Leaving Th	Redox Feature Red Matrix (S4) (S5) (S6) (Mineral (F1) d Matrix (F2) (F3) (F3) (F4) (F4) (F5) (F5) (F5) (F5) (F5) (F5) (F5) (F5	esent?	rabsence of ture CL CL CL CL CL CL CL C	Remarks The Lining, M=M The Lining, M=	atrix e (F6) ace (F7) s (F8) tic Hydric Soils x (A16) Surface (F12) X tors (C2) al Imagery (C9) ts (D1)

		ster-S. Baltime		fillersport	City/0	County:		Fa	airfield County	_ Date:		h 2024 Data		70
	igator(s):	L. Vine,			_		_ Seci	lon, ro	wnship, Range: Landforn	n Mo	oraines	S36, T 16N, F Local Relie	ef Co	onvex
Slope	(%): `´	1-3	Lat.		9.8249		Long	j	-82.594821°	Datum		NWI Class		N/A
C	limatic/hydr	ne: Centerbu	ions typic	al for tim	e of y	/ear?	Y/N	Υ						
	Vegetat Vegetat	tion N	, Soil , Soil	1	N ´ N	or Hy	/drolog /drolog	y N	significantly disturbed naturally problematic	ļ				
Are No		tion <u>N</u> mstances Pre			es	or Hy x			_naturally problemanc					
	MARY OF FI			Drocont2	. V.20		NI ₀		<u> </u>					
	Гіу	Hy	dric Soil F	Present?	Yes	X	_No No	X	_	Is the	DP within	a Wetland?		
		Wetland Hy					No	X	<u> </u>	Yes	No	Χ		
VEGE	TATION													
Tree S	Stratum	Plot size	: 30'			olute %		minant	Indicator State	us				
1.			·	_	C	Cover	5p	pecies			Dor	minance Test	ł Workst	neet
2.				<u> </u>							Number of	f dominant sp	ecies	2
3. 4.							 				that are O	BL, FACW, or ber of domina	r FAC:	
5.				_								cross all strata		4
Chh	Ctuatura	Districts	451	_		0	Total	Cover	<u> </u>		Percent of	f dominant spe	ecies	50.00
<u>Snrub</u> 1.	Stratum	Plot size	: 15	_								BL, FACW, or ce Index Wor	_	-
2.			-	_					- ·		Total 9	% cover of:		:
3.									-		OBL speci FACW spe		1 x 1 0 x 2	1
4. 5.				_							FAC speci		<u>U</u> x 2 55 x 3	165
		51				0	Total	Cover	-		FACU spe	ecies 3	85 x 4	140
Herb 5	<u>Stratum</u> Setaria fab	Plot size peri	: <u>5</u> '	_		35		Υ	FACU	4	UPL speci Tota		<u>0</u> x 5	50 356
2.	Setaria pur	mila				35		Υ	FAC	3		Prevalen	ce Index:	3.52
3.	Poa prater	nsis		_		20 10		Y N	FAC	3		tic Vegetatio		
4. 5.	Zea mays			_		10		IN	UPL	5		oid Test for Hy ninance Test i		oveg.
6.				<u> </u>							Prev	valence Index	is <u><</u> 3.0*	
7. 8.				_								phological Ad Dematic Hydroph		
			-			100	Total	Cover				tors of hydric:		
	y Vine Strat	um_Plot size	: 30'	_			_			İ		logy must be p		
1. 2.				_					-		,	listurbed or pr		
				<u> </u>		0	Total	Cover	_			phytic Veget		esent?
SOIL	Remarks:										Yes	No_	X	
<u> </u>				(Describe	e to d	lepth ne	eded	to doci	ument the indicator or		n absence	of indicators	s.)	
	Depth (inches)		Matrix	%		Color	%	Type	Redox Feat	ures Text	turo	Remarks		_
	0-10	10YR 4/	/2 1	100						SiC	CL	Tromanic		-
	10-18	10YR 5/	/1	90	10	YR 5/6	10	С	M	SiC	CL]
			+		-		+	-						-
	*Туре	e: C=Concen	tration, D	=Depletion	on, RM	M=Redu			S=Coated Sand grains Indicators:	**Locat	tion: PL=Pc	ore Lining, M=	Matrix	
	Histosol (A						Sandy	y Mucky	y Mineral (S1)			lox Dark Surfa		
	Histic Epip	edon (A2)					5cm Ñ	Mucky É	Peat or Peat		Dep	leted Dark Su	urface (É7	7)
	Black Histi	c (A3) Sulfide (A4)						y Gleye v Redox	d Matrix (S4)			lox Depression ors for Problem		ric Soils
	Stratified L	ayers (A5)					Stripp	ed Mat	rix (S6)		Coa	st Prairie Rec	dox (A16))
	2 cm Muck	k (A10) Below Dark Si	··rfaca (A	44\					y Mineral (F1) ed Matrix (F2)			-Manganese I y Shallow Dar		
	_ '	Selow Dark St Surface (A1)	`	11)				iy Gleye eted Ma			Othe		K Sunace	∋ (F1∠)
Restri		(if observed	d): Type:											
	Remarks:		Depth	(Inches):					Hydric Soil Pr	esent?	Yes	X No		
HYDR	OLOGY													
Wetla	nd Hydrolo	gy Indicator	s: rimary Ind	dicators	/che		of ann	11/1			Sec	ondary Indic	ators	
	Surface Wa		Illiai y iii.	uicaioi s	(CITE	Water	r Staine	ed Leav	/es (B9)	+	Surface So	oil Cracks (B6	5)	
	High Water	r Table (A2)				Aquat	tic Fau	na (B13	3)		Drainage I	Patterns (B10)	
	Saturation Water Marl							c Plants ulfide O	s (B14) odor (C1)	-		on Water Tabl Burrows (C8)	e (UZ)	
	Sediment [Deposits (B2))			Oxidiz	zed Rh	izosphe	eres on Living Roots		Saturation	Visible on Ae		
	Drift Depos	sits (B3) or Crust (B4)							ed Iron (C4) ion in Tilled Soil (C6)	<u> </u>		r Stressed Pla nic Position (D		
	Iron Depos							Surface				ral Test (D5)	,2)	
	Inundation	Visible on Ae				Guage	e or W	ell Data			-	` ,		
Field (egetated Cor			Yes	Other	No	Х	Depth (inches)					
rieiu	ODSEI VALIO		able Pres		Yes		No	X	Depth (inches)	Hydro	loy Indicat	ors Present?	,	
Dooori	ha Dagarda		on Presen		Yes	oll oori	No	X	Depth (inches)	oilobloi	Yes	s No	Х	
	dric indicat		in guage	i, monitor	ing w	en, aena	ai prioto	os, prev	vious inspections), if ava	allable.				

			e-W. Millersport				field County	Date:		24 Data Poin	nt: <u>68</u>
Client: Investi	igator(s):	AEP L. Vine, E.	Holt	State: Un	Section	n, Towr	nship, Range: Landform	Мо		16N, R 19W ocal Relief	Convex
Slope	(%): `	1-3	Lat. 3	9.821591°	Long.		-82.598206°	Datum		WI Class:	N/A
Soil M	ap Unit Name:	Benningtor	n silt loam, 0 to a	2 percent slop	pes Y/N	Υ					
C	Vegetation	ìΝ	, Soil I	N or Hy	/drology	N s	significantly disturbed				
	Vegetation	n N	, Soil	N or Hy	drology		naturally problematic				
	ormal Circumst		ent? Y	es x	_ No						
301		phytic Vege	etation Present?		No	Χ					
	1/		ic Soil Present?		No	X			DP within a We		
	V	Vetiana myu	rology Present?	Yes	No	Х		Yes	No	X	
VEGE	TATION										
Tree S	Stratum	Plot size:	30'	Absolute % Cover	Domii Spec		Indicator Statu	s			
1.				Covei	Spec	cies			Domina	nce Test Wor	ksheet
2.									Number of don	ninant species	3
3.									that are OBL, F	FACW, or FAC	<i></i>
4. 5.					_				species across		7
	-			0	Total Co	over	-		Percent of dom	ninant species	42.86
	Stratum	Plot size:	15'	20	_		- :011		that are OBL, F):
1. 2.	Rubus alleghe Elaeagnus un			30 10	_ <u> </u>	,	FACU UPL	<u>4</u> 5	Prevalence In Total % co		et
3.	Liacagnas a	IDenata		10	 ·		OI L		OBL species	1 x	1 1
4.									FACW species	3 13 x	2 26
5.				40	Total Co	ovor.			FAC species FACU species	<u>60</u> x 55 x	
Herb S	Stratum	Plot size:	5'		_ I Ulai Ol	Jvei			UPL species	10 x	
1.	Poa pratensis	;		60	Y	<u>'</u>	FAC	3	Total	139	477
2.	Taraxacum of			20 10	_ <u>Y</u>	<u>'</u>	FACW	4		Prevalence Ind	
3. 4.	Wisteria frute Solidago cana			5	N		FACW FACU	<u>2</u> 4	Hydrophytic V Rapid Te	egetation ind	
5.	Viola renifolia			3	N	1	FACW	2		nce Test is >50	
6.				2	N	I				nce Index is <3	
7. 8.					=					ogical Adaptat tic Hydrophytic V	
0.				100	Total Co	over				of hydric soil a	ŭ
	y Vine Stratum	_ Plot size:	30'		_					must be prese	
1.				-						bed or problen	
2.				0	Total Co	over		_	Hydrophyt	ic Vegetation	
ı	Remarks:			0	Total Co	over					Present? X
		file Descrip	otion: (Describ				nent the indicator or	confirm	Hydrophyt Yes	No	
ı	Pro Depth	Ī	Matrix `	e to depth no	eeded to	docun	Redox Featu	ıres	Hydrophyt Yes n absence of ir	No ndicators.)	
ı	Pro Depth (inches)	Color	Matrix %			docun		res Text	Hydrophyt Yes n absence of in	No	
ı	Pro Depth	Ī	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	ıres	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15	Color 10YR 4/2	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15	Color 10YR 4/2	Matrix % 100	e to depth no	eeded to	docun	Redox Featu	res Text Si	Hydrophyt Yes nabsence of ir	No ndicators.)	
ı	Pro Depth (inches) 0-15 15-18	Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	eeded to	docun Type*	Redox Featu	res Text Si Si	Hydrophyt Yes nabsence of ir	No ndicators.) Remarks	X
ı	Pro Depth (inches) 0-15 15-18 *Type: (Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	% wced Matr Hydric	docun Type*	Redox Featu Loc** -Coated Sand grains dicators:	res Text Si Si	Hydrophyt Yes absence of in ure L L ion: PL=Pore L	No ndicators.) Remarks ining, M=Matri	X X
ı	Pro Depth (inches) 0-15 15-18 *Type: 0	Color 10YR 4/2 10YR 4/4	Matrix	e to depth no	% uced Matr Hydric Sandy M	docun Type* rix, CS= Soil In	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1)	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D	No ndicators.) Remarks ining, M=Matri	x x
ı	Pro Depth (inches) 0-15 15-18 *Type: (Color 10YR 4/2 10YR 4/4 C=Concentra	Matrix	e to depth no	eeded to % uced Matr Hydric Sandy N 5cm Mu	Type* Type* Tix, CS= Soil In Mucky N	Redox Featu Loc** -Coated Sand grains dicators:	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D	ndicators.) Remarks ining, M=Matri Park Surface (For John Surface) Depressions (For Surface)	X x 76) ((F7) 8)
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4)	Matrix	e to depth no	uced Matr Hydric Sandy N Sandy G Sandy F	docum Type* rix, CS= Soil In Mucky N icky Pe Gleyed Redox (Redox Featu Loc** -Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5)	res Text Si Si	Hydrophyt Yes n absence of in ure L L ion: PL=Pore L Redox D Depleted Redox D Indicators fo	ndicators.) Remarks ining, M=Matri park Surface (For Problematic For Proble	X X F6) 1: (F7) 8) Hydric Soils
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix	e to depth no	uced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped	Type* Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix	Redox Featu Loc** 	res Text Si Si	Hydrophyt Yes n absence of in ure L L ion: PL=Pore L Redox D Depletec Redox D Indicators for	ndicators.) Remarks ining, M=Matri Dark Surface (For Problematic For Problematic For Produced	X x -6 (6) 1: (F7) 8) 8) Hydric Soils 116)
ı	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul	Color 10YR 4/2 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5)	Matrix % 100 100 ation, D=Depletic	e to depth no	uced Matr Hydric Sandy N 5cm Mu Sandy C Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky N cky Pe Gleyed Redox (d Matrix Mucky Mucky	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1)	res Text Si Si	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic For Problematic For Programmers Massive Formula (Formula Formula (Formula Formula Formula (Formula Formula Formula (Formula Formula Formula (Formula Formula Formula Formula (Formula Formula Formula Formula Formula (Formula Formula Formula Formula Formula Formula (Formula Formula Formula Formula Formula Formula Formula Formula (Formula Formula F	X x (F7) 8) Hydric Soils 116) es (F12)
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SOIL	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedo Black Histic (Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) bw Dark Surface (A12)	Matrix % 100 100 ation, D=Depletion face (A11)	e to depth no	wiced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky Necky Pe Gleyed Redox (dd Matrix Mucky Gleyed	Redox Featu Loc** Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1) Matrix (F2) x (F3)	Text Sil Sil Sil ***Locat	Hydrophyt Yes n absence of in ure L L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Sha Other	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Horalite Redox (Anganese Massiallow Dark Surface)	x F6) (F7) 8) Hydric Soils 116) es (F12) fface (F12)
SOIL	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Lays 2 cm Muck (A Depleted Bele Thick Dark Su	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 110) bw Dark Surface (A12)	Matrix % 100 100 ation, D=Depleting	e to depth no	wiced Matr Hydric Sandy N 5cm Mu Sandy G Sandy F Stripped Loamy N	Type* Tix, CS= Soil In Mucky Necky Pe Gleyed Redox (dd Matrix Mucky Gleyed	Redox Featu Loc** -Coated Sand grains dicators: Mineral (S1) at or Peat Matrix (S4) S5) : (S6) Mineral (F1) Matrix (F2)	Text Sil Sil Sil ***Locat	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Horalite Redox (Anganese Massiallow Dark Surface)	X x (F7) 8) Hydric Soils 116) es (F12)
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Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Bele Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water T Saturation (A: Water Marks Sediment Dep	Color 10YR 4/2 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3)	Matrix % 100 100 ation, D=Depleting face (A11) Type: Depth (Inches)	cto depth not Color Color On, RM=Redu Mate Aquat True Hydroc Oxidiz Prese	weeded to % water Hydric Sandy Notes San	Type* Type* Tix, CS= Soil In Mucky Pe Gleyed d Matrix Mucky Gleyed d Matrix Delants (lide Oddosphere) educed	Redox Featu Loc** Coated Sand grains dicators: dineral (S1) at or Peat Matrix (S4) S5) (S6) Mineral (F1) Matrix (F2) x (F3) Hydric Soil Pro S (B9) S14) or (C1) or S on Living Roots	res Text Sii Si **Locat	Hydrophyt Yes n absence of in ure L L Sion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pr Iron-Mar Very Shar Other Yes Seconda Surface Soil C Drainage Patte Dry-Season W Crayfish Burrov Saturation Visi Stunted or Stre	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Prairie Redox (Anganese Massiallow Dark Surfaces (B6) ems (B10) fater Table (C2) wis (C8) ble on Aerial Intersed Plants (Intersed Plants)	x x x x x x x x x x x x x x x x x x x
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Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra con (A2) A3) fide (A4) ers (A5) 10) by Dark Surfurface (A12) cobserved): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Concentra	Matrix % 100 100 100 ation, D=Depletion face (A11) Type: Depth (Inches) mary Indicators face Surface	cto depth not Color Color On, RM=Redu On, RM=Redu Aquat True Hydro Oxidi: Prese Recee Thin I Guag Other	weeded to % weeded to % weeded to % weeded to we	Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matrix Mucky Gleyed d Matrix (B13) Plants ((ide Odd osphere educed eduction	Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Fe	res Text Si Si Si **Locat	Hydrophyte Yes n absence of interpretation: PL=Pore Les Control Contr	ndicators.) Remarks ining, M=Matri Dark Surface (Fed Dark Surface Depressions (Fed Dark Surfa	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipedd Black Histic (A1) Hydrogen Sul Stratified Laye 2 cm Muck (A2) Depleted Beloc Thick Dark Suctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ta Saturation (A2) Water Marks Sediment Deposits Algal Mat or (A2) Iron Deposits Inundation Visionals	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Suri urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 100 100 ation, D=Depletion face (A11) Type: Depth (Inches) mary Indicators face Surface face Vater Present?	check all the Wate Aquar True Hydro Oxidiz Prese Recer Thin Guag Other	weeded to % weeded to % weeded to % weeded to weeded weeded to weede	Type* Tix, CS= Soil In Mucky Pe Gleyed Redox (d Matri Mucky Gleyed d Matri (B13) Plants (ide Odo psphere educed eduction face (C Data (Redox Featu Loc**	**Locat	Hydrophyt Yes n absence of in ure L ion: PL=Pore L Redox D Depleted Redox D Indicators for Coast Pi Iron-Mar Very Sha Other Yes Second Surface Soil C Drainage Patte Dry-Season W Crayfish Burror Saturation Visi Stunted or Stre Geomorphic Peroperation of the Street Company Second Secon	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Prairie Redox (Arganese Massiallow Dark Surface (B10) ary Indicators racks (B6) errs (B10) ater Table (C2 ws (C8) ble on Aerial Inessed Plants (Iosition (D2) est (D5)	x x x x x x x x x x x x x x x x x x x
Restri	Pro Depth (inches) 0-15 15-18 *Type: (Histosol (A1) Histic Epipede Black Histic (Hydrogen Sul 2 cm Muck (A Depleted Belo Thick Dark St ctive Layer (if Remarks: OLOGY nd Hydrology Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Veg	Color 10YR 4/2 10YR 4/4 10YR 4/4 10YR 4/4 C=Concentra on (A2) A3) fide (A4) ers (A5) 10) ow Dark Suri urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conce Surface W	Matrix % 100 100 100 ation, D=Depleti face (A11) Type: Depth (Inches) mary Indicators face (B7) ave Surface fater Present? le Present?	cto depth not Color Color On, RM=Redu On, RM=Redu Aquat True Hydro Oxidi: Prese Recee Thin I Guag Other	weeded to % weeded to % weeded to % weeded to we	Type* Tix, CS= Soil In Mucky N Cky Pe Selyed Redox (d Matri Mucky Gleyed d Matri Leaves (B13) Plants (ide Odo psphere educed eduction face (C Data (Redox Featulous Redox Featulous Redox Featulous Redox Featulous Redox Feature Redox Fe	**Locat	Hydrophyte Yes n absence of interpretation: PL=Pore Les Control Contr	ndicators.) Remarks ining, M=Matri Park Surface (For Problematic Frairie Redox (Arganese Massiallow Dark Surfaces (B10) ary Indicators racks (B6) erns (B10) ary Indicators racks (B10) ester Table (C2 ws (C8) ble on Aerial Intersed Plants (Iosition (D2) est (D5) Present?	x x x x x x x x x x x x x x x x x x x

Client	W. Lancasto	AEP					irfield County rnship, Range:	Date:	27 Marc	<u>h 2024 </u> Data Po S36, T 16N, R 19	int: <u>63</u>	
Invest	tigator(s):	L. Vine, E				1, 1000	Landform		oraines	Local Relief	Convex	
Slope Soil M		e: Centershi	_Lat. urg silt loam, 2 t	39.813840°	Long.		-82.606066°	Datum	NAD83	NWI Class:	N/A	
C	Climatic/hydro	logic condition	ons typical for tir	me of year?	Y/N	Y						
	Vegetation Vegetation	on N on N	, Soil _, Soil		/drology _ /drology		significantly disturbed naturally problematic					
	Iormal Circum	stances Pres		Yes x		1.4	Tiditalian production					
SUMI	MARY OF FIN Hyd	Irophytic Veg	etation Present	? Yes X	No			I				
	•	Hyd	Iric Soil Present	? Yes	No					a Wetland?		
<u> </u>		Wetianu nyu	drology Present	? Yes	No	<u>X</u>		Yes	No	Х		
VEGE	ETATION			Absolute %	Domir	cont			_			
Tree S	Stratum_	Plot size:	30'	Cover	Spec		Indicator Statu	s				
1.										minance Test Wo		
2. 3.							-			f dominant specie BL, FACW, or FA		
4.										BL, FACW, or FA ber of dominant	1	
5.				0	Total Co	over	-		species at Percent of	cross all strata: f dominant specie	<u> </u>	
	Stratum	Plot size:	15'		•				that are O	BL, FACW, or FA	.C: 100.	.00
1. 2.							-		Total	ce Index Worksh % cover of:	eet	
3.									OBL spec	ies 1		1
4. 5.	-			-					FACW spec		< 2 < 3	0
	~·····	Distriction		0	Total Co	over			FACU spe	ecies 100 >	(4	400
Herb :	Stratum Schedonoru	Plot size: Is arundinace		100	Υ		FACU	4	UPL speci Tot			0 401
2.										Prevalence I	ndex: 3	3.97
3. 4.										rtic Vegetation In old Test for Hydro		
5.	-								x Don	ninance Test is >	50%	
6. 7.									Mor	valence Index is < phological Adapta	ations*	
8.				100	Total Co				Prob	lematic Hydrophytic	Vegetation*	
Wood	dy Vine Stratu	m Plot size:	30'	100	Total Co	over				tors of hydric soil logy must be pres		t k
1.		<u> </u>							,	logy must be pres listurbed or proble		
				0	Total Co	ver			Hydro	phytic Vegetatio		
SOIL	Remarks:								Yes	X No		
30		rofile Descri		be to depth no	eded to	docu	ment the indicator or		n absence	of indicators.)		
	Depth (inches)		Matrix %			Type	Redox Featu					
	(111000)	Color	/0	Color	%		* I oc**	Text	ure	Remarks		
		Color	/0	Color	%	Турс	* Loc**	Text		Remarks lo soil pit, residen	tial	
		Color	76	Color	%	Турс	* Loc**	Text			tial	
		Color	/0	Color	%	Турс	* Loc**	Text			tial	
	*Type:								N			
		: C=Concenti			uced Matri	ix, CS Soil I	=Coated Sand grains		ion: PL=Po	lo soil pit, residen	rix	
	Histosol (A1	: C=Concenti			uced Matri Hydric S Sandy M	ix, CS Soil I	=Coated Sand grains ndicators: Mineral (S1)		ion: PL=Po	lo soil pit, residen ore Lining, M=Mat	rix (F6)	
	Histosol (A1 Histic Epipe Black Histic	: C=Concentr) don (A2) (A3)			Liced Matri Hydric Sandy M 5cm Mud Sandy G	ix, CS Soil II Nucky cky Pe Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4)		ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions ((F6) ce (F7) F8)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S	: C=Concentr) don (A2) (A3) ulfide (A4)			Joseph Matri Hydric S Sandy M 5cm Muc Sandy G Sandy R	ix, CS Soil II Mucky cky Pe Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5)		ion: PL=Po	lo soil pit, residen ore Lining, M=Mat lox Dark Surface eleted Dark Surface	rix (F6) Se (F7) F8) Hydric Soils	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	: C=Concentrollor odon (A2) (A3) ulfide (A4) tyers (A5) (A10)	ration, D=Deple		Joseph Matri Hydric: Sandy M 5cm Mu Sandy R Sandy R Stripped Loamy M	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1)		Red Dep Red Indicate Coa Iron	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (ors for Problematic ist Prairie Redox (-Manganese Mas	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	: C=Concentr) don (A2) (A3) ulfide (A4) yers (A5) (A10) elow Dark Su	ration, D=Deple		Joseph Matri Hydric: Sandy M 5cm Mu Sandy G Sandy R Stripped Loamy M Loamy O	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) Matrix (F2)		ion: PL=Po Red Dep Red Indicate Coa Iron Very	ore Lining, M=Mat lox Dark Surface leted Dark Surface lox Depressions (ors for Problemations st Prairie Redox I-Manganese Mas y Shallow Dark Su	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
Restr	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck	C=Concentriction (A2) (A3) ulfide (A4) yers (A5) (A10) elow Dark Su Surface (A12	ration, D=Deple	etion, RM=Redu	Joseph Matri Hydric: Sandy M 5cm Mu Sandy R Sandy R Stripped Loamy M	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S	C=Concenti) don (A2) (A3) ulfide (A4) syers (A5) (A10) elow Dark Su Surface (A12) (if observed)	rration, D=Deple	stion, RM=Redu	Sandy Modern Sandy Research Sandy Research Sandy Research Sandy Research Stripped Loamy Research Sandy Research	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) Matrix (F2)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Very	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY	: C=Concentr) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed)	ration, D=Deple rface (A11) :) : Type: Depth (Inches t was taken; this	stion, RM=Redu	Sandy Modern Sandy Research Sandy Research Sandy Research Sandy Research Stripped Loamy Research Sandy Research	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface lox Depressions (fors for Problematic erors for Problematic erors for Broblematic erors for Broble	(F6) :e (F7) F8) :hydric Soils (A16) ses (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (: C=Concentr) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	stion, RM=Redu	Josephania James Alaman (1997) Jacob Muley Sandy Results (1997) Sandy Results (1997)	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyec d Matr	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3)	**Locat	ion: PL=Po	ore Lining, M=Mat lox Dark Surface eleted Dark Surface oleted Dark Surface ors for Problematic ist Prairie Redox i-Manganese Mas y Shallow Dark Ster	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa	C=Concentriction (A2) (A3) ulfide (A4) ulfide (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit (y) Indicators Printer (A1)	ration, D=Deple rface (A11) :) : Type: Depth (Inches t was taken; this	s): s is a residentia	Juced Matri Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy M Depleted al area	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matr	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Preses (B9)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ver Oth Yes Sec Surface S	lo soil pit, resident pre Lining, M=Mat lox Dark Surface pleted Dark Surface lox Depressions (for Problematic at Prairie Redox of Manganese Mas by Shallow Dark Suer No	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water	C=Concenti) don (A2) (A3) ulfide (A4) yers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit y Indicators Pri ter (A1) Table (A2)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	sis a residentia Water Aquat	Jaced Matri Hydric Sandy M Sandy G Sandy R Stripped Loamy M Loamy G Depleted al area Tat apply) T Stained tic Fauna	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Leave (B13)	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Press es (B9)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ver Oth Yes Sec Surface S Drainage	lo soil pit, resident pre Lining, M=Mat lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface lox Prairie Redox of Shallow Dark Surface produced by Shallow	rix (F6) se (F7) F8) Hydric Soils (A16) ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark	: C=Concentri) don (A2) (A3) ulfide (A4) tyers (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pir ty Indicators Pri ter (A1) Table (A2) A3) s (B1)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Ts (check all the Water Aquar Aquar Hydro	Josepharia Jaced Matri Hydric: Sandy Mosandy Results Sandy Results Sandy Results Sandy Results Results Sandy Results R	ix, CS Soil In Jucky Cky Pe Sleyed Redox I Matri Mucky Gleyed Matri Leave (B13) Ilants de Od	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) Nor (C1)	**Locat	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage Dry-Seass Crayfish B	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Problematic last Prairie Redox I-Manganese Mas y Shallow Dark Suer No loil Cracks (B6) Patterns (B10) on Water Table (Caurrows (C8)	rix (F6) Se (F7) F8) Se Hydric Soils (A16) Ses (F12) urface (F12)	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D	C=Concentrical Concentrical Con	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Water Aquat True / Hydro Oxidiz	Josephalia Jaced Matri Hydric: Sandy Mosandy Rosandy R	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matr Leave (B13) Plants Plants Ide Oo	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pro es (B9) (B14) lor (C1) es on Living Roots	**Locat	ion: PL=Po Red Dep Red Indicate Iron Ven Oth Yes Sec Surface S Dray-Seasc Crayfish B Saturation	lo soil pit, residen pre Lining, M=Mat lox Dark Surface eleted Dark Surface eleted Dark Surface soleted Dark Surface soleted Dark Surface soleted Dark Surface eleted Dark Surface soleted Dark Surf	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	C=Concentrice C=Concentrice C(A3) Ulfide (A4) Ulfide (A4) Upers (A5) (A10) Elow Dark Su Surface (A12 (if observed) No soil pit In Indicators Printer (A1) Table (A2) A3) S (B1) Eposits (B2) ts (B3) Crust (B4)	ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia True / Hydro Oxidiz Prese Recer	Juced Matric Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G Depleted To be a larea The stripped depleted Loamy G Depleted The stripped depl	ix, CS Soil II Mucky Cky Pe Gleyed Redox I Matri Mucky Gleyed d Matr Leave (B13) Hants de Od ospher educeeductic	=Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	lo soil pit, resident pre Lining, M=Mate lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface plete	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment Do Algal Mat or Iron Deposit	C=Concentrice (A3) ulfide (A4) ulfide (A4) ulfide (A5) (A10) elow Dark Su Surface (A12 (if observed) No soil pit y Indicators Printer (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4) ts (B5)	ration, D=Deple	s): s is a residentia Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Jaced Matri Hydric Sandy Mosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosandy Rosand Ros	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Mucky Gleyed (B13) Plants de Od pspher educete educte face ((=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	ore Lining, M=Mate Dore Li	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDR	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposit Algal Mat or Iron Deposit Inundation \	C=Concentrice C=Concentrice C=Concentrice C(A3) (A3) (A10) (ration, D=Deple rface (A11)): Type: Depth (Inches t was taken; this	s): s is a residentia Water Aquat True / Hydro Oxidiz Prese Recer Thin M	Juced Matri Hydric Sandy Months Sandy Months Sandy Months Stripped Loamy Months Loamy Months Stripped Loamy Months Stripped Loamy Months Stripped Loamy Months Stripped Loamy Months Stripped Republic Fauna Aquatic Pogen Sulfie Loamy Months Stripped Republic Months Strippe	ix, CS Soil II Mucky Cky Pe Seleyed Redox I Matri Mucky Gleyed Matri Mucky Gleyed (B13) Plants de Od pspher educete educte face ((=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) (C7)	**Locat	ion: PL=Po Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Dry-Seasc Crayfish B Saturation Stunted of Geomorph	lo soil pit, resident pre Lining, M=Mate lox Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface pleted Dark Surface plete	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDF	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (, Water Mark Sediment D Drift Deposit Inundation (, Sparsely Ve	C=Concentrical Concentrical Con	ration, D=Deple rface (A11) :) : Type: Depth (Inchest was taken; this :: mary Indicator rial Imagery (B7 cave Surface Vater Present?	s): s is a residentia Frue Hydro Oxidiz Prese Recer Thin M Guag Other	Josepharia Jaced Matri Hydric: Sandy Mosandy Romand Research Sandy Romand Research Loamy Mosand Research Josepharia Jaced	ix, CS Soil In Jucky Cky Pe Redox I Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Gleyed Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Mucky Matri Matri Mucky Ma	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) X (S6) Mineral (F1) Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) Or (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)	**Locat	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Crayfish B Saturation Stunted of Geomorph FAC-Neut	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface lox Depressions (ors for Problematic st Prairie Redox James Masy Shallow Dark Surface No. No.	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	
HYDF Wetla	Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark S rictive Layer (Remarks: ROLOGY and Hydrolog Surface Wa High Water Saturation (, Water Mark Sediment D Drift Deposit Inundation \ Sparsely Ve Observation	C=Concentrical Concentrical Con	ration, D=Deple ration, D=Deple ration, D=Deple riace (A11) riace	s): s is a residentia True / Hydro Oxidiz Prese Recer Thin N Guag Other Yes Yes Yes	Jaced Matri Hydric: Sandy M Sandy G Sandy G Sandy R Stripped Loamy M Loamy G Depleted Loamy G Depleted Loamy G Depleted Loamy G Loamy	ix, CS Soil II Mucky cky Pe Bleyed Redox I Matri Mucky Gleyed Matri Leave (B13) Plants de Od spher educee eduction face (I Data X X X	=Coated Sand grains indicators: Mineral (S1) eat or Peat Matrix (S4) (S5) x (S6) Mineral (F1) d Matrix (F2) ix (F3) Hydric Soil Pre es (B9) (B14) for (C1) es on Living Roots d Iron (C4) or in Tilled Soil (C6) (C7) (D9)	**Locat **Locat X Hydrol	Red Dep Red Indicate Coa Iron Ven Oth Yes Sec Surface S Drainage I Crayfish B Saturation Stunted of Geomorph FAC-Neut	lo soil pit, resident pre Lining, M=Mat lox Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted Dark Surface letted let	rix (F6) ce (F7) F8) c Hydric Soils (A16) ses (F12) urface (F12) rs C2) Imagery (C	

		S. Baltimore	e-W. Millersport		Coatio		airfield County	Date:		n 2024 Data Po c S1. T 15N. 19V		2 A
	tigator(s):	L. Vine, E.		-	_ Sectio	n, Iov	vnship, Range: Landform	М	oraines	Local Relief	Convex	(
Slope	e (%): `´	1-3	Lat. 3	89.812051	Long.	424	-82.608505	Datum	NAD83	NWI Class:	N/A	
SOILIV	lap Unit Name: Climatic/hvdrolo	centersbui	rg silt loam, 2 to ns typical for tim	e of vear?	y/N	yaea Y						
	Vegetation	N	, Soil	N or Hy	drology		significantly disturbed					
Δro N	Vegetation Iormal Circumst		,	N or Hy es x	drology No	N_	naturally problematic					
	MARY OF FIND	INGS		-			_					
	•	Hydri	tation Present? c Soil Present?	Yes	No No	Х	_ _	Is the	DP within	a Wetland?		
	W	etland Hydr	rology Present?	Yes X	No			Yes	No	X		
VEGE	ETATION											
Tree S	Stratum	Plot size:	30'	Absolute %		inant	Indicator Statu	s				
1.	Acer rubrum			Cover 30		cies Y	FAC	3	Dor	ninance Test W	orkshoot	
2.	Acer rubrum						TAC			dominant specie	25	4
3.					-				that are Ol	BL, FACW, or FA ber of dominant	،C:	+
4. 5.										cross all strata:	6	6
J.				30	Total C	over	-			dominant specie	s	.67
	Stratum_	Plot size:	15'		-			_		BL, FACW, or FA	(C:	.07
1. 2.	Lonicera maa	CKII		15		Y	UPL	5		e Index Worksh cover of:	eet	
3.	-								OBL speci	es 1		1
4.									FACW spe			0
5.	-			15	Total C	over			FAC speci FACU spe		3	210 40
Herb	Stratum_	Plot size:	5'		-				UPL speci	es <u>15</u>	< 5	75
1.	Typha angust			50 20		Y	OBL	1	Tota			326
2. 3.	Barbarea vulg Poa pratensis			20		Υ Υ	FAC FAC	3	Hydrophy	Prevalence I tic Vegetation Ir		3.40
4.	Prunus serotii			10	1	V	FACU	4	Rap	id Test for Hydro	phytic Veg.	
5.										ninance Test is >		
6. 7.	-									/alence Index is </td <td></td> <td></td>		
8.										lematic Hydrophytic		
11/000	du Vina Ctratum	Dieteize	20'	100	Total C	over			*Indicat	ors of hydric soil	and wetlan	nd
1.	dy Vine Stratum	Plot size:	30						,	ogy must be pres		3
2.										isturbed or proble		_
	Remarks:			0	Total C	over			Hydro Yes	phytic Vegetatio X No	n Present	?
SOIL									•			
				e to depth ne	eded to	docu	ment the indicator or Redox Featu		n absence	of indicators.)		
	Depth (inches)	Color	Matrix %	Color	%	Type	* Loc**	Text	ture	Remarks		
	0-15	10YR 4/2	100					Si				
	15-18	10YR 4/4	85	10YR 4/6	15	С	M	SiC	CL			
	*Type: C	=Concentra	ation, D=Depleti	on, RM=Redu			S=Coated Sand grains	**Locat	tion: PL=Pc	ore Lining, M=Ma	trix	
	*Type: 0	C=Concentra	tion, D=Depleti	on, RM=Redu	Hydric	Soil I	S=Coated Sand grains Indicators: Mineral (S1)	**Locat		ore Lining, M=Ma		
	Histosol (A1) Histic Epipedo	on (A2)	ation, D=Depleti	on, RM=Redu	Hydric Sandy 5cm Mu	: Soil I Mucky ucky P	ndicators: Mineral (S1) Peat or Peat	**Locat	Red Dep	ox Dark Surface leted Dark Surfac	(F6) ce (F7)	
	Histosol (A1) Histic Epipedo Black Histic (A	on (A2) A3)	ation, D=Depleti	on, RM=Redu	Sandy 5cm Mu Sandy	Soil I Mucky ucky P Gleyed	ndicators: Mineral (S1) Peat or Peat d Matrix (S4)	**Locat	Red Dep Red	ox Dark Surface leted Dark Surface ox Depressions ((F6) ce (F7) F8)	I «
	Histosol (A1) Histic Epipedo	on (A2) A3) fide (A4)	ation, D=Depleti	on, RM=Redu	Hydric Sandy 5cm Mu	Soil I Mucky ucky P Gleyed Redox	Indicators: If Mineral (S1) Peat or Peat Indicators (S4) Indicators (S4) Indicators (S4) Indicators (S5)	**Locat	Red Dep Red Indicate	ox Dark Surface leted Dark Surfac	(F6) ce (F7) F8) : Hydric Soil	ls
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	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf	·	on, RM=Redu	Sandy 5cm Mu Sandy Sandy Strippe Loamy Loamy	Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	Indicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)	**Locat	Red Dep Red Indicate Coa Iron- Very	ox Dark Surface leted Dark Surface Depressions (ors for Problemations st Prairie Redox Manganese Mas or Shallow Dark Si	(F6) ce (F7) F8) : Hydric Soil (A16) ses (F12)	
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	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12)	ace (A11)		Sandy 5cm Mu Sandy Sandy Strippe Loamy Loamy	Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	Indicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Red Dep Red Indicate Coa Iron- Very	ox Dark Surface leted Dark Surfac ox Depressions (ors for Problemations st Prairie Redox Manganese Mase or Shallow Dark Ster	(F6) ce (F7) F8) : Hydric Soil (A16) ses (F12)	
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12)	ace (A11)		Sandy 5cm Mu Sandy Sandy Strippe Loamy Loamy	Soil I Mucky ucky P Gleyed Redox d Matr Mucky Gleye	Indicators: Mineral (S1) Peat or Peat Matrix (S4) (S5) Ix (S6) Mineral (F1) Matrix (F2) Mineral (F3)		Red Dep Red Indicate Coa Iron- Very Othe	ox Dark Surface leted Dark Surfac ox Depressions (ors for Problemations st Prairie Redox Manganese Mase or Shallow Dark Ster	(F6) ce (F7) F8) c Hydric Soil (A16) ses (F12) urface (F12	
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HYDR	Histosol (A1) Histic Epipede Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prin r (A1)	ace (A11) Type: Depth (Inches)	(check all th	Hydric Sandy 5cm Mt Sandy Strippe Loamy Deplete	Soil I Mucky Pucky	Indicators: Mineral (S1) leat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Preses (B9)		Red Dep Red Indicate Coa Iron- Very Othe Yes Sec Surface Se	ox Dark Surface leted Dark Surface leted Dark Surface ox Depressions (ox For Problematic st Prairie Redox -Manganese Mas ox Shallow Dark Sier No ondary Indicato oil Cracks (B6)	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12)	
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HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) (B1)	ace (A11) Type: Depth (Inches)	(check all the Water Aquat True / Hydro	Hydric Sandy Sandy Sandy Sandy Strippe Loamy Loamy Deplete	Soil I Mucky Pucky P Gleyed Redox d Matr Mucky Gleyed Matr Mucky Gleyed Matr D Leaved 1 Leave	Indicators: Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre es (B9)) (B14) dor (C1)		Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Se Drainage F Dry-Sease Crayfish B	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface lox Depressions ((F6) te (F7) F8) th Hydric Soil (A16) ses (F12) urface (F12) X	2)
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HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suf ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) B1) osits (B2) (B3) crust (B4) (B5)	face (A11) Type: Depth (Inches) nary Indicators	(check all the Water Aquater True A Hydroid Prese Recerent Thin Market And Annual Prese Recerent Thin Market Annual Prese Recerent A	Hydric Sandy Sandy Sandy Strippe Loamy Deplete Stained ic Fauna Aquatic Figen Sulligen Rivinger Sullin	Mucky P Gleyec A Material Mucky P Gleyec A Material Mucky Gleyec A Material Materia Material Material Material Material Material Material Material	Indicators: Indica		Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface sor Problematic st Prairie Redox - Manganese Mas y Shallow Dark Sier No ondary Indicato bil Cracks (B6) Patterns (B10) on Water Table (Currows (C8) Visible on Aerial Stressed Plants	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12) X rs	2)
HYDR	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A3	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) (B1) oosits (B2) (B3) crust (B4) (B5) ible on Aeria	face (A11) Type: Depth (Inches) nary Indicators al Imagery (B7)	(check all the Water Aquater True / Hydro Oxidiz Prese Recer Thin Manager Guage	At apply To Stainer at apply To Stainer Aquatic I gen Sulf gen S	Mucky P Gleyec A Material Mucky P Gleyec A Material Mucky Gleyec A Material Materia Material Material Material Material Material Material Material	Indicators: Indica	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface ox Depressions (ox Froblematic st Prairie Redox Manganese Mas y Shallow Dark Si er No ondary Indicato bil Cracks (B6) Patterns (B10) in Water Table (C urrows (C8) Visible on Aerial Stressed Plants ic Position (D2)	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12) X rs	2)
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Suf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Suf ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	on (A2) A3) fide (A4) ers (A5) 10) w Dark Surf urface (A12) observed): Indicators: Prin r (A1) able (A2) (B3) (rust (B4) (B5) ible on Aerie	Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface	(check all the Water Aquater True A Hydroid Prese Recerent Thin Market And Annual Prese Recerent Thin Market Annual Prese Recerent A	At apply To Stainer at apply To Stainer Aquatic I gen Sulf gen S	Mucky P Gleyec A Material Mucky P Gleyec A Material Mucky Gleyec A Material Materia Material Material Material Material Material Material Material	Indicators: Indica	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seasc Crayfish B Saturation Stunted or Geomorph	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface ox Depressions (ox Froblematic st Prairie Redox Manganese Mas y Shallow Dark Si er No ondary Indicato bil Cracks (B6) Patterns (B10) in Water Table (C urrows (C8) Visible on Aerial Stressed Plants ic Position (D2)	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12) X rs	2)
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sul' Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Surictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks (A3	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2) B1) osits (B2) (B3) crust (B4) (B5) sible on Aeric etated Conce Surface W Water Tab	Type: Depth (Inches) nary Indicators al Imagery (B7) ave Surface ater Present? le Present?	Check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guage Other Yes Yes	Hydric Sandy Sandy Sandy Sandy Sandy Strippe Loamy Loamy Deplete at apply r Stained its fauna Aquatic If gen Sull ged Rhiz ince of R t Iron R Muck Su e or Wel No No	Mucky Policy Pol	es (B9) (B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Deat of Peat d Matrix (S4) (S5) (Mineral (F1) d Matrix (F2) rix (F3) Hydric Soil Pre	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Si Dray-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface ox Depressions (ors for Problematic st Prairie Redox Manganese Mas y Shallow Dark Sier No Ondary Indicato oil Cracks (B6) Patterns (B10) on Water Table (Currows (C8) Visible on Aerial Stressed Plants ic Position (D2) ral Test (D5) ors Present?	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12) X rs	2)
HYDF Wetla	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sull Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Sull ictive Layer (if Remarks: ROLOGY and Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vego Observations:	on (A2) A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12) observed): Indicators: Prim r (A1) able (A2) B) Frust (B4) (B5) sible on Aeric etated Conci- Surface W Water Tab Saturation	Type: Depth (Inches) al Imagery (B7) ave Surface ater Present? le Present? Present?	Check all th Water Aquat True Hydro Oxidiz Prese Recer Thin N Guagr Other Yes Yes Yes X	Aquatic Faunce of Rnt Iron Rules or Wel	Mucky Policy Pol	es (B9) (B14) (B7) (B9) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B9) (B7) (B	esent?	Red Dep Red Indicate Coa Iron Very Othe Yes Sec Surface Se F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface ox Depressions (ors for Problematic st Prairie Redox Manganese Mas y Shallow Dark Sier No Ondary Indicato oil Cracks (B6) Patterns (B10) on Water Table (Currows (C8) Visible on Aerial Stressed Plants ic Position (D2) ral Test (D5) ors Present?	(F6) se (F7) F8) se Hydric Soil (A16) ses (F12) urface (F12) X rs	2)

Site: Client	W. Lancaster-	-S. Baltimore	e-W. Millerspor	rt City/Co	ounty:		Fa	airfield County wnship, Range:	Date:	27 Marcl	h 2024 Da		62
Invest	tigator(s):	L. Vine, E.						Landform		oraines	Local Rel	lief C	Convex
Slope Soil M	e (%): Map Unit Name:	1-3 Centersbur		39.81139		Long		-82.608382°	Datum	NAD83	NWI Clas	3S:	N/A
00	Climatic/hydrolog	gic condition	ns typical for tin	ne of yea	ar?	Y/N	Υ						
	Vegetation Vegetation		_ , Soil _ , Soil			/drology /drology		significantly disturbed naturally problematic					
	Iormal Circumst	ances Prese		Yes	Х		' <u> </u>						
SUMI	MARY OF FIND Hydro	phytic Vege	etation Present	? Yes	Х	No							
	•	Hydri	ic Soil Present?	? Yes		No	X	= - -			a Wetland?	?	
	VV	letland Hydi	Irology Present?	? Yes	Х	No			Yes	No	X		
VEGE	ETATION			11: a a li	. 0/	200	4						
Tree :	Stratum_	Plot size:	30'	Absolu Cov			ninant ecies	Indicator Status	s				
1.							50100				minance Te		heet
2. 3.								- 			f dominant s		2
3. 4.								_		Total num	BL, FACW, ber of domin	or FAC. nant	4
5.				0		Total (2-1/25			species ac	cross all stra f dominant s	ata:	
Shrub	Stratum_	Plot size:	15'			Total (BL, FACW,		50.00
1.	Cornus racem			50)		Υ	FAC	3	Prevalenc	ce Índex Wo	-	
2. 3.	-									OBL speci	% cover <u>of:</u> ies	1 x 1	1
4.										FACW spe	ecies	10 x 2	20
5.				50	<u> </u>	Total (Cover			FAC speci FACU spe		50 x 3 20 x 4	150 80
	Stratum	Plot size:			_	_ 10161.				UPL speci	ies	5 x 5	25
1. 2.	Schedonorus Symphyotricht			20 10			Y	_ <u>FACU</u> FACW	2	Tota		<u>86</u> ence Index	276 C 3.21
3.	Brassica rapa		<u>um</u>	5			N	UPL		Hydrophy	tic Vegetat	ion Indica	ators:
4.										Rap	oid Test for F	Hydrophyti	c Veg.
5. 6.											ninance Tes valence Inde		,
7.								- 		Mor	phological A	Adaptation:	s*
8.				35	5	Total (Cover				lematic Hydro	. , .	
	dy Vine Stratum	Plot size:	30'	-	-						logy must be		
1. 2.						_		_		,	disturbed or		
				0		Total (Cover				phytic Vege		esent?
SOIL	Remarks:	<u> </u>								Yes	X No)	
<u> </u>				oe to der	oth ne	eded t	o docu	ument the indicator or		n absence	of indicato	rs.)	
	Depth (inches)	Color	Matrix %	Colo	or	%	Type	Redox Featu	ires Text	ture	Remar	rks	-
	0-14	10YR 4/3	100	+	<u>J.</u>			, 100	Si	iL		10	
	14-18	10YR 4/4	100			-	+-		SiC	CL			_
		<u> </u>					<u> </u>						-
	*Type· C	`-Concentra	otion D-Denle	tion RM-	Pedu	iced Ms	atriv C!	S=Coated Sand grains	**I ocat	tion: PI =Pc	ore Lining, M	1-Matrix	
		/=C0110611116	IIIOII, DEDEDICI	1011, 13141—	Neuu	Hydri	c Soil I	Indicators:	LUCAL		<u> </u>		
	Histosol (A1) Histic Epipedo	~ (A2)		=				/ Mineral (S1) Peat or Peat			lox Dark Sur bleted Dark S		/ح
	Black Histic (A			-		Sandy	Gleye	d Matrix (S4)	-		lox Depress		7)
	Hydrogen Sulf			_			Redox		-		ors for Proble		
	Stratified Laye 2 cm Muck (A			-				rix (S6) y Mineral (F1)			ast Prairie Re -Manganese		
	Depleted Belo	ow Dark Surf	` '	_		Loamy	y Gleye	ed Matrix (F2)	-	Very	y Shallow Da		
Destr	Thick Dark Surictive Layer (if					Deplet	ed Mat	trix (F3)		Othe	er		
Kesu	ICtive Layer (ii	Observeu).	Depth (Inches	s):				Hydric Soil Pre	esent?	Yes	. No	о Х	
	Remarks: ROLOGY												
	and Hydrology												
		Prin	nary Indicators					(DO)	\blacksquare		ondary Ind		
	Surface Water High Water Ta					r Staine tic Faun		ves (B9) 3)		Drainage I	oil Cracks (E Patterns (B1	36) 10)	
Χ	Saturation (A3	3) `´´		7	True A	Aquatic	Plants	(B14)		Dry-Seaso	on Water Ta	able (C2)	
	Water Marks (Sediment Dep							dor (C1) eres on Living Roots			Burrows (C8)		gery (C9)
	Drift Deposits	(B3) ` ´		F	Prese	ence of	Reduce	ed Iron (C4)		Stunted or	r Stressed P	Plants (D1)	
	Algal Mat or C					nt Iron F Muck Si		ion in Tilled Soil (C6)			nic Position ral Test (D5		
			ial Imagery (B7)			e or We				I AC-Neut	iai iesi (D3	,	
	Sparsely Vege	etated Conc			Other			Donath (in all an)					
	<u> </u>	0(\ \ \ \ \ \ \											
Field	Observations:			Yes Yes	X	No No	Х	Depth (inches) 7 Depth (inches)	Hydrol	lov Indicat	ors Presen	t?	
		Water Tab Saturation	ole Present? Present?	Yes Yes	X X	No No		7 Depth (inches) 7 Depth (inches) 7 Depth (inches) 7 ious inspections), if avai	Ī	loy Indicat Yes	tors Presen		

Client:	W. Lancast	er-S. Baltimor	C VV. Willicisport	State: OH		airfield County wnship, Range:	_Date:		S1, T 15N, 1	Point: 59
Investi	igator(s):	L. Vine, E.	.Holt			Landform		oraines	Local Relief	Convex
Slope Soil Ma		1-3 ne: Centersbu	_Lat. 39 irg silt loam, 2 to	9.806567° 6 percent slo	Long pes	-82.612869°	_Datum	NAD83	NWI Class:	N/A
CI	limatic/hydro	ologic condition	ns typical for time	e of year?	Y/N Y					
	Vegetati Vegetati			N or Hy N or Hy		significantly disturbed naturally problematic				
	ormal Circum	nstances Prese		es x						
SUMM	IARY OF FII Hvo		etation Present?	Ves	No X		T			
	,	Hydri	ic Soil Present?	Yes	No X	_			a Wetland?	
		Wetland Hyd	rology Present?	Yes	No X		Yes	No	Х	
VEGE	TATION									
Tree S	Stratum	Plot size:	30'	Absolute % Cover	Dominant Species	Indicator Statu	ıs			
1.				Covei	Species			Don	ninance Test	Worksheet
2.					-	_		Number of	dominant spe	ecies
3. 4.					-	_		that are Or Total numb	BL, FACW, or per of dominar	FAC:
5.						_		species ac	ross all strata:	. <u> </u>
Shrub	Stratum	Plot size:	15'	0	Total Cover				dominant spe BL, FACW, or	4()()()
1.	Rubus alleg	gheniensis		10	<u>Y</u>	FACU	4	Prevalenc	e Index Work	
2. 3.	Mentha X ro	otundifolia		10	Y	FAC	3	Total % OBL speci	% cover <u>of:</u>	
4.					<u> </u>			FACW spe	ecies C	0 x 2 0
5.				20	Tetal Cover	_		FAC speci	es 30	0 x 3 90
Herb S	Stratum	Plot size:	5'	20	Total Cover			FACU species) x 4 <u>240</u>) x 5 0
1.	Setaria fabe	əri		30	Y	FACU	4	Tota	al <u>91</u>	331
	Allium cana	idense cannabinum		20 20	- <u> </u>	FACU FAC	3	 Hvdrophy	Prevalenc tic Vegetation	
4.	71,000,	Juli 11 (20.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					ŭ	Rapi	id Test for Hyd	drophytic Veg.
5. 6.									ninance Test is valence Index i	
7.								Morr	ohological Ada	aptations*
8.				70	Total Cover				lematic Hydrophy	
Woody	√ Vine Stratu	ım_ Plot size:	30'		_ lotal Cove				•	oil and wetland
1.					_	_		,	ogy must be pli isturbed or pro	resent, unless
2.								• u		Dicinatio
۷.				0	Total Cover					tion Present?
F	Remarks:			0	Total Cover				ohytic Vegeta	
		rofile Descrip	otion: (Describe			ument the indicator or	confirn	Hydror Yes	ohytic Vegeta No	tion Present? X
F	P Depth	Ī	Matrix	e to depth ne	eeded to doc	ument the indicator or Redox Featu	ıres	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches)	Color	Matrix %		eeded to doc			Hydrop Yes n absence	ohytic Vegeta No	tion Present? X
F	P Depth	Ī	Matrix %	e to depth ne	eeded to doc	Redox Feat	ures Text	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches)	Color	Matrix %	e to depth ne	eeded to doc	Redox Feat	ures Text	Hydrop Yes n absence	ohytic Vegeta No of indicators.	tion Present? X
F	Depth (inches) 0-18	Color 10YR 4/3	Matrix %	e to depth ne	% Typ	e* Loc**	res Text Si	Hydrop Yes n absence	ohytic Vegeta No of indicators. Remarks	ation Present? X
F	Depth (inches) 0-18	Color 10YR 4/3	Matrix %	e to depth ne	% Typ	Redox Feature* Loc** S=Coated Sand grains S=Coated Sand grain S=Coated Sa	res Text Si	Hydrop Yes n absence	ohytic Vegeta No of indicators.	ation Present? X
SOIL.	Depth (inches) 0-18 *Type	Color 10YR 4/3	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck	Redox Feature* Example Content	res Text Si	Hydrop Yes n absence ture ii.	ohytic Vegeta No of indicators. Remarks are Lining, M=No ox Dark Surface	Matrix ce (F6)
SOIL.	Depth (inches) 0-18 *Type Histosol (A' Histic Epipe	Color 10YR 4/3 :: C=Concentra	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky	Redox Feature* Example Second Se	res Text Si	Hydrop Yes n absence ture iiL tion: PL=Po Red Depi	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surface leted Dark Sur	Matrix ce (F6) rface (F7)
SOIL.	Depth (inches) 0-18 *Type	Color 10YR 4/3 :: C=Concentra 1) edon (A2) : (A3)	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky	Redox Feature* S=Coated Sand grains	res Text Si	Hydrop Yes n absence ture iii tion: PL=Po Red Depp Red	ohytic Vegeta No of indicators. Remarks re Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface	Matrix ce (F6) rface (F7)
F SOIL	P Depth (inches) 0-18 *Type Histosol (A* Histic Epipe Black Histic Hydrogen S Stratified La	Color 10YR 4/3 :: C=Concentra i) edon (A2) :: (A3) sulfide (A4) ayers (A5)	Matrix %	e to depth ne	% Typ % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky 5andy Gleye Sandy Redo Stripped Ma	Redox Feature* Example Second Sand Grains	res Text Si	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicato Coa:	of indicators. Remarks Tre Lining, M=N OX Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16)
F SOIL	PDepth (inches) 0-18 *Type Histosol (A* Histic Epiper Black Histic Hydrogen S Stratified La* 2 cm Muck	Color 10YR 4/3 :: C=Concentra i) edon (A2) c: (A3) gulfide (A4) ayers (A5) (A10)	Matrix %	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) ty Mineral (F1)	res Text Si	Hydron Yes In absence ture tion: PL=Po Red Depp Red Indicato Coac Iron-	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface rox Depression ors for Problema st Prairie Redce Manganese N	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12)
F SOIL	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) Bayers (A5) (A10) elow Dark Surface (A12)	Matrix % ation, D=Depletion face (A11)	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	res Text Si	Hydron Yes In absence ture tion: PL=Po Red Depp Red Indicato Coac Iron-	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface leted Dark Surface st Prairie Redce Manganese No or Shallow Dark	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16)
F SOIL	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark	Color 10YR 4/3 :: C=Concentra () c (A3) Sulfide (A4) sayers (A5) (A10) elow Dark Surf	Matrix % ation, D=Depletion face (A11) : Type:	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicate Coa: Iron- Very Othe	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) as (F8) atic Hydric Soils ox (A16) Masses (F12) c Surface (F12)
F SOIL Restric	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Bo Thick Dark ctive Layer Remarks:	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) Bayers (A5) (A10) elow Dark Surface (A12)	Matrix % ation, D=Depletion face (A11)	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat of Matrix (S4) x (S5) trix (S6) xy Mineral (F1) ed Matrix (F2)	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depl Red Indicate Iron- Very	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12)
Restric	*Type #Type #Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY	Color 10YR 4/3 :: C=Concentra i) edon (A2) :: (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed):	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gleye	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depi Red Indicate Coa: Iron- Very Othe	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) as (F8) atic Hydric Soils ox (A16) Masses (F12) c Surface (F12)
Restric	*Type #Type #Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY	Color 10YR 4/3 10YR 4/3 10YR 4/3 10YR 4/3 11 10 11 10 11 11 11 12 13 14 15 16 17 17 18 18 18 18 18 18 18 18	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	e to depth ne	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gley	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Red Depl Red Indicate Coae Iron Very Othe Yes	ohytic Vegeta No of indicators. Remarks ore Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problema st Prairie Redo Manganese M Shallow Dark er	Matrix ce (F6) rface (F7) s (F8) at Hydric Soils ox (A16) Masses (F12) x X
Restric	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark Ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Gulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): gy Indicators: Prin ater (A1)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	c to depth ne Color Color On, RM=Redu (check all th Water	meded to doc % Typ white the control of the contr	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depp Redd Indicato Coas Iron Very Othe Yes Sec Surface So	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfox Depression ors for Problem ast Prairie Redo Manganese N ox Shallow Dark er No ondary Indica oil Cracks (B6)	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) X attors
Restric	*Type Histosol (Af-Histic Epipe Black Histic Hydrogen S-Stratified La-Z cm Muck Depleted Brank Ctive Layer Remarks: OLOGY nd Hydrolog	Color 10YR 4/3 :: C=Concentra 1) edon (A2) :: (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	c to depth ne Color Color On, RM=Redu (check all the Water Aquati	eeded to doc % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depl Redd Indicato Coa: Iron Very Othe Yes Sec Surface Sc Drainage F	ohytic Vegeta No of indicators. Remarks Tre Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) s (F8) atic Hydric Soils ox (A16) Masses (F12) X Ators
Restric F HYDR	*Type Aistosol (A' Histic Epipe Black Histic Hydrogen Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Walth Water Saturation (Water Mark	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) sulfide (A4) ayers (A5) (A10) elow Dark Surface (A12) (if observed): Prin ater (A1) Table (A2) A3) is (B1)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	check all the Water Aquati Hydro	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr ves (B9) 3) 6 (B14) Odor (C1)	**Locat	Hydrof Yes In absence Iture ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surface leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) attic Hydric Soils ox (A16) Masses (F12) x x attors e (C2)	
Restric F HYDROWELL	PDepth (inches) 0-18 *Type Histosol (A'Histic Epipe Black Histic Hydrogen Stratified Lazer Muck Depleted Bothick Dark Ctive Layer Remarks: OLOGY and Hydrolog Surface Walter Mark Sediment Depth Sedim	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (A) Eddon (A2) (A3) Sulfide (A4) Edgy Indicators: Prin Stater (A1) Table (A2) A3) State (B1) Deposits (B2)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	check all the Water Aquater True A Hydro Oxidiz	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply) Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ed Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr ves (B9) 3) s (B14) dor (C1) eres on Living Roots	**Locat	Hydrop Yes n absence ture tion: PL=Po Redd Depl Redd Indicate Coas Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation	ohytic Vegeta No of indicators. Remarks The Lining, M=No ox Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) s (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9)
Restric F HYDRO Wetlar	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark Ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o	Color 10YR 4/3 10YR 4/3 11 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 18 C=Concentra 19 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 10 C=Concentra 11 C=Concentra 11 C=Concentra 12 C=Concentra 12 C=Concentra 13 C=Concentra 14 C=Concentra 15 C=Concentra 16 C=Concentra 17 C=Concentra 17 C=Concentra 18 C=Concentra 18 C=Concentra 10 C	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches):	cto depth ne	meded to doc % Typ weeked to doc % Typ weeked Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Mucl Loamy Gley Depleted Ma at apply) To Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide O red Rhizosph ince of Reduch to Iron Reduch	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks The Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlar	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o Iron Deposi	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): rable (A2) A3) is (B1) is (B3) r Crust (B4) ts (B5)	Matrix % ation, D=Depletion face (A11) Type: Depth (Inches): mary Indicators	cto depth ne	meded to doc % Typ % Typ loced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) T Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph nce of Reduc t Iron Reduc Muck Surface	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks Pre Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY nd Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation	Color 10YR 4/3 : C=Concentra 1) edon (A2) : (A3) Sulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): rable (A2) A3) is (B1) is (B3) r Crust (B4) ts (B5)	Matrix % ation, D=Depletion face (A11) : Type: Depth (Inches): mary Indicators	cto depth ne	ced Matrix, C Hydric Soil Sandy Muck Sandy Gleye Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma Total Aquatic Plant Igen Sulfide C ted Rhizosph nce of Reduc Muck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: Indic	**Locat	Hydrof Yes n absence ture tion: PL=Po Redd Depi Redd Indicato Coa: Iron- Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ohytic Vegeta No of indicators. Remarks The Lining, M=N OX Dark Surfact leted Dark Sur	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type *Type *Type *Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Ve	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (i) edon (A2) (A3) (ulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	face (A11) : Type: Depth (Inches): nary Indicators ial Imagery (B7) cave Surface (ater Present?	check all the Water Aquati True A Hydro Oxidiz Prese Recer Thin M Guage Other Yes	ceded to doc % Typ ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma at apply) r Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph nce of Reduc Muck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) ty Mineral (F1) ed Matrix (F2) ttrix (F3) Hydric Soil Pr Wes (B9) 3) s (B14) Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9) Depth (inches)	esent?	Hydrof Yes n absence ture tion: PL=Po Red Depl Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact story Problems st Prairie Redc Manganese N ondary Indica Dark Surfact leter No ondary Indica Dark Surfact No ondar	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)
Restrice F HYDRO Wetlan	*Type *Type *Type *Type Histosol (A' Histic Epipe Black Histic Hydrogen S Stratified La 2 cm Muck Depleted Be Thick Dark ctive Layer Remarks: OLOGY Ind Hydrolog Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Ve	Color 10YR 4/3 Color 10YR 4/3 CE-Concentra (i) edon (A2) (A3) (ulfide (A4) ayers (A5) (A10) elow Dark Surf Surface (A12) (if observed): Prin ater (A1) Table (A2) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	Matrix % face (A11) : Type: Depth (Inches): nary Indicators fater Present? le Present?	check all the Water Aquati True A Hydro Oxidiz Preser Recer Thin M Guage Other	ced Matrix, C Hydric Soil Sandy Muck 5cm Mucky Sandy Gleye Sandy Redo Stripped Ma Loamy Mucl Loamy Gley Depleted Ma at apply) T Stained Lea ic Fauna (B1 Aquatic Plant gen Sulfide C ted Rhizosph ince of Reduc fuck Surface e or Well Dat	Redox Feature* S=Coated Sand grains Indicators: y Mineral (S1) Peat or Peat ad Matrix (S4) x (S5) trix (S6) trix (S6) trix (F3) Hydric Soil Pr Wes (B9) 3) S (B14) Odor (C1) teres on Living Roots ed Iron (C4) tion in Tilled Soil (C6) (C7) a (D9)	esent?	Hydrof Yes n absence ture tion: PL=Po Red Depl Red Indicate Iron Very Othe Yes Sec Surface Sc Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	ohytic Vegeta No of indicators. Remarks are Lining, M=N ox Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact leted Dark Surfact set Prairie Redc Manganese N or Shallow Dark leter No ondary Indica oil Cracks (B6) Patterns (B10) In Water Table urrows (C8) Visible on Aer Stressed Plar ic Position (D2 al Test (D5) ors Present?	Matrix ce (F6) rface (F7) ss (F8) atic Hydric Soils ox (A16) Masses (F12) x ators e (C2) rial Imagery (C9) nts (D1)

Client: Invest Slope Soil M C	tigator(s): (%): lap Unit Name: Climatic/hydrolo Vegetatior Vegetatior ormal Circumsi	AEP N. Houk, N 1-3 Benningtor gic conditior N N tances Prese	I. Barnett Lat. n silt loam, 0 tons typical for tin, Soil	State 39.803 2 perc	: OH 787 ent slop ear? or Hy	Long. es Y/N drology	on, Tov	airifeld County vnship, Range: Landforr -82.615001 significantly disturbed naturally problematic	m M Datum	27 March Sec oraines NAD83	2024 Data P S2, T 15N, R 19 Local Relief NWI Class:	oint: 9W Conv N/A	
SUMIN	-	ophytic Vege Hydri	etation Present' ic Soil Present' rology Present'	? Yes		No No No	Х Х Х	_	Is the Yes	DP within a	a Wetland?		
Rema	ırks:	veliana riyu	ology i resent	: 165		INO	X		162	NO			
VEGE	TATION			Δhsc	olute %	Don	ninant						
1. 2. 3. 4. 5.		Plot size:			over		ecies	Indicator Stat	us	Number of that are OE Total numb	ninance Test W dominant spec BL, FACW, or F per of dominant ross all strata:	es	1 2
	Stratum	Plot size:	15'		0	Total C	Cover			Percent of that are OF Prevalence	dominant speci BL, FACW, or F e Index Works 6 cover of: es cies 0 50	AC: _	50.00 0 100 0
	Stratum Elymus virgin Brassica napu Setaria faberi Lamium purpu Taraxacum oi	us ureum	5'		0 50 20 15 10 5		Y Y N N	FACW UPL FACU UPL FACU	2 5 4 5 4	FACU species UPL species Tota Hydrophyt Rapi Dom Prev Morp	cies 20 30 1 100 Prevalence ic Vegetation of Test for Hydrinance Test is alence Index is bhological Adap	x 4 x 5 Index: Indicator ophytic V >50% ≤3.0* tations*	80 150 330 3.30 ss: eg.
1. 2.	ly Vine Stratum	_ Plot size:	30'	1	0	Total C				*Indicate hydrolo di	ematic Hydrophyti ors of hydric so ogy must be pre sturbed or prob ohytic Vegetati No	I and wet sent, unli lematic	tland ess
SOIL	Pro	file Descrip	tion: (Descri	oe to d	epth ne	eded t	o docı	ment the indicator o	r confirn	n absence	of indicators.)		
	Depth		Matrix		-			Redox Feat	tures		•		
	(inches)	Color	%	С	olor	%	Турє	e* Loc**		ture	Remarks		
	0-4 4-18	10YR 3/4 10YR 4/3	100 100							CL CL			
	4-10	10111 4/3	100						31 (
	*Type: (C=Concentra	tion, D=Deplet	ion, RN	/I=Redu			S=Coated Sand grains	**Loca	tion: PL=Po	re Lining, M=Ma	atrix	
	Histosol (A1)							ndicators: Mineral (S1)		Redo	ox Dark Surface	(F6)	
	Histic Epipedo Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo	A3) fide (A4) ers (A5) a10) ow Dark Surf				5cm M Sandy Sandy Strippe Loamy Loamy	lucky É Gleyed Redox ed Matr Mucky Gleye	eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron- Very	eted Dark Surfa ox Depressions rs for Problemat st Prairie Redox Manganese Ma Shallow Dark S	ace (F7) (F8) ic Hydric ((A16) sses (F1	2)
Doctri	Thick Dark Suictive Layer (if					Deplet	ed Mat	rix (F3)		Othe	r		
เงองแ	.ouve Layer (II	Justi veu).	Depth (Inches):				Hydric Soil P	resent?	Yes	No	x	
	Remarks:		•	•				•					
	ROLOGY and Hydrology	Indicators:											
Wella	ilia Hyarology			s (chec	k all th	at appl	v)			Seco	ondary Indicate	ors	
	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface				Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Staine ic Faun Aquatic gen Su ed Rhiz nce of I nt Iron F Juck Su e or We	d Leav a (B13 Plants Ifide Oo zosphe Reducti Irface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	oil Cracks (B6) Patterns (B10) In Water Table (Irrows (C8) Visible on Aeria Stressed Plant Ic Position (D2) Id Test (D5)	C2) al Imager	y (C9)
Field	Observations			Yes		No	Х	Depth (inches)	Libraria	المايدة	Dr		
		Saturation		Yes Yes		No No	X X	Depth (inches) Depth (inches)	-	loy Indicato Yes	ors Present? No	x	
Descr	ibe Recorded I	Data (stream	guage, monito	oring we	ell, aeria	al photo	s, prev	ious inspections), if av	ailable:				

Client: Invest Slope Soil M C	igator(s): (%): lap Unit Name: limatic/hydrolo Vegetation Vegetation	AEP N. Houk, N 1-3 Centersburgic condition N N	I. Barnett Lat. rg silt loam, 2 to the typical for time, Soil , Soil	39.796 o 6 per ne of ye N	: OH 059 cent slo ear? or Hy or Hy	Long. pes, ero Y/N drology drology	ded Y N	irfield County /nship, Range: Landform -82.620611 significantly disturbed naturally problematic	n <u>M</u> Datum		2024 Data 311, T 15N, F Local Relie NWI Class:	19W C	52 onvex N/A
	ormal Circumst MARY OF FIND Hydro	INGS	ent? tation Present	Yes ? Yes	X	No No	Х	-					1
	W	Hydri	c Soil Present rology Present	? Yes		No No	X	-	Is the Yes	DP within a	Wetland?		
Rema VFGF	rks: TATION												
	Stratum_	Plot size:			olute % over	Spe		Indicator Statu	ıs	Number of	ninance Test dominant spo BL, FACW, or er of domina	ecies	neet 1 3
5. <u>Shrub</u> 1. 2.	Stratum Rubus alleghe	Plot size: eniensis	15'		0	Total C	over	FACU	4	Percent of that are OF Prevalence	ross all strata dominant spe BL, FACW, or e Index Worl 6 cover of:	cies FAC:	33.33
3. 4. 5.					20	Total C	over			OBL specie FACW specie FAC specie FACU specie	es 5 cies 5 es 6	x 1 x 2 x 3 x 4	0 100 0 260
1. 2. 3. 4. 5. 6. 7.	Stratum Carex vulpino Schedonorus Cyperus escu Symphyotrich Daucus carota	arundinaceu lentus um ericoide:	JS S		40 35 10 10 5	\	1	FACW FACU FACU UPL	2 4 2 4 5	Rapi Dom Prev Morp	Prevalence ic Vegetation d Test for Hy inance Test i alence Index hological Ad-	te Index Indicate Indica	tors: c Veg.
1. 2.	y Vine Stratum	Plot size:	30'	1	0	Total C				*Indicato hydrolo di	ematic Hydrophors of hydric sogy must be psturbed or prohytic Vegeta	soil and resent, oblemati	wetland unless c
SOIL													
	Depth Pro		ition: (Descri Matrix	be to d	epth ne	eded to	docu	ment the indicator or Redox Feat		n absence	of indicators	.)	
	(inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remarks		
	0-14	10YR 4/1	100	40)	/D F/0	-			Si (-			
	14-18	10YR 4/1	95	101	'R 5/6	5	С	M	Si (J L			_
	*Type: C	C=Concentra	ation, D=Deple	tion, RN	∕l=Redu			=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=	Matrix	
	Histosol (A1) Histic Epipedo Black Histic (A					Sandy I 5cm Mu	Ииску icky Р	ndicators: Mineral (S1) eat or Peat I Matrix (S4)		Depl	ox Dark Surfa eted Dark Su ox Depression	rface (É	7)
	Hydrogen Sulta Stratified Laye 2 cm Muck (A Depleted Belo	fide (A4) ers (A5) .10) ow Dark Surf				Sandy I Stripped Loamy Loamy	Reďox d Matri Mucky Gleyed	(S5) ix (S6) Mineral (F1) d Matrix (F2)		Indicato Coas Iron- Very	rs for Problem at Prairie Red Manganese M Shallow Darl	atic Hydi ox (A16) //asses () (F12)
Restri	Thick Dark Suictive Layer (if		Type:	. ———		Deplete	d Mati			Othe			
	Remarks:		Depth (Inches	5):				Hydric Soil Pr	esent?	Yes	No	Х	
HYDR	OLOGY												
Wetla	nd Hydrology			- /-b	l. all 4b	-4				Can			
	Sparsely Vege	r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) sible on Aerietated Conc			Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained Stained Fauna Aquatic Fauna Sulf gen Sulf ed Rhizonce of Route Fauna Route Sulf e or Wel	Leave (B13) Plants ide Ocospher educe eduction face ((B14) dor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seaso Crayfish Bu Saturation Stunted or Geomorphi	ondary Indication (B10) atterns (B10) atterns (B10) arrows (C8) Visible on Ae Stressed Place Position (Dal Test (D5)) e (C2) rial Imaç nts (D1)	gery (C9)
	Observations: ibe Recorded D	Water Tab Saturation	le Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No Il photos	x x x , previ	Depth (inches) Depth (inches) Depth (inches) ous inspections), if ava		loy Indicato Yes	ors Present? No	х	

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Amanda si gic condition N N ances Prese	I. Barnett Lat. It loam, 2 to 6 as typical for ti , Soil , Soil	State 39.794 percent	: OH 865 slopes ear? or Hy	Long. , eroded Y/N rdrology rdrology	1 Y N	rnship, Range: Landfo -82.621345 significantly disturbe naturally problemati	Datum ed		n 2024 <u>Data Po</u> S11, T 15N, R 19 <u>Local Relief</u> NWI Class: _	
SUMM	-	phytic Vege Hydri	tation Presen c Soil Presen rology Presen	t? Yes	X	No No No	X	<u> </u>	Is the Yes	DP within	a Wetland?	
Remar	ks:	reliand riyul	ology i resem	: 168		INO	X		ites	NO	^	
VEGE	TATION			Abco	lute %	Dom	inant					
1. 2. 3. 4.		Plot size:			over		ecies	Indicator Sta	atus	Number of that are O Total num	minance Test Wo dominant specie BL, FACW, or FA ber of dominant	s o
5.					0	Total C	over			species ac Percent of	ross all strata: dominant specie	s
1. 2. 3. 4.	Stratum Rubus occend	Plot size: dentalis	15'		10	,		UPL	5	that are O Prevalence Total O OBL speci FACW spe	BL, FACW, or FA ce Index Worksh % cover of: es	C: 0.00 eet 0.00 c 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.	Stratum Bromus inerm		5'		10 30 30	Total C	over Y	FACU FACU	4	FAC speci FACU speci UPL speci Tota	cies <u>95</u> x es <u>10</u> x	380 5 5 430
3. 4. 5. 6. 7.	Setaria faberi Solidago cana Allium vineale	adensis			30 30 5		Y N	FACU FACU FACU	4 4 4	Rap Dom Prev Mor	tic Vegetation In id Test for Hydror in ance Test is >5 /alence Index is ≤ phological Adapta lematic Hydrophytic	dicators: bhytic Veg. 50% 3.0* ations*
8. <u>Woody</u> 1. 2.	/ Vine Stratum	Plot size:	30'		95	Total C				*Indicat hydrol d	cors of hydric soil ogy must be pres isturbed or proble phytic Vegetatio	and wetland ent, unless ematic
	Remarks:					. 014. 0				Yes		x
SOIL	Pro	file Descrin	tion: (Descr	ihe to d	enth ne	eded to	docu	ment the indicator	or confirm	n absence	of indicators)	
	Depth	Ī.	Matrix		•			Redox Fe	atures		•	
	(inches) 0-18	Color 10YR 4/1	% 95		olor 'R 5/6	5	C	* Loc** M		ture i L	Remarks	
	*Type: C	=Concentra	ation, D=Deple	etion, RN	/I=Redu			=Coated Sand grain ndicators:	s **Loca	tion: PL=Pc	ore Lining, M=Mat	rix
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A	A3) fide (A4) ers (A5) 10)				Sandy 5cm M Sandy Sandy Strippe Loamy	Mucky ucky P Gleyed Redox d Matri Mucky	Mineral (S1) eat or Peat I Matrix (S4) (S5) ix (S6) Mineral (F1)		Dep Red Indicate Coa	ox Dark Surface (leted Dark Surface ox Depressions (lors for Problematic st Prairie Redox (-Manganese Mas	e (F7) F8) Hydric Soils (A16) ses (F12)
	Depleted Belo Thick Dark Su				X	Loamy	Gleyed ad Mati	d Matrix (F2)		Very Othe	/ Shallow Dark Su	urface (F12)
Restri	ctive Layer (if	observed):	Type:	,		Dopict	Ja Mati					
-	Remarks:		Depth (Inche	s):				Hydric Soil	Present?	Yes	x No	
HYDR	OLOGY											
Wetlar	nd Hydrology						,					
	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface ield Observations: Surface Water Present?			7)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained Stained Stained Aquatic Gen Sul Stained Rhiz nce of Fort Iron Ruck Sue or We	d Leave a (B13) Plants fide Oc cospher Reduce reduction	(B14) lor (C1) es on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage I Dry-Seaso Crayfish B Saturation Stunted or Geomorph	ondary Indicator bil Cracks (B6) Patterns (B10) on Water Table (Courrows (C8) Visible on Aerial Stressed Plants bic Position (D2) ral Test (D5)	(2) Imagery (C9)
		Water Table Saturation	le Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No al photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ous inspections), if a		loy Indicat Yes	ors Present? No	x

Client: AEP State: OH Section, Township, Range: Investigator(s): N. Houk, N. Barnett Landform T	27 March 2024 Data Point: 48 Sec S11, T 15N, R 19W ill Plains Local Relief Convex n NAD83 NWI Class: N/A
Hydrophytic Vegetation Present? YesNox_	DP within a Wetland?
Remarks:	140 4
VEGETATION Absolute % Dominant	
Tree Stratum Plot size: 30' Cover Species Indicator Status 1	Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC: Total number of dominant species across all strata:
O Total Cover Shrub Stratum Plot size: 15' 2 N UPL 5 2. 3.	Percent of dominant species that are OBL, FACW, or FAC: Prevalence Index Worksheet Total % cover of: OBL species 0 x 1 0
4. 5. 2 Total Cover Herb Stratum Plot size: 5' 40 Y FACU 4	FACW species 0 x 2 0 FAC species 0 x 3 0 FACU species 95 x 4 380 UPL species 7 x 5 35 Total 102 415
2. Schedonorus arundinaceus 30 Y FACU 4 3. Setaria faberi 25 Y FACU 4 4. Daucus carota 5 N UPL 5 5.	Prevalence Index: 4.07 Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Veg. Dominance Test is >50% Prevalence Index is ≤3.0* Morphological Adaptations*
8	Problematic Hydrophytic Vegetation* *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Present?
Remarks:	Yes No x
SOIL Profile Description: (Describe to depth needed to document the indicator or confir	
Depth Matrix Redox Features	m absence of indicators.)
()	kture Remarks Si L
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Coated Sand grains **Loca Hydric Soil Indicators:	ation: PL=Pore Lining, M=Matrix
Histosol (A1) Sandy Mucky Mineral (S1) Histic Epipedon (A2) Standy Gleyed Matrix (S4) Sundy Redox (S5) Stratified Layers (A5) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Indicators for Problematic Hydric Soils Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Very Shallow Dark Surface (F12) Other
Restrictive Layer (if observed): Type: Depth (Inches): Hydric Soil Present?	Yes No x
Remarks:	TCS NO A
HYDROLOGY Wetland Hydrology Indicators:	
Primary Indicators (check all that apply)	Secondary Indicators
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Recent Iron Reduction In Thied Soli (C6) Thin Muck Surface (C7) Guage or Well Data (D9) Other	Geomorphic Position (D2) FAC-Neutral Test (D5)

Client: Investig Slope (Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersbuigic condition N N tances Prese	Lat. 3 irg silt loam, 2 to ns typical for tim , Soil , Soil	State: 39.7839 o 6 perc	: OH 994 cent slo ear? or Hy	Long opes, er Y/N odrology odrology	oded Y N	vnship, Range: Landform -82.624965 significantly disturbed naturally problematic	Mo	27 March Sec S oraines NAD83	n 2024 <u>D</u> . S11, T 15N Local Re NWI Cla	I, R 19W elief	Convex N/A
JOIVIIVI	Hydro	ophytic Vege Hydri	etation Present? ric Soil Present? rology Present?	? Yes		No No No	X 		Is the	DP within a	a Wetland	?	
Remar	ks:	volidi la l'iyal	ology i resent.	163		INU			1163	140	^		
	TATION			Absc	lute %	Dor	ninant						
1. 2. 3. 4. 5.		Plot size:			over	Spo	ecies	Indicator Statu	IS	Don Number of that are OI Total numl species ac Percent of	BL, FACW per of dom	species , or FAC: inant	0
Shrub 1. 2. 3. 4. 5.		Plot size:				Total (that are OI Prevalence Total 9 OBL speci FACW speci FAC speci	BL, FACW e Index W cover of: es ecies es	or FAC: orksheet 0 x 1 0 x 2 0 x 3	0 0 0 0 0
1. 2. 3. 4. 5. 6. 7.	Stratum_ Schedonorus Lamium purpu Stellaria medi Taraxacum ol Trifolium repe	ureum ia fficinale	us		0 40 30 20 10		Y Y Y N N	FACU UPL FACU FACU FACU	4 5 4 4	Dom Prev Morr	es al Preval tic Vegeta id Test for ninance Te valence Ind phological	Hydrophy st is >50% lex is <u><</u> 3.0 Adaptatio	5 150 470 4.27 cators: rtic Veg. % 0*
1. 2.	Vine Stratum	_ Plot size:	30'		0	Total (*Indicat hydrolo d	lematic Hydrors of hydrogy must bisturbed or phytic Veg	ic soil and e present problema jetation F	d wetland t, unless atic Present?
3012				e to d	epth ne	eded t	o docu	ment the indicator or		n absence	of indicate	ors.)	
	Depth (inches)	Color	Matrix %		olor	%	Type	Redox Feature* Loc**	ıres Text	furo	Rema	rko	
	(inches) 0-18	10YR 4/3			DIOI	/0	Турс	S LOC	Si		Nema	IKS	
		<u> </u>		+			+						
[*T./po: (Cancontre	L'ar D Donlot	' DA	1 Dadu	d N/c	- CC	Castad Condigrains	**! 0001	'' DI - Do	Linina I	A Motrix	
	Histosol (A1)		ation, D=Depleti	on, RM		Hydri Sandy	c Soil I Mucky	S=Coated Sand grains Indicators: Mineral (S1)	**Locat		ox Dark Su	ırface (F6	5)
	Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ctive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surf urface (A12)	. ,			Sandy Sandy Strippe Loamy	Gleyed Redox ed Matr Mucky	rix (Ś6) / Mineral (F1) d Matrix (F2)		Red Indicate Coa: Iron-	leted Dark ox Depress ors for Prob st Prairie R Manganes Shallow D	sions (F8) lematic Hy Redox (A1 se Masses	odric Soils 6) s (F12)
			Depth (Inches)	<u>):</u>				Hydric Soil Pre	esent?	Yes	N	o x	
	Remarks: OLOGY												
	nd Hydrology						$\overline{}$						
	Sparsely Vege	er (A1) able (A2) 3) (B1) oossits (B2) (B3) Crust (B4) (B5) sible on Aerie)	Water Aquati True A Hydrog Oxidiz Preser Recen Thin M	r Staine lic Faun Aquatic ligen Su ligen Rhi ligence of l light Iron F Muck Si ligen or We	ed Leave Plants Plants Ilfide Od zosphe Reducte Reducti urface (ell Data	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish B	Patterns (B n Water Ta urrows (C8 Visible on Stressed I ic Position	(B6) 10) able (C2) 3) Aerial Im Plants (D' (D2)	agery (C9)
	Observations: be Recorded [Water Tab Saturation	ole Present? Present?	Yes Yes Yes oring we	ell, aeria	No No No al photo	x x x os, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicate Yes			

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumst	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	I. Barnett Lat. 3 Ilty clay loam, 6 as typical for tim , Soil 1 , Soil 1	State: 39.78078 to 12 pe	789 ercent ar? or Hy	Long slopes Y/N rdrology rdrology	J. s, severe Y	wnship, Range: Landform -82.625887 ely eroded significantly disturbed naturally problematic		Sec S14,	24 Data Poir , T 15N, R 19V ocal Relief WI Class:	
SUMIN	-	phytic Vege Hydri	etation Present? ic Soil Present?	Yes		_No _No	X	_	Is the	DP within a W	etland?	
Remar			rology Present?			No	Х		Yes	No	X	
	TATION											
Tree S	Stratum	Plot size:	30'	Absolu Cov			minant ecies	Indicator Status	s			
	Juglans nigra				0		Y	FACU	4		ince Test Woi	
2. 3. 4. 5.						 				Number of dor that are OBL, I Total number of species across	FACW, or FAC of dominant	C:
	=				0	Total 0	Cover			species across Percent of don		
	Stratum Juglans nigra	Plot size:	15'	3	80		Υ	FACU	4	that are OBL, I Prevalence In	- , -):
2.	Rosa multiflora	a		2	25		Ÿ	FACU	4	Total % co	over of:	
3. 4.	Rubus caesius	<u>s</u>			20		Y	FACU	4	OBL species FACW species		2 40
5.				7	' 5	Total 0	Cover			FAC species FACU species		4 580
	Stratum Bromus inerm	Plot size:	5'	5	50		Υ	EACH	4	UPL species Total	20 x	
1. 2.	Conium macu			20	20		Y	_ <u>FACU</u> FACW	<u>4</u> 2		Prevalence In	
3.	Lilium lancifoli				0		Y N	UPL	5	Hydrophytic \		dicators:
4. 5.	Allium vineale				0	- —	IN	FACU	4		est for Hydropl nce Test is >50	
6.										Prevaler	nce Index is <3	3.0*
7. 8.						- —					ogical Adaptat tic Hydrophytic V	
		=		10	00	Total 0	Cover				of hydric soil a	ı .
Woody 1.	Vine Stratum	Plot size:	30'							hydrology	must be prese	ent, unless
2.						· ——					bed or probler	
F	Remarks:	Т			0	Total (Cover			Hydrophyt Yes	ic Vegetation No	Present?
SOIL			Cara /Decerile	- to do	th me	(<u> </u>	······································	flum			
	Depth		Matrix	e to ue	ptn ne	eaeu ı	.0 aocu	ıment the indicator or or Redox Featu		1 absence of i	naicators. _j	
	(inches) 0-18	Color 10YR 3/3	% 100	Co	olor	%	Турє	e* Loc**	Text Si		Remarks	
	U-16	101K 3/3	100	+			+	_	JI	L		
				1			1					
				+		-	+					
'	*Type: C	:=Concentra	tion, D=Depleti	on, RM:	=Redu				**Locat	tion: PL=Pore L	ining, M=Matri	ix
	Histosol (A1)							Indicators: / Mineral (S1)		Redox D	ark Surface (F	-6)
	Histic Epipedo			-		⁻5cm ĺv	Ииску Р	Peat or Peat		Depleted	d Dark Surface	e (F7)
	Black Histic (A Hydrogen Sulf						/ Gleyed / Redox	d Matrix (S4) ((S5)			epressions (F or Problematic I	
	Stratified Lave	ers (À5)		-		Strippe	ed Matr	rix (S6)		Coast P	rairie Redox (A	\16)
	2 cm Muck (A Depleted Belo	10) ւw Dark Surf	iace (A11)					y Mineral (F1) d Matrix (F2)			nganese Mass allow Dark Sur	
	Thick Dark Su	ırface (A12)				Deple	ted Mat	rix (F3)		Other	unon 2a 2.	1400 (,
Restri	ctive Layer (if		: Type: Depth (Inches):					Hydric Soil Pre	-sent?	Yes	No	x
	Remarks:		Deptir (inonoc)					I II Junio Com		166	110	
	OLOGY nd Hydrology	Indicators:										
		Prim	nary Indicators								ary Indicators	3
	Surface Water High Water Ta						ed Leav			Surface Soil C Drainage Patte		
	Saturation (A3	3) `´			True A	Aquatic	Plants	(B14)		Dry-Season W	ater Table (C2	2)
	Water Marks (Sediment Dep							dor (C1) eres on Living Roots		Crayfish Burro Saturation Visi		magary (CQ)
	Drift Deposits	(B3)			Preser	nce of	Reduce	ed Iron (C4)		Stunted or Stre	essed Plants (D1)
	Algal Mat or C				Recen	nt Iron F		on in Tilled Soil (C6)		Geomorphic P FAC-Neutral T		
			al Imagery (B7)				ell Data			FAC-Neutiai i	est (D5)	
	Sparsely Vege	etated Conc	ave Surface		Other							
Field (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hvdrol	loy Indicators	Present?	
Danasi	ba Dasandad F	Saturation		Yes	II. a a nia	No	Х	Depth (inches)	_	Yes		х
Descri	be Recorded D	ata (stream	guage, monitor	ring wei	i, aeria	a pnote	s, prev	ious inspections), if avai	liable:			

Site: Client:		r-S. Baltimore-W.		City/County:		Fai	irfield County /nship, Range:	_Date:	27 Marcl	h 2024 Data Poi S14, T 15N, R 19	
Invest	tigator(s):	L. Vine, E.Holt					Landform		ll Plains	Local Relief	Convex
Slope Soil M	làp Unit Name:	Lat. : Amanda silt loar	m, 2 to 6 pe	9.776710° ercent slopes	Long.	·	-82.627371°	_Datum	NAD83	_ NWI Class:	N/A
C	Climatic/hydrolo	ogic conditions typ	oical for time	e of year?	Y/N	Y	1 10 0 0 0				
	Vegetation Vegetation		1 <u>r</u>		ydrology ydrology		significantly disturbed naturally problematic				
	lormal Circums	stances Present?	• -	es x							
SUMIN	MARY OF FINE Hydro	DINGS ophytic Vegetation	Present?	Yes	No	Х		Т			
	•	Hydric Soi	il Present?	Yes	No		, -			a Wetland?	
	v	Wetland Hydrology	/ Present?	Yes	No	X		Yes	No	X	
VEGE	TATION			A11-4-0/	2				T		
Tree S	Stratum_	Plot size: 30'		Absolute % Cover		ninant ecies	Indicator Statu	ıs			
1.										minance Test Wo	
2. 3.					- —					f dominant specie	
3. 4.							·		Total num	BL, FACW, or FA ber of dominant	.C:
5.			:		- 	2			species ac	cross all strata: dominant specie:	
Shrub	Stratum	Plot size: 15'	-		_Total C	Jovei				BL, FACW, or FA	
1.									Prevalenc	e Index Worksh	
2. 3.									OBL speci	% cover <u>of:</u> ies	(1 1
4.		-	 -				· · · · · · · · · · · · · · · · · · ·		FACW spe	ecies 0 x	(2 0
5.					Total C	over			FAC speci FACU spe		
	Stratum_	Plot size: 5'			_				UPL speci	es 0 x	(5 0
1. 2.	Schedonorus Trifolium repe	s arundinaceus ens		<u>50</u> 30		<u>Y</u> Y	FACU FACU	4	Tota	al <u>101</u> Prevalence II	401 ndex: 3.97
3.	Plantago land	ceolata		15		N	FACU	4		tic Vegetation In	dicators:
4. 5.	Taraxacum o	fficinale		5		N	FACU	4		oid Test for Hydron ninance Test is >5	
6.			<u> </u>		- —		· 			valence Index is <	
7.										phological Adapta	
8.			<u> </u>	100	Total C	Cover				lematic Hydrophytic tors of hydric soil	· ·
	y Vine Stratum	n_Plot size: 30'			-					ogy must be pres	
1. 2.							•		,	listurbed or proble	
	December,			0	Total C	Cover				phytic Vegetation	
SOIL	Remarks:								Yes	No	X
				e to depth ne	eeded to	o docu	ment the indicator or		n absence	of indicators.)	
	Depth (inches)	Matrix Color	x %	Color	%	Type	Redox Featu	ures Text	ture	Remarks	\dashv
	` '					1				soil pit taken, pas	sture
		+ +		 	+	-	-	+			
						1					
	*Type:	C=Concentration.	D=Depletic	on, RM=Redu	iced Ma	trix. CS	=Coated Sand grains	**I ocat	tion: PL=Po	ore Lining, M=Mat	rix
			D-20p	211, 13 1	Hydrid	c Soil Ir	ndicators:			G,	
	_ Histosol (A1) Histic Epiped						Mineral (S1) eat or Peat			lox Dark Surface (leted Dark Surfac	
	Black Histic ((A3)			Sandy	Gleyed	l Matrix (S4)	•	Red	lox Depressions (I	F8) ´
	Hydrogen Su Stratified Lay					Redox ed Matri				ors for Problematic est Prairie Redox (
	² cm Muck (A	A10) `	_		_Loamy	/ Mucky	Mineral (F1)		Iron	-Manganese Mas	ses (F12)
	Depleted Belo Thick Dark So	low Dark Surface ((A11)		_ ,	Gleyed ed Matr	d Matrix (F2)		Very Othe	y Shallow Dark Su er	ırface (F12)
Restri		if observed): Type	ə:		Depier	eu man	, ,		Otri	er	
		Dept	th (Inches):		:		Hydric Soil Pro	esent?	Yes	No	
	Remarks: ROLOGY	No soil pit taken	, pasture ia	and with farm	anıman	s presei	nt				
	and Hydrology			* 1 -1 -1 -1 4b	1				C	1 Handlandon	
-	Surface Wate		ndicators	(check all th Water	nat appl r Staine		es (B9)	+		ondary Indicator oil Cracks (B6)	'S
	High Water T	Γable (A2)	-	Aquat	tic Faun	na (B13)			Drainage I	Patterns (B10)	
<u> </u>	_Saturation (A Water Marks				Aquatic ogen Sul			<u> </u>		on Water Table (C Surrows (C8)	;2)
	Sediment De	posits (B2)	=	Oxidiz	zed Rhiz	zospher	es on Living Roots		Saturation	Visible on Aerial	
	_ Drift Deposits Algal Mat or (d Iron (C4) on in Tilled Soil (C6)			Stressed Plants nic Position (D2)	(D1)
	Iron Deposits	s (B5) ` ´	-	Thin N	nt Iron R Muck St					ral Test (D5)	
		isìble on Aerial Ima	agery (B7)		e or We				_	•	
			\f = 0.0	Othor							
Field	Sparsely Veg	getated Concave S S: Surface Water F		Other Yes	No		Depth (inches)	+			
Field	Sparsely Veg	getated Concave S s: Surface Water F Water Table Pre	Present? esent?	Yes Yes	No No		Depth (inches) Depth (inches)	Hydrol		ors Present?	.,
	Sparsely Veg Observations	getated Concave S s: Surface Water F Water Table Pre Saturation Prese	Present? esent? ent?	Yes Yes Yes	No No No	s. previo			loy Indicat Yes		х

Site: Client:		ter-S. Baltimor	re-W. Millersport	t City/County:		Fa	airfield County wnship, Range:	_Date:	27 March	h 2024 Data Point: S14, T 15N, R 19W	41
Investi	igator(s):	L. Vine, E.	.Holt				Landform			Local Relief	
Slope Soil Ma		5-8 ne: Amanda si	Lat. <u>3</u> silty clay loam, 6	39.772667° to 12 percent	Long.	severe	'-82.628789° elv eroded	_Datum	NAD83	NWI Class:	
CI	limatic/hydro	ologic condition	ns typical for time	ne of year?	Y/N	Y	-				
	Vegetati Vegetati			N or Hy N or Hy	ydrology ydrology	/ <u>N</u>	significantly disturbed naturally problematic				
Are No	ormal Circum	nstances Prese		'es x		<u> </u>	=				
SUMIN	MARY OF FIN	drophytic Vege	etation Present?	Yes	No	Х		1			
	٠., ٠	Hydri	ric Soil Present?	Yes X	No		- -			a Wetland?	
		Wetland Hyd	Irology Present?	Yes	No	X		Yes	No	X	
VEGE	TATION										
Tree S	Stratum	Plot size:	30'	Absolute % Cover		ninant ecies	Indicator Statu	IS			
1.										minance Test Works	heet
2. 3.					- — - ——					f dominant species	5
4.				-					Total numb	BL, FACW, or FAC: ber of dominant	11
5.					Total (2				cross all strata:	
Shrub	Stratum	Plot size:	15'	0	Total (Cover				dominant species BL. FACW. or FAC:	45.45
1.	Rhamnus c	athartica		30		Y	FAC	3	Prevalenc	e Index Worksheet	
2. 3.	Ailanthus ai			15 10		Y N	_ <u>FACU</u> FAC	3	Total %	% cover of:	1
4.	Elaeagnus			10		N	FACU	4_	FACW spe	ecies 15 x 2	30
5.				- GE	Total (2			FAC speci		120
Herb S	Stratum	Plot size:	5'	65	Total (Cover			FACU specie		280 150
1.	Schedonoru	us arundinaceı		30		Υ	FACU	4	Tota	al <u>156</u>	581
2. 3.	Fragaria ve Verbesina a			20 15		Y N	UPL FACW	<u>5</u>	Lydrophy	Prevalence Inde: rtic Vegetation Indic	
3. 4.	Carex frank	кіі		10	- ·	N	OBL	1		id Test for Hydrophyt	
5.	Elymus can			10	_	N	FACU	4	Dom	ninance Test is >50%	,
6. 7.	Verbascum Arctium mir			<u>10</u> 5		N N	UPL FACU	<u>5</u> 4		valence Index is <3.0° phological Adaptation	
8.	71100.0	100								lematic Hydrophytic Veg	
///aad/	·//ino Strati	ım Plot size:	20'	100	Total (Sover		_		tors of hydric soil and	
1.	/ VIIIE Stratu	IIII FIUL SIZE.	30						,	ogy must be present,	
2.				0	Total 0	Carror	 			listurbed or problemate phytic Vegetation Position Posit	
F	Remarks:				TUtar	20VEI			Yes		
SOIL		rofilo Descrir	ntion: (Describ	o to denth n	anded t	o docu	ment the indicator or	confirm	- sheence	of indicators)	
	Depth		Matrix	e to deptin in	eeueu .		Redox Featu		II dusence	Of illulcators.	¬
	(inches)	Color	% 95	Color 10YR 5/4	% 5	Type C	e* Loc**	Text		Remarks	□
	0-8 8-18	10YR 4/2 10YR 4/2		10113/4	5	+ -	M	Si			-
						#		1]
				-	+	+					-
	*Type	: C=Concentra	ation, D=Depletion	on, RM=Redu			S=Coated Sand grains	**Locat	tion: PL=Po	ore Lining, M=Matrix	
	Histosol (A1	1)					Indicators: Mineral (S1)		X Red	lox Dark Surface (F6)	
	Histic Epipe	edon (A2)			5cm ĺV	/lucky É	eat or Peat		Depl	leted Dark Surface (É	
	Black Histic Hydrogen S					Gleyed Redox	d Matrix (S4)			lox Depressions (F8) ors for Problematic Hyd	dric Soils
	Stratified La	ayers (A5)			Strippe	ed Matri	rix (S6)		Coas	st Prairie Redox (A16	6)
	2 cm Muck		(A44)		Loamy	y Mucky	/ Mineral (F1)			-Manganese Masses	
	_	elow Dark Surf Surface (A12)	\ /			y Gleyed ted Mati	d Matrix (F2) rix (F3)		Very Othe	y Shallow Dark Surfac er	ce (F12)
Restri		(if observed):	: Type:			00 1					
-	Remarks:		Depth (Inches):	:			Hydric Soil Pre	esent?	Yes	X No	
HYDR	OLOGY										
Wetla	nd Hydrolog	gy Indicators:	: nary Indicators	· /check all th	at ann			-	Sec	ondary Indicators	
	Surface Wa	ater (A1)	lary maioatoro	Wate	r Staine	d Leave		+	Surface So	oil Cracks (B6)	
	High Water				tic Faun					Patterns (B10)	
	Saturation (Water Mark				Aquatic ogen Su		(B14) dor (C1)			on Water Table (C2) Surrows (C8)	
	Sediment D	Deposits (B2)		Oxidiz	zed Rhiz	zosphei	res on Living Roots		Saturation	Visible on Aerial Ima	
	Drift Deposi	its (B3) r Crust (B4)					ed Iron (C4) on in Tilled Soil (C6)			Stressed Plants (D1 nic Position (D2))
	Iron Deposi				Muck Si					ral Test (D5)	
	Inundation \	Visible on Aeri	ial Imagery (B7)		e or We	ell Data	(D9)		-	,	
Field (egetated Conc ns: Surface W	/ater Present?	Other Yes	r No		Depth (inches)	+			
		Water Tab	ole Present?	Yes	No		Depth (inches)	Hydro		ors Present?	
Descri	be Recorder	Saturation d Data (stream		Yes ring well, aeria	No al photo	s. previ	Depth (inches) ious inspections), if ava	ailable:	Yes	s No X	
	dric indicate		99.,	,		-,	,,,,				

Site: Client		-S. Baltimor	re-W. Millerspor	rt City/County:		Fa	airfield County wnship, Range:	_Date:	27 Marc		Data Po 15N, R 19		40
Invest	tigator(s):	L. Vine, E.			_		Landform		oraines	Loca	al Relief	Co	onvex
Slope Soil M	/làp Unit Name:	Amanda s	silty clay loam, 6	39.771423° 5 to 12 percent	Long.	severe	-82.629211° ely eroded	_ Datum	NAD83	_ NW	I Class: _		N/A
C	Climatic/hydrolo	gic condition	ns typical for tim	ne of year?	Y/N	Υ	•						
	Vegetation Vegetation				ydrology ydrology		significantly disturbed naturally problematic						
	lormal Circumst	tances Prese		Yes x			=						
SUIVII	MARY OF FIND Hydro	ophytic Vege	etation Present?	? Yes	No	Х							
	٧		ric Soil Present? Irology Present?		No No	X	- =	Is the I	DP within No		and?		
		76tiana mya	TOTOGY I TOGGIN.	162	INU			163	140				
	TATION			Absolute %	Dom	ninant							
Tree S	Stratum_	Plot size:	30'	Cover		ecies	Indicator Statu	IS					
1. 2.							-				ce Test W nant speci		
2. 3.											CW, or FA		3
4. 5.							- 		Total num species a				3
				0	Total C	over			Percent of	of domin	nant specie		100.00
Shrub 1.	Stratum Rhamnus cati	Plot size:	15'	40	-	Υ	FAC	3			CW, or FA		100.00
2.	I Maning out	lartica				1			Total	% cove	er of:		
3. 4.			_				- -		OBL spec FACW sp		10	x 1	20
5.							- -		FAC spec	cies	40	x 3	120
Herb :	Stratum	Plot size:	5'	40	Total C	over		_	FACU spec		80	x 4 x 5	320
1.	Schedonorus	arundinace		80		Υ	FACU	4	Tot	tal	131	_	461
2. 3.	Conium macu	latum		10		N	FACW	2	Hydronh:		revalence getation I		3.52
4.									Rap	pid Test	t for Hydro	phytic	Veg.
5. 6.											e Test is > e Index is ·		
7.							- <u> </u>		Moi	rpholog	ical Adapt	_ tations	
8.				90	Total C	`over					Hydrophytic	•	
	dy Vine Stratum	Plot size:	30'		_ 10161 0	,0vo.					hydric soil ust be pre		
1. 2.							_			0,	ed or probl		
	D			0	Total C	over					Vegetatio		sent?
SOIL	Remarks:								Yes		No	Х	
				je to depth ne	eded to	o docu	ment the indicator or		n absence	of ind	icators.)		1
	Depth (inches)	Color	Matrix %	Color	%	Турє	Redox Featue* Loc**	ures Text			emarks		
	0-3	10YR 3/3	100	#	=	丰		#	In	npenetr	able rock	layer	
													1
		_			<u> </u>	Ţ		-					-
	*Type: (S=Concentra	ation, D=Deplet	ion, RM=Redu			S=Coated Sand grains	**Locat	tion: PL=P	ore Lini	ng, M=Ma	atrix]
	Histosol (A1)						Indicators: / Mineral (S1)		Red	dox Dar	k Surface	(F6)	
	Histic Epipedo				5cm Mı	lucky É	Peat or Peat (•	Dep	pleted D	Dark Surfa	ice (F7)
	Black Histic (A Hydrogen Sul				Sandy Sandy		d Matrix (S4) (S5)				oressions Problemati		c Soils
	Stratified Laye	ers (À5)			Strippe	ed Matr	rix (S6)		Coa	ast Prai	rie Redox	(A16)	
	2 cm Muck (A Depleted Belo		face (A11)				y Mineral (F1) ed Matrix (F2)				anese Mas ow Dark S		
	Thick Dark Su	urface (A12)) , ,			,	trix (F3)		Oth	•			
Restr	ictive Layer (if	observed):	: Type: Depth (Inches)	<u>م</u>			Hydric Soil Pro	esent?	Yes	2	No	Х	
	Remarks:	Impenetra	ble rock layer u										
	ROLOGY and Hydrology	Indicators:											
		Prin	mary Indicators				(DO)				y Indicato	rs	
	Surface Wate High Water Ta				r Stained tic Fauna				Surface S Drainage	Pattern	cks (Bo) is (B10)		
	Saturation (A3	3) `´´		True A	Aquatic I	Plants	(B14)		Dry-Seaso	on Wate	er Table (C2)	
	Water Marks Sediment Dep				ogen Sul zed Rhiz		aor (C1) eres on Living Roots			n Visible	e on Áeria		ery (C9)
	Drift Deposits	(B3) ` ´		Prese	ence of R	Reduce	ed Iron (C4)		Stunted o	r Stress	sed Plants		· ,
	Algal Mat or C Iron Deposits				nt Iron R Muck Su		ion in Tilled Soil (C6) (C7)		Geomorpl FAC-Neut				
	Inundation Vis	sìble on Aeri	ial Imagery (B7)	Guage	e or Wel						- ()		
Field	Sparsely Vego Observations:			Other Yes	r No		Depth (inches)	+					
		Water Tab	ole Present?	Yes	No		Depth (inches)	Hydrol	loy Indica			v	
_	rihe Recorded [Saturation Data (stream		Yes oring well, aeria	No al photos	s, prev	Depth (inches) rious inspections), if ava	ailable:	Yes	<u>s</u>	No	X	
Descr	IDC INCCORDED L												

Site: Client		er-S. Baltimore AEP	e-W. Millersport	t City/County:		Fa	airfield County vnship, Range:	Date:	27 Marc	<u>h 2024</u> Data Poin S14, T 15N, R 19W	
Invest	tigator(s):	L. Vine, E.I				•	Landform		II Plains	Local Relief	Convex
Slope Soil M			Lat. 3 oudonville comp	39.770633° plex, 6 to 12 p	Long.	slopes,	-82.629435° eroded	_Datum	NAD83	_ NWI Class:	N/A
C	Climatic/hydrological	logic condition	s typical for tim	ne of year?	Y/N	Y					
	Vegetatio Vegetatio	on N			ydrology ydrology		significantly disturbed naturally problematic				
	Iormal Circums	stances Prese	,	res x							
SUMIN	MARY OF FIN Hydr	Irophytic Veget	tation Present?	Yes	No	Х		Т			
	•	Hydrid	c Soil Present?	? Yes	No		- -			a Wetland?	
		Wetland Hydro	rology Present?	Yes	No	X		Yes	No	X	
VEGE	ETATION			A11:-4= 0/	2						
Tree S	Stratum	Plot size:	30'	Absolute % Cover		ninant ecies	Indicator Statu	IS			
1.						30103				minance Test Wor	
2. 3.					- —					f dominant species	
3. 4.									Total num	BL, FACW, or FAC ber of dominant	,: 3
5.				0	Total (Carror			species ad	cross all strata: f dominant species	
Shrub	Stratum	Plot size:	15'		_Total C	Jovei				BL, FACW, or FAC	.3.3.3.3
1.									Prevalence	ce Index Workshe	
2. 3.									OBL speci	% cover of: ies 1 x	1 1
4.									FACW spe	ecies 0 x	2 0
5.					Total C	Cover			FAC speci FACU spe	ies <u>0</u> x ecies 100 x	
	Stratum	Plot size:			_				UPL speci	ies 0 x	5 0
1. 2.	Schedonorus Allium canad	ıs arundinaceu dense	IS	80 10		Y N	FACU FACU	4	Tot	al <u>101</u> Prevalence Inc	401 dex: 3.97
3.	Trifolium rep			10		N	FACU	4		tic Vegetation Ind	licators:
4. 5.										oid Test for Hydroph ninance Test is >50	
5. 6.									Prev	valence Index is <3	3.0*
7.										phological Adaptati	
8.				100	Total C	Cover			_	elematic Hydrophytic V tors of hydric soil a	ŭ
	dy Vine Stratun	n Plot size:	30'		-					logy must be prese	
1. 2.							-			disturbed or problen	
	Damorica:			0	Total C	Cover	-			phytic Vegetation	
SOIL	Remarks:					—			Yes	. No	X
	Pr			e to depth no	eeded t	o docu	ment the indicator or		n absence	of indicators.)	
	Depth (inches)	Color	Matrix %	Color	%	Туре	Redox Featu		ture	Remarks	
	` '				1					lo soil pit, residentia	al
				+	+	+-		+			
	*Type:	C=Concentra	tion. D=Depleti	ion. RM=Redu	iced Ma	I atrix. CS	S=Coated Sand grains	**I oca	tion: PL=Po	ore Lining, M=Matri	<u></u>
			uon, E E-p.	On, ran	Hydrid	c Soil lı	ndicators:			G,	
	Histosol (A1) Histic Epiped						Mineral (S1) Peat or Peat			lox Dark Surface (F bleted Dark Surface	
	Black Histic	(A3)			Sandy	Gleyed	d Matrix (S4)		Red	lox Depressions (F	8) ´
	Hydrogen Su Stratified Lay					Redox ed Matri				<mark>ors for Problematic F</mark> ast Prairie Redox (A	
	2 cm Muck ((A10)			Loamy	y Mucky	/ Mineral (F1)		Iron	-Manganese Mass	es (F12)
		elow Dark Surfa Surface (A12)	ace (A11)		_ ,	y Gleyed ted Matr	d Matrix (F2)		Very	y Shallow Dark Sur	face (F12)
Restr	rictive Layer (i		Type:		Depier	eu iviau	I ` '		Otti	<u>er</u>	
			Depth (Inches)				Hydric Soil Pre	esent?	Yes	. No	
<u> </u>	Decreasing,			₁al area							
	Remarks:	No soil pit t	taken, residenti								
HYDR		No soil pit t				$\overline{}$				1 1	
HYDR	ROLOGY and Hydrology	No soil pit t y Indicators: Prim	nary Indicators	s (check all th			es (B9)			condary Indicators	:
HYDR	ROLOGY and Hydrology Surface Wate High Water 1	No soil pit to the prime ter (A1) Table (A2)		s (check all th Water Aquat	r Staine tic Faun	ed Leave na (B13)) ` ´		Surface Solution Drainage I	oil Cracks (B6) Patterns (B10)	
HYDR	ROLOGY and Hydrology Surface Wate High Water T Saturation (A	No soil pit t y Indicators: Prim ter (A1) Table (A2) A3)		s (check all th Water Aquat	r Staine tic Faun Aquatic	ed Leave na (B13) : Plants) (B14)		_Surface S _Drainage I _Dry-Seaso	oil Cracks (B6) Patterns (B10) on Water Table (C2	
HYDR	SOLOGY and Hydrology Surface Wate High Water I Saturation (A Water Marks Sediment De	No soil pit to py Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2)		S (check all the Water Aquater True A Hydro Oxidiz	r Staine tic Faun Aquatic ogen Sul zed Rhiz	ed Leave na (B13) Plants ulfide Oc zospher) (B14) dor (C1) res on Living Roots		Surface Section Surface In Drainage In Dry-Seaso Crayfish Baturation	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water 1 Saturation (A Water Marks Sediment De Drift Deposits	No soil pit to the pit		s (check all th Water Aquat True / Hydro Oxidiz Prese	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F	ed Leave na (B13) Plants Ilfide Od zospher Reduce) (B14) dor (C1) res on Living Roots ed Iron (C4)		Surface Solution Drainage In Dry-Season Crayfish Bolution Stunted or	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I	2) magery (C9)
HYDR	Sology Surface Wate High Water Tag Saturation (A) Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposites	No soil pit to y Indicators: Primeter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) ss (B5)	nary Indicators	s (check all th Water Aquat True Hydro Oxidiz Prese Recer	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio) (B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6)		Surface Some Drainage In Dry-Season Crayfish Begaturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water Toler Saturation (A Water Marks Sediment De Drift Deposits Inundation V	No soil pit to y Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) C Crust (B4) s (B5) /isible on Aeria	nary Indicators	s (check all the Water Aquat True A Hydro Oxidiz Presse Recer Thin M Guagu	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Sule or We	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots del Iron (C4) on in Tilled Soil (C6) (C7)		Surface Some Drainage In Dry-Season Crayfish Begaturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2)	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water Toler Saturation (A Water Marks Sediment De Drift Deposits Inundation V	No soil pit to y Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c (Crust (B4) s (B5) /isible on Aeria getated Conca	nary Indicators al Imagery (B7) ave Surface	s (check all th Water Aquat True Hydro Oxidiz Prese Recer	r Stained tic Faun Aquatic Degen Sulped Rhizence of Fant Iron Fauck Sulpe or We	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface Some Drainage In Dry-Season Crayfish Begaturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2)	2) magery (C9)
HYDR	SOLOGY and Hydrology Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposite Algal Mator Iron Deposite Inundation V Sparsely Veg	No soil pit to py Indicators: Prim ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ss (B5) //isible on Aeria getated Conca s: Surface Wa Water Table	nary Indicators al Imagery (B7) ave Surface ater Present? le Present?	s (check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin M Guage Other Yes Yes	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Su je or We r No	ed Leave na (B13) Plants Ilfide Oc zospher Reduce Reductio urface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) (C7) (D9) Depth (inches) Depth (inches)	Hydrol	Surface Single Surface Single Surface Single Surface Single Saturation Standard Surface Surfac	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2) rral Test (D5)	2) magery (C9) D1)
HYDR Wetla	SOLOGY and Hydrology Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Inundation V Sparsely Veg Observations	No soil pit to print to print ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) //isible on Aeria getated Conca s: Surface Wa Water Tabl Saturation	nary Indicators al Imagery (B7) ave Surface ater Present? le Present? Present?	s (check all th Water Aquat True / Hydro Oxidiz Prese Recer Thin N Guagr Other Yes Yes	r Stained tic Faun Aquatic ogen Sul zed Rhiz ence of F nt Iron F Muck Sul je or We No No	d Leave na (B13) Plants Ilfide Oc zospher Reduce Reductic urface (I ell Data	(B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9) Depth (inches)		Surface Single Surface Single Surface Single Surface Surface Saturation Stunted or Geomorph FAC-Neut	oil Cracks (B6) Patterns (B10) on Water Table (C2 Burrows (C8) o Visible on Aerial Ir r Stressed Plants (I nic Position (D2) rral Test (D5)	2) magery (C9)

Client: Investi Slope Soil M: C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. 3 It loam, 6 to 12 as typical for tim by, Soil by, Soil	State	: OH 870 nt slope ear? or Hy	Long. s,erode Y/N rdrology rdrology	ed Y	vnship, Range: Landfor -82.631439 significantly disturbe naturally problematio	Datum	Sec :				
OOMIN	Hydro	ophytic Vege Hydri	etation Present? ic Soil Present? rology Present?	Yes		No No No		- - -	Is the Yes	DP within	a Wetlar	nd?		
Remai	rks:													
Tree S	TATION Stratum	Plot size:			olute % over		ninant ecies	Indicator Sta	itus			Test Wo		et
2. 3. 4. 5.										Number of that are Ol Total numl species ac Percent of	BL, FAC	W, or FAO	C: _	1
1. 2. 3.		Plot size:			0	Total (Cover			that are Ol Prevalence Total S OBL speci	BL, FAC e Index 6 cover es	W, or FAG Workshoof: 0 x	C: _ eet _ 1 _	0.00
4. 5. <u>Herb S</u> 1. 2.	Stratum Dactylis glom Achillea mille	Plot size:			0 80 10		Cover Y N	FACU FACU	4 4	FACW speci FAC speci FACU speci UPL speci Tota	es cies es al	0 x 100 x 100 x 100 x 100 yalence Ir	3	0 400 0 400 400 4.00
3. 4. 5. 6. 7. 8.	Trifolium repe				10		N	FACU	4	Dom Prev Mor	tic Vege id Test for ninance of valence I phologica		dicator hytic V 50% 3.0* tions*	r s: ′eg.
	y Vine Stratum	Plot size:	30'	1	100	Total (*Indicat hydrol d	ors of hy ogy mus isturbed	dric soil a t be prese or proble	and we ent, unl matic	tland less
F	Remarks:				0	Total (Cover			Hydro Yes		egetation No	n Prese X	ent?
SOIL	Pro	file Descrin	ntion: (Describ	ne to d	enth ne	eded t	o docu	ment the indicator of	or confirm	n ahsence	of indic	ators)		
	Depth	1	Matrix		•			Redox Fea	atures					
	(inches) 0-18	Color 10YR 4/2	% 100	C	olor	%	Туре	e* Loc**		ture i L	Ren	narks		
							+							
	*Tvpo: (C-Concontra	tion D-Donlot	ion DA	/_Dodu	cod Ma	triv CS	S=Coated Sand grains	. **! 000	tion: PL=Pc	ro Linino	n M-Mati	riv	
		J=Concentra	ition, D=Depleti	ion, Ki	/i=Redu	Hydri	c Soil I	ndicators:	s Luca		`			
	Histosol (A1) Histic Epipedo Black Histic (A					5cm ĺV	lucky É	Mineral (S1) leat or Peat d Matrix (S4)		Dep Red	leted Da ox Depre	Surface (rk Surfac essions (F	e (F7) F8)	
	Hydrogen Sul Stratified Laye						Redox ed Matr					oblematic Redox (Soils
	2 cm Muck (A	(10) ((444)			Loamy	/ Mucky	/ Mineral (F1)		Iron-	-Mangan	ese Mass	ses (F1	
	Depleted Belo Thick Dark Su					_Loamy Deplet	ed Mat	d Matrix (F2) rix (F3)		Othe		v Dark Su	іпасе (і	F12)
Restri	ctive Layer (if		:Type:						2					
F	Remarks:		Depth (Inches)):				Hydric Soil F	resent?	Yes		No	Х	
	OLOGY	lu dia ataua.												
vvetiai	nd Hydrology		nary Indicators	(chec	k all th	at appl	y)			Sec	ondary l	ndicator	s	
	Surface Wate High Water Ta Saturation (A:	able (A2) 3)			_ Aquat	Staine ic Faun Aquatic	a (B13)			Surface So Drainage F Dry-Seaso	Patterns	(B10)	2)	
	Water Marks Sediment Dep							dor (C1) res on Living Roots		Crayfish B Saturation			lmager	v (C9)
	Drift Deposits	(B3)			Prese	nce of I	Reduce	ed Iron (C4)		Stunted or	Stresse	d Plants ((D1)	y (OO)
		(B5) ` sible on Aeri	al Imagery (B7)		_Thin N _Guage	Muck Sue or We	urface (Geomorph FAC-Neuti				
Field (Sparsely Veg Observations			Yes	Other	No	Х	Depth (inches)						
		Water Tab Saturation	le Present? Present?	Yes Yes	all coric	No No	X X	Depth (inches) Depth (inches) ious inspections), if a	_	loy Indicat Yes		sent? No	x	
ווטפטטוו	DE IVECOIDED I	zaia (Siitalli	guaye, monito	ing we	ıı, a c ıla	טוטווץ יי	s, piev	ious irispections), il a	vanable.					

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N ances Prese	Lat. St lt loam, 6 to 12 is typical for time, Soil Soil	State	099 nt slope ear? or Hy	Long. s,erode Y/N rdrology rdrology	ed Y	rnship, Range: Landform -82.633227 significantly disturbed naturally problematic	Datum	Sec S	2024 Data Po 523, T 15N, R 19 Local Relief NWI Class:	
SOWIN	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	' Yes		No No No	X 	-	Is the Yes	DP within a	Wetland?	
Remar	ks:			. 00			,		1			
	TATION stratum_	Plot size:			olute % over		ninant ecies	Indicator Statu	us	Dom	ninance Test Wo	orksheet
2. 3. 4. 5.										that are OB Total numb	dominant species BL, FACW, or FA er of dominant	·C:
Shrub 1.	Stratum	Plot size:	15'		0	Total (Cover			that are OB	ross all strata: dominant specie BL, FACW, or FA e Index Worksh	،C:
2. 3. 4. 5.										OBL specie FACW specie FAC specie	cies 0	(2 <u>0</u> (3 <u>0</u>
1. 2.	Stratum Glycine max r Stellaria medi	а	5'		50 40		Y Y	UPL FACU	<u>5</u> 4	FACU speci UPL specie Tota	es <u>55</u>	< 5 <u>275</u> 435
3. 4. 5. 6. 7.		ıreum			5		N	UPL	5	Rapid Domi Preva	ic Vegetation Ir d Test for Hydro inance Test is > alence Index is < hological Adapta	phytic Veg. 50% <u><</u> 3.0*
8. <u>Woody</u> 1.	/ Vine Stratum				95	Total (Cover			Proble *Indicate hydrolo	ematic Hydrophytic ors of hydric soil ogy must be pres sturbed or proble	Vegetation* and wetland ent, unless
2.					0	Total C	Cover				hytic Vegetatio	
SOIL	Remarks:									Yes	No	X
			tion: (Describ	e to d	epth ne	eded t	o docu	ment the indicator or Redox Feat		n absence o	of indicators.)	
	Depth (inches)	Color	%	С	olor	%	Туре	* Loc**	Text		Remarks	
	0-18	10YR 4/3	100						Si	L		
	*Type: C	=Concentra	tion, D=Deplet	on, RI	И=Redu			=Coated Sand grains	**Locat	tion: PL=Por	re Lining, M=Ma	trix
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			x Dark Surface	
	Histic Epipedo Black Histic (A							eat or Peat I Matrix (S4)			eted Dark Surfac ox Depressions (
	Hydrogen Sulf	fide (A4)				Sandy	Redox	(S5)		Indicator	rs for Problemation	Hydric Soils
	Stratified Laye 2 cm Muck (A	ers (A5) 10)				Strippe		x (S6) Mineral (F1)			st Prairie Redox Manganese Mas	
	Depleted Belo	w Dark Surf	ace (A11)			Loamy	Gleye	d Matrix (F2)		Very	Shallow Dark S	
Restri	Thick Dark Suctive Layer (if		Type:			Deplet	ed Mat	rix (F3) Č		Othe	r	
			Depth (Inches)):				Hydric Soil Pr	resent?	Yes	No	х
	Remarks: OLOGY											
Wetla	nd Hydrology		nary Indicators	· (chor	k all th	at anni				Soco	ondary Indicato	re
	Surface Wate	r (A1)	iary marcators	Conce	Water	Staine	d Leav			Surface So	il Cracks (B6)	13
	High Water Ta Saturation (A3					ic Faun Aquatic					atterns (B10) n Water Table (0	:2)
	Water Marks	(B1)			Hydro	gen Su	lfide O	dor (C1)		¯Crayfish Bu	ırrows (C8)	′
	Sediment Dep Drift Deposits							res on Living Roots d Iron (C4)		Saturation Stunted or	Visible on Aerial Stressed Plants	Imagery (C9) (D1)
	Algal Mat or C	rusť (B4)			Recer	nt Iron F	Reducti	on in Tilled Soil (C6)		Geomorphi	c Position (D2)	` '
	Iron Deposits Inundation Vis		al Imagery (B7)			∕luck Sι e or We				FAC-Neutra	ai Test (D5)	
	Sparsely Vege	etated Conc	ave Surface		Other				1			
rieia (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydro	loy Indicato	ors Present?	
		Saturation		Yes		No	Х	Depth (inches)		Yes	No	х

Client: Investi Slope	igator(s): (%):	AEP N. Houk, N 1-3	. Barnett Lat.	t_City/Co _State: 39.75494	ΟĤ	Section		nship, Range: Landform -82.634647	Till		n 2024 Data 526, T 15N, R Local Relief NWI Class:	19W Concave
CI Are No	ap Unit Name: limatic/hydrolog Vegetation Vegetation ormal Circumsta JARY OF FINDI	gic condition N N ances Prese	s typical for tim , Soil , Soil	N	or Hy	drology	N N	significantly disturbed naturally problematic				
SOWIN	Hydro	phytic Veget Hydri	tation Present? c Soil Present? ology Present?	? Yes ¯	Х	No No No	X	- -	Is the I	DP within a	a Wetland?	
Remar	rks:		er basin overfl			140			1100	110		
VEGE	TATION			Absolu	ıto %	Domi	nant					
1. 2. 3. 4.		Plot size:		Cov	er	Spec	cies	Indicator Statu		Number of	ninance Test dominant spe BL, FACW, or per of dominar	FAC:
1. 2.	Stratum_	Plot size:	15'	0						Percent of that are Of Prevalenc Total 9	ross all strata: dominant spe BL, FACW, or e Index Work 6 cover of:	FAC: 100.00
	Stratum_	Plot size:		0		Total Co				OBL speci FACW speci FACU speci UPL speci	ecies 100 es 0 cies 0 es 0	0 x 1 0 200 0 x 2 200 0 x 3 0 0 x 4 0 0 x 5 0
2. 3.								FACW	2	x Dom x Prev Morr	Prevalence tic Vegetation d Test for Hyde inance Test is valence Index i bhological Ada	te Index: 2.00 n Indicators: drophytic Veg. s >50% is ≤3.0* aptations*
8. <u>Woody</u> 1. 2.	y Vine Stratum	Plot size:	30'	100	0	Total Co	over			*Indicat	•	oil and wetland resent, unless
				0		Total Co	over	· -		Hydro	ohytic Vegeta	tion Present?
SOIL	Remarks:									Yes	x No	
JUIL	Prof	ile Descrip	tion: (Describ	e to der	th ne	eded to	docu	ment the indicator or	confirm	absence	of indicators.	.)
	Depth (inches)		Matrix %	Cole	or	%	Type	Redox Featu	ıres Text	uro	Remarks	
	(inches) 0-4	Color 10YR 3/1	100	Con	JI	70	туре	LOC	Si C		Remarks	
	4-8	10YR 3/1	95	10YR	5/6	5	С	M	Si C	CL		
	*Type: C	=Concentra	tion, D=Deplet	ion, RM=	Redu			S=Coated Sand grains ndicators:	**Locati	ion: PL=Po	re Lining, M=N	/latrix
	Histosol (A1) Histic Epipedo Black Histic (A	n (A2)				Sandy N 5cm Mu	Mucky icky Po	Mineral (S1) eat or Peat I Matrix (S4)	-	Dep	ox Dark Surfact leted Dark Sur ox Depression	rface (F7)
	Hydrogen Sulfi	ide (A4)		_		Sandy F	Redox	(S5) ` ´	-	Indicato	rs for Problema	atic Hydric Soils
	Stratified Laye			_		Stripped			-		st Prairie Redo	
	2 cm Muck (A1 Depleted Below		ace (A11)	=				Mineral (F1) d Matrix (F2)	=		Manganese M Shallow Dark	Surface (F12)
	Thick Dark Sur	rface (A12)	, ,		Х	Deplete			-	Othe		
Restri	ctive Layer (if		Type: Depth (Inches)	٠. 		o-rap 8		Hydric Soil Pro	esent?	Yes	x No	
	Remarks:		Dopar (mone)	10.				i i juii o o ii i i			х 110	
	OLOGY nd Hydrology I	Indicators:										
		Prim	ary Indicators	(check	all th	at apply)			Sec	ondary Indica	itors
	Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Co Iron Deposits (Inundation Visi	r (A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) ible on Aeria	al Imagery (B7)		Water Aquati True A Hydroo Oxidiz Preser Recen Thin M Guage	Stained ic Fauna Aquatic P gen Sulficed Rhizonce of Re	Leave (B13) Plants ide Od ospher educe eduction	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	oil Cracks (B6) Patterns (B10) n Water Table urrows (C8)	e (C2) rial Imagery (C9) nts (D1)
Field (Sparsely Vege Observations:	Surface Wa Water Tabl	ater Present? le Present?	Yes Yes	Other_	No No	X X	Depth (inches) Depth (inches)	Hydrol		ors Present?	
Descri	be Recorded D	Saturation lata (stream		Yes oring well,	, aeria	No al photos,	, previ	Depth (inches) ous inspections), if ava	ailable:	<u>Yes</u>	No	X

	W. Lancaste		e-W. Millerspor			_	1: 5	Date:	28 Marc				32A
Client: Investi	gator(s):	AEP N. Houk, N	N. Barnett	_State: _ C	OH Section	n, Tow	nship, Range: Landform	Till	Plains		15N, R 19 al Relief	Conv	ex
Slope	(%): `´	2-5 Maranga a		39.754906	Long.		-82.634636	Datum	NAD83	NWI	Class:	N/A	١
	ap Unit Name imatic/hvdrol		ns typical for tin	ne of vear?	Y/N	Υ							
	Vegetatio	n <u>N</u>	, Soil	N or	Hydrology		significantly disturbed						
Are No	Vegetatio rmal Circums		_, Soil ent?		Hydrology x No	N_	naturally problematic						
	IARY OF FIN	DINGS			<u></u>		=						
	Hydr	ophytic Vege Hydr	etation Present [*] ic Soil Present [*]	? Yes	No No	X	-	le the [DP within	a Wati	and?		
	,		rology Present		No	X	-	Yes	No No	a weu	anu r		
Remar	ks: TATION							-					
				Absolute	% Domi	nant		1					
Tree S	tratum	Plot size:	30'	Cover	Spec	cies	Indicator Statu	s					
1.											ce Test Wo		t
2. 3.													0
4.											CW, or FA dominant	_	1
5.				0	Total Co	over			species a	cross a	ll strata: ant specie	<u> </u>	
Shrub	Stratum	Plot size:	15'		10(a) 0	Ovei					CW, or FA		0.00
1.											x Worksh	eet	
2. 3.									OBL spec	% cove ies	er <u>στ:</u> Ο >	, ₁ —	0
4.									FACW sp	ecies	10		20
5.					T-1-10		-		FAC spec		20		60
Herb S	Stratum	Plot size:	5'	0	Total Co	over			FACU spec		<u>70</u> 2		280 0
1.	Sorghum hai	epense		60	<u> </u>	′	FACU	4	Tot	al	100		360
	Ambrosia trif Conium mac			10 10	<u> </u>	•	FAC FACW	3	Usalnambs		evalence I		3.60
3. 4.	Solidago car			10	— — <u>I</u>		FACV FACU	<u>2</u> 4			getation Ir : for Hydro		
5.	Vernonia gig			10	N	1	FAC	3	Don	ninance	e Test is >	50%	g.
6. 7.											e Index is		
8.											Hydrophytic		n*
	\" O: .	D.		100	Total Co	over			*Indica	tors of	hydric soil	and wetl	land
Woody 1.	Vine Stratur	n_Plot size:	30'						•	0,	ist be pres		ess
2.									C	listurbe	d or proble	ematic	
	Pomarke:	ſ		0	Total Co	over	-				Vegetatio		nt?
	Remarks:			0	Total Co	over			Hydro Yes		Vegetatio No	n Prese x	nt?
SOIL	Pr						ment the indicator or		Yes		No		nt?
	Pr Depth		Matrix			docu	Redox Featu	ires	Yes	of ind	No icators.)		nt?
	Pr			be to depth	needed to	docu			Yes absence	of ind	No		nt?
	Pr Depth (inches)	Color	Matrix %	be to depth	needed to	docu	Redox Featu	res Text	Yes absence	of ind	No icators.)		nt?
	Pr Depth (inches)	Color	Matrix %	be to depth	needed to	docu	Redox Featu	res Text	Yes absence	of ind	No icators.)		nt?
	Pr Depth (inches) 0-18	Color 10YR 3/1	Matrix % 100	color	n needed to	Туре	Redox Featu * Loc**	res Texti Si C	Yes n absence ure	of indi	No icators.) emarks	x	nt?
	Pr Depth (inches) 0-18	Color 10YR 3/1	Matrix % 100	color	n needed to	Type	Redox Featu * Loc** =Coated Sand grains	res Texti Si C	Yes n absence ure	of indi	No icators.)	x	nt?
	Pr Depth (inches) 0-18 *Type:	Color 10YR 3/1 C=Concentra	Matrix % 100	color	n needed to % educed Mati Hydric Sandy I	Type Tix, CS Soil I	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1)	res Texti Si C	Yes n absence ure C L ion: PL=Pc	of indi	No icators.) emarks ng, M=Mat	x :rix (F6)	nt?
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped	Color 10YR 3/1 C=Concentra	Matrix % 100	color	educed Mate Hydric Sandy I	Type Tix, CS Soil I Mucky	Redox Featu * Loc** =-Coated Sand grains ndicators: Mineral (S1) eat or Peat	res Texti Si C	Yes n absence ure C L ion: PL=Pc Rec Dep	of indi	ng, M=Matk Surface	x :rix (F6) ce (F7)	nt?
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su	Color 10YR 3/1 C=Concentra don (A2) (A3)	Matrix % 100	color	educed Mate Hydric Sandy I	Type Trix, CS Soil I Mucky Jicky P Gleyec	Redox Featu * Loc** =Coated Sand grains ndicators: Mineral (S1) eat or Peat Matrix (S4)	res Texti Si C	yes absence ure L ion: PL=Pc Rec Dep Rec	of indi	No icators.) emarks ng, M=Mat	(F6) ::e (F7) F8)	
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epipec Black Histic Hydrogen Su Stratified Lay	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5)	Matrix % 100	color	educed Mate Hydric Sandy for Sandy for Sandy for Sandy for Sandy for Sandy for Sandy for Stripped Stripped Stripped Sandy for Stripped Str	Type Trix, CS Soil I Mucky P Gleyec Redox d Matr	Redox Feature Re	res Texti Si C	Yes n absence ure CL ion: PL=Po Rec Dep Rec Indicate Coa	of indi	ng, M=Mates Surface Problematic rie Redox	riix (F6) se (F7) F8) Hydric S (A16)	Boils
	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epipec Black Histic Hydrogen St Stratified Lay 2 cm Muck (A1)	Color 10YR 3/1 C=Concentra don (A2) (A3) alfide (A4) vers (A5)	Matrix % 100 ation, D=Deplet	color	educed Mate Hydric Sandy No Sa	Type Trix, CS Soil I Mucky PGleyec Redox d Matr Mucky	Redox Feature Re	res Texti Si C	rabsence Ure CL Sion: PL=Po Rec Dep Rec Indicate Coa Iron	of indi	ng, M=Mar k Surface bark Surface roressions (Problematic rie Redox (anese Mas	(F6) :e (F7) F8) :A16) ses (F12	Soils 2)
SOIL	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Deplet	color	educed Mate Hydric Sandy No Sa	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	res Texti Si C	rabsence Ure CL Sion: PL=Po Rec Dep Rec Indicate Coa Iron	of indi Report Lini lox Dar leted Depors for F sst Praii -Manga y Shalle	ng, M=Mates Surface Problematic rie Redox	(F6) :e (F7) F8) :A16) ses (F12	Soils 2)
SOIL	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Deplet face (A11)	Color	educed Mate Hydric Sandy N Sandy N Sandy N Sandy N Loamy Loamy	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	**Locati	res absence ure UL ion: PL=Po Rec Dep Rec Indicate Coa Iron Very Oth	of indi Report Lini lox Dar leted Deports for Faithers Prain -Mangay Shalle	mg, M=Mate North Surface Dark Surface Problematic Problematic and Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface North Surface Massow Dark Surface North Surface No	rix (F6) Se (F7) F8) Hydric S (A16) Sees (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Be Thick Dark S	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur urface (A12)	Matrix % 100 ation, D=Deplet	Color	educed Mate Hydric Sandy N Sandy N Sandy N Sandy N Loamy Loamy	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	**Locati	rabsence ure Ure CL ion: PL=Po Rec Dep Rec Indicate Iron Very	of indi Report Lini lox Dar leted Deports for Faithers Prain -Mangay Shalle	ng, M=Mar k Surface bark Surface roressions (Problematic rie Redox (anese Mas	(F6) :e (F7) F8) :A16) ses (F12	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epipeo Black Histic E Hydrogen Su Stratified Lay 2 cm Muck (A Depleted Bel Thick Dark S ctive Layer (inches) Remarks: OLOGY	Color 10YR 3/1 C=Concentra don (A2) (A3) Ilfide (A4) vers (A5) A10) ow Dark Sur urface (A12) f observed)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	Color	educed Mate Hydric Sandy N Sandy N Sandy N Sandy N Loamy Loamy	Type Tix, CS Soil I Mucky Gleyed Mucky Gleyed	Redox Feature Re	**Locati	res absence ure UL ion: PL=Po Rec Dep Rec Indicate Coa Iron Very Oth	of indi Report Lini lox Dar leted Deports for Faithers Prain -Mangay Shalle	mg, M=Mate North Surface Dark Surface Problematic Problematic and Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface North Surface Massow Dark Surface North Surface No	rix (F6) Se (F7) F8) Hydric S (A16) Sees (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Bel Thick Dark S ctive Layer (i	Color 10YR 3/1 C=Concentra don (A2) (A3) Ilfide (A4) vers (A5) A10) ow Dark Sur urface (A12) f observed):	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy F Strippec Loamy Loamy Deplete	Type Trix, CS Soil I Mucky Jicky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature Re	**Locati	rabsence ure UL ion: PL=Po Rec Dep Rec Indicate Iron Very Oth	of indi Report Lini Tox Dar Solution Deports for First Prail -Manga y Shalle	mg, M=Mate North N	rix (F6) se (F7) F8) se Hydric S (A16) ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck Depleted Be Thick Dark S ctive Layer (inched) Remarks: OLOGY Ind Hydrology Surface Wat	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur uurface (A12) if observed): / Indicators: Printer (A1)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy N Sandy N Sandy N Strippec Loamy Loamy Deplete	Type Trix, CS Soil I Mucky Jicky P Gleyec Redox d Matr Mucky Gleyec d Matr	Redox Feature Redox	**Locati	res Yes absence ure UL ion: PL=Pc Rec Dep Rec Indicate Coa Iron Ver Oth Yes Sec Surface S	of indi Report Lini lox Dar leted Depors for Fast PrainMangay Shalle er condary	mg, M=Mate North N	rix (F6) se (F7) F8) se Hydric S (A16) ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (A1) Depleted Be Thick Dark S Ctive Layer (inches) Remarks: OLOGY Ind Hydrology Surface Wat High Water	Color 10YR 3/1 C=Concentra don (A2) (A3) elfide (A4) ers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Printer (A1) Table (A2)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	Color Color	educed Mate Hydric Sandy For Sandy For Stripper Loamy Deplete I that apply atter Stained uatic Fauna	Type Trix, CS Soil II Mucky Jicky P Gleyed Redox Mucky Gleyed Matr Mucky Gleyed Matr Mucky Gleyed (B13)	Redox Feature Re	**Locati	rabsence ure Ure CL ion: PL=Po Rec Dep Rec Indicate Coa Iron Ver Oth Yes Surface S Drainage	of indi Report Lini ox Darrelleted Deleted D	mg, M=Mat k Surface bark Surface coressions (Problematic rie Redox (anese Mas bw Dark St No	rix (F6) ee (F7) F8) Hydric S (A16) ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck Depleted Be Thick Dark S ctive Layer (inched) Remarks: OLOGY Ind Hydrology Surface Wat	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) /ers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Prin er (A1)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete	rix, CS Soil I Mucky P Sleyed Redox d Matr Mucky Gleyed Matr Mucky Matr Mucky Matr Mucky Gleyed Matr Mucky Matr Mu	Redox Feature Re	**Locati	Reconstruction Secons of indi Report Lini Ox Dar leted D lox Der st Prain -Manga y Shalle er ondary onil Crace Pattern on Wate	mg, M=Mar k Surface bark Surface cark Surface problematic rie Redox (anese Mas bw Dark St No	rix (F6) ee (F7) F8) Hydric S (A16) ses (F12 urface (F	Soils 2)	
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Bel Thick Dark S ctive Layer (i	Color 10YR 3/1 C=Concentra don (A2) (A3) Ilfide (A4) vers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Printer (A1) Table (A2) (3) (B1) posits (B2)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy for Sandy f	rix, CS Soil I Mucky John Mucky Gleyed Mucky Gleyed Mati	Redox Feature * Loc** Loc**	**Locati	res results and re	of indi Report Lini OX Dar leted Dox Deports for First Prain -Manga y Shalle er condar oil Crac Pattern on Wate Burrows Visible	mg, M=Mate k Surface Dark Surface Dark Surface Dark Surface Dark Surface Dark Surface Mas D	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen Su Stratified Lay 2 cm Muck (Depleted Bel Thick Dark S ctive Layer (inches) Remarks: OLOGY and Hydrology Surface Wat High Water I Saturation (A) Water Marks Sediment De Drift Deposit	Color 10YR 3/1 C=Concentra don (A2) (A3) Ilfide (A4) vers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Prine er (A1) Table (A2) (B1) posits (B2) s (B3)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	color Color	educed Mate Hydric Sandy F Strippec Loamy Loamy Deplete I that apply ater Stained quatic Fauna ue Aquatic F drogen Sulf idized Rhizzesence of R	Type Type Trix, CS Soil I Mucky John Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Muck	Redox Feature Re	**Locati	res results and re	of indi Report Lini Ox Dar leted Dox Depors for Fisit Prain -Mangay Shalled er condary oil Crace Pattern on Wate Surrows Visible Stress	mg, M=Materials Mark Surface Dark Surface Dark Surface Dark Surface Dark Surface Dark Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface Massow Dark Surface Dark Surface Massow Dark Surface Massow Dark Surface Dark Surfac	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (a) Depleted Be Thick Dark S ctive Layer (i) Remarks: OLOGY and Hydrology Surface Wate High Water T Saturation (A) Water Marks Sediment Det Drift Deposits Algal Mat or Iron Deposits	Color 10YR 3/1 C=Concentra Ion (A2) (A3) Iffide (A4) Vers (A5) A10) ow Dark Sur urface (A12) If observed): V Indicators: Prin er (A1) Table (A2) (B1) Table (B2) (B3) Crust (B4) (B5)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches	be to depth Color Color Color Sicon, RM=Re Color	educed Mate Hydric Sandy F Strippec Loamy Loamy Deplete I that apply ater Stained quatic Fauna ue Aquatic F drogen Sulf idized Rhizzesence of R	Type Type Trix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec	Redox Feature Re	**Locati	res absence ure L ion: PL=Pc Rec Dep Rec Indicate Coa Iron Ver Oth Yes Sec Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted of Geomorph	of indi Report Lini lox Dar leted Deport for Fall -Mangay Shalle er condary oil Crac Pattern on Wate surrows a Visible stress ic Pos	mg, M=Mate No. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. M	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restri	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epipee Black Histic Hydrogen St Stratified Lay 2 cm Muck (inches) Depleted Be Thick Dark St Ctive Layer (inches) Surface Wate High Water Saturation (A) Water Marks Sediment Det Drift Deposits Inundation V	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) /ers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Prin er (A1) Table (A2) (B1) Table (A2) (B3) (Crust (B4) (Crus	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches nary Indicators	be to depth Color Color Sion, RM=Re Color	educed Mate Hydric Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete I that apply atter Stained uatic Faunaue Aquatic F drogen Sulfidized Rhizzescent Iron Rein Muck Surage or Wellinger Surage or Wellinge	Type Type Trix, CS Soil I Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Gleye	Redox Feature * Loc**	**Locati	res results and re	of indi Report Lini lox Dar leted Deport for Fall -Mangay Shalle er condary oil Crac Pattern on Wate surrows a Visible stress ic Pos	mg, M=Mate No. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. M	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restric	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Bel Thick Dark S ctive Layer (inches) Surface Watt High Water T Saturation (A) Water Marks Sediment De Drift Deposits Inundation V Sparsely Ver	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) /ers (A5) A10) ow Dark Sur urface (A12) f observed): / Indicators: Prin er (A1)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches hary Indicators	be to depth Color Color Sicon, RM=Re Color	educed Mate Hydric Sandy for Sandy for Sandy for Stripper Loamy Loamy Deplete Hydrogen Sulficidized Rhizoesence of Recent Iron Rocent Iron	rix, CS Soil I Mucky Icky P Gleyed Mucky Gleyed Mate I Leave I (B13) Plants ide Ocosphel educe eduction face (I Data	Redox Feature * Loc** Loc** Loc**	**Locati	res absence ure L ion: PL=Pc Rec Dep Rec Indicate Coa Iron Ver Oth Yes Sec Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted of Geomorph	of indi Report Lini lox Dar leted Deport for Fall -Mangay Shalle er condary oil Crac Pattern on Wate surrows a Visible stress ic Pos	mg, M=Mate No. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. Mo. M	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restric	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck (Depleted Bel Thick Dark S ctive Layer (inches) Surface Watt High Water T Saturation (A) Water Marks Sediment De Drift Deposits Inundation V Sparsely Ver	Color 10YR 3/1 C=Concentra don (A2) (A3) Idfide (A4) (A7) (A10) ow Dark Sur (A10)	Matrix % 100 ation, D=Deplet face (A11) Type: Depth (Inches nary Indicators	be to depth Color Color Sion, RM=Re Color	educed Mate Hydric Sandy I Sandy I Sandy I Stripper Loamy Loamy Deplete I that apply atter Stained uatic Faunaue Aquatic F drogen Sulfidized Rhizzescent Iron Rein Muck Surage or Wellinger Surage or Wellinge	Type Type Trix, CS Soil I Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Mucky Gleyed Gleye	Redox Feature * Loc**	**Locati	res absence ure L ion: PL=Pc Rec Dep Rec Indicate Coa Iron Ver Oth Yes Sec Surface S Drainage Dry-Seasc Crayfish E Saturation Stunted of Geomorph	of indi Report Lini lox Dar leted Dox Depors for Fist Praii -Mangay Shalle er condar oil Crac Pattern on Wate surrows Visible Stress ic Pos ral Tes	mg, M=Mate k Surface bark Surface Problematic rie Redox anese Mas bow Dark Surface bark (B6) er Table (C8) e on Aerial sed Plants tition (D2) t (D5)	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)
Restrict FHYDROW Wetland	Pr Depth (inches) 0-18 *Type: Histosol (A1) Histic Epiped Black Histic Hydrogen St Stratified Lay 2 cm Muck Depleted Be Thick Dark S ctive Layer (in Remarks: OLOGY Ind Hydrology Surface Wat High Water In Saturation (A) Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Inundation V Sparsely Vec Dbservations	Color 10YR 3/1 C=Concentra don (A2) (A3) lifide (A4) vers (A5) A10) ow Dark Sur uurface (A12) ow Dark Sur uurface (A12) f observed): / Indicators: Print er (A1) Table (A2) (B1) Table (A2) (B1) Table (B2) S (B3) Crust (B4) S (B5) Sisible on Aeri getated Conces: Surface W Water Tab Saturation	Matrix % 100 100 ation, D=Deplet face (A11) Type: Depth (Inches nary Indicators fave Surface fater Present? lie Present? Present?	be to depth Color Color Color Signature Signature Color Colo	educed Mate Hydric Sandy F Stripped Stripped Loamy Loamy Loamy Loamy Loamy Loamy Loamy Loamy Loamy Loamy Loamy Neger Striped Stripped Loamy Loamy Loamy Neger Striped Stripped Loamy Loamy Neger Stripped No No No	Type Type Trix, CS Soil I Mucky Gleyec Redox d Matr Mucky Gleyec d Matr Mucky Gleyec d Matr Mucky Gleyec d Matr Leave (B13) Plants ide Ocospheil educe eduction face (I Data	Redox Feature * Loc** Loc** Loc**	**Locati	res results and sense results are results and sense results and sense results are results and sense results and sense results and sense results are results and sense results are results and sense results and sense results are results and se	of indi Report Lini OX Dar leted Dox Depors for Fist Praii -Manga y Shalle er ondar oil Crac Pattern on Wate Surrows i Visible r Stress ic Pos ral Tes	mg, M=Mate k Surface bark Surface Problematic rie Redox anese Mas bow Dark Surface bark (B6) er Table (C8) e on Aerial sed Plants tition (D2) t (D5)	rix (F6) le (F7) F8) se Hydric S (A16) Ses (F12 urface (F	Soils 2)

Client: Investi Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersburgic condition N N tances Prese	Lat. rg silt loam, 2 t ns typical for tir , Soil , Soil	State 39.753 o 6 per	261 cent slo ear? or Hy	Long. pes Y/N drology drology	Y	vnship, Range: Landform -82.635187 significantly disturbed naturally problematic	n <u>M</u> Datum	28 March Sectoraines NAD83	n 2024 _ E \$26, T 15I _ Local R _ NWI Cla	N, R 19W elief	
	Hydro	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X х	-	Is the Yes	DP within	a Wetland	l?	
Remai	rks: TATION												
	Stratum_	Plot size:			olute % over		ninant ecies	Indicator Statu	JS	Number of		species	1
4. 5. <u>Shrub</u> 1.		Plot size:			0	Total C	Cover			that are Ol Total numbers species ac Percent of that are Ol Prevalence	cross all st dominant BL, FACW e Index V	rata: species /, or FAC /orkshe	50.00
2. 3. 4. 5. Herb S		Plot size:			0	Total C	Cover			Total S OBL speci FACW speci FAC speci FACU speci UPL speci	ecies _ es _ cies	0 x 0 x 45 x 50 x	2 0 3 135 4 200
1. 2. 3. 4. 5.		3			50 45 5		Y Y N	FACU FAC UPL	4 3 5	Dom Prev	Preva tic Vegeta id Test for ninance Te valence Ind	Hydrophest is >50 dex is <u><</u> 3	licators: nytic Veg. 0% 5.0*
7. 8. <u>Wood</u> 1. 2.	y Vine Stratum	Plot size:			100	Total C				Prob *Indicat hydrol d	ogy must l isturbed o	rophytic V ric soil a be prese r problen	egetation* nd wetland nt, unless natic
-	Remarks:	1			0	Total C	Cover			Hydro _l Yes		-	Present? x
SOIL		file Decerin	tion: (Docori	ho to d	onth no	odod t	o doou	ment the indicator or	oonfirn	n absonos	of indicat	ore \	
	Depth	1	Matrix					Redox Feat	ures				
	(inches) 0-18	Color 10YR 4/3	100	C	olor	%	Туре	* Loc**	Text Si (Rema	arks	
	*Type: (C=Concentra	ation, D=Deple	tion, RN	И=Redu	ced Ma	trix, CS	 S=Coated Sand grains	**Locat	tion: PL=Pc	re Lining,	M=Matri	x
	Histosol (A1) Histic Epipedo		aton, B-Bopio			Hydrid Sandy	Soil I Mucky	ndicators: Mineral (S1) eat or Peat	2000	Red	ox Dark S leted Dark	urface (F	- 6)
	Black Histic (A Hydrogen Sul Stratified Layo 2 cm Muck (A Depleted Belo Thick Dark Su	fide (A4) ers (A5) (10) ow Dark Surf urface (A12)	, ,			Sandy Strippe Loamy Loamy	Redox ed Matr Mucky Gleye			Indicate Coa Iron-	st Prairie I -Mangane:	olematic H Redox (A se Masso	lydric Soils (16)
Restri	ictive Layer (if	observed):	: Type: Depth (Inches	s):				Hydric Soil Pr	esent?	Yes	N	lo	x
	Remarks: OLOGY							-					
	nd Hydrology												
		er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri	nary Indicator:		Water Aquati True A Hydro Oxidiz Presel Recer Thin N	Staine ic Faun Aquatic gen Sul ed Rhiz nce of F	d Leave a (B13) Plants Ifide Octosphe Reduction (Beduction)	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7)		Surface So Drainage F Dry-Seaso Crayfish B	Patterns (E on Water T urrows (Co Visible or Stressed ic Positior	(B6) 310) fable (C2 8) Aerial Ir Plants (I n (D2)	t) magery (C9)
	Sparsely Veg Observations ibe Recorded [Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes Oring w	Other	No No No	X X X	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicat Yes			x

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Centersbur gic condition N N tances Prese	N. Barnett Lat. 3 Irg silt loam, 2 to ns typical for time , Soil 1 , Soil 1	State: O 39.743462 6 6 percent see of year? N or N or	OH Sec	g gy N gy N	wnship, Range: Landforn -82.638348 significantly disturbed naturally problematic	Datum	Sec 2 oraines	2024 Data Pc 26, T 15N, R 19 Local Relief NWI Class:	
00	Hydro	ophytic Vege Hydri	etation Present? ric Soil Present? rology Present?	Yes	No No No	X 		Is the Yes	DP within a No	Wetland?	
Remar	rks:		ology : recent.					100	110		
	TATION			Absolute 6	% Do	minant					
1. 2. 3. 4. 5.		Plot size:		Cover		pecies	Indicator State	us	Number of that are OB Total numb	dinance Test W dominant specie L, FACW, or FA er of dominant	es o
ο.					Total	Cover	_		Percent of	oss all strata: dominant specie	es
1.	Stratum Pyrus callerya Lonicera maad		15'	40		Y Y	UPL UPL	5 5	that are OB Prevalence	SL, FACW, or FA E Index Worksh b cover of: es 0 cies 0	AC: 0.00
Herb S	Stratum_ Stellaria media Euonymus for		5'	50 50 20	Total	Cover Y	FACU UPL	<u>4</u> 5	FAC specie UPL specie Tota	ties <u>75</u>	x 4 300 x 5 375 675
	Allium vineale			10		N	FACU	4	l Hvdrophyti	ic Vegetation I	
4.	Cirsium arven	nse		10		N	FACU	4	Rapid	d Test for Hydro	phytic Veg.
	Digitaria sang Lamium purpu			5 5		N N	FACU UPL	5	Preva Morp	inance Test is > alence Index is - hological Adapt ematic Hydrophytic	≤3.0* ations*
Woody 1. 2.	y Vine Stratum	_ Plot size:	30'	100	Total	Cover			hydrolo	ors of hydric soil gy must be pres sturbed or probl	sent, unless
				0	Total	Cover				hytic Vegetation	
SOIL	Remarks:								Yes	No	Х
00				e to depth	needed	to doci	ument the indicator or		n absence c	of indicators.)	
	Depth		Matrix %	Color	%		Redox Feat e* Loc**	tures Tex	···•	Remarks	
	(inches) 0-18	Color 10YR 3/2		COIOI	/0	Турс	3 LOC	Si		Remains	
			 	 	_			+			
		+		-	+	+		+			
	*Type: C	C=Concentra	ation, D=Depletion	on, RM=Re			S=Coated Sand grains	**Loca	tion: PL=Por	e Lining, M=Ma	trix
	Histosol (A1) Histic Epipedo				Sand 5cm	dy Mucky Mucky F	Indicators: y Mineral (S1) Peat or Peat		Deple	ox Dark Surface eted Dark Surfa	ce (F7)
	Black Histic (A Hydrogen Sulf					dy Gleye dy Redox	d Matrix (S4) k (S5)			ox Depressions (rs for Problemation	
	Stratified Laye	ers (À5)		_	— Stripp	ped Matı	rix (S6)		Coas	t Prairie Redox	(A16)
	2 cm Muck (A Depleted Belo		face (A11)				y Mineral (F1) ed Matrix (F2)			Manganese Mas Shallow Dark S	
	Thick Dark Su				— Depl	eted Mat	trix (F3)		Other		ullace (i 12)
Restri	ctive Layer (if	observed):	: Type:								
	Remarks:		Depth (Inches):	<u>:</u>			Hydric Soil Pr	resent?	Yes	No	Х
	OLOGY										
Wetlar	nd Hydrology			7-1111	111			_	0		
	Surface Water		nary Indicators		tnat app ater Stain		res (B9)			ndary Indicato il Cracks (B6)	ors
	High Water Ta	able (A2)		Aqu	uatic Fau	una (B13	3) ` ´		Drainage P	atterns (B10)	
	Saturation (A3 Water Marks (ie Aquati drogen S				Dry-Seasor Crayfish Bu	Water Table (Ca)	C2)
	Sediment Dep						eres on Living Roots		Saturation \	Visible on Aeria	I Imagery (C9)
	Drift Deposits	(B3)		Pre	esence of	f Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or C Iron Deposits				cent Iron n Muck S		ion in Tilled Soil (C6)		Geomorphic FAC-Neutra	c Position (D2)	
	Inundation Vis	sìble on Aeria	ial Imagery (B7)		age or W				_1710 1100110	ar 100t (20)	
	Sparsely Vege			Oth			Donth (inches)				
Field (Observations:		ole Present?	Yes Yes	No No	X X	Depth (inches) Depth (inches)	Hvdro	lov Indicato	rs Present?	
		Saturation		Yes	No	Х	Depth (inches)	_	Yes	No	x
Descri	be Recorded L	Jata (stream	guage, monitor	ring well, ac	rial phot	.os, prev	vious inspections), if av	allable:			

Client: Investi Slope	igator(s): (%):	AEP N. Houk, N 1-3	I. Barnett Lat.	State 39.737	: <u>OH</u> 525	Section_	on, Tov	airfield County vnship, Range: Landfori -82.641287	m Te		2024 Data P 335, T 15N, R 1 Local Relief NWI Class:		
C Are No	ap Unit Name: limatic/hydrolo Vegetation Vegetation ormal Circumst	gic condition N N N tances Prese	ns typical for ti _, Soil _, Soil	ent slop me of yo N N Yes	ear? or Hy	Y/N drology drology No	N N	significantly disturbed					
SUIVIIV	-	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X 	_	Is the Yes	DP within a	wetland?		
Remai	rks:	•							•				
	Stratum	Plot size:	30'	Abso	olute %	Dom	inant	Indicator State	ile				
1. 2. 3.		FIOU SIZE.			over	Spe	ecies		lus	Number of	ninance Test W dominant spec BL, FACW, or F per of dominant	es	e t 1
4. 5.											er of dominant ross all strata:		3
<u>Shrub</u> 1. 2.	Stratum_	Plot size:			0	Total C	Cover			Percent of that are OE Prevalence Total %	dominant speci BL, FACW, or F e Index Works 6 cover <u>of:</u>	AC: heet	33.33
3. 4.										OBL specie FACW spe	cies 0	x 1 x 2	0
	Stratum	Plot size:	5'		0	Total C				FAC specie FACU specie UPL specie	cies 70 es 0	x 3 x 4 x 5	90 280 0
1. 2.	Schedonorus Poa pratensis		us		40 30		Y Y	FACU FAC	3	Tota	ıl <u>100</u> Prevalence	Index:	370 3.70
3. 4.	Trifolium repe				20 5		Y N	FACU FACU	4	Hydrophyt	ic Vegetation I d Test for Hydro	ndicator	s:
5.	Plantago lanc				5		N	FACU	4	Dom	inance Test is:	>50%	ey.
6. 7.										Morp	alence Index is hological Adap	tations*	
8.					100	Total C	`over				ematic Hydrophyti	•	
Woods 1. 2.	y Vine Stratum	_ Plot size:	30'		100	Total C	OVEI			hydrolo	ors of hydric so ogy must be pre sturbed or prob	sent, unle	
	Dama aulua	T			0	Total C	over				hytic Vegetati		ent?
SOIL	Remarks:	1								Yes	No	Х	
	Pro Depth		otion: (Descr i Matrix	be to d	epth ne	eded to	o docu	iment the indicator o Redox Fea		n absence o	of indicators.)		
	(inches) 0-18	Color 10YR 3/3	% 100	С	olor	%	Туре	e* Loc**	Tex Si (ture	Remarks		
	0-10	10110 3/3	100						Oi v	O L			
	*Type: (C=Concentra	ation, D=Deple	tion. RN	∕l=Redu	ced Ma	trix. CS	S=Coated Sand grains	**Locat	tion: PI =Po	re Linina. M=Ma	atrix	
	11		2o, 2 2 op.o			Hydrid	Soil	ndicators:	2000		- <u>J</u>		
	Histosol (A1) Histic Epipedo					5cm M	ucky É	Mineral (S1) Peat or Peat		Depl	ox Dark Surface eted Dark Surfa	ace (F7)	
	Black Histic (A Hydrogen Sul					Sandy Sandy		d Matrix (S4)			ox Depressions rs for Problemat		Soils
	Stratified Lave	ers (À5)				Strippe	d Matr	rix (S6)		Coas	st Prairie Redox	(A16)	
	2 cm Muck (A Depleted Beld	(10) ow Dark Surf	face (A11)			Loamy	Gleye	/ Mineral (F1) d Matrix (F2)			Manganese Ma Shallow Dark S		
Rostri	Thick Dark Suictive Layer (if					Deplet	ed Mat	rix (F3)		Othe	r		
		obsciveu).	Depth (Inche	s):				Hydric Soil P	resent?	Yes	No	x	
	Remarks: OLOGY												
Wetla	nd Hydrology		nary Indicator	s (chec	k all th	at appl	v)		1	Seco	ondary Indicate	ors	
	Surface Wate	er (A1)	nary marcator		Water	Staine	d Leav			Surface So	il Cracks (B6)		
	High Water Ta Saturation (A3					ic Faun Aquatic					atterns (B10) n Water Table (C2)	
	Water Marks Sediment Dep							dor (C1) res on Living Roots		Crayfish Bu	urrows (C8) Visible on Aeria	al Imagery	v (C9)
	Drift Deposits	(B3)			Prese	nce of F	Reduce	ed Iron (C4)		Stunted or	Stressed Plant	s (D1)	y (OO)
	Algal Mat or C Iron Deposits					nt Iron F Nuck Su		on in Tilled Soil (C6) (C7)	-		c Position (D2) al Test (D5)		
	Inundation Vis	sìble on Aeri		7)		e or We				_	` ,		
Field (Observations:	Surface W	ater Present?	Yes	Outel	No	Х	Depth (inches)	1				
		Saturation		Yes Yes		No No	X X	Depth (inches) Depth (inches)		loy Indicate Yes	ors Present? No	x	
Descri	ibe Recorded D				ell, aeria			ious inspections), if av	ailable:				

Client: Investi Slope	igator(s):	AEP N. Houk, N 1-3	I. Barnett Lat.	State 39.735	: <u>OH</u> 590	Secti	on, Tov	airfield County vnship, Range: Landfor 82.641314	m Te		2024 Data P 34, T 15N, R 1 Local Relief NWI Class:	
C Are No	limatic/hydrolog Vegetation Vegetation Ormal Circumst	gic condition N N ances Prese	ns typical for til , Soil , Soil	me of y N N Yes	ear? or Hy		y <u>N</u> y N	significantly disturbe naturally problematio				
	Hydro W	phytic Vege Hydri	tation Present ic Soil Present rology Present	? Yes		No No No	X X		Is the Yes	DP within a	wetland?	
Rema	rks: TATION								-			
	Stratum_	Plot size:			olute % over		ninant ecies	Indicator Sta	itus		ninance Test W	
2. 3. 4. 5.										that are OE Total numb	dominant speci BL, FACW, or F er of dominant	
Shrub 1.	Stratum Pyrus callerya	Plot size:	15'		0 40	Total (UPL	5	Percent of that are OE Prevalence	ross all strata: dominant speci BL, FACW, or F e Index Works	AC: 33.33
2. 3. 4. 5.										Total % OBL specie FACW spe FAC specie	cies 0	x 1 0 x 2 0 x 3 120
<u>Herb S</u> 1.	Stratum_ Andropogon v	Plot size:			40	Total (Cover	FACU	4	FACU specie UPL specie Tota	ties 45 es 45 I 130	x 4 180 x 5 225 525
2. 3. 4. 5.	Verbena urtici Daucus carota Solidago cana	ifolia a			30 10 5 5		N N N	FAC FAC UPL FACU	3 3 5 4	Rapi	Prevalence ic Vegetation I d Test for Hydro inance Test is a	Indicators: ophytic Veg.
6. 7. 8.						-			•	Preva Morp	alence Index is hological Adap ematic Hydrophyti	≤3.0* tations*
Wood 1. 2.	y Vine Stratum	_ Plot size:	30'		90	Total (Jover	-		hydrolo	ors of hydric soi ogy must be pre sturbed or prob	sent, unless
	Remarks:				0	Total (Cover			Hydrop Yes	hytic Vegetati No	on Present?
SOIL		('la Bassa'a	/D									
	Depth		Matrix	be to c	eptn ne			ıment the indicator o Redox Fea		n absence o	-	
	(inches) 0-7	Color 10YR 3/3	% 100	(Color	%	Туре	e* Loc**		ture C L	Remarks	
	7-18	10TR 3/3	100							-		
	*Type: C	C=Concentra	ation, D=Deple	tion, RI	M=Redu			S=Coated Sand grains Indicators:	s **Loca	tion: PL=Poi	re Lining, M=Ma	atrix
	Histosol (A1)					Sandy	Mucky	Mineral (S1)			x Dark Surface	
	Histic Epipedo Black Histic (A							eat or Peat d Matrix (S4)			eted Dark Surfa ox Depressions	
	Hydrogen Sulf	fide (A4)				Sandy	Redox	(S5) `´		Indicato	rs for Problemat	ic Hydric Soils
	Stratified Laye 2 cm Muck (A	ers (A5) 10)					ed Matr	ix (S6) / Mineral (F1)			st Prairie Redox Manganese Ma	
	Depleted Belo	w Dark Surf				Loamy	, Gleye	d Matrix (F2)		Very	Shallow Dark S	
Doctri	Thick Dark Suictive Layer (if					Deplet	ted Mat	rix (F3)		Othe	r	
Kesui	ctive Layer (ii	observeu).	Depth (Inches	s):				Hydric Soil F	Present?	Yes	No	x
	Remarks: OLOGY											
	nd Hydrology	Indicators:										
	Surface Wate		nary Indicator	s (che				es (B9)			ondary Indicato il Cracks (B6)	ors
	High Water Ta						na (B13				atterns (B10)	
	Saturation (A3						Plants				n Water Table (C2)
	Water Marks (Sediment Dep							dor (C1) res on Living Roots		Crayfish Bu Saturation	Visible on Aeria	al Imagery (C9)
	Drift Deposits	(B3)			Prese	nce of	Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or C Iron Deposits						Reducti urface (on in Tilled Soil (C6) (C7)			c Position (D2) al Test (D5)	
	Inundation Vis	sible on Aeri		7)	Guage	e or We	ell Data				()	
Field	Sparsely Vege Observations:			Yes	Other	No	Х	Depth (inches)				
, iciu	- 20001 ValiO115.	Water Tab	le Present?	Yes		No	х	Depth (inches)	Hydro		ors Present?	
Descri	ibe Recorded D	Saturation Data (stream		Yes oring w	ell, aeria	No al photo	x os, prev	Depth (inches) ious inspections), if a	vailable:	<u>Yes</u>	No	Х

Client: Investi Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt legic condition	I. Barnett Lat. oam, occasion	State: 39.7311	96 ded ar? or Hy	Section Long. Y/N rdrology	n, Tov	uirfield County vnship, Range: Landform -82.636576 significantly disturbed naturally problematic	n Floo Datum		2024 Data 335, T 15N, R Local Relied NWI Class:	19W	20 Convex N/A
	ormal Circumst	ances Prese	ent?	res .	Х			-					
	Hydro W	phytic Vege Hydri	tation Present ic Soil Present rology Present	? Yes		No No No	X X X	_	Is the Yes	DP within a	wetland?		
Remai VEGE	rks: TATION												
1. 2. 3. 4.		Plot size:			lute % over	Dom Spe		Indicator Statu	IS	Number of	ninance Test dominant spe BL, FACW, or per of domina	ecies	heet 0 3
1. 2. 3.	Stratum_	Plot size:	15'		0	Total C	over			Percent of that are OE Prevalenc Total 9 OBL specie	ross all strata dominant spe BL, FACW, or e Index Worl cover of:	FAC: sheet	0.00
4. 5. Herb 5 1. 2. 3. 4. 5.	Stratum Glycine max r Stellaria media Lamium purpu	а	5'	4	0 40 40 20		over Y Y	UPL FACU UPL	5 4 5	Rapi	es dies 4	e Index Indica drophyti	itors:
6. 7. 8.					00	Total C				Prev Morp Probl *Indicate hydrole	alence Index shological Ada ematic Hydroph ors of hydric s ogy must be p sturbed or pro- phytic Vegeta	is ≤3.0* aptation: ytic Vege soil and resent, oblemat	s* etation* wetland unless ic
	Remarks:									Yes	No	Х	
SOIL				oe to de	epth ne	eded to	docu	ment the indicator or		n absence	of indicators	.)	_
	Depth (inches)	Color	Matrix %	Co	olor	%	Туре	Redox Feature* Loc**	ures Text	ture	Remarks		
	0-18	10YR 4/2	100						Si (CL			
	*Type: C	=Concentra	ation, D=Deplet	ion, RM	l=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Po	re Lining, M=	Matrix	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	. ,			Sandy 5cm M Sandy Sandy Strippe Loamy	Mucky ucky P Gleyed Redox d Matr Mucky Gleye	Mineral (S1) eat or Peat d Matrix (S4) (S5) ix (S6) / Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron-	ox Dark Surfa eted Dark Su ox Depression rs for Problem et Prairie Red Manganese N Shallow Darl r	rface (F is (F8) atic Hyd ox (A16) Masses	ric Soils) (F12)
		Obsci vedj.	Depth (Inches):				Hydric Soil Pr	esent?	Yes	No	х	
	Remarks: OLOGY												
Wetla	nd Hydrology		nary Indicators	s (chec	k all th	at annly	٨		1	Sec	ondary Indica	ators	
	Sparsely Vege	r (A1) able (A2) B) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerietated Conc	al Imagery (B7 ave Surface)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained ic Fauna Aquatic gen Sulted Rhized Rhized Iron Ruck Sulted Iron	d Leaver (B13) Plants fide Octobre (B13) Plants (B13) Pla	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ill Cracks (B6 latterns (B10) n Water Table urrows (C8) Visible on Ae Stressed Pla c Position (D al Test (D5)) e (C2) rial Ima nts (D1)	gery (C9)
	Observations: ibe Recorded D	Water Tab Saturation	le Present? Present?	Yes Yes Yes oring we	II, aeria	No No No al photos	x x x s, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if ava	_	loy Indicate Yes	ors Present? No	x	

Client: Investi Slope Soil Ma Cl	gator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Aetna silt legic condition N N ances Prese	Lat. coam, occasiona is typical for tin , Soil , Soil	State: 39.7250	OH 039 ded ar? or Hy	Long. Y/N rdrology	on, Tov	airfield County vnship, Range: Landforn -82.632003 significantly disturbed naturally problematic	m Floo Datum		2024 Data S2, T 14N, R Local Relief NWI Class:	19W C	15 onvex N/A
SOIVIIV	Hydro	phytic Vege Hydri	tation Present? c Soil Present? rology Present?	Yes	X	No No No	X	-	Is the Yes	DP within a	a Wetland?		
Remar	ks:	0.1.4.1.4.1.1	ology i rocciii	100		110			100	140			
	TATION			Abso	lute %	Don	ninant						
Tree S 1. 2. 3. 4. 5.		Plot size:			ver		ecies	Indicator Stat	us	Number of that are OE Total numb	ninance Test dominant spe BL, FACW, or per of dominant ross all strata:	cies FAC: it	2 3
					0	Total C	Cover			Percent of	dominant spe	cies	66.67
	Stratum Sambucus cai	Plot size: nadensis			2		N	FACU	4	Prevalence	cies 30	-	00.07 0 60 120
<u>Herb S</u> 1. 2.	Stratum Poa pratensis Conium macu	latum	30'	2	20	Total (Y Y	FAC FACW	3 2	FACU species Total	cies 2 es 20 al 92 Prevalenc	x 4 x 5 e Index	8 100 288 : 3.13
3. 4. 5. 6. 7. 8.	Echinacea pai Phalaris aruno				20		Y N	UPL FACW	5 2	Rapi x Dom Prev Morp	ic Vegetation d Test for Hyd inance Test is alence Index i phological Ada ematic Hydrophy	rophyti >50% s <3.0* ptation	c Veg. s*
Woods 1. 2.	/ Vine Stratum	Plot size:	5'		0	Total (hydrold di	ors of hydric sogy must be prosturbed or prophytic Vegeta	esent, blemat	unless ic
F	Remarks:				U	Total	Jovei			Yes	x No	uon Fi	esent:
SOIL	Pro	file Descrin	tion: (Describ	e to de	nth ne	adad t	o doci	ment the indicator o	r confirm	n ahsence (of indicators		
	Depth	Ī	Matrix		-			Redox Feat	tures			,	
	(inches) 0-18	Color 10YR 3/2	% 100	Co	olor	%	Туре	* Loc**		ture C L	Remarks		
	0.10												
	*T) Canada	tion D Domint	- DM	D = 4	d N/-	4=:	Cooted Condension	**!	tion DI Do	un Linina M. N	A 4 min -	
	Type: C	=Concentra	illon, D=Deplet	ion, Kivi	=Redu			S=Coated Sand grains ndicators:	Loca	uon. PL=Po	re Lining, M=N	лашх	
	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	A3) (Sandy 5cm M	Mucky lucky P Gleyed	Mineral (S1) leat or Peat d Matrix (S4)		Depl Redo	ox Dark Surfact eted Dark Sur ox Depression rs for Problema	face (F s (F8)	,
	Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	ers (À5) [′] 10) w Dark Surf				Strippe Loamy Loamy	ed Matr Mucky Gleye	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Coas	st Prairie Redo Manganese M Shallow Dark	x (A16 asses) (F12)
Restri	ctive Layer (if	observed):							***************	Vaa	N-	.,	
F	Remarks:		Depth (Inches).				Hydric Soil P	resent?	Yes	No	Х	
	OLOGY nd Hydrology	Indicators											
vveliai		Prim	nary Indicators	(chec						Seco	ondary Indica	tors	
	Sparsely Vege	r (A1) able (A2) b) B1) sosits (B2) (B3) rust (B4) (B5) ible on Aerietated Conce	al Imagery (B7) ave Surface		Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Staine ic Faun Aquatic gen Su sed Rhiz nce of International Iron Funck Sue or Westernation	d Leav la (B13 Plants Ifide Oo zosphe Reducti Reducti urface (ell Data	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	oil Cracks (B6) Patterns (B10) In Water Table Urrows (C8) Visible on Aer Stressed Plar Ic Position (D2 In Test (D5)	(C2) ial Ima	gery (C9)
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes ring we	II. aeria	No No No al photo	X X X s. prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicato Yes	ors Present? No	x	

Client: Invest Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Urban land gic condition N N tances Prese	Lat. 3 J-Bennington cons typical for time, Soil, Soil	State:	OH 39 0 to 6 p ar? or Hyd	Long. Dercent Y/N drology drology	slopes Y		m Til Datum	Il Plains L	D24 Data Poir , T 14N, R 19W Ocal Relief JWI Class:	nt: 13 V Convex NA
SUMIN	Hydro	ophytic Vege Hydri	etation Present? ic Soil Present? rology Present?	Yes		No No No	X	-	Is the Yes	DP within a W		
Rema	rks:	reliand riyul	ology Fresent:	res		INO	X		res	No	Х	
VEGE	TATION			Absolu	ıto 9/	Dom	inant			<u> </u>		
1. 2. 3. 4. 5.		Plot size:		Cov	er		cies	Indicator Stat	us	Number of do	ance Test Wominant species FACW, or FACO of dominant	5 1
Shrub 1. 2. 3. 4.	Stratum	Plot size:	15'	0		Total C	over			Percent of dor that are OBL, Prevalence Ir Total % co OBL species FACW specie	minant species FACW, or FAC ndex Workshe over of: 0	2: 33.33 eet 0 1 0 2 0
5. Herb 5 1. 2. 3. 4. 5. 6. 7.		deracea ens		60 20 20)		over Y Y Y	FAC FACU FACU	3 4 4	Rapid T Domina Prevale	s = 60 x 40 x 100 x Prevalence In Vegetation Inc est for Hydrop ince Test is >5 ince Index is ≤ logical Adaptat	4 160 5 0 340 ddex: 3.40 dicators: hytic Veg. 0% 3.0*
8. <u>Wood</u> 1. 2.	y Vine Stratum Remarks:	_ Plot size:		10		Total C				Problema *Indicators hydrology distu	atic Hydrophytic \ of hydric soil a must be prese rbed or probler rtic Vegetation	Vegetation* and wetland ent, unless matic
SOIL	Dro	filo Docorir	tion: (Dosorih	o to do	ath no	adad te	doou	ment the indicator o	r oonfirn	n absonac of i	indicators \	
	Depth		Matrix	e to de	our ne	eueu i	uocu	Redox Fea		ii absence or i	ndicators.)	
	(inches)	Color	%	Col	or	%	Туре	* Loc**		ture	Remarks	
	0-18	10YR 4/2	100						Sit	CL		
		+										
	*Type: (:=Concentra	tion D=Denleti	on RM-	-Redu	red Mat	rix CS	=Coated Sand grains	**Loca	tion: PL=Pore L	ining M-Matr	iy
	турс. С	2=OUNCETHIE	mon, b-bepien	OII, IXIVI-	-i (Caa			ndicators:	Loca	tion. I L=I old L	-iriirig, ivi–iviati	ix .
Rostri	Histosol (A1) Histic Epipedo Black Histic (/ Hydrogen Sul Stratified Laye- 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) (10) ow Dark Surf urface (A12)	. ,	- - - - - -		5cm Me Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matri Mucky Gleyed	ix (Ś6) [,] Mineral (F1) d Matrix (F2)		Deplete Redox I Indicators f Coast P Iron-Ma	Dark Surface (Fed Dark Surface (Fed Dark Surface Depressions (Fed Problematic Fed Fed Prairie Redox (Fed Fed Park Surface	e (F7) '8) Hydric Soils A16) ses (F12)
	otive Edyer (ii	observedy.	Depth (Inches)					Hydric Soil P	resent?	Yes	No	x
	Remarks: OLOGY											
	nd Hydrology	Indicators:										
		Prim	nary Indicators					(DO)			dary Indicators	ŝ
	Sparsely Vege	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aerie			Aquati True A Hydroo Oxidiz Preser Recen Thin M	ed Rhiz	a (B13) Plants fide Oc ospher Reduce eduction	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Crayfish Burro	erns (B10) Vater Table (C2 ows (C8) sible on Aerial I ressed Plants (Position (D2)	magery (C9)
	Observations:	Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes	0.5	No No No	X X X	Depth (inches) Depth (inches) Depth (inches)	-	loy Indicators Yes	Present? No	х
Descri	ine vecolaed r	zata (stream	guage, monito	iing well	, aeria	ı buotos	s, previ	ous inspections), if av	aliable:			

Client: Investi Slope Soil M	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Marengo c	N. Barnett Lat. clay loam	State 39.718	: <u>OH</u> 202	Section Long.	on, Tov	uirfield County vnship, Range: Landforn 	n Til	28 March Sec Il Plains NAD83	2024 Data F S3, T 14N, R 1 Local Relief NWI Class:	9W Cor	11 nvex IA
Are No	limatic/hydrolo Vegetation Vegetation ormal Circumst MARY OF FIND	n N N tances Prese	_, Soil _, Soil ent?	N N Yes	or Hy	No	N N	significantly disturbed naturally problematic	i				
	V	Hydri	etation Presen ic Soil Presen rology Presen	t? Yes		No No No	Х Х Х	-	Is the Yes	DP within a	wetland?		
Rema	rks: TATION												
	Stratum	Plot size:			olute % over		inant cies	Indicator Stat	us	Number of	ninance Test V dominant spec BL, FACW, or F eer of dominant	cies	0
5. <u>Shrub</u> 1. 2. 3.	Stratum_	Plot size:	15'		0	Total C	cover			Percent of that are OF Prevalence	ross all strata: dominant spec BL, FACW, or F e Index Works 6 cover of: es 0	AC: _sheet	0.00
4. 5. Herb § 1. 2. 3. 4. 5. 6.	Stratum Dactylis glom Schedonorus Lamium purpu	arundinace	<u>5'</u> us		0 75 20 5		Cover Y Y N	FACU FACU UPL	4 4 5	FAC specie FACU specie UPL specie Tota Hydrophyt Rapi Dom	es <u>0</u> cies <u>95</u> es 5	Indicator ophytic \ >50%	0 380 25 405 4.05 ors:
7. 8. <u>Wood⁴</u> 1. 2.					0	Total C				Morp Proble *Indicate hydrole di	chological Adapematic Hydrophytors of hydric so ogy must be prosturbed or prob sturbed or prob bhytic Vegetat No	otations* cic Vegetate oil and we esent, ur olematic	etland nless
SOIL													
	Pro Depth		otion: (Descr Matrix	ibe to d	epth ne	eded to	docu	ment the indicator of Redox Feat		n absence	of indicators.)		
	(inches) 0-18	Color 10YR 3/2	%	C	olor	%	Туре	* Loc**	Text		Remarks		
	*Type: (C=Concentra	ation, D=Deple	etion, RN	/I=Redu	ced Mat	trix, CS	S=Coated Sand grains	**Locat	tion: PL=Po	re Lining, M=M	atrix	
	Histosol (A1)							ndicators: Mineral (S1)		Pode	ox Dark Surface	o (E6)	
Rostri	Histic Epipedd Black Histic (A Hydrogen Sul Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surl urface (A12)	, ,			5cm Me Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	leat or Peat d Matrix (S4) (S5) ix (S6) v Mineral (F1) d Matrix (F2)		Depl Redo Indicato Coas Iron-	eted Dark Surf ox Depressions rs for Probleman st Prairie Redox Manganese Ma Shallow Dark	ace (F7) s (F8) sic Hydric x (A16) asses (F	: Soils 12)
		obsciveu).	Depth (Inche	:s):				Hydric Soil P	resent?	Yes	No	x	
	Remarks: OLOGY											-	
	nd Hydrology												
	Surface Water High Water Taturation (AS Water Marks Sediment Deposits Algal Mat or Caron Deposits Inundation Vis Sparsely Veg	er (A1) able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc	ave Surface	7)	Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained ic Fauna Aquatic gen Sulted Rhized Rhized Iron Ruck Sulted Iron	d Leaver (B13) Plants (Fide Octoor (B14) Pla	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage P Dry-Seaso Crayfish Bu Saturation Stunted or Geomorphi	ondary Indicated il Cracks (B6) atterns (B10) an Water Table urrows (C8) Visible on Aeris Stressed Plant c Position (D2) al Test (D5)	(C2) al Image s (D1)	ry (C9)
	Observations:	Water Tab Saturation	ole Present? Present?	Yes Yes	ell, aeria	No No No al photos	x x x s, prev	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av	-	loy Indicato Yes	ors Present? No	x	

Client: Investi Slope Soil M C	igator(s):	AEP N. Houk, N 3-5 Amanda si gic condition N N ances Prese	I. Barnett Lat. It loam, 12 to 2 as typical for tim, Soil , Soil	State 39.714 0 perce	: OH 393 ent slop ear? or Hy	Long. es, eroc Y/N drology drology	led Y	irifield County vnship, Range: Landforn -82.641548 significantly disturbed naturally problematic	n Till Datum	Plains1	2024 Da S3, T 14N, Local Rel NWI Clas	R 19W ief	8A Convex NA
SOMIN	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes		No No No	X	-	Is the Yes	DP within a	a Wetland?		
Rema	rks:		ology : Toodin:	100		110	Λ		1100	110			
	TATION			Ahsc	lute %	Dom	inant			l			
1. 2. 3. 4. 5.		Plot size:			over		cies	Indicator State	us	Number of that are Of Total numb species ac	ninance Te dominant s BL, FACW, per of dominates	pecies or FAC: nant ta:	1 3
Shrub 1. 2. 3. 4.	Stratum Sassafras alba Rosa multiflora Rubus alleghe Rubus occent	a eniensis	15'		75 10 5	- 1	over Y N	FACU FACU FACU UPL	4 4 4 5	Percent of that are OE Prevalenc Total % OBL specie FACW spe	dominant s BL, FACW, e Index Wo 6 cover of: es cies	pecies or FAC: or ksheet $\frac{0}{0}$ x 1 $\frac{0}{0}$ x 2	0
5. Herb 5 1. 2. 3. 4. 5.	Stratum Dactylis glome Geum canade Alliaria petiola	ense	5'		95 50 20 10		over Y Y	FACU FAC FAC	4 3 3	Rapi	cies 1 es Il 1	lydrophy	560 25 675 3.86 cators: tic Veg.
6. 7. 8.		_ Plot size:			80	Total C				Prev Morp Probl *Indicate hydrole	alence Inde bhological A ematic Hydro ors of hydric ogy must be sturbed or p bhytic Vege	ex is <3.0 daptation phytic Vego soil and present problema	ns* ns* getation* d wetland , unless atic
	Remarks:				-					Yes	No		
SOIL	Depth (inches) 0-8 8-18	Color 10YR 3/2 10YR 4/3	Matrix	С	olor	%	Туре	Redox Feat * Loc** S=Coated Sand grains	ures Text Si (ture C L	Remarl	KS .	
	туре. С	-Concentra	ition, D-Depieti	ion, ixi	n=r\euu	Hydric	Soil I	ndicators:	Local	uon. i L–i o	ie Lilling, iv	I-IVIALITA	
Restri	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) ow Dark Surf urface (A12)	Type:			5cm Ma Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleyed	ix (S6) / Mineral (F1) d Matrix (F2) rix (F3)		Depl Redo Indicato Coas Iron- Very Othe		Surface (ons (F8) matic Hy edox (A1 Masses ark Surfa	F7) dric Soils 6) 5 (F12)
	Domorko:		Depth (Inches)):				Hydric Soil Pi	esent?	Yes	No	X	
	Remarks: OLOGY												
Wetla	nd Hydrology			/-l	111 41-	- 1 1			1	0			
	Sparsely Vege	r (A1) able (A2) b) (B1) sosits (B2) (B3) crust (B4) (B5) sible on Aerie			Water Aquat True A Hydro Oxidiz Prese Recer Thin N	Stained of Fauna Aquatic gen Sul ed Rhiz nce of F	d Leave a (B13) Plants fide Oc osphe Reduce eduction	(B14) dor (C1) res on Living Roots d Iron (C4) on in Tilled Soil (C6) C7) (D9)		Surface So Drainage F Dry-Seaso Crayfish Bo Saturation Stunted or Geomorph	ondary Indi il Cracks (E ratterns (B1 n Water Tal urrows (C8) Visible on A Stressed P Ic Position (al Test (D5)	86) 0) ble (C2) Aerial Ima lants (D1 [D2)	agery (C9))
	Observations:	Water Tab Saturation	le Present? Present?	Yes Yes Yes ring we	ell, aeria	No No No Il photos	x x x s, previ	Depth (inches) Depth (inches) Depth (inches) ious inspections), if av		loy Indicato Yes	ors Present No		

Client: Investi Slope Soil M C	igator(s): (%): ap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. 3 It loam, 6 to 12 is typical for tim , Soil , Soil	State: 9.7124 percent	OH 51 slope: ar? or Hy	Long. s, erode Y/N drology drology	n, Tow	irfield County vnship, Range: Landform -82.641544 significantly disturbed naturally problematic	n Till Datum		2024 Data Po 53, T 14N, R 19 Local Relief NWI Class:	
SOIVIIV	Hydro	phytic Vege Hydri	tation Present? c Soil Present? ology Present?	Yes		No No No	X		Is the I	DP within a	Wetland?	
Remai	rks:	vollaria i iyal	ology i roconi.	103		110			103	110	^	
	TATION			Absol	ıte %	Dom	inant					
1. 2. 3. 4. 5.		Plot size:		Cor			cies	Indicator Statu		Number of on that are OBI Total number	inance Test Wo dominant specie L, FACW, or FA er of dominant	es ₁
5.)	Total C	over			Percent of d	oss all strata: Iominant specie	s 25.00
Shrub 1. 2. 3. 4. 5.	Stratum Rubus occend Rosa multiflor		15'	1 3			Y N	UPL FACU	5 4	that are OBI Prevalence	L, FACW, or FA Index Worksh cover of: s 0 > sies 0 >	C: 25.00 eet 0
	Stratum_ Dactylis glome	Plot size:	5'	3		Total C	over Y	FACU		FACU species UPL species Total	ies <u>73</u> > s <u>10</u> >	< 4 <u>292</u>
2.	Panicum virga			3			<u>'</u> Y	FAC	3	Total	Prevalence I	
3.	Solidago cana	adensis		2			Y	FACU			c Vegetation In	ndicators:
4. 5. 6. 7. 8.	Schedonorus Taraxacum of						N N	FACU FACU	4	Domir Preva Morph	I Test for Hydrop nance Test is > Ilence Index is \(\) nological Adapta matic Hydrophytic	50% <3.0* ations*
	y Vine Stratum	_ Plot size:	30'	10	00	Total C	over	-		*Indicato	rs of hydric soil gy must be pres sturbed or proble	and wetland ent, unless
۷.	-)	Total C	over			Hydropl	hytic Vegetatio	n Present?
	Remarks:									Yes	No	Х
SOIL	Pro	file Descrip	tion: (Describ	e to de	pth ne	eded to	docu	ment the indicator or	confirm	n absence o	f indicators.)	
	Depth		Matrix	0-		0/	T	Redox Feat			Damada	
	(inches) 0-4	Color 10YR 3/3	% 100	Co	lor	%	Туре	* Loc**	Text Si		Remarks	
	4-18	10YR 4/4	100						Si C			
	*Type: C	C=Concentra	tion, D=Depleti	on, RM	=Redu			S=Coated Sand grains	**Locat	ion: PL=Pore	e Lining, M=Mat	rix
	Histosol (A1)							ndicators: Mineral (S1)		Redo	x Dark Surface	(F6)
	Histic Epipedo	on (A2)		,				eat or Peat	•		ted Dark Surface	
	Black Histic (A Hydrogen Sulf							Matrix (S4)			x Depressions (s for Problematic	
	Stratified Laye					Sandy Strippe	redox d Matr	(SS) ix (S6)			t Prairie Redox (
	2 cm Muck (A	.10)				Loamy	Mucky	Mineral (F1)		Iron-N	/langanese Mas	ses (F12)
	Depleted Belo Thick Dark Su		ace (A11)			Loamy	Gleye	d Matrix (F2)		Very S Other	Shallow Dark Su	urface (F12)
Restri	ctive Layer (if		Type:			Depicte	o iviat	11x (1 3)		Otrier		
			Depth (Inches)	:				Hydric Soil Pr	esent?	Yes	No	х
	Remarks: OLOGY											
	nd Hydrology											
	Surface Wate		nary Indicators	(check		at apply Stained		as (R9)			ndary Indicato l Cracks (B6)	rs
	High Water Ta				Aquati	ic Fauna	a (B13))		Drainage Pa	atterns (B10)	
	Saturation (A3					Aquatic I					Water Table (C	;2)
	Water Marks (Sediment Dep							dor (C1) res on Living Roots		Crayfish Bur Saturation V	/isible on Aerial	Imagery (C9)
	Drift Deposits	(B3)			Prese	nce of F	Reduce	ed Iron (C4)		Stunted or S	Stressed Plants	(D1)
	Algal Mat or C Iron Deposits					it Iron R Iuck Su		on in Tilled Soil (C6)		Geomorphic FAC-Neutra	Position (D2)	
			al Imagery (B7)			or We				i AO-INGUIIA	1 cot (D0)	
	Sparsely Vege	etated Conc	ave Surface		Other							
Field (Observations:		ater Present? le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydrol	loy Indicator	rs Present?	
		Saturation	Present?	Yes		No	Х	Depth (inches)		Yes	No No	x
Descri	be Recorded D	Data (stream	guage, monito	ring wel	l, aeria	l photos	s, prev	ious inspections), if ava	ailable:			

Client: Invest Slope Soil M C	: igator(s): (%): lap Unit Name:	AEP N. Houk, N 1-3 Amanda si gic condition N N tances Prese	Lat. ilt loam, 6 to 12 ns typical for tin , Soil , Soil	State 39.707	972 nt slope ear? or Hy	Long. s Y/N drology drology	n, Tov	nirfield County vnship, Range: Landfor -82.640540 significantly disturbed naturally problemation	rm Ti Datum		n 2024 Data S10, T 14N, Local Relia NWI Class	R 19W efC	5A Convex NA
SUMIN	Hydro	ophytic Vege Hydri	etation Present ic Soil Present rology Present	? Yes		No No No	X X X	_	Is the Yes	DP within a	a Wetland?		
Rema	rks:	volidi la riyal	ology i resent	. 163		NO	^_		1163	110	^		
	TATION			Ahsc	olute %	Dom	inant			1			
1. 2. 3. 4. 5.		Plot size:			over	Spe	cies	Indicator Sta	atus	Number of that are Ol Total numb	ninance Tes dominant sp BL, FACW, o per of domina cross all strat	ecies r FAC: ant	0 2
Shrub 1. 2. 3. 4.	<u>Stratum</u>	Plot size:	15'		0	Total C	over			Percent of that are Ol Prevalence	dominant sp BL, FACW, on the Index Work cover of: es ecies	ecies r FAC: ksheet 0 x 1 0 x 2	0.00
5. Herb 5 1. 2. 3. 4. 5. 6. 7.	Stratum Zea mays res Stellaria medi Lamium purpi	ia	5'		0 60 20 10		over Y Y N	UPL FACU UPL	5 4 5	FACU speci UPL speci Tota Hydrophy Rap Dom Prev	cies 2 es 7	on Indica drophyti is >50% is <3.0*	80 350 430 4.78 ators: c Veg.
8. <u>Wood</u> 1. 2.	y Vine Stratum				90	Total C				Prob *Indicat hydrold d	lematic Hydrop ors of hydric ogy must be isturbed or p ohytic Veget	hytic Vege soil and present, roblemat	etation* wetland unless ic
SOIL	Pro	file Descrin	tion: (Descri	he to d	enth ne	eded to	doci	ment the indicator	or confirm	n ahsanca	of indicator	١ ء	
	Depth		Matrix	JC 10 G	срит по	caca ic		Redox Fea		ii absciice	or intuicator.	3.,	7
	(inches)	Color	%	С	olor	%	Туре	e* Loc**		ture	Remark	S	
	0-18	10YR 4/4	100						51	L			_
													-
]
	*Type: (C=Concentra	tion D=Deplet	ion. RN	/l=Redu	ced Mat	rix. CS	S=Coated Sand grain	s **Loca	tion: PI =Po	re Linina. M=	-Matrix	_
	1) 00. (<u>5-00110011110</u>	mon, B-Bopiot		<u> </u>	Hydric	Soil I	ndicators:	0 2000		TO Elling, W	-iviation	
Postri	_ Histosol (A1) _ Histic Epiped _ Black Histic (, _ Hydrogen Sul _ Stratified Lay _ 2 cm Muck (A _ Depleted Belc _ Thick Dark Su ictive Layer (if	A3) Ifide (A4) ers (A5) A10) ow Dark Surf urface (A12)	. ,			5cm Mi Sandy Sandy Strippe Loamy	ucky P Gleyed Redox d Matr Mucky Gleye	ix (Ś6) / Mineral (F1) d Matrix (F2)		Dep Red Indicate Coa Iron-	ox Dark Surfaleted Dark Sileted	urface (F ns (F8) natic Hyd dox (A16 Masses	ric Soils) (F12)
ivesu i	ictive Layer (ii	observeu).	Depth (Inches):				Hydric Soil I	Present?	Yes	No	x	
	Remarks:						_	-					
	nd Hydrology	Indicators:											
		Prin	nary Indicators	s (chec							ondary Indic		
	Sparsely Veg	able (A2) 3) (B1) cosits (B2) (B3) Crust (B4) (B5) sible on Aeri etated Conc)	Aquat True A Hydro Oxidiz Prese Recer Thin N	ed Rhiz	a (B13) Plants fide Od osphe Reduce educti rface ((B14) dor (C1) res on Living Roots ed Iron (C4) on in Tilled Soil (C6) C7) (D9)		Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	oil Cracks (Bi Patterns (B10 In Water Tab urrows (C8) Visible on A Stressed Pla ic Position (I al Test (D5)	n) le (C2) erial Imag ants (D1)	gery (C9)
	Observations	: Surface W Water Tab Saturation	ater Present? le Present? Present?	Yes Yes Yes	all acric	No No No	X X X	Depth (inches) Depth (inches) Depth (inches) ious inspections), if a	-	loy Indicate Yes	ors Present	? x	
_ 55011		- 3.5 (Oli Oui II	2~~go,or.iic	·····9 **	, 40116		۰, ۲.۰۷						

Client: Investi Slope Soil M	tigator(s): (%): lap Unit Name: Climatic/hydrolog Vegetation	AEP N. Houk, N 1-3 Amanda s gic condition N	I. Barnett Lat. Ilt loam, 6 to 12 ns typical for tir , Soil	State: OH 39.704089 2 percent slope ne of year? N or Hy	Long. s, eroded Y/N drology N	significantly disturbed	n Till Datum	28 March 2024 Data Sec S10, T 14N, R Plains Local Relief NAD83 NWI Class:	19W Convex
	Vegetation ormal Circumst	ances Pres	, Soil ent?	N or Hy Yes x		naturally problematic			
SUMM	-	phytic Vege Hydr	etation Present ic Soil Present	? Yes			Is the D	P within a Wetland?	
Rema		Vetland Hyd	rology Present	? Yes	No x		Yes	No x	
VEGE	TATION			Alarahata O/	D				
1. 2. 3.		Plot size:			Dominan Species	Indicator Statu	1	Dominance Test Number of dominant spe hat are OBL, FACW, or Total number of dominan	cies
4. 5. <u>Shrub</u> 1. 2.	Stratum	Plot size:	15'	0	Total Cover		S F	oral number of dominan species across all strata: Percent of dominant speci- hat are OBL, FACW, or Prevalence Index Work Total % cover of:	cies 0.00
3. 4. 5.		Plot size:		0	Total Cover		F F	OBL species 0 FACW species 0 FAC species 0 FACU species 100	x 1 0 x 2 0 x 3 0 x 4 400 x 5 0
1. 2. 3. 4. 5.	Schedonorus	arundinace	us		Y	FACU	4	Total 100 Prevalence Hydrophytic Vegetation Rapid Test for Hyd Dominance Test is	e Index: 4.00 Indicators: rophytic Veg. >50%
6. 7.								Prevalence Index is Morphological Ada	ptations*
8.		DI		100	Total Cover			Problematic Hydrophy *Indicators of hydric se	•
1. 2.	y Vine Stratum	_ Plot size:	30					hydrology must be pr disturbed or pro	
				0	Total Cover			Hydrophytic Vegeta	
SOIL	Remarks:							Yes No	Х
OOIL				be to depth ne	eded to do	cument the indicator or		absence of indicators.)
	Depth (inches)	Color	Matrix %	Color	% Tv	Redox Featu De* Loc**	ures Textu	ire Remarks	
	0-18	10YR 4/4			,		Si L		
	*Type: C	C=Concentra	ation, D=Deple	tion, RM=Redu		CS=Coated Sand grains	**Location	on: PL=Pore Lining, M=N	1atrix
	Histosol (A1) Histic Epipedo					I Indicators: cy Mineral (S1)		Redox Dark Surfac	e (F6)
					5cm Mucky	Peat or Peat	_	Depleted Dark Sur	
	Black Histic (A Hydrogen Sulf	A3) fide (A4)			5cm Mucky Sandy Gley Sandy Red	Peat or Peat on Peat on Peat or Peat or Peat on Peat o	- - -	Depleted Dark Sur Redox Depressions Indicators for Problema	s (F8) itic Hydric Soils
	_ Black Histic (<i>F</i> _ Hydrogen Sull _ Stratified Laye _ 2 cm Muck (A	A3)` fide (A4) ers (A5) .10)	face (A11)		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc	Peat or Peat ed Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1)	- - -	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M	s (F8) htic Hydric Soils ox (A16) asses (F12)
Destri	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	, ,		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc	Peat or Peat of Peat of Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1) red Matrix (F2)	- - - -	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo	s (F8) htic Hydric Soils ox (A16) asses (F12)
	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	, ,		5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Peat or Peat of Peat of Matrix (S4) ox (S5) atrix (S6) ky Mineral (F1) red Matrix (F2)	esent?	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark	s (F8) htic Hydric Soils ox (A16) asses (F12)
	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks:	A3)` fide (A4) ers (A5) 10) ow Dark Sur urface (A12)	: Type:	:):	5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley	Peat or Peat of Peat o	esent?	Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other	s (F8) htic Hydric Soils ox (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if	A3) fide (A4) ers (A5) 10) by Dark Sur urface (A12) observed):	:Type: Depth (Inches		5cm Mucky Sandy Gley Sandy Red Sandy Muc Loamy Muc Loamy Gley Depleted M	Peat or Peat of Peat o	esent?	Depleted Dark Sur Redox Depression: Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No	s (F8) htic Hydric Soils ix (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye Stratified Belo Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY	A3) fide (A4) ers (A5) 10) ww Dark Sur urface (A12) observed)	:Type: Depth (Inches	s (check all th	5cm Mucky Sandy Gley Sandy Red Stripped Muc Loamy Muc Loamy Gley Depleted M	Peat or Peat ed Matrix (S4) (S5) atrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica	s (F8) htic Hydric Soils ix (A16) asses (F12) Surface (F12)
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Ind Hydrology Surface Wate High Water Ta Saturation (A3 Water Marks)	A3) fide (A4) ers (A5) 10) ow Dark Sur urface (A12) observed): Indicators: Prin r (A1) able (A2) 3) (B1)	:Type: Depth (Inches	s (check all the Water Aquat True / Hydro	5cm Mucky Sandy Gley Sandy Redo Stripped Ma Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (Ba Aquatic Plan gen Sulfide	Peat or Peat ed Matrix (S4) ox (S5) ttrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr aves (B9) 3) s (B14) Odor (C1)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8)	x tic Hydric Soils (A16) asses (F12) Surface (F12) x tors
HYDR	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	A3) fide (A4) ers (A5) 10) observed): Indicators: Prin r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) sible on Aeri	: Type: Depth (Inches	S (check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin N Guage	Scm Mucky Sandy Gley Sandy Redd Stripped Muc Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (B1 Aquatic Plan gen Sulfide ed Rhizosph nce of Redu	Peat or Peat ed Matrix (S4) ox (S5) attrix (S6) kty Mineral (F1) red Matrix (F2) attrix (F3) Hydric Soil Pr aves (B9) 3) ss (B14) Odor (C1) rederes on Living Roots red Iron (C4) attrix (F3)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table	x tors (C2) ital Imagery (C9) ital ital ital ital ital ital ital ital
HYDR Wetla	Black Histic (A Hydrogen Sulf Stratified Laye 2 cm Muck (A Depleted Belo Thick Dark Su ictive Layer (if Remarks: ROLOGY Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	A3) fide (A4) ers (A5) 10) observed): observed): Indicators: Prin r (A1) able (A2) 3) (B1) oosits (B2) (B3) crust (B4) (B5) sible on Aerietated Concest Surface W	Type: Depth (Inches	s (check all the Water Aquat True A Hydro Oxidiz Prese Recer Thin M	Scm Mucky Sandy Gley Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M at apply) Stained Lea ic Fauna (B1 Aquatic Plan gen Sulfide ed Rhizosph nce of Redu t Iron Redu Muck Surface	Peat or Peat ed Matrix (S4) ox (S5) ktrix (S6) ky Mineral (F1) red Matrix (F2) atrix (F3) Hydric Soil Pr Aves (B9) 3) as (B14) Odor (C1) heres on Living Roots ced Iron (C4) cition in Tilled Soil (C6) a (C7) ha (D9) Depth (inches)		Depleted Dark Sur Redox Depressions Indicators for Problema Coast Prairie Redo Iron-Manganese M Very Shallow Dark Other Yes No Secondary Indica Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Stunted or Stressed Plan Geomorphic Position (D2	x tors (C2) ital Imagery (C9) ital Imagery (C9) ttic Hydric Soils x (A16) asses (F12) x

Client: Invest Slope Soil M	igator(s):	AEP N. Houk, N 1-3 Aetna silt I gic condition N	I. Barnett Lat. coam, occasionals typical for time, Soil	State: 39.7019	OH 56 ded ar? or Hy	Section Sectio	on, Tov	irifield County vnship, Range: Landforn -82.638831 significantly disturbed naturally problematic	Datum		n 2024 _ Data S10, T 14N, I Local Relie NWI Class	R 19W ef C	1A Convex NA
	ormal Circumst	ances Prese		'es	X			-					
	Hydro W	phytic Vege Hydri	tation Present? c Soil Present? rology Present?	Yes		No No No	X х	_	Is the Yes	DP within a	a Wetland? x		
Rema VEGE	rks: TATION												
Tree S	Stratum	Plot size:	30'		ute % ver		inant cies	Indicator State	us				
1.	Juglans nigra			2	.0		Y	FACU	4		ninance Tes		heet
2. 3. 4. 5.	Robinia pseud	doacacia		1	0		Y	FACU	4	that are Of Total numb	dominant sp BL, FACW, oper of domina	or FAC: ant	1
				3	0	Total C	over	-, -		Percent of	ross all strat dominant sp	ecies	20.00
Shrub 1.	Stratum Robinia pseud	Plot size: doacacia	15'	3	0	,	Y	FACU	4		BL, FACW, o e Index Wo i	_	
2. 3. 4.	Juglans nigra				20		Υ	FACU	4	Total 9 OBL speci FACW spe	% cover <u>of:</u> es ecies 7	0 x 1 70 x 2	0 140
5.				5	0	Total C	over			FAC speci FACU spe	cies 10	0 x 3	400
Herb S	Stratum Conium macu	Plot size: <i>latum</i>	5'	7	0	,	Y	FACW	2	UPL specie Tota		10 x 5 30	50 590
2. 3.	Allium vineale				0		N N	FACU UPL	4 5	Hydronby	Prevaler tic Vegetation	nce Index	
4.	Symphyotrich		S		0		N	FACU	4	Rapi	d Test for Hy	ydrophyti	c Veg.
5. 6.						-		_			inance Test alence Index		
7. 8.											ohological Ac ematic Hydrop		
		Dist since	001	10	00	Total C	over				ors of hydric		
1.	y Vine Stratum	_ Plot size:	30					_,			ogy must be isturbed or p		
2.)	Total C	over	-, -			ohytic Veget		
SOIL	Remarks:									Yes	No	X	
JOIL				e to de	pth ne	eded to	o docu	ment the indicator or		n absence	of indicators	s.)	
	Depth (inches)	Color	Matrix %	Co	olor	%	Туре	Redox Feat	ures Text	ture	Remark	S	
	0-18	10YR 3/3	100						Si	L			
	*Type: C	C=Concentra	tion, D=Deplet	ion, RM	=Redu			S=Coated Sand grains ndicators:	**Locat	tion: PL=Po	re Lining, M=	-Matrix	
	Histosol (A1) Histic Epipedo	on (A2)						Mineral (S1) eat or Peat			ox Dark Surfa leted Dark Si		7)
	Black Histic (A	43)				Sandy	Gleyed	d Matrix (S4)		Red	ox Depressio	ns (F8)	,
	Hydrogen Sulf Stratified Laye	ers (À5)				Sandy Strippe	Redox d Matr	: (S5) ix (S6)			ors for Probler st Prairie Rec		
	2 cm Muck (A Depleted Belo	.10)	iaco (A11)			Loamy	Mucky	/ Mineral (F1) d Matrix (F2)			Manganese Shallow Da		
	Thick Dark Su	ırface (A12)				Deplete	ed Mat	rix (F3)		Othe		K Sullac	e (1°12)
Restri	ictive Layer (if	observed):	Type: Depth (Inches)):				Hydric Soil Pr	esent?	Yes	No	x	
	Remarks:												
	nd Hydrology												
	Surface Wate		nary Indicators	(cneci		Staine		es (B9)			ondary Indic oil Cracks (Bo		
	High Water Ta					ic Fauna Aquatic					Patterns (BÌ10 n Water Tab		
	Water Marks ((B1)			Hydro	gen Sul	fide Od	dor (C1)		Crayfish B	urrows (C8)	` ,	(0.0)
	Sediment Dep Drift Deposits				Prese	nce of F	Reduce	res on Living Roots ed Iron (C4)		Saturation Stunted or	Visible on A Stressed Pla	erial Imag ants (D1)	gery (C9)
	Algal Mat or C	rust (B4)			Recer	nt Iron R Muck Su	leducti	on in Tilled Soil (C6)		Geomorph	ic Position (Dalament) al Test (D5)		
	Inundation Vis	sìble on Aeri	al Imagery (B7)		Guage	e or We				- 1 70-Neuli	ai 1031 (DJ)		
Field	Sparsely Vege Observations:			Yes	Other	No	Х	Depth (inches)					
			le Present?	Yes Yes		No No	X X	Depth (inches) Depth (inches)	Hydro	loy Indicate Yes	ors Present' No	? x	
Descr	ibe Recorded D				II, aeria			ious inspections), if av	ailable:	162	INO	^	

Client: Invest Slope Soil M C	: igator(s): (%): lap Unit Name	AEP N. Houk, N 1-3 Thackery sogic condition N N tances Prese	Lat. silt loam, 0 to 2 ns typical for tin , Soil , Soil	_State 39.701 perce	e: OH 1956 nt slopes rear? or Hy	Long S Y/N rdrology	ion, Tov	airfield County vnship, Range: Landform -82.638831 significantly disturbed naturally problematic	Te		2024 Data P 10, T 14N, R 1 Local Relief NWI Class:	
	-	Hydri	etation Present' ic Soil Present' rology Present'	? Yes	X	No No No		-	Is the I	DP within a	Wetland?	
Rema	rks:			. 100		110			1.00	110		
VEGE	TATION			Ahs	olute %	Dor	ninant		1			
1. 2. 3. 4. 5.		Plot size:			Cover		ecies	Indicator Status	S	Number of that are OB Total numb	inance Test W dominant spec L, FACW, or F er of dominant	ies 3 AC:5
J .					0	Total (Cover			Percent of o	oss all strata: dominant speci	es 60.00
Shrub 1. 2. 3. 4. 5.	Stratum Robinia pseu Rubus allegh		15'		80 5		Y N	FACU FACU	4	that are OB Prevalence	L, FACW, or F lindex Works cover of: es 0 doi: 10 40	AC: 60.00
	Stratum	Plot size:			85	Total (Cover	_		FACU specie UPL specie	ies 105	
1.	Conium mac		<u> </u>		20		Υ	FACW	2	Tota		590
2. 3.	Phalaris arur Poa pratensi				20	-	Y	FACW FAC	3	Lludranhuti	Prevalence ic Vegetation	
3. 4.	Solidago can				20		Y	FACU	4		d Test for Hydro	
5. 6.	Alliaria petiol	ata			10		N	FAC	3		nance Test is a alence Index is	
7. 8.								-		Morp	hological Adap matic Hydrophyti	tations*
					90	Total (Cover				ors of hydric so	•
1.	y Vine Stratun	n_Plot size:	30'					<u></u>		•	gy must be pre sturbed or prob	
2.					0	Total (Cover				hytic Vegetati	
	Remarks:									Yes	x No	
SOIL	Pro	ofile Descrip	tion: (Descril	oe to d	lepth ne	eded t	to docu	ment the indicator or	confirm	absence c	of indicators.)	
	Depth (inches)	Color	Matrix %	-	Color	%	Type	Redox Featu	res Text	uro	Remarks	
	0-18	10YR 3/2	100	Ì	JOIO1	70	1,750	200	Si		rtomanto	
	*Type:	C=Concentra	 ation, D=Deplet	ion, R	M=Redu	ced Ma	atrix, CS	S=Coated Sand grains	**Locat	ion: PL=Por	e Lining, M=Ma	atrix
			•			Hydri	c Soil	ndicators:		Dada	v Dawle Courtain	(FC)
	_Histosol (A1) Histic Epiped							Mineral (S1) Peat or Peat	-		x Dark Surface eted Dark Surfa	
	Black Histic (Hydrogen Su						Gleye	d Matrix (S4)			x Depressions s for Problemat	
	Stratified Lay					Stripp	ed Mati	rix (S6)		Coas	t Prairie Redox	(A16)
	2 cm Muck (A Depleted Bel		face (A11)					/ Mineral (F1) d Matrix (F2)			Manganese Ma Shallow Dark S	
	Thick Dark S	urface (A12)	. ,					rix (F3)		Other		ranace (i 12)
Restri	ictive Layer (i	f observed):	Type: Depth (Inches	·				Hydric Soil Pre	sent?	Yes	No	х
	Remarks:		Deptil (mories	,.				i iyana dan i ia	,001111	103	110	
	OLOGY nd Hydrology	Indicators:										
		Prin	nary Indicators	s (che				(DO)			ndary Indicate	ors
	Surface Wate High Water T						ed Leav na (B13	es (B9))			il Cracks (B6) atterns (B10)	
	Saturation (A						Plants				Water Table (C2)
	Water Marks Sediment De							dor (C1) res on Living Roots		Crayfish Bu Saturation \	√isible on Aeria	al Imagery (C9)
	Drift Deposits	(B3) ` ´			Prese	nce of	Reduce	ed Iron (C4)		Stunted or	Stressed Plants	s (D1)
	Algal Mat or Iron Deposits	s (B5) ` ´					Reducti urface	on in Tilled Soil (C6) (C7)	Х	FAC-Neutra	c Position (D2) al Test (D5)	
	Inundation Vi	sìble on Aeri	al Imagery (B7)	Guage	e or We	ell Data				. ,	
Field	Sparsely Veg Observations			Yes	Other	No	Х	Depth (inches)	-			
			le Present?	Yes Yes		No No	X	Depth (inches) Depth (inches)	Hydrol	oy Indicato Yes	rs Present?	v
Descr	ibe Recorded				ell, aeria		s, prev	ious inspections), if avai	ilable:	162	<u>No</u>	X

Appendix D

ORAM Forms



ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🗵 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🗵 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🖾 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES ⊠ NO	If yes, Category 3.
	Question 7: Fens	☐ YES ⊠ NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES ⊠ NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	2	
	Metric 2: Buffers and surrounding land use	4	
	Metric 3: Hydrology	17	
	Metric 4: Habitat	15.5	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	5	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	43.5	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation				
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized				
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e,	YES Wetland should be evaluated for possible	⊠ NO	by the ORAM Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may				
Did you answer "Yes" to Narrative Rating No. 5	Category 3 status YES Wetland is categorized as a Category 1 wetland	⊠ NO	also be used to determine the wetland's category. Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM				
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	☐ YES Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.				
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	□ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).				
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.				
Final Category							

Final Category								
Choose One	☐ Category 1		☐ Category 3					

End of Ohio Rapid Assessment Method for Wetlands

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		r (WL-12N-PEM) Rater(s): NSB	Data: 2/27/2024
Site. I	_ancaster	(WL-12N-PEM) Rater(s): NSB	Date: 3/27/2024
2	2	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
4	6	Metric 2. Upland buffers and surrounding land use).
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. □ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pt NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fall HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	s) [*]
17	23	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	ain (1pts) //lake and other human use (1pts) upland (e.g. forest), complex (1pts) upland corridor (1pts) atturation. Score one or dbl check. nently inundated/saturated (4pts) ate/saturated (3pts) dated (2pts) rated in upper 30cm (12in) (1pts) Point source (non-storm water) Filing/grading
		Recent or no recovery (1pts) Dike Weir Storm water input	Road bed/RR track Dredging Other
15.5	38.5	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)	
		4c. Habitat alteration. Score one or double-check and average.	
	38.5	☑ None or none apparent (9pts) Check all disturbances observed ☑ Recovered (6pts) ☐ Mowing ☐ ☐ Recovering (3pts) ☐ Grazing ☐ ☐ Recent or no recovery (1pts) ☐ Clear-cutting ☐ ☐ Selective cutting ☐ ☐ Woody debris removal ☑	Herbaceous/aquatic bed removal Sedimentation Dredging
	Subtotal th	Toxic pollutants	Nutrient enrichment

Site: I	Lancaster	(WL-12N-PEM) Rate	r(s): NSB	Date: 3/27/2024
		,	` '	<u>.</u>
	38.5			
	Subtotal first pa	ge		
0	38.5	Metric 5. Special wet	lands.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 p Lake Erie coastal/tributary w Lake Erie coastal tributary w Lake Plain Sand Prairies (10pts) Relict Wet Prairies (10pts) Known occurrence state/fed Significant migratory songbin Category 1 Wetland. See Q	ots) etland-unrestricted hydro etland-restricted hydro ak Openings) (10pts) eral threatened or end d/water fowl habitat or	ology (5pts) angered species (10pts) r usage (10pts)
5	43.5			erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities		on Community Cover Scale
		Score all present using 0 to 3 scale O Aquatic Bed	e. <u>0</u>	Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's vegetation and is
		2 Emergent		of moderate quality, or comprises a significant part put is of low quality
		0 Shrub 0 Forest	2	Present and either comprises significant part of wetland's vegetation and is
		0 Forest Mudflats	3	of moderate quality or comprises a small part and is of high quality Present and comprises significant part, or more of wetland's vegetation
		0 Open Water		and is of high quality
		Other		
		6b. Horizontal (plan view) Interspersio	n Narrative	Description of Vegetation Quality
		_ Select only one.	low	Low spp diversity and/or predominance of nonnative or disturbance
		☐ High (5pts) ☐ Moderately high (4pts)	mod	Tolerant native species Native spp are dominant component of the vegetation, although nonnative
			mou	and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance
		6c. Coverage of invasive plants. Refer	· to	tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list.		
		Add or deduct points for coverage		nd Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		☐ Moderate 25-75% cover (-3pts)☐ Sparse 5-25% cover (-1)	1 2	Low 0.1 to <1ha (0.247 to 2.47) Moderate 1 to <4ha (2.47 to 9.88 acres)
		 ✓ Nearly absent >5% cover (0pts) 		High 4ha (9.88 acres) or more
		☐ Absent (1pts)		1 - 19 - 11 - 19 - 11 - 19 - 19 - 19 -
		· ,		ography Cover Scale
		6d. Micro topography	0	Absent
		Score all present using 0 to 3 scale		Present very small amounts or if more common of marginal quality Present in moderate amounts, but not of highest quality or
		2 Vegetated hummocks/tussocks 0 Coarse woody debris >15cn (6i		In small amounts of highest quality
		0 Standing dead >25cm (10in) db		Present in moderate or greater amounts and of highest quality
		0 Amphibian breeding pools		<u> </u>
		-		

GRAND TOTAL (max 100 pts)

43.5

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.								
7pts	WIDE. >50m (164ft) or more around perimeter							
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter							
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter	\boxtimes						
0pts	VERY NARROW. <10m (<32ft) around perimeter.							
	ntensity of predominant surround land use(s). Select one, or double check up to two and average score, for the tensity of the predominant land use(s) outside the wetland's buffer zone (if any).		3					
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.							
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.	\boxtimes						
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.							
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.							

6

Subtotal

Subtotal from previous page

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is \boxtimes in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated. П Seasonally saturated in the upper 30cm (12in) of soil.

11

Subtotal

3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (<i>Chamaedaphne calyculata</i>) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to <i>that type of wetland</i> . In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

_	Check all that are observed present in or near the wetland						
		ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetla	nd		filing/grading activities in o	r near the wetla	ınd
		dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
		storm water inputs (addition	n of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the	there	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	it" and	
Select one or double check adjoining number and average the score.						score	
	12pts	NONE OR NONE APPARENT	There are no modifications or no	o modit	fications that are apparent to the	Rater.	×
	7pts	RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		
	3pts	RECOVERING. The wetland	appears to be in the process of re	coverin	g from past modifications		
	1pt		 The modifications have occurre ions, and/or the modifications are 			d has not	

23

Metric	Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.				
4a.					
of ca ca alt na ha pa sh	rcle one answer. Have any soil or substrate disturbances used or appear to have used more than trivial erations to the wetland's tural soils or substrates, or we they occurred so far in the st that current conditions ould be considered to be atural"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" a "recovered" and score of 3.5	and
Soloc	Select one or double check adjoining number and average the score. score 3				
Selec	t one or double check adjoining r	number and average the score.			
	ots NONE OR NONE APPARENT	Γ. There are no modifications or n	o modifications that are apparent to	the Rater.	3
4r 3r	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a	Γ. There are no modifications or no appears to have recovered from pa	ast modifications.	the Rater.	3 □
4r 3r 2r	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland	Γ. There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be	ast modifications.		3 \[\times \]
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4r 3r 2r	ts NONE OR NONE APPARENT to RECOVERED. The wetland a total RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w	T. There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ions, and/or the modifications are of one and assign score. This questelland is in comparison to other economic appears to make the comparison of the comparison to other economic appears to the comparison to other economic appears to the comparison to other economic appears to have a comparison to other economic appears to have a comparison to other economic appears to have recovered from parappears to have r	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	3 \[\times \]
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4 p 3 p 2 p 1 1 4 b .	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear	T. There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ions, and/or the modifications are of the types of wetlands and the transition of the types of wetlands and the transition of the types of wetlands and the transition of the types of wetlands and the transition of the types of wetlands and the transition of the types of wetlands and the transition of the types of wetlands and the transition of the types of the types of its type.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	3 \\ \(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
4 p 3 p 2 p 1 1 4 b .	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a ots RECOVERING. The wetland pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear ots VERY GOOD. Wetland appear would make it excellent.	T. There are no modifications or no appears to have recovered from parappears to be in the process of real appears to the modifications are also one and assign score. This quested and is in comparison to other earse of the types of wetlands and the ars to represent the best of its type are to be a very good example of its type or claim.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	3 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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4p. 3p 2p 1 1 4b. 7p 6p 5p 4p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear to the company of the comp	T. There are no modifications or no appears to have recovered from parappears to be in the process of real papears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the part to represent the best of its type are to be a very good example of its assons, is not excellent. and appears to be a fair to good example of its a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present deserving the same assign and the same assign and the same assign and the same assign and the same assign and the same assign and the same assign and the same assign and the same assign and the same assign and the same assign as same as s	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	3
4p. 3p 2p 1 1 4b. 7p 6p 5p 4p 3p	ots NONE OR NONE APPARENT ots RECOVERED. The wetland a pt RECENT OR NO RECOVERY recovered from past modificat Habitat development. Select only rating of how well developed the w This question presumes a good se state. ots EXCELLENT. Wetland appear tots VERY GOOD. Wetland appear would make it excellent. ots GOOD. Wetland appears to be successional state, or other re ots MODERATELY GOOD. Wetland ots FAIR. Wetland appears to be disturbances, successional state.	T. There are no modifications or no appears to have recovered from parappears to be in the process of real papears to be and assign score. This quested and is in comparison to other econse of the types of wetlands and the part to represent the best of its type are to be a very good example of its assons, is not excellent. and appears to be a fair to good example of its a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sin he range in quality typical of the region or class. ts type or class but is lacking in characters but because of past or present december of its type or class. type or class but because of past or past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	3

31

4c.	evalua alterat possib approp scores disturb	ated. Ti ions that le alter oriate se s. In so	his question does not at are observed. All a ation. Evaluate wheth core that best describ me instances, the sco The Rater may chec	discriminate between wetla vailable information, field viner the alteration is trivial in es the present state of the pres can be viewed as a hal	ands wit isits, ae relation wetland bitat alt	th different rial photos n to the we l. It is appi eration cor	of the type of wetland that is types of habitat. Check all IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	possible identify a ot the most and average ery low or no	
C	heck a	all that	are observed pres	ent in or near the wetlar	nd				
·			Mowing		ĪΠ	Herb	aceous layer/aquatic bed	l removal	
		$\overline{}$	Grazing (cattle, s	heep pigs etc.)	╁╫		mentation	- Tomovai	
		$\overline{\Box}$	Clear cutting			Dred			_
		$\overline{}$	Selective cutting			Farm	-		
		$\overline{}$	Woody debris rer	moval			ent enrichment, e.g. nuis	ance algae	
		$\overline{}$	Toxic pollutants		$+$ $\overline{-}$	- 	r (specify)	a	
		$\overline{}$	Shrub/sapling rer	moval	〒		r (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance. Assign a score of 9 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 7.5					
Selec	Select one or double check adjoining number and average the score. 5.5								
9p	ts N	IONE C	R NONE APPARENT	T. There are no alterations	or no a	Iterations t	hat are apparent to the Rate	er.	
6p	ts F	RECOVI	ERED. The wetland a	appears to have recovered	from pa	st alteratio	ns.		
3p				appears to be in the proces			· ·		
1				 The alterations/ have oc s/, and/or the alterations/ a 			ccurred, and/or the wetland l	has not	
Metric	Metric 5. Special wetland communities. Maximum 10 points. Assign or deduct points if wetland has the feature described. Refer to Narrative Rating for guidance. No wetland can receive more than 10 points even if multiple categories are applicable.								
	Bog	(10pts)			Lake p	lains sand prairies (Oak	Openings) (10 p	ots)
Fen (10 pts)				Relict v	wet prairies (10 pts)				
	Old	Growth	n Forest (10 pts)			Known	occurrence of threatene	d/endangered s	species (10pts)
	Matu	ıre For	ested Wetland (5 p	ots)		Signific	cant migratory songbird/v	vaterfowl habita	t (10 pts)
	Coas	stal we	tlands, unrestricted	d hydrology (10 pts)		Catego	ory 1 wetlands (See Narr	ative Rating #5)	(-10 pts)
	Coastal wetlands, restricted hydrology (5 pts)								

38.5

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

40.5

	6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	5pts HIGH. Wetland has a high degree of interspersion □			
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion			
3pts	MODERATE. Wetland has a moderate degree of interspersion			
2pts MODERATELY LOW. Wetland has a moderately low degree of interspersion				
1pt	LOW. Wetland has a low degree of interspersion	⊠		
0pts	NONE. Wetland has no plan view interspersion			

6c. Co	6c. Coverage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.				
-5pts	Extensive. >75% areal cover of invasive species				
-3pts	Moderate 25-75% areal cover of invasive species				
-1pt	Sparse. 5-25% areal cover of invasive species				
0pts	Nearly absent. <5% areal cover of invasive species	⊠			
1pt	Absent				

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	2
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

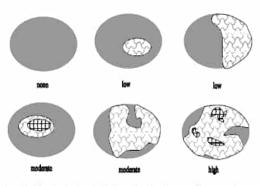


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

43.5 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🖾 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🛛 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	⊠ YES □ NO	If yes, Category 1
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES 🖾 NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	4	
	Metric 4: Habitat	3	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	3	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	2	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation			
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM			
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	☐ YES Wetland should be evaluated for possible Category 3 status	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.			
Did you answer "Yes" to Narrative Rating No. 5	☑ YESWetland is categorized as a Category 1 wetland	□ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM			
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	 ✓ YES Wetland is assigned to the appropriate category based on the scoring range 	□ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.			
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	⊠ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).			
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.			
Final Category						

Final Category						
Choose One	⊠ Category 1	☐ Category 2	☐ Category 3			

End of Ohio Rapid Assessment Method for Wetlands

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		r (MIL 10N DEM) Deter(a): NSD	Data: 2/27/2024
Site. L	_ancaster	r (WL-10N-PEM) Rater(s): NSB	Date: 3/27/2024
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
1	2	Metric 2. Upland buffers and surrounding land use	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. □ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) ■ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new falle ■ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	, ,
4	6	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	in (1pts) ake and other human use (1pts) pland (e.g. forest), complex (1pts) rupland corridor (1pts) rupland corridor (1pts) ruration. Score one or dbl check. ently inundated/saturated (4pts) te/saturated (3pts) ated (2pts) ated in upper 30cm (12in) (1pts) Point source (non-storm water) Filing/grading Road bed/RR track Dredging
3	9	Metric 4. Habitat Alteration and Development.	Other
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average. Check all disturbances observed	
	9 Subtotal th	Recovered (6pts) Recovering (3pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recent or no recovery (1pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (6pts) Recovered (5pts)	Shrub/sapling removal Herbaceous/aquatic bed removal Sedimentation Dredging Farming Nutrient enrichment

Site:	Lancaster	(WL-10N-PEM)	Rater(s): NS	SB		Date:	3/27/2024
	9 Subtotal first pa	ge	·				
-10	-1	Metric 5. Specia	l wetlands.				
Max 10pts	Subtotal	Lake Erie coastal t Lake Plain Sand P Relict Wet Prairies Known occurrence Significant migrato	10pts) etland (5 pts) ributary wetland-unrest ributary wetland-restric rairies (Oak Openings) (10pts)	ited hydrol (10pts) ed or enda habitat or	logy (5pts) Ingered species (10pts) usage (10pts)		
3	2				erspersion, micro top	ograph	у
Max 20 pts.	Subtotal	6a. Wetland Vegetation Com		_	n Community Cover Scale		
		Score all present using 0 O Aquatic Bed	to 3 scale.	0	Absent or comprises <0.1ha (0.2471 ac Present and either comprises small part		
		0 Aquatic Bed 1 Emergent		'	of moderate quality, or comprises a si		•
		0 Shrub	_	2	Present and either comprises significan		
		0 Forest		_	of moderate quality or comprises a sn		
		0 Mudflats	_	3	Present and comprises significant part,		
		0 Open Water			and is of high quality		
		Other	<u> </u>				
		6b. Horizontal (plan view) Int	terspersion I		Description of Vegetation Quality		
		Select only one. High (5pts)	_	low	Low spp diversity and/or predominance Tolerant native species		
		☐ Moderately high (4pts☐ Moderate (3pts)☐ Moderately low (2pts)☐ Low (1pts)☐ Low (1pts)☐ Moderately low (2pts)☐ Low (1pts)☐ Moderately low (2pts)☐ Moderately low (2pts)☐ Moderately high (4pts)☐ Mod	,	mod	Native spp are dominant component of and/or disturbance tolerant native spp diversity moderate to moderately high rare threatened or endangered spp	can also be p	present, and species
		☐ None (0pts)		high	A predominance of native species, with		
		6c. Coverage of invasive pla	nto Pofor to		tolerant native spp absent or virtually often, but not always, the presence of		
			_		often, but not always, the presence of	iaie, illiealei	led, or endangered spp
		Table 1 ORAM long form Add or deduct points for		Mudflat an	d Open Water Class Quality		
		Extensive >75% cove	_	0	Absent <0.1ha (0.247 acres)		
		☐ Moderate 25-75% cov	` ' '	1	Low 0.1 to <1ha (0.247 acres)		
		Sparse 5-25% cover (` ' '	2	Moderate 1 to <4ha (2.47 to 9.88 acres)	1	
		☐ Nearly absent >5% co	· ·	3	High 4ha (9.88 acres) or more)	
				3	High 4ha (9.66 acres) of filore		
		Absent (1pts)		Micro topo	graphy Cover Scale		
		6d. Micro topography	<u></u>	0	Absent		
		Score all present using 0	to 3 scale	1		common of mo	arginal quality
		0 Vegetated hummocks	_	2	Present very small amounts or if more of Present in moderate amounts, but not of		
		0 Vegetated nummocks 0 Coarse woody debris		۷	In small amounts of highest quality	ı riigilesi qual	ity Oi
		0 Standing dead >25cm		3	Present in moderate or greater amounts	s and of highe	st quality
		0 Standing dead >2501	· · · · · · · · · · · · · · · · · · ·	J	1 1000 III III III III III III III III I	and of highe	or quality
		_ o Amphibian breeding p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20
0.1	4,356	484	66	22	0.04	400	

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a	buf 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate fer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced ture, etc.		0
	7pts	WIDE. >50m (164ft) or more around perimeter		
	4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter		
	0pts	VERY NARROW. <10m (<32ft) around perimeter.	\boxtimes	
2b		ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		1
	7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
	5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
	3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.		
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.	\boxtimes	

2

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 0 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

5

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	mos to e	st appropriate description of the	gic regime. Check all observable wetland. Scores may be double ck of disturbance to, the natural hy	hecke	d and averaged. This question a	sks the Rater	
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (<i>Chamaedaphne calyculata</i>) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to <i>that type of wetland</i> . In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.						
	cate two	egory to describe the present sta	le past and ongoing disturbances, ate of the wetland. In instances wh is uncertain as to which category i	here th	e Rater believes that a wetland t	falls between	
	app ver	propriate to consider the scoring y low or no disturbance.	s are intended to be descriptive bu categories as fixed locations on a	hydrol	ogic disturbance continuum, fror	n very high to	
			eral of these possible disturband etric 4 where these same distur			l hydrologic	
г	Chec	k all that are observed prese	ent in or near the wetland	ı			
		ditch(es), in or near the we	tland		point source discharges to	the (non-storm	water)
		tile(s), in or near the wetlar	nd		filing/grading activities in o	r near the wetla	nd
		dike(s), in or near the wetla	and	\boxtimes	road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetla	and		dredging activities in or ne	ar the wetland	
		storm water inputs (additio	n of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		rbances identified above or appear to have caused in trivial alterations to the sinatural hydrologic or have they occurred so past that current y should be considered to	YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 12 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 9.5	
			X				
Sel	ect on	e or double check adjoining n	umber and average the score.				score 1
1	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
	7pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		
	3pts	RECOVERING. The wetland a	appears to be in the process of red	coverin	g from past modifications		

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

6

 \boxtimes

N	Metric 4.	determinant for the establishme range of other factors and activ to hydrology. This metric attem items checked as possible hydr disruptions in its development (ont and maintenance of specific typities which affect wetland quality a lipts to evaluate these things under cologic disturbances in Question 3 succession state). In other instant 4. In any case, the Rater should of	hile hydrology may be the single pes of wetlands and wetland process and cause disturbances to wetlands in the rubric "habitat alteration." In me will be instead alterations to a wetlees, a disturbance may be appropriated	ses, there is a that are unrelated any instances, and's habitat or ately considered	
4	the des loca Exa roa	soil and surface substrates of the criptive but not controlling. In so ations on a disturbance continuum amples of substrate/soil disturbance.	ne wetland. Note also that the labe ome instances, it may be more app im, from very high to very low or no noe include filling and grading, plo	ge. This question evaluates physicalles on the scoring categories are interpreparate to consider the scoring cate of disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-	
	of soil caused caused alterat natura have the	one answer. Have any or substrate disturbances d or appear to have d more than trivial ions to the wetland's I soils or substrates, or hey occurred so far in the nat current conditions I be considered to be al"?	YES ⊠ Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" "recovered" and score of 3.5	and
						score
8	Select on	e or double check adjoining n	umber and average the score.			1
8	Select on 4pts	NONE OR NONE APPARENT	. There are no modifications or no	o modifications that are apparent to	the Rater.	1
5		NONE OR NONE APPARENT RECOVERED. The wetland a	There are no modifications or no appears to have recovered from pa	est modifications.	the Rater.	1
5	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be parappears to be appeared to the parappear pears to be appeared to	nst modifications.		1
8	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be parappears to be appeared to the parappear pears to be appeared to	est modifications. covering from past modifications d, recently occurred, and/or the wetl		1
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati citat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or no appears to have recovered from parappears to be in the process of the process of the pro	est modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	1
	4pts 3pts 2pts 1pt	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati coitat development. Select only ng of how well developed the we se question presumes a good serve.	There are no modifications or no appears to have recovered from parappears to be in the process of the process of the pro	est modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	4pts 3pts 2pts 1pt 4b. Hat ratii This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ite. EXCELLENT. Wetland appear	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications have occurred ones, and/or the modifications are covered from the modifications	est modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	4pts 3pts 2pts 1pt 4b. Hall ratii This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ie. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to make the modifications are covered from parappears of the types of wetlands and the process of the types of the	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	4pts 3pts 2pts 1pt 4b. Halington This statt 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to make the modifications are covered from parappears of the types of wetlands and the process of the types of the	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in charass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	1
	4pts 3pts 2pts 1pt Hb. Hat ratin This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications are covered from the from	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in charass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	1
	4pts 3pts 2pts 1pt 4b. Hat ratiin This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications are covered from the from	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove elologically or hydrogeomorphically sine range in quality typical of the region or class. Is type or class but is lacking in characters but because of past or present desample of its type or class. type or class but because of past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	1

8

	evalua alterat possib approp scores disturb	ted. The ions that le alteration so in the ions in the	nis question does not at are observed. All a ation. Evaluate wheth core that best describ- me instances, the sco The Rater may chec	evaluates the "intactness" the discriminate between wetla vailable information, field viner the alteration is trivial in the state of the vores can be viewed as a halk one or several of these	nds wit sits, ae relatior wetland oitat alte	h different types of habita rial photos, maps, etc. ca n to the wetlands overall . It is appropriate to "dou eration continuum, from v	at. Check all pan be used to habitat. Selecuble check" arvery high to ve	possible identify a ct the most nd average ery low or no	
Cł	neck a	III that	are observed pres	ent in or near the wetlan	ıd				_
		\boxtimes	Mowing			Herbaceous layer	/aquatic bed	l removal	
			Grazing (cattle, s	heep, pigs, etc.)		Sedimentation			
			Clear cutting			Dredging			
			Selective cutting			Farming			
			Woody debris rer	noval		Nutrient enrichme	nt, e.g. nuis	ance algae	
			Toxic pollutants			Other (specify)			
			Shrub/sapling rer	noval		Other (specify)			
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?			dentified above to have caused lterations to the hydrologic ney occurred so t current	YES Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance.		NO Assign a score of 9 there are no or no a modifications.			t" and
Select	one o	r doub	le check adjoining n	number and average the s	core.				score 1
9p	ts N	ONE O	R NONE APPARENT	There are no alterations	or no a	terations that are appare	ent to the Rate	er.	
6p	ts R	ECOVE	ERED. The wetland a	appears to have recovered f	from pa	st alterations.			
3р	ts R	ECOVE	ERING. The wetland	appears to be in the proces	s of red	covering from past altera	tions/		
1				 The alterations/ have occ s/, and/or the alterations/ ar 			r the wetland I	has not	
Metric	Re		larrative Rating for gເ	s. Maximum 10 points. As uidance. No wetland can re					
	Bog	(10pts)			Lake plains sand p	rairies (Oak	Openings) (10 p	ots)
	Fen	(10 pts	5)			Relict wet prairies (10 pts)		
	Old (Growth	Forest (10 pts)			Known occurrence	of threatene	d/endangered s	pecies (10pts)
	Mature Forested Wetland (5 pts) Significant migratory songbird/waterfowl habitat (10)					t (10 pts)			

 \boxtimes

-1 Subtotal

Category 1 wetlands (See Narrative Rating #5) (-10 pts)

Gubiola

Coastal wetlands, unrestricted hydrology (10 pts)

Coastal wetlands, restricted hydrology (5 pts)

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

0

	prizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as the looking down upon it. See Figure 1.	1
5pts	HIGH. Wetland has a high degree of interspersion	
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion	
3pts	MODERATE. Wetland has a moderate degree of interspersion	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	
1pt	LOW. Wetland has a low degree of interspersion	\boxtimes
0pts	NONE. Wetland has no plan view interspersion	

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	⊠

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate	
various microtopographic habitat features often present in wetlands.	0
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

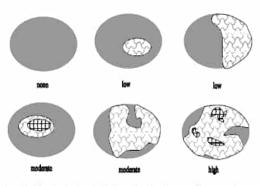


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

2 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🖾 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🖾 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🖾 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES 🖾 NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	2	
	Metric 3: Hydrology	16	
	Metric 4: Habitat	7	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	2	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	18	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	□ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.	
Did you answer "Yes" to Narrative Rating No. 5	☐ YES Wetland is categorized as a Category 1 wetland	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM	
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.	
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	⊠ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).	
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.	
Final Category Choose One ⊠ Category 1 □ Category 2 □ Category 3				

End of Ohio Rapid Assessment Method for Wetlands

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ORAM v 5.0 Field Quantitative Rating					
Site: \	West Lan	caster - WL-5-PEM Rater(s): E. Holt, L. Vine Date: 3/27/24			
1	1	Metric 1. Wetland Area (size).			
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)			
1	2	Metric 2. Upland buffers and surrounding land use.			
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. ☐ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) ☐ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) ☑ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) ☐ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) ☐ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3pts) ☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)			
6	8	Metric 3. Hydrology.			
Max 30 pts.	subtotal	3a. Sources of Water. Score all that apply High pH groundwater (5pts)			
	_	Recovering (3pts) Recent or no recovery (1pts) Weir Storm water input Filing/grading Road bed/RR track Dredging Other			
9	17	Metric 4. Habitat Alteration and Development.			
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average.			
	17	□ None or none apparent (9pts) □ Recovered (6pts) □ Recovering (3pts) □ Recent or no recovery (1pts) Check all disturbances observed □ Mowing □ □ Grazing □ □ Clear-cutting □ ○ Sedimentation □ Selective cutting □ Dredging			
	Subtotal th				

	West Land	caster - WL-5-PEM Rater(s):	E. Holt,	L. Vine Date: 3/27/24
	17 Subtotal first pa	i ige		
10	7	Metric 5. Special wetland	ls.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts) Lake Erie coastal/tributary wetland-Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10pts) Known occurrence state/federal thre Significant migratory songbird/water Category 1 Wetland. See Question	estricted hydr lings) (10pts) atened or end fowl habitat o	ology (5pts) dangered species (10pts) or usage (10pts)
14	21	Metric 6. Plant communit	ies, int	erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetati	on Community Cover Scale
		Score all present using 0 to 3 scale. O Aquatic Bed Emergent Shrub Forest O Mudflats O Open Water Other	0 1 2 3	Absent or comprises <0.1ha (0.2471 acres) contiguous area Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality Present and comprises significant part, or more of wetland's vegetation and is of high quality
		6b. Horizontal (plan view) Interspersion	Narrative	Description of Vegetation Quality
		Select only one. High (5pts) Moderately high (4pts) Moderate (3pts) Moderately low (2pts) Low (1pts)	low	Low spp diversity and/or predominance of nonnative or disturbance Tolerant native species Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		☐ None (0pts)6c. Coverage of invasive plants. Refer to	high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list. Add or deduct points for coverage	Mudflot c	and Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		Magriy shoopt > F0/ sayer (Onto)	3	High 4ha (9.88 acres) or more
		Nearly absent >5% cover (0pts)		7
		Absent (1pts)	Mi 4	<u>, , , , , , , , , , , , , , , , , , , </u>
		☐ Absent (1pts)		pography Cover Scale
		☐ Absent (1pts) 6d. Micro topography	0	pography Cover Scale Absent
		☐ Absent (1pts)		pography Cover Scale

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

	71 11 1	
6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	2
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a.	Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimat buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.	
7p	ots WIDE. >50m (164ft) or more around perimeter	
4p	ots MEDIUM. 25m to <50m (82 to <164ft) around the perimeter	
1	pt NARROW. 10m to <25m (32 to <82ft) around the perimeter	
0p	sts VERY NARROW. <10m (<32ft) around perimeter.	⊠
2b.	Intensity of predominant surround land use(s). Select one, or double check up to two and average score, for the intensity of the predominant land use(s) outside the wetland's buffer zone (if any).	
7p	ots VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.	
5p	ts LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.	
3p	ts MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.	
1	pt HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.	

3

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated. П Seasonally saturated in the upper 30cm (12in) of soil.

8

3e.	mo: to e	lodifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the nost appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being valuated.					
	reg (Ch ask abo	is very important to stress that this question does not discriminate between wetlands with different types of hydrologic gime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf thamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it ks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example sove, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no opparent, modifications to the natural hydrologic regime.					
	cate two	egory to describe the present sta	le past and ongoing disturbances, ate of the wetland. In instances wh is uncertain as to which category i	nere th	e Rater believes that a wetland f	falls between	
	app		s are intended to be descriptive bucategories as fixed locations on a				
			eral of these possible disturband etric 4 where these same distur			l hydrologic	12
_	Chec	k all that are observed prese	ent in or near the wetland				
		ditch(es), in or near the we	tland		point source discharges to	the (non-storm	water)
	☐ tile(s), in or near the wetland ☐ filing/grading activities in or near			near the wetland			
		dike(s), in or near the wetla	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetla	and		dredging activities in or ne	ar the wetland	
		storm water inputs (additio	n of water)		other (specify)		
		, ,	,		())/		
		ne answer. Have any of	YES	NO		NOT SURE	
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to		or appear to have caused in trivial alterations to the is natural hydrologic or have they occurred so past that current y should be considered to	Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	there	gn a score of 12 since e are no or no apparent ifications.	Double check none apparen "recovered" ar score of 9.5	t" and
be "	natur	al"?			12		
					12		
Sele	ct on	e or double check adjoining n	umber and average the score.				score 3
12	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
7	pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		
;	3pts	RECOVERING. The wetland a	appears to be in the process of red	coverin	g from past modifications		\boxtimes
	1pt		7. The modifications have occurred ons, and/or the modifications are o			d has not	

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М	etric 4.	determinant for the establishme range of other factors and activ to hydrology. This metric attem items checked as possible hydr disruptions in its development (ont and maintenance of specific typities which affect wetland quality a lipts to evaluate these things under cologic disturbances in Question 3 succession state). In other instant 4. In any case, the Rater should of	hile hydrology may be the single to be of wetlands and wetland process and cause disturbances to wetlands in the rubric "habitat alteration." In making will be instead alterations to a wetled to a disturbance may be appropriate carefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered	
48	the des loca Exa roa	soil and surface substrates of the criptive but not controlling. In solutions on a disturbance continuum temples of substrate/soil disturbance.	ne wetland. Note also that the labe ome instances, it may be more app im, from very high to very low or no noe include filling and grading, plo	ge. This question evaluates physicalls on the scoring categories are interpropriate to consider the scoring categories are interpreted to disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-	2
	of soil caused caused alterat natura have to past the	one answer. Have any or substrate disturbances d or appear to have d more than trivial ions to the wetland's I soils or substrates, or hey occurred so far in the nat current conditions I be considered to be al"?	Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" "recovered" and score of 3.5	and
S	elect on	e or double check adjoining n	umber and average the score.			score 2
S				o modifications that are apparent to	the Rater.	score 2
S	4pts 3pts	NONE OR NONE APPARENT		o modifications that are apparent to test modifications.	the Rater.	2
Se	4pts	NONE OR NONE APPARENT RECOVERED. The wetland a	. There are no modifications or no	st modifications.	the Rater.	2
Se	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be in the process of the parappears to be parappears to be appeared to the parappear pears to be appeared to	ist modifications. covering from past modifications d, recently occurred, and/or the wetl		2
Se	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurred.	ist modifications. covering from past modifications d, recently occurred, and/or the wetl		2 □ □ ⊠
Se 4k	4pts 3pts 2pts 1pt Hali	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or no appears to have recovered from parappears to be in the process of the process of the pro	ist modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	2 □ □ ⊠
	4pts 3pts 2pts 1pt . Hat ratii This	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati Ditat development. Select only ng of how well developed the we s question presumes a good ser e.	There are no modifications or no appears to have recovered from parappears to be in the process of the process of the pro	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands.	2
	4pts 3pts 2pts 1pt D. Hat ratii This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser e. EXCELLENT. Wetland appea	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications have occurred ones, and/or the modifications are covered from the modifications	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	4pts 3pts 2pts 1pt D. Hat ratiin This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser e. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to make the modifications are covered from parappears of the types of wetlands and the process of the types of the	st modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically since range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	2
	4pts 3pts 2pts 1pt D. Halington This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser e. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to make the modifications are covered from parappears of the types of wetlands and the process of the types of the	st modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. s type or class but is lacking in characters but because of past or present despite the covering the cov	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	2
	4pts 3pts 2pts 1pt D. Hat ratin This stat 7pts 6pts 5pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification of tat development. Select only ng of how well developed the we s question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications are covered from the from	st modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. s type or class but is lacking in characters but because of past or present despite the covering the cov	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	2
	4pts 3pts 2pts 1pt . Hat ratii This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification oitat development. Select only ng of how well developed the we s question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no appears to have recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from parappears to be in the process of recovered from the modifications are covered from the from	ist modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region or class. It is type or class but is lacking in characteristics but because of past or present decample of its type or class. type or class but because of past or past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	2

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4c.	evaluated. This question does not alterations that are observed. All a possible alteration. Evaluate whet appropriate score that best describ scores. In some instances, the sco	discriminate between wetla vailable information, field vister the alteration is trivial in es the present state of the vores can be viewed as a hab	nds wit sits, ae relation vetland sitat alt	ral habitat of the type of wetland that the different types of habitat. Check a first photos, maps, etc. can be used in to the wetlands overall habitat. Self. It is appropriate to "double check" eration continuum, from very high to ble disturbances, yet still determin	Il possible to identify a lect the most and average very low or no	3
С	heck all that are observed prese	ent in or near the wetlan	d			
				Herbaceous layer/aquatic b	ed removal	
	☐ Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		
				Dredging		
	☐ Selective cutting			Farming		
	☐ Woody debris rer	moval		Nutrient enrichment, e.g. nu	isance algae	
	☐ Toxic pollutants			Other (specify)		
	☐ Shrub/sapling rer	moval		Other (specify)		
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic Assign a score 1, 3 or 6, or an intermediate score, depending on degree of wetland's natural hydrologic Assign a score of 9 since there are no or no apparent modifications.					NOT SURE Double check none apparen "recovered" at score of 7.5	t" and
Selec	t one or double check adjoining n	number and average the so	core.			score 3
Or	ots NONE OR NONE APPARENT	There are no alterations	or no a	Iterations that are apparent to the Ra	ater	
·	ots RECOVERED. The wetland a				itor.	
	ots RECOVERING. The wetland	••				
1	pt RECENT OR NO RECOVERY recovered from past alteration			recently occurred, and/or the wetlan ping.	d has not	
Metric				r deduct points if wetland has the fea nore than 10 points even if multiple o		
	Bog (10pts)			Lake plains sand prairies (Oa	k Openings) (10 p	ots)
	Fen (10 pts)			Relict wet prairies (10 pts)		
	Old Growth Forest (10 pts)			Known occurrence of threater	ned/endangered s	pecies (10pts)
	Mature Forested Wetland (5 p	ots)		Significant migratory songbird	l/waterfowl habita	t (10 pts)
	Coastal wetlands, unrestricted	d hydrology (10 pts)	\boxtimes	Category 1 wetlands (See Na	rrative Rating #5)	(-10 pts)
	Coastal wetlands, restricted h	ydrology (5 pts)				
	Codecal frequences fly are legy (c p.e)					

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	4
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	3
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	1
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	0

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

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	6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.					
5pts	HIGH. Wetland has a high degree of interspersion					
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion					
3pts	MODERATE. Wetland has a moderate degree of interspersion	⊠				
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion					
1pt	LOW. Wetland has a low degree of interspersion					
0pts	NONE. Wetland has no plan view interspersion					

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	0
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	⊠
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	0		
Vegetated hummocks and tussocks.			
Coarse woody debris >15cm (6in) diameter			
Standing dead trees >25cm (10in) diameter at breast height			
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction			

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

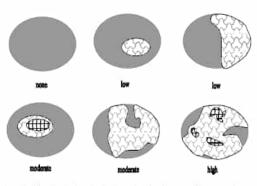


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

32 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🗵 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🗵 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🗵 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🖾 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES ☑ NO	If yes, Category 3.
	Question 7: Fens	☐ YES ⊠ NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES ☐ NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	10	
	Metric 4: Habitat	7	
	Metric 5: Special Wetland Communities	-10	
	Metric 6: Plant communities, interspersion, microtopography	4	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	13	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation			
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM			
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.			
Did you answer "Yes" to Narrative Rating No. 5	☐ YES Wetland is categorized as a Category 1 wetland	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM			
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.			
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	⊠ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).			
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.			
Final Category Choose One ⊠ Category 1 □ Category 2 □ Category 3						

End of Ohio Rapid Assessment Method for Wetlands

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Site: West Lancaster - WL-68-PEM Rater(s): E. Holt	Date: 3/27/24
max 6 pts. subtotal Select one size class and assign score. >50 acres (>20.2ha) (6pts)	
>50 acres (>20.2ha) (6pts)	
□ 0.3 to <0.3 acres (0.12 to 1.21a) (2pts) □ 1 to <0.3 acres (0.04 to <0.12ha) (1pts) □ <0.1 acres (0.04ha) (0pts)	
3 4 Metric 2. Upland buffers and surroundin	g land use.
max 14 pts. subtotal 2a. Calculate average buffer width. Select only one and assign score. Do no WIDE. Buffers average 50 m (164ft) or more around wetland per MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland with NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland very NARROW. Buffers average <10m (<32ft) around wetland 2b. Calculate average buffer width. Select only one and assign score. Do no VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife LOW. Old field (>10 years), shrub land, young second growth for MODERATELY HIGH. Residential, fenced pasture, park, conserring HIGH. Urban, industrial, open pasture, row cropping, mining, con	imeter (7pts) etland perimeter (4pts) etland perimeter (1pts) perimeter (0) bt double check. e area, etc. (7pts) rest. (5pts) vation tillage, new fallow field. (3pts)
18 22 Metric 3. Hydrology.	
High pH groundwater (5pts) Other groundwater (3pts) Precipitation (1pts) Seasonal/Intermittent surface water (3pts) Perennial surface water (lake or stream) (5pts) 3c. Maximum water depth. Select only one and assign score. >0.7 (27.6in) (3pts) 0.4 to 0.7m (15.7 to 27.6in) 2pts) <a h<="" th=""><th>Between stream/lake and other human use (1pts) Part of wetland/upland (e.g. forest), complex (1pts) Part of riparian or upland corridor (1pts) uration inundation/saturation. Score one or dbl check. Semi- to permanently inundated/saturated (4pts) Regularly inundate/saturated (3pts) Seasonally inundated (2pts) Seasonally saturated in upper 30cm (12in) (1pts) and average.</th>	Between stream/lake and other human use (1pts) Part of wetland/upland (e.g. forest), complex (1pts) Part of riparian or upland corridor (1pts) uration inundation/saturation. Score one or dbl check. Semi- to permanently inundated/saturated (4pts) Regularly inundate/saturated (3pts) Seasonally inundated (2pts) Seasonally saturated in upper 30cm (12in) (1pts) and average.
None or none apparent (12pts) ☐ Recovered (7pts) ☐ Recovering (3pts) ☐ Recent or no recovery (1pts) ☐ Weir ☐ Storm water input	Point source (non-storm water) Filing/grading Road bed/RR track Dredging ut Other
10 32 Metric 4. Habitat Alteration and Develop	oment.
Max 20pts. Subtotal 4a. Substrate disturbance. Score one or double-check and average. □ None or none apparent (4pts) □ Recovered (3pts) □ Recovered (2pts) □ Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. □ Excellent (7pts) □ Very good (6pts) □ Good (5pts) □ Moderately good (4pts) □ Fair (3pts) □ Poor to fair (2pts) □ Poor (pts) 4c. Habitat alteration. Score one or double-check and average.	
None or none apparent (9pts) Recovered (6pts) Recovering (3pts) Recent or no recovery (1pts) 32 Subtotal this page None or none apparent (9pts) Recovering (3pts) Recent or no recovery (1pts) Check all disturbances obse	Shrub/sapling removal Herbaceous/aquatic bed removal Sedimentation Cutting Dredging Dredging Dremoval Farming

Site:	West Land	caster - WL-68-PEM Rater(s):	E. Holt	Date: 3/27/24		
OILC.	vvosi Laii	543(6) - WE-00-1 LIVI INGLET(S).	L. HOIL	Date. 5/21/24		
	32					
	32					
	Subtotal first pa	ge I				
40	00					
-10	22	Metric 5. Special wetlan	ds.			
		•				
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts)				
		Fen (10pts)				
		☐ Old growth forest (10pts) ☐ Mature forested wetland (5 pts)				
		Lake Erie coastal/tributary wetland	-unrestricted hy	ydrology (10pts)		
		Lake Erie coastal tributary wetland	restricted hydr			
		☐ Lake Plain Sand Prairies (Oak Ope ☐ Relict Wet Prairies (10pts)	enings) (10pts)			
		☐ Known occurrence state/federal thi	reatened or end	dangered species (10pts)		
		Significant migratory songbird/water	er fowl habitat o	or usage (10pts)		
		☐ Category 1 Wetland. See Question	n 1 Qualitative	Rating (-10pts)		
3	25	Motric 6 Plant communi	itios int	orenergian micro tanography		
		INICIO E FIAITI COMITIUM	ilies, iiit	erspersion, micro topography		
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetation Community Cover Scale			
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area		
		0 Aquatic Bed 2 Emergent	1	Present and either comprises small part of wetland's vegetation and is		
		2 Emergent O Shrub	2	of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is		
		0 Forest		of moderate quality or comprises a small part and is of high quality		
		0 Mudflats 0 Open Water	3	Present and comprises significant part, or more of wetland's vegetation		
		Open Water Other .		and is of high quality		
			N. C	D 15 0 15 0 15		
		6b. Horizontal (plan view) Interspersion Select only one.	low	Description of Vegetation Quality Low spp diversity and/or predominance of nonnative or disturbance		
		High (5pts)	IOW	Tolerant native species		
		☐ Moderately high (4pts)	mod	Native spp are dominant component of the vegetation, although nonnative		
		☐ Moderate (3pts)		and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of		
		✓ Moderately low (2pts)✓ Low (1pts)		rare threatened or endangered spp		
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance		
		Co. Conserva of immedia alone Defents		tolerant native spp absent or virtually absent, and high spp diversity and		
		6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list.		often, but not always, the presence of rare, threatened, or endangered spp		
		Add or deduct points for coverage	Mudflat a	and Open Water Class Quality		
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)		
		☐ Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)		
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)		
		Nearly absent >5% cover (0pts)	3	High 4ha (9.88 acres) or more		
		Absent (1pts)	Micro ton	ography Cover Scale		
		6d. Micro topography	0	Absent		
		Score all present using 0 to 3 scale.	1	Present very small amounts or if more common of marginal quality		
		0 Vegetated hummocks/tussocks	2	Present in moderate amounts, but not of highest quality or		
		Coarse woody debris >15cn (6in)		In small amounts of highest quality		
		0 Standing dead >25cm (10in) dbh 0 Amphibian breeding pools	3	Present in moderate or greater amounts and of highest quality		

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.					
7pts	WIDE. >50m (164ft) or more around perimeter				
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter				
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter				
0pts	VERY NARROW. <10m (<32ft) around perimeter.				
	ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		3		
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.				
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		·		
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.				
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.				

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Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

11

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

r t	e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.					
r (8	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (<i>Chamaedaphne calyculata</i>) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to <i>that type of wetland</i> . In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.					
t	Once the Rater has listed all possib category to describe the present sta wo categories, or where the Rater average the score.	ate of the wetland. In instances w	here th	e Rater believes that a wetland t	alls between	
á	The labels on the scoring categorie appropriate to consider the scoring very low or no disturbance.					
	The Rater may check one or sever regime is intact. However, see M				l hydrologic	12
Ch	eck all that are observed pres	ent in or near the wetland				
	ditch(es), in or near the we	etland		point source discharges to	the (non-storm	water)
	tile(s), in or near the wetla	nd		filing/grading activities in o	r near the wetla	and
	dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	I
	weir(s), in or near the wetla	and		dredging activities in or ne	ar the wetland	
	storm water inputs (addition	on of water)		other (specify)		
		YES Assign a score 1, 3 or 7, or an intermediate score,		ign a score of 12 since e are no or no apparent	NOT SURE Double check	
wetlan regime far in t hydrol	more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?					
DC 11a	шш :			12		
Select	one or double check adjoining n	number and average the score.				score 1
12pt	NONE OR NONE APPARENT	T. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
7pt:	s RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		
3pt	s RECOVERING. The wetland	appears to be in the process of re	coverir	g from past modifications		

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

24

 \boxtimes

Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.						
4a.						
Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"? YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance. NO Assign a score of 4 since there are no or no apparent modifications. POUDLE CONTROLL OF SURE DOUBLE CHOCK "no none apparent modifications." "recovered" and a score of 3.5				and		
Select one or double check adjoining number and average the score.						
Sel	ect one or double check a	adjoining number a	nd average the score.			score
				15 11 11 11		2
	4pts NONE OR NONE A	APPARENT. There a	are no modifications or n	o modifications that are apparent to	the Rater.	2
	4pts NONE OR NONE A 3pts RECOVERED. The	APPARENT. There a	are no modifications or no	ast modifications.	the Rater.	2
	4pts NONE OR NONE A 3pts RECOVERED. Th 2pts RECOVERING. Th	APPARENT. There are wetland appears to the wetland appears to	are no modifications or no have recovered from pa to be in the process of re-	ast modifications.		2
	4pts NONE OR NONE A 3pts RECOVERED. Th 2pts RECOVERING. Th 1pt RECENT OR NO F	APPARENT. There are wetland appears to the wetland appears to RECOVERY. The mo	are no modifications or no have recovered from pa to be in the process of re-	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		2
	4pts NONE OR NONE A 3pts RECOVERED. Th 2pts RECOVERING. TI 1pt RECENT OR NO F recovered from pas Habitat development. rating of how well development.	APPARENT. There are wetland appears to the wetland is in the wetland in the wetland is in the wetland in the wetland is in the wetland in the wetland in the wetland is in the wetland in the wetland in the wetland is in the wetland i	have recovered from particles of the process of respectively. The process of respectively are not of the modifications are consistent of the modifications. This quest assign score. This quest a comparison to other econsistent of the process of th	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	land has not erall qualitative milar wetlands.	2
4b.	4pts NONE OR NONE A 3pts RECOVERED. Th 2pts RECOVERING. TI 1pt RECENT OR NO F recovered from pas Habitat development. rating of how well development. This question presumes state.	e wetland appears to the wetland appears to the wetland appears to RECOVERY. The most st modifications, and/	have recovered from particles of the process of respectively. The process of respectively are not of the modifications are consistent of the modifications. This quest assign score. This quest a comparison to other econsistent of the process of th	ast modifications. covering from past modifications d, recently occurred, and/or the wetlengoing. tion asks the Rater to assign an overologically or hydrogeomorphically sine range in quality typical of the region	land has not erall qualitative milar wetlands.	2
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eval alter poss app scor distr	4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.							
Chec	k all that	are observed prese	ent in or near the wetland	b				-
		Mowing	!			Herbaceous layer/aquatic bed	l removal	
		Grazing (cattle, sl	heep, pigs, etc.)			Sedimentation		
		Clear cutting			\perp	Dredging		
		Selective cutting				Farming		
		Woody debris ren	noval		\perp	Nutrient enrichment, e.g. nuisa	ance algae	
		Toxic pollutants			\perp	Other (specify)		
		Shrub/sapling ren	noval		$oxed{oxed}$	Other (specify)		
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so		YES Assign a score 1, 3 or 6 or an intermediate scor depending on degree or recovery from the disturbance.	or 6, Assign a score of 9 since Double none apperent modifications.		none apparer	check "none or oparent" and red" and assign a		
			number and average the sc		- Hor	" 45 at any apparent to the Rate		score 3
9pts 6pts			appears to have recovered fr			rations that are apparent to the Rate	ır.	
3pts			appears to have recovered in					
1pt	RECENT	T OR NO RECOVERY		urred,	, rece	cently occurred, and/or the wetland h	nas not	
		Narrative Rating for gu				educt points if wetland has the featur e than 10 points even if multiple cate		
Вс	og (10pts	(ن			Īι	Lake plains sand prairies (Oak Openings) (10 pts)		ots)
☐ Fe	en (10 pts	s)			F	Relict wet prairies (10 pts)		
	d Growth	h Forest (10 pts)			Tr	Known occurrence of threatene	d/endangered s	species (10pts)
☐ Ma	ature For	rested Wetland (5 p	ots)		[5	Significant migratory songbird/waterfowl habitat (10 pts)		
☐ Co	oastal we	etlands, unrestricted	d hydrology (10 pts)	\boxtimes		Category 1 wetlands (See Narra	ative Rating #5)	(-10 pts)
☐ Co	oastal wε	etlands, restricted hy	ydrology (5 pts)	_	l			

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

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6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.			
5pts	HIGH. Wetland has a high degree of interspersion		
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion		
3pts	MODERATE. Wetland has a moderate degree of interspersion	\boxtimes	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion		
1pt	LOW. Wetland has a low degree of interspersion		
0pts	NONE. Wetland has no plan view interspersion		

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	⊠
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	0
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

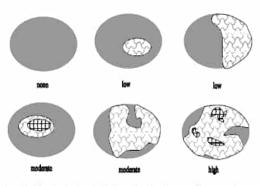


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

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GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🛛 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🛛 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🛛 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🗵 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🗵 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES 🖾 NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🗵 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	2	
	Metric 2: Buffers and surrounding land use	3	
	Metric 3: Hydrology	10	
	Metric 4: Habitat	6	
	Metric 5: Special Wetland Communities	-9	
	Metric 6: Plant communities, interspersion, microtopography	7	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	19	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	☐ YES Wetland is categorized as a Category 1 wetland	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	⊠ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.
Choose One		Final Ca	ategory Category 2

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	
Site:	West Lan	caster - WL-60-PEM Rater(s): E. Holt, L. Vine Date: 3/27/24	
2	2	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.12 to 1.2ha) (2pts)	
4	6	Metric 2. Upland buffers and surrounding land use.	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. ☐ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3pts) HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
	ı	☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
13	19	Metric 3. Hydrology.	
Max 30 pts.	subtotal	3a. Sources of Water. Score all that apply	ots) ck.)
		□ None or none apparent (12pts) Check all disturbances observed □ Recovered (7pts) □ Ditch □ Point source (non-storm wate □ Recovering (3pts) □ Tile □ Filing/grading □ Recent or no recovery (1pts) □ Dike □ Road bed/RR track □ Weir □ Dredging □ Storm water input Other	:r)
10	29	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts) 4c. Habitat alteration. Score one or double-check and average.	
	29	None or none apparent (9pts) Check all disturbances observed Shrub/sapling removal Recovering (3pts) Grazing Herbaceous/aquatic bed ren Sedimentation Selective cutting Dredging Woody debris removal Farming Toxic pollutants Nutrient enrichment Nutrient enrichment	noval
	Subtotal th	iio hade	

Site:	West Lan	caster - WL-60-PEM Rater(s):	E. Holt	Date: 3/27/24
		•		
	29			
	Subtotal first pa	nge		
-10	19	Metric 5. Special wetland	S.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts) Lake Erie coastal/tributary wetland-ur Lake Plain Sand Prairies (Oak Openi Relict Wet Prairies (10pts) Known occurrence state/federal threa Significant migratory songbird/water for Category 1 Wetland. See Question 1	estricted hydrongs) (10pts) atened or endowledown	ology (5pts) dangered species (10pts) r usage (10pts)
4	23	Metric 6. Plant communiti	es, int	erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetati	on Community Cover Scale
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		0 Aquatic Bed	1	Present and either comprises small part of wetland's vegetation and is
		3 Emergent 1 Shrub	2	of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is
		0 Forest	2	of moderate quality or comprises a small part and is of high quality
		0 Mudflats	3	Present and comprises significant part, or more of wetland's vegetation
		0 Open Water		and is of high quality
		Other		
		6b. Horizontal (plan view) Interspersion	Marrativo	Description of Vagatation Quality
		Select only one.	low	Description of Vegetation Quality Low spp diversity and/or predominance of nonnative or disturbance
		High (5pts)	IOW	Tolerant native species
			mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance
		6c. Coverage of invasive plants. Refer to		tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for list. Add or deduct points for coverage	Mudflat a	and Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		☐ Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		☐ Nearly absent >5% cover (0pts)	3	High 4ha (9.88 acres) or more
		☐ Absent (1pts)	Micro top	ography Cover Scale
		6d. Micro topography	0	Absent
		Score all present using 0 to 3 scale.	1	Present very small amounts or if more common of marginal quality
		Vegetated hummocks/tussocks	2	Present in moderate amounts, but not of highest quality or
		O Coarse woody debris >15cn (6in)		In small amounts of highest quality
		O Standing dead >25cm (10in) dbh	3	Present in moderate or greater amounts and of highest quality
		0 Amphibian breeding pools		

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a.	buff 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate fer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land is are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced sture, etc.		1
7	pts	WIDE. >50m (164ft) or more around perimeter		
4	pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter	⊠	
0	pts	VERY NARROW. <10m (<32ft) around perimeter.		
2b.		ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		3
7	pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
5	pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
3	pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.	\boxtimes	
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.		

6

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 2 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. \boxtimes 2pts Seasonally inundated.

8

П

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	mos to e	st appropriate description of the	gic regime. Check all observable wetland. Scores may be double cock of disturbance to, the natural hy	hecke	d and averaged. This question a	sks the Rater	
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.						
	cate two	egory to describe the present sta	ole past and ongoing disturbances, ate of the wetland. In instances wl is uncertain as to which category i	here th	e Rater believes that a wetland f	falls between	
	app ver	propriate to consider the scoring y low or no disturbance.	s are intended to be descriptive bu categories as fixed locations on a eral of these possible disturbance	hydrol	ogic disturbance continuum, fron	n very high to	
	reg	ime is intact. However, see M	etric 4 where these same distur			,	12
Г.	_ 1	k all that are observed prese					
H	-	ditch(es), in or near the we		point source discharges to the (non-storm water)			
H		tile(s), in or near the wetlan					
	_	dike(s), in or near the wetla					
Į.	╝	weir(s), in or near the wetla	and		dredging activities in or near the wetland		
		storm water inputs (additio	n of water)		other (specify)		
the cause more wether regin far in hydr	Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score 1, 3 or 7, an intermediate score, epending on degree of covery from the Assign a score of 12 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 9.5	
					12		
Sele	ct on	e or double check adjoining n	umber and average the score.				score 12
12	2pts	NONE OR NONE APPARENT	. There are no modifications or no	o modi	fications that are apparent to the	Rater.	
7	'pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		
3	Rnts	RECOVERING. The wetland appears to be in the process of recovering from past modifications.					

RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.

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		determinant for the establishme range of other factors and activ to hydrology. This metric attem items checked as possible hydr disruptions in its development (int and maintenance of specific tylities which affect wetland quality a pts to evaluate these things under ologic disturbances in Question 3 succession state). In other instand. In any case, the Rater should a	hile hydrology may be the single of pes of wetlands and wetland process and cause disturbances to wetlands to the rubric "habitat alteration." In we will be instead alterations to a wetlees, a disturbance may be appropriacarefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered	
4a.	the des loca Exa	soil and surface substrates of the criptive but not controlling. In so ations on a disturbance continuum amples of substrate/soil disturbance.	ne wetland. Note also that the labore instances, it may be more aport, from very high to very low or note include filling and grading, plo	ge. This question evaluates physica els on the scoring categories are inte propriate to consider the scoring cate o disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-	1
	of soil caused caused alterat natura have the past the caused section of the cause	one answer. Have any or substrate disturbances d or appear to have d more than trivial ions to the wetland's I soils or substrates, or hey occurred so far in the nat current conditions I be considered to be al"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" a "recovered" and score of 3.5	and
Se	lect on	e or double check adjoining n	umber and average the score			score
			umber and average the score.			3
	4pts			o modifications that are apparent to	the Rater.	
		NONE OR NONE APPARENT			the Rater.	
	4pts 3pts 2pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland	There are no modifications or no ppears to have recovered from parappears to be in the process of re-	ast modifications.		
	4pts 3pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY	There are no modifications or no ppears to have recovered from parappears to be in the process of re-	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		
4b.	4pts 3pts 2pts 1pt Hateratin	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati citat development. Select only ng of how well developed the we s question presumes a good ser	There are no modifications or no appears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other economic are not one and assign score of the comparison to other economic are not one and assign score.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	
	4pts 3pts 2pts 1pt Hateratin	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati contact development. Select only ng of how well developed the we se question presumes a good server.	There are no modifications or no appears to have recovered from parappears to be in the process of reference ones, and/or the modifications are one and assign score. This questand is in comparison to other economic are not one and assign score of the comparison to other economic are not one and assign score.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	
	4pts 3pts 2pts 1pt Hat ratin This stat	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ie. EXCELLENT. Wetland appear	There are no modifications or no ppears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questiand is in comparison to other express of the types of wetlands and the rest to represent the best of its type	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	4
	4pts 3pts 2pts 1pt Hatirating This state 7pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we se question presumes a good ser ite. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent.	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questand is in comparison to other extense of the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or the good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4
	4pts 3pts 2pts 1pt Hat ratin This stat 7pts 6pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modificati bitat development. Select only ng of how well developed the we s question presumes a good ser te. EXCELLENT. Wetland appear VERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no appears to have recovered from parappears to be in the process of red. The modifications have occurre ons, and/or the modifications are one and assign score. This questand is in comparison to other extense of the types of wetlands and the rest to represent the best of its type are to be a very good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to be a good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or classically appears to the good example of its type or the good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4
	4pts 3pts 2pts 1pt Hat ratin This stat 7pts 6pts 5pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification of the development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re	There are no modifications or no ppears to have recovered from parappears to be in the process of references. The modifications have occurred one, and/or the modifications are one and assign score. This quested that is in comparison to other expected in the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4
	4pts 3pts 2pts 1pt Hat ratiin This stat 7pts 6pts 5pts 4pts	NONE OR NONE APPARENT RECOVERED. The wetland a RECOVERING. The wetland a RECENT OR NO RECOVERY recovered from past modification outst development. Select only ing of how well developed the we is question presumes a good serve. EXCELLENT. Wetland appear WERY GOOD. Wetland appear would make it excellent. GOOD. Wetland appears to b successional state, or other re MODERATELY GOOD. Wetland FAIR. Wetland appears to be disturbances, successional state.	There are no modifications or no ppears to have recovered from parappears to be in the process of references. The modifications have occurred one, and/or the modifications are one and assign score. This quested that is in comparison to other expected in the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of wetlands and the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of the types of the process of the types of the process of the process of the types of the process of	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sin he range in quality typical of the region or class. ts type or class but is lacking in characters but because of past or present december of its type or class. type or class but because of past or past or	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4

4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.						
CI	Check all that are observed present in or near the wetland				_	
				Herbaceous layer/aquatic bed	l removal	
	☐ Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		
	☐ Clear cutting			Dredging		
	⊠ Selective cutting			Farming		
	☐ Woody debris re	moval		Nutrient enrichment, e.g. nuis	ance algae	
	☐ Toxic pollutants			Other (specify)		
	☐ Shrub/sapling re	moval		Other (specify)		
the di cause more wetla regim far in hydro	e one answer. Have any of isturbances identified above ed or appear to have caused than trivial alterations to the nd's natural hydrologic ne, or have they occurred so the past that current ology should be considered to atural"?	YES Assign a score 1, 3 or or an intermediate sco depending on degree or recovery from the disturbance.	ré,	NO Assign a score of 9 since there are no or no apparent modifications.	NOT SURE Double check none apparent "recovered" ar score of 7.5	" and
Salaci	t one or double check adjoining	number and average the so	core			score
Jeieci	t one or double check adjoining	diliber and average the sc				3
9p	ots NONE OR NONE APPAREN	Γ. There are no alterations of	or no al	terations that are apparent to the Rate	r.	
6p		••	· · · · · · · · · · · · · · · · · · ·			
3pts RECOVERING. The wetland appears to be in the proce		s of rec	covering from past alterations/		\boxtimes	
·	L DECENT OF NO PEOOLES	7 T				
<u>-</u>	pt RECENT OR NO RECOVER recovered from past alteration			recently occurred, and/or the wetland ling.	nas not	
1	recovered from past alteration 5. Special wetland communities	s, and/or the alterations/ ar	e ongo		re described.	
1	recovered from past alteration 5. Special wetland communities Refer to Narrative Rating for g	s, and/or the alterations/ ar	e ongo	ing. deduct points if wetland has the featu	re described. egories are	
1	c 5. Special wetland communities Refer to Narrative Rating for g applicable.	s, and/or the alterations/ ar	esign or	deduct points if wetland has the feature than 10 points even if multiple cat	re described. egories are	
1	recovered from past alteration 5. Special wetland communities Refer to Narrative Rating for g applicable. Bog (10pts)	s, and/or the alterations/ ar	esign or	deduct points if wetland has the feature than 10 points even if multiple cat Lake plains sand prairies (Oak	re described. egories are Openings) (10 p	ts)
Metric	recovered from past alteration 2. 5. Special wetland communities Refer to Narrative Rating for g applicable. Bog (10pts) Fen (10 pts)	s. Maximum 10 points. As uidance. No wetland can red	ssign or ceive m	deduct points if wetland has the feature than 10 points even if multiple cat Lake plains sand prairies (Oak Relict wet prairies (10 pts)	re described. egories are Openings) (10 p	ts)
Metric	recovered from past alteration 5. Special wetland communities Refer to Narrative Rating for g applicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts)	s. Maximum 10 points. As uidance. No wetland can red	essign or ceive m	deduct points if wetland has the feature than 10 points even if multiple cat Lake plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene	re described. egories are Openings) (10 p d/endangered s vaterfowl habitat	ts) pecies (10pts) (10 pts)
Metric	recovered from past alteration c 5. Special wetland communities. Refer to Narrative Rating for gapplicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts) Mature Forested Wetland (5 pts)	s. Maximum 10 points. As uidance. No wetland can reducts)	essign or ceive m	deduct points if wetland has the feature than 10 points even if multiple cat Lake plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene Significant migratory songbird/v	re described. egories are Openings) (10 p d/endangered s vaterfowl habitat	ts) pecies (10pts) (10 pts)

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	2
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	
	Open water . The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

38

	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as ne looking down upon it. See Figure 1.		2
5pts	HIGH. Wetland has a high degree of interspersion		
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion		
3pts	MODERATE. Wetland has a moderate degree of interspersion		
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	\boxtimes	
1pt	LOW. Wetland has a low degree of interspersion		
0pts	NONE. Wetland has no plan view interspersion		

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	⊠
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate				
various microtopographic habitat features often present in wetlands.	0			
Vegetated hummocks and tussocks.				
Coarse woody debris >15cm (6in) diameter				
Standing dead trees >25cm (10in) diameter at breast height				
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction				

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

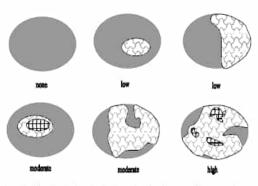


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

39 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🗵 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🗵 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🗵 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🖾 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🗵 NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES 🖾 NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	1	
	Metric 3: Hydrology	18	
	Metric 4: Habitat	9	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	3	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	32	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation		
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7,	☐ YES		Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or		
8a, 9d, 10.	Wetland is categorized as a Category 3 wetland		functional assessments to determine if the wetland has been over-categorized by the ORAM		
Did you answer "Yes" to any of the following questions:	☐ YES	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a		
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status		Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.		
Did you answer "Yes" to	☐ YES	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold		
Narrative Rating No. 5	Wetland is categorized as a Category 1 wetland		(including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM		
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.		
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	□ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).		
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.		
Final Category					

Choose One	☐ Category 1		☐ Category 3

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	Dete: 2/27/2024
Site: I	Lancaster	r - WL-50-PEM Rater(s): NSB	Date: 3/27/2024
1	1	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
1	2	Metric 2. Upland buffers and surrounding land use	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. □ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new falle HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
18	20	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	lake and other human use (1pts) pland (e.g. forest), complex (1pts) r upland corridor (1pts) turation. Score one or dbl check. ently inundated/saturated (4pts) te/saturated (3pts) lated (2pts) ated in upper 30cm (12in) (1pts) Point source (non-storm water) Filing/grading Road bed/RR track Dredging
9	29	Metric 4. Habitat Alteration and Development.	Other .
Max 20pts.	Subtotal 29	4a. Substrate disturbance. Score one or double-check and average. □ None or none apparent (4pts) □ Recovered (3pts) □ Recovered (2pts) □ Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. □ Excellent (7pts) □ Very good (6pts) □ Good (5pts) □ Moderately good (4pts) □ Fair (3pts) □ Poor to fair (2pts) □ Poor (pts) 4c. Habitat alteration. Score one or double-check and average. □ None or none apparent (9pts) □ Recovered (6pts) □ Recovered (6pts) □ Recent or no recovery (1pts) □ Selective cutting □ Woody debris removal	Sedimentation Dredging
	Subtotal th	☐ Toxic pollutants ☐	Nutrient enrichment

Site:	Lancaster	- WL-50-	PEM	Rater(s):	NSB		Date:	3/27/2024
	29 Subtotal first pa	ge	·	·		·		
0	29	Metric	5. Specia	l wetlands	S.			
Max 10pts	Subtotal	Check all tha	t apply and score as Bog (10pts) Fen (10pts) Old growth forest (' Mature forested we Lake Erie coastal/t Lake Plain Sand Pr Relict Wet Prairies Known occurrence Significant migrator Category 1 Wetland	10pts) ttland (5 pts) ributary wetland-un ributary wetland-res rairies (Oak Openin (10pts) state/federal threat y songbird/water fo	stricted hydro ngs) (10pts) tened or enda owl habitat or	logy (5pts) angered species (10pts) usage (10pts)		
3	32	Metric	6. Plant c	ommuniti	es, inte	erspersion, micro top	ograph	y
Max 20 pts.	Subtotal		land Vegetation Com		Vegetatio	n Community Cover Scale		
			re all present using 0	to 3 scale.	0	Absent or comprises <0.1ha (0.2471 ac Present and either comprises small par		
			quatic Bed mergent		'	of moderate quality, or comprises a si		•
			hrub		2	Present and either comprises significan		
			orest			of moderate quality or comprises a sn		
			ludflats)pen Water		3	Present and comprises significant part, and is of high quality	or more of wet	land's vegetation
		0	other	<u></u>				
		6b. Horiz	zontal (plan view) Int	erspersion	Narrative	Description of Vegetation Quality		
		_ Sele	ect only one. ligh (5pts)	,	low	Low spp diversity and/or predominance Tolerant native species	of nonnative of	r disturbance
		□ M □ M	loderately high (4pts loderate (3pts) loderately low (2pts) ow (1pts))	mod	Native spp are dominant component of and/or disturbance tolerant native spp diversity moderate to moderately high rare threatened or endangered spp	can also be p	resent, and species
		□ N	lone (0pts)		high	A predominance of native species, with tolerant native spp absent or virtually		
			erage of invasive pla			often, but not always, the presence of	rare, threaten	ed, or endangered spp
			e 1 ORAM long form or deduct points for		Mudflat ar	nd Open Water Class Quality		
			xtensive >75% cove	•	0	Absent <0.1ha (0.247 acres)		
			loderate 25-75% cov	· · /	1	Low 0.1 to <1ha (0.247 to 2.47)		
			parse 5-25% cover (,	2	Moderate 1 to <4ha (2.47 to 9.88 acres)	
			learly absent >5% co	ver (0pts)	3	High 4ha (9.88 acres) or more		
		⊠ A	bsent (1pts)		Micro tono	ography Cover Scale		
		6d. Micro	o topography		0	Absent		
			re all present using 0	to 3 scale.	1	Present very small amounts or if more of	common of ma	rginal quality
			egetated hummocks		2	Present in moderate amounts, but not o	of highest quali	ty or
			coarse woody debris tanding dead >25cm		3	In small amounts of highest quality Present in moderate or greater amounts	s and of highes	t quality
			mphibian breeding p					
			01					

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	1
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20
0.1	4,356	484	66	22	0.04	400	

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a	buf 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate fer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced ture, etc.		0
	7pts	WIDE. >50m (164ft) or more around perimeter		
	4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
	1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter		
	0pts	VERY NARROW. <10m (<32ft) around perimeter.	\boxtimes	
2b		ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).		1
	7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
	5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
	3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.		
	1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.	\boxtimes	

2

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 4 5pts High pH groundwater (7.5-9.0) Other groundwater \boxtimes 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 0 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

8

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e.	Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.
	It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, i asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

	Check all that are observed present in or near the wetland						
	ditch(es), in or near the wetland			point source discharges to	point source discharges to the (non-storm water)		
	☐ tile(s), in or near the wetland			filing/grading activities in or near the wetland		ind	
		dike(s), in or near the wetle	and		road beds/RR beds in or n	ear the wetland	
		weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
		storm water inputs (addition	on of water)		other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"? YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.		ther	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	it" and		
Select one or double check adjoining number and average the score.				score			
1	12pts	NONE OR NONE APPARENT	Γ. There are no modifications or n	o modi	fications that are apparent to the	Rater.	
7pts RECOVERED. The wetland appears to have recovered from past modifications.							
	3pts	RECOVERING. The wetland	appears to be in the process of re	coverin	g from past modifications		
	1pt		 The modifications have occurre ions, and/or the modifications are 			d has not	

20

IV	range of other factors and acti to hydrology. This metric atte items checked as possible hyd disruptions in its development	nent and maintenance of specific tyle vities which affect wetland quality a mpts to evaluate these things unde forologic disturbances in Question 3 (succession state). In other instance 4. In any case, the Rater should of	'hile hydrology may be the single in pes of wetlands and wetland process and cause disturbances to wetlands it the rubric "habitat alteration." In may e will be instead alterations to a wetletes, a disturbance may be appropriacarefully consider what is the actual	ses, there is a that are unrelated any instances, and's habitat or ately considered		
4	the soil and surface substrates of descriptive but not controlling. In locations on a disturbance continu Examples of substrate/soil disturb	the wetland. Note also that the lab- some instances, it may be more ap- ium, from very high to very low or n ance include filling and grading, plo	ge. This question evaluates physica els on the scoring categories are inte propriate to consider the scoring cate o disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-		
	Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"?	Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" "recovered" and score of 3.5	and	
	3					_
s	Select one or double check adjoining	number and average the score.			score 4	
s			o modifications that are apparent to	the Rater.		
s	4pts NONE OR NONE APPAREN			the Rater.	4	
S	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland	T. There are no modifications or n	ast modifications.	the Rater.	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from part appears to be in the process of re-	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		4 ⊠ □	
S	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from part appears to be in the process of recovery. The modifications have occurre	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		4 ⊠ □ □	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical 4b. Habitat development. Select onl rating of how well developed the v	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovery. The modifications have occurrections, and/or the modifications are solved and assign score. This questivetland is in comparison to other ecovering appears to the second sec	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	4 ⊠ □ □	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state.	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovery. The modifications have occurrections, and/or the modifications are solved and assign score. This questivetland is in comparison to other ecovering appears to the second sec	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from a partial appears to be in the process of recovered from a partial appears to the modifications are of the second from a partial appears of the types of wetlands and the process of the types	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent.	T. There are no modifications or no appears to have recovered from partial appears to be in the process of rest. Y. The modifications have occurrent tions, and/or the modifications are surely one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ars to represent the best of its type exars to be a very good example of its be a good example of its type or class.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe 6pts VERY GOOD. Wetland appe would make it excellent. 5pts GOOD. Wetland appears to successional state, or other re	T. There are no modifications or no appears to have recovered from partial appears to be in the process of rest. Y. The modifications have occurrent tions, and/or the modifications are surely one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ars to represent the best of its type exars to be a very good example of its be a good example of its type or class.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	4	
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland apper would make it excellent. 5pts GOOD. Wetland appears to successional state, or other r 4pts MODERATELY GOOD. Wet	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from a partial appears to the following partial appears to be a very good example of its type are to be a good example of its type or class and appears to be a fair to good example appears to be a fair to good example of its a moderately good example of its a moderately good example of its a moderately good example of its appears to be a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically sine range in quality typical of the region or class. Its type or class but is lacking in characters but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	4 	

1pt POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.

28

4c.	evaluat alteration possible appropri scores.	ed. Thons that e alteration so in solution	nis question does not at are observed. All a ation. Evaluate wheth core that best describ me instances, the sco The Rater may chec	discriminate between wetla vailable information, field vister the alteration is trivial in es the present state of the vores can be viewed as a hab	nds wit sits, ae relatior vetland oitat alte	ral habitat of the type of wetland that is h different types of habitat. Check all prial photos, maps, etc. can be used to n to the wetlands overall habitat. Select It is appropriate to "double check" are ration continuum, from very high to we le disturbances, yet still determine to	possible identify a ct the most nd average ery low or no	
С	heck al	I that	are observed pres	ent in or near the wetlan	d			
			Mowing			Herbaceous layer/aquatic bed	l removal	
			Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		
			Clear cutting			Dredging		
			Selective cutting			Farming		
			Woody debris rer	noval		Nutrient enrichment, e.g. nuis	ance algae	
			Toxic pollutants			Other (specify)		
			Shrub/sapling rer	noval		Other (specify)		
the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so			Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance. Assign a score of 9 since there are no or no apparent modifications.		NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 7.5			
Selec	t one or	doub	le check adjoining r	number and average the so	core.			score 1
9p	ts N	ONE O	R NONE APPARENT	T. There are no alterations	or no al	terations that are apparent to the Rate	er.	
6р	ts RE	COVE	ERED. The wetland a	appears to have recovered f	rom pa	st alterations.		
3р	ts RE	COVE	RING. The wetland	appears to be in the proces	s of red	covering from past alterations/		
1				 The alterations/ have occ s/, and/or the alterations/ ar 		recently occurred, and/or the wetland ling.	has not	
Metric	Ref		larrative Rating for gu			deduct points if wetland has the featu nore than 10 points even if multiple cat		
	Bog (10pts)			Lake plains sand prairies (Oak	Openings) (10 p	ots)
	Fen (10 pts	5)			Relict wet prairies (10 pts)		
	Old G	irowth	Forest (10 pts)			Known occurrence of threatene	ed/endangered s	species (10pts)
	Matur	e For	ested Wetland (5 p	ots)		Significant migratory songbird/v	waterfowl habita	t (10 pts)
	Coast	tal we	tlands, unrestricted	hydrology (10 pts)		Category 1 wetlands (See Narr	ative Rating #5)	(-10 pts)
	Coast	tal we	tlands, restricted h	ydrology (5 pts)				

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Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

30

	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as ne looking down upon it. See Figure 1.	1
5pts	HIGH. Wetland has a high degree of interspersion	
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion	
3pts	MODERATE. Wetland has a moderate degree of interspersion	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	
1pt	LOW. Wetland has a low degree of interspersion	⊠
0pts	NONE. Wetland has no plan view interspersion	

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate		
various microtopographic habitat features often present in wetlands.	0	
Vegetated hummocks and tussocks.		
Coarse woody debris >15cm (6in) diameter		
Standing dead trees >25cm (10in) diameter at breast height		
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction		

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

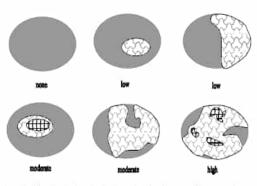


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

32 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🖾 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🗵 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🖾 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES ☑ NO	If yes, Category 1
	Questions 6: Bogs	☐ YES ⊠ NO	If yes, Category 3.
	Question 7: Fens	☐ YES ⊠ NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES ☑ NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🖾 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	1	
	Metric 2: Buffers and surrounding land use	3	
	Metric 3: Hydrology	15	
	Metric 4: Habitat	11	
	Metric 5: Special Wetland Communities	-9	
	Metric 6: Plant communities, interspersion, microtopography	11	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	33	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation		
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10.	☐ YES Wetland is categorized as a Category 3 wetland	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been over-categorized by the ORAM		
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.		
Did you answer "Yes" to Narrative Rating No. 5	☐ YES Wetland is categorized as a Category 1 wetland	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM		
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.		
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	□ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).		
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.		
Final Category Choose One ⊠ Category 1 □ Category 2 □ Category 3					

End of Ohio Rapid Assessment Method for Wetlands

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		Quantitative Rating	Deta: 2/27/2/	4
Site: \	vest Lan	caster - WL-41-PEM Rater(s): E. Holt	Date: 3/27/24	4
2	2	Metric 1. Wetland Area (size).		
max 6 pts.	subtotal	Select one size class and assign score.		
2	4	Metric 2. Upland buffers and surrounding land use.		
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. □ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo □ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)		
9	13	Metric 3. Hydrology.		
Max 30 pts.	subtotal	□ Precipitation (1pts) □ Part of wetland/up □ Seasonal/Intermittent surface water (3pts) □ Part of riparian or under the part	n (1pts) ke and other human use (1 land (e.g. forest), complex (upland corridor (1pts) rration. Score one or dbl ch tty inundated/saturated (4pts/saturated (3pts)	(1pts) neck. ots)
		☐ Recovered (7pts) ☐ Ditch ☐ ☑ Recovering (3pts) ☑ Tile ☐	Point source (non-storm wa Filing/grading Road bed/RR track Dredging Other	ater)
8	21	Metric 4. Habitat Alteration and Development.		
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) 4b. Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)		
		4c. Habitat alteration. Score one or double-check and average. □ None or none apparent (9pts) Check all disturbances observed □ Recovered (6pts) ☑ Mowing ☑	Shrub/sapling removal	
	21 Subtotal th	Recovering (3pts) Recent or no recovery (1pts) Grazing Clear-cutting Selective cutting Woody debris removal Toxic pollutants	Herbaceous/aquatic bed Sedimentation Dredging Farming Nutrient enrichment	removal

Site:	West Land	caster - WL-41-PEM Rater(s):	E. Holt	Date: 3/27/24
	21			
	Subtotal first pa	lge		
-10	11	Metric 5. Special wetland	S.	
Max 10pts	Subtotal	Check all that apply and score as indicated Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland (5 pts) Lake Erie coastal/tributary wetland-ur Lake Erie coastal tributary wetland-re Lake Plain Sand Prairies (0ak Openii Relict Wet Prairies (10pts) Known occurrence state/federal threa Significant migratory songbird/water f Category 1 Wetland. See Question 1	stricted hydrongs) (10pts) atened or endowl habitat o	ology (5pts) langered species (10pts) r usage (10pts)
7	18	Metric 6. Plant communiti	es, int	erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communities	Vegetation	on Community Cover Scale
		Score all present using 0 to 3 scale.	0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		0 Aquatic Bed 3 Emergent	1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part put is of low quality
		1 Shrub	2	Present and either comprises significant part of wetland's vegetation and is
		0 Forest		of moderate quality or comprises a small part and is of high quality
		0 Mudflats 0 Open Water	3	Present and comprises significant part, or more of wetland's vegetation
		Open Water Other		and is of high quality
		6b. Horizontal (plan view) Interspersion		Description of Vegetation Quality
		Select only one. ☐ High (5pts)	low	Low spp diversity and/or predominance of nonnative or disturbance Tolerant native species
		☐ Moderately high (4pts)	mod	Native spp are dominant component of the vegetation, although nonnative
		Moderate (3pts)		and/or disturbance tolerant native spp can also be present, and species
		☐ Moderately low (2pts) ☐ Low (1pts)		diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
		None (Opts)	high	A predominance of native species, with nonnative spp and/or disturbance
		Co. Comment of immediate profession		tolerant native spp absent or virtually absent, and high spp diversity and
		6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list.		often, but not always, the presence of rare, threatened, or endangered spp
		Add or deduct points for coverage	Mudflat a	nd Open Water Class Quality
		Extensive >75% cover (-5pts)	0	Absent <0.1ha (0.247 acres)
		Moderate 25-75% cover (-3pts)	1	Low 0.1 to <1ha (0.247 to 2.47)
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		☐ Nearly absent >5% cover (0pts)☐ Absent (1pts)	3	High 4ha (9.88 acres) or more
		☐ Absent (Tpts)	Micro top	ography Cover Scale
		6d. Micro topography	0	Absent
		Score all present using 0 to 3 scale.	1	Present very small amounts or if more common of marginal quality
		0 Vegetated hummocks/tussocks	2	Present in moderate amounts, but not of highest quality or
		1 Coarse woody debris >15cn (6in) 0 Standing dead >25cm (10in) dbh	3	In small amounts of highest quality Present in moderate or greater amounts and of highest quality
		0 Amphibian breeding pools		1 - 1-225 inductate of ground amounts and of highest quality

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

but 100 use	erage Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate ffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 0m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land as are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced sture, etc.	0	
7pts	WIDE. >50m (164ft) or more around perimeter		
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter		
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter		
0pts	VERY NARROW. <10m (<32ft) around perimeter.		
	ensity of predominant surround land use(s). Select one, or double check up to two and average score, for the ensity of the predominant land use(s) outside the wetland's buffer zone (if any).	1	
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.		
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.		
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.		
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.		

3

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 1 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

7

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.

It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

_	Chec	Check all that are observed present in or near the wetland					
		ditch(es), in or near the wetland		\boxtimes	point source discharges to the (non-storm water)		water)
Ī	\boxtimes				filing/grading activities in or near the wetland		nd
		dike(s), in or near the wetland			road beds/RR beds in or near the wetland		
		weir(s), in or near the wetle	and		dredging activities in or near the wetland		
	storm water inputs (addition of water)			other (specify)			
the ca mo we req far hy	e distuused oper that etland's gime, o	ne answer. Have any of rbances identified above or appear to have caused an trivial alterations to the s natural hydrologic or have they occurred so a past that current by should be considered to ral"?	YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.	NO Assign a score of 12 since there are no or no apparent modifications. NOT SURE Double check "r none apparent" "recovered" and score of 9.5		t" and	
Select one or double check adjoining number and average the score.					score 7		
	12pts NONE OR NONE APPARENT. There are no modifications or no modifications that are apparent to the Rater.						
	7pts	RECOVERED. The wetland a	ppears to have recovered from pa	st mod	lifications.		\boxtimes
	3pts	RECOVERING. The wetland	appears to be in the process of red	coverin	g from past modifications		
	1pt RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.						

15

	determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.					
the des loc Exa	4a. Substrate/Soil Disturbance. Select one or double check and average. This question evaluates physical disturbances to the soil and surface substrates of the wetland. Note also that the labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a disturbance continuum, from very high to very low or no disturbance. Examples of substrate/soil disturbance include filling and grading, plowing, grazing (hooves), vehicle use (motorbikes, off-road vehicles, construction vehicles), sedimentation, dredging, and other mechanical disturbances to the surface substrates					
		VES □	NO. □	NOT SUBE	X I	
of soil cause cause alteral natura have the should	caused more than trivial or an intermediate score, alterations to the wetland's depending on degree of degree of depending on degree of depending on degree of d		Double check "n none apparent" "recovered" and score of 3.5	one or and assign a		
"natur	aı" ?				3.5	
Select one or double check adjoining number and average the score.						
4pts	NONE OR NONE APPARENT	. There are no modifications or ne	o modifications that are apparent to	the Rater.		
3pts	RECOVERED. The wetland a	ppears to have recovered from pa	ast modifications.			
2pts	RECOVERING. The wetland	appears to be in the process of re	covering from past modifications			
1pt RECENT OR NO RECOVERY. The modifications have occurred, recently occurred, and/or the wetland has not recovered from past modifications, and/or the modifications are ongoing.						
4b. Habitat development. Select only one and assign score. This question asks the Rater to assign an overall qualitative rating of how well developed the wetland is in comparison to other ecologically or hydrogeomorphically similar wetlands. This question presumes a good sense of the types of wetlands and the range in quality typical of the region, watershed, or state.						
7pts	EXCELLENT. Wetland appea	rs to represent the best of its type	or class.			
6pts	6pts VERY GOOD. Wetland appears to be a very good example of its type or class but is lacking in characteristics, which would make it excellent.					
5pts GOOD. Wetland appears to be a good example of its type or class but because of past or present disturbances, successional state, or other reasons, is not excellent.						
4pts	MODERATELY GOOD. Wetla	and appears to be a fair to good ex	xample of its type or class.			
3pts FAIR. Wetland appears to be a moderately good example of its type or class but because of past or present disturbances, successional state, etc. is not good.						
2pts POOR TO FAIR. Wetland appears to be a poor to fair example of its type or class.						
1pt POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.						

Metric 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important

25.5

4c. Habitat alteration. This question evaluates the "intactness" the natural habitat of the type of wetland that is being evaluated. This question does not discriminate between wetlands with different types of habitat. Check all possible alterations that are observed. All available information, field visits, aerial photos, maps, etc. can be used to identify a possible alteration. Evaluate whether the alteration is trivial in relation to the wetlands overall habitat. Select the most appropriate score that best describes the present state of the wetland. It is appropriate to "double check" and average scores. In some instances, the scores can be viewed as a habitat alteration continuum, from very high to very low or no disturbance. The Rater may check one or several of these possible disturbances, yet still determine that the natural habitat is intact.						
Cł	heck all that are observed prese	ent in or near the wetlan	d			
	Mowing			Herbaceous layer/aquatic bed	d removal	
	☐ Grazing (cattle, s	heep, pigs, etc.)		Sedimentation		=
				Dredging		-
	☐ Selective cutting			Farming		-
	☐ Woody debris ren	noval		Nutrient enrichment, e.g. nuis	ance algae	-
	☐ Toxic pollutants			Other (specify)		-
	☐ Shrub/sapling ren	noval		Other (specify)		-
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?			re,	NO Assign a score of 9 since there are no or no apparent modifications.	NOT SURE Double check "none or none apparent" and "recovered" and assign a score of 7.5	
score					score	
Select one or double check adjoining number and average the score.			3			
9p	ts NONE OR NONE APPARENT	. There are no alterations	or no a	Iterations that are apparent to the Rate	er.	
9p				• • • • • • • • • • • • • • • • • • • •	er.	
6p	ts RECOVERED. The wetland a	ppears to have recovered fappears to be in the proces	rom pa	st alterations.		
6p	ts RECOVERED. The wetland a	ppears to have recovered fappears to be in the proces The alterations/ have occ	rom pa s of rec	ist alterations. covering from past alterations/ recently occurred, and/or the wetland		
6p 3p	ts RECOVERED. The wetland a ts RECOVERING. The wetland a pt RECENT OR NO RECOVERY recovered from past alteration:	ppears to have recovered f appears to be in the proces f. The alterations/ have occ s/, and/or the alterations/ ar . Maximum 10 points. As	rom pa s of rec curred, re ongo	ist alterations. covering from past alterations/ recently occurred, and/or the wetland	has not are described.	
6p 3p	ts RECOVERED. The wetland a ts RECOVERING. The wetland a pt RECENT OR NO RECOVERY recovered from past alteration: 5. Special wetland communities Refer to Narrative Rating for gu	ppears to have recovered f appears to be in the proces f. The alterations/ have occ s/, and/or the alterations/ ar . Maximum 10 points. As	rom pa s of rec curred, re ongo	ist alterations. covering from past alterations/ recently occurred, and/or the wetland bing.	has not ure described. tegories are	
6p 3p	ts RECOVERED. The wetland a ts RECOVERING. The wetland is pt RECENT OR NO RECOVERY recovered from past alterations c. 5. Special wetland communities Refer to Narrative Rating for guapplicable.	ppears to have recovered f appears to be in the proces f. The alterations/ have occ s/, and/or the alterations/ ar . Maximum 10 points. As	rom pa s of rec curred, re ongo	r deduct points if wetland has the featunore than 10 points even if multiple car	has not ure described. tegories are	
6p 3p	ts RECOVERED. The wetland a ts RECOVERING. The wetland a pt RECENT OR NO RECOVERY recovered from past alterations 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts)	ppears to have recovered f appears to be in the proces f. The alterations/ have occ s/, and/or the alterations/ ar . Maximum 10 points. As	s of recurred, re ongo	st alterations. covering from past alterations/ recently occurred, and/or the wetland by the stand rd	has not are described. tegories are Openings) (10 p	□
Metric	ts RECOVERED. The wetland a ts RECOVERING. The wetland a pt RECENT OR NO RECOVERY recovered from past alteration: c. 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts) Fen (10 pts)	ppears to have recovered f appears to be in the proces 7. The alterations/ have occ s/, and/or the alterations/ ar . Maximum 10 points. As idance. No wetland can re	rom pa	st alterations. covering from past alterations/ recently occurred, and/or the wetland bing. r deduct points if wetland has the feature from than 10 points even if multiple can be calculated by the calculation of the calc	has not are described. tegories are Openings) (10 p	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Metric	ts RECOVERED. The wetland a ts RECOVERING. The wetland is pt RECENT OR NO RECOVERY recovered from past alterations 5. Special wetland communities Refer to Narrative Rating for guapplicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts)	ppears to have recovered f appears to be in the proces The alterations/ have occ s/, and/or the alterations/ ar Maximum 10 points. As idance. No wetland can re	essign or	covering from past alterations/ recently occurred, and/or the wetland bing. r deduct points if wetland has the feature than 10 points even if multiple call Lake plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene	has not are described. tegories are Openings) (10 pred/endangered specified)	(10 pts)
Metric	ts RECOVERED. The wetland a ts RECOVERING. The wetland a pt RECENT OR NO RECOVERY recovered from past alteration: 5. Special wetland communities Refer to Narrative Rating for gu applicable. Bog (10pts) Fen (10 pts) Old Growth Forest (10 pts) Mature Forested Wetland (5 p	ppears to have recovered fappears to be in the proces The alterations/ have occ s/, and/or the alterations/ ar Maximum 10 points. As idance. No wetland can re	rom pars of recurred, re ongo	covering from past alterations/ recently occurred, and/or the wetland bing. r deduct points if wetland has the feature from than 10 points even if multiple cate Lake plains sand prairies (Oak Relict wet prairies (10 pts) Known occurrence of threatene Significant migratory songbird/	has not are described. tegories are Openings) (10 pred/endangered specified)	(10 pts)

Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	4
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	2
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	1
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	0

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

32.5

6b. Horizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as if the looking down upon it. See Figure 1.				
5pts	HIGH. Wetland has a high degree of interspersion			
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion			
3pts	MODERATE. Wetland has a moderate degree of interspersion			
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion			
1pt	LOW. Wetland has a low degree of interspersion			
0pts	NONE. Wetland has no plan view interspersion			

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	1
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	1
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	⊠
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

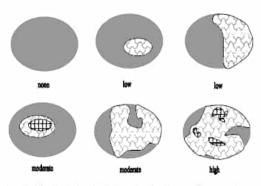


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

34.5 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

ORAM Summary Worksheet

		Circle answer	
		or insert score	Result
Narrative Rating	Question 1: Critical Habitat	☐ YES 🛛 NO	If yes, Category 3.
	Question 2: Threatened or Engagered Species	☐ YES 🛛 NO	If yes, Category 3.
	Question 3: High Quality Natural Wetland	☐ YES 🛛 NO	If yes, Category 3.
	Question 4: Significant bird habitat	☐ YES 🗵 NO	If yes, Category 3.
	Question 5: Category 1 Wetlands	☐ YES 🗵 NO	If yes, Category 1
	Questions 6: Bogs	☐ YES 🖾 NO	If yes, Category 3.
	Question 7: Fens	☐ YES 🖾 NO	If yes, Category 3.
	Questions 8a: Old Growth Forest	☐ YES 🖾 NO	If yes, Category 3.
	Question 8b: Mature Forested Wetland	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9b: Lake Erie Wetlands – Restricted	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Questions 9d: Lake Erie Wetlands - Unrestricted	☐ YES 🗵 NO	If yes, Category 3.
	Questions 9e: Lake Erie Wetlands – Unrestricted with invasive plants	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10: Oak Openings	☐ YES 🖾 NO	If yes, Category 3.
	Quest 11: Relict Wet Prairies	☐ YES 🖾 NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1: Size	2	
	Metric 2: Buffers and surrounding land use	9	
	Metric 3: Hydrology	13	
	Metric 4: Habitat	15	
	Metric 5: Special Wetland Communities	0	
	Metric 6: Plant communities, interspersion, microtopography	1	
	TOTAL SCORE Consult most recent score calibration report at http://www.epa.state.oh.us/dsw/401/401.html to determine the wetland's category based on its quantitative score	40	Category based on score breakpoints

Complete Wetland Categorization Worksheet

Wetland Categorization Worksheet

Choices	Circle one		Evaluation	
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7,	☐ YES Wetland is categorized	⊠ NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or	
8a, 9d, 10.	as a Category 3 wetland		functional assessments to determine if the wetland has been over-categorized by the ORAM	
Did you answer "Yes" to any of the following questions:	☐ YES	⊠ NO	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a	
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetland should be evaluated for possible Category 3 status		Category 3 wetland. Detailed biological and or functional assessments may also be used to determine the wetland's category.	
Did you answer "Yes" to	☐ YES	⊠ NO	Is quantitative rating score greater than the Category 2 scoring threshold	
Narrative Rating No. 5	Wetland is categorized as a Category 1 wetland		(including any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been undercategorized by the ORAM	
Does the quantitative score fall within the scoring range of a Category 1, 2 or 3 wetlands?	Wetland is assigned to the appropriate category based on the scoring range	⊠ NO	If the score of the wetland is located within the scoring range for a particular category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on an quantitative score.	
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	□ NO	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).	
Does the wetland otherwise exhibit moderate or superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	Wetland was under categorized by this method. A written justification for recategorization should be provided on Background Information Form	⊠ NO	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hdrologic function s because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria, in OAC Rula 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A ritten justification with supporting reasons or information for this determination should be provided.	
Final Category				

Final Category				
Choose One	☐ Category 1		☐ Category 3	

End of Ohio Rapid Assessment Method for Wetlands

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		uantitative Rating · (WL-18S-PEM) Rater(s): NSB	Date: 3/28/2024
Site.	Lancaster	(WE-100-FEIM) Nater(5). NOD	Date. 3/20/2024
2	2	Metric 1. Wetland Area (size).	
max 6 pts.	subtotal	Select one size class and assign score. >50 acres (>20.2ha) (6pts) 25 to <50acrea (10.1 to <20.2ha) (5pts) 10 to <25 acres (4 to <10.1ha) (4pts) 3 to <10 acres (1.2 to <4ha) (3pts) 0.3 to <3 acres (0.12 to 1.2ha) (2pts) 1 to <0.3acres (0.04 to <0.12ha) (1pts) <0.1 acres (0.04ha) (0pts)	
9	11	Metric 2. Upland buffers and surrounding land use.	
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only one and assign score. Do not double check. □ WIDE. Buffers average 50 m (164ft) or more around wetland perimeter (7pts) □ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4pts) □ NARROW. Buffers average 10m to <25m (32ft < 82ft) around wetland perimeter (1pts) □ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) 2b. Calculate average buffer width. Select only one and assign score. Do not double check. □ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7pts) □ LOW. Old field (>10 years), shrub land, young second growth forest. (5pts) □ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallo □ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1pts)	
13	24	Metric 3. Hydrology.	
Max 30 pts.	subtotal	Precipitation (1pts)	n (1pts) ake and other human use (1pts) land (e.g. forest), complex (1pts) upland corridor (1pts) uration. Score one or dbl check. ntly inundated/saturated (4pts) e/saturated (3pts)
		Recovering (3pts)	Filing/grading Road bed/RR track Dredging Other
15	39	Metric 4. Habitat Alteration and Development.	
Max 20pts.	Subtotal	4a. Substrate disturbance. Score one or double-check and average. None or none apparent (4pts) Recovered (3pts) Recovered (2pts) Recent or no recovery (1pts) Habitat development. Select only one and assign score. Excellent (7pts) Very good (6pts) Good (5pts) Moderately good (4pts) Fair (3pts) Poor to fair (2pts) Poor (pts)	
		4c. Habitat alteration. Score one or double-check and average. None or none apparent (9pts) Recovered (6pts) Recovering (3pts) □ Grazing □ Grazing	Shrub/sapling removal Herbaceous/aquatic bed removal
	39 Subtotal th	Recent or no recovery (1pts) Recent or no recovery (1pts) Selective cutting Woody debris removal Toxic pollutants	Sedimentation Dredging Farming Nutrient enrichment

Site:	Lancaster	(WL-18S-PEM) Ra	:er(s): NSB	Date: 3/28/2024
	39			
	Subtotal first pa	ge		
0	39	Metric 5. Special w	etlands.	
Max 10pts	Subtotal	Check all that apply and score as indica Bog (10pts) Fen (10pts) Old growth forest (10pts) Mature forested wetland of Lake Erie coastal/tributar Lake Erie coastal tributar Lake Plain Sand Prairies Relict Wet Prairies (10pts) Known occurrence state/file Significant migratory song Category 1 Wetland. Sec	5 pts) / wetland-unrestricted hy / wetland-restricted hydri (Oak Openings) (10pts)) ederal threatened or encipbird/water fowl habitat o	ology (5pts) langered species (10pts) r usage (10pts)
1	40	Metric 6. Plant com	munities, int	erspersion, micro topography
Max 20 pts.	Subtotal	6a. Wetland Vegetation Communiti		on Community Cover Scale
		Score all present using 0 to 3 s	cale. 0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
		0 Aquatic Bed	1	Present and either comprises small part of wetland's vegetation and is
		1 Emergent Shrub	2	of moderate quality, or comprises a significant part put is of low quality Present and either comprises significant part of wetland's vegetation and is
		0 Forest	2	of moderate quality or comprises a small part and is of high quality
		0 Mudflats	3	Present and comprises significant part, or more of wetland's vegetation
		0 Open Water		and is of high quality
		Other		
		6b. Horizontal (plan view) Intersper	sion Narrative	Description of Vegetation Quality
		Select only one. High (5pts)	low	Low spp diversity and/or predominance of nonnative or disturbance Tolerant native species
		☐ Moderately high (4pts)	mod	Native spp are dominant component of the vegetation, although nonnative
		☐ Moderate (3pts)☑ Moderately low (2pts)		and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of
		Low (1pts)		rare threatened or endangered spp
		☐ None (0pts)	high	A predominance of native species, with nonnative spp and/or disturbance
		6c. Coverage of invasive plants. Re	efer to	tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp
		Table 1 ORAM long form for lis		onon, but not amayo, the processor tare, throatened, or oneangered opp
		Add or deduct points for covera		nd Open Water Class Quality
		☐ Extensive >75% cover (-5pts	0	Absent <0.1ha (0.247 acres)
		Moderate 25-75% cover (-3 g Moderate 25-75% cover (-3 g	ots) 1	Low 0.1 to <1ha (0.247 to 2.47)
		Sparse 5-25% cover (-1)	2	Moderate 1 to <4ha (2.47 to 9.88 acres)
		☐ Nearly absent >5% cover (0	ots) 3	High 4ha (9.88 acres) or more
		☐ Absent (1pts)	Miore ton	ography Cover Scale
		6d. Micro topography	0	ography Cover Scale Absent
		6d. Micro topography Score all present using 0 to 3 s		Present very small amounts or if more common of marginal quality
		0 Vegetated hummocks/tusso		Present in moderate amounts, but not of highest quality or
		1 Coarse woody debris >15cn		In small amounts of highest quality
		0 Standing dead >25cm (10in)	` '	Present in moderate or greater amounts and of highest quality
		0 Amphibian breeding pools		

GRAND TOTAL (max 100 pts)

Quantitative Rating

Metric 1. Wetland area (max 6pts). Estimate the area of wetland. Select the appropriate size class and assign score. Estimated areas should clearly place the wetland within the appropriate class.

score

6pts	≥ 50 acres (≥ 20.2ha)	
5pts	25 - <50 acres (10.1 - <20.2ha)	
4pts	10 - <25 acres (4.0 - <10.1ha)	
3pts	3 - <10 acres (1.2 - <4.0ha)	
2pts	0.3 - <3 acres (0.12 - <1.2ha)	2
1pt	0.1 - <0.3 acres (0.04 - <0.12ha)	
0pts	<0.1 acres (0.04ha)	

Table 2. Metric to English conversion table with visual estimation sizes

acres	ft²	yd²	ft on side	yd on side	ha	m²	m on side
50	2,177,983	241,998	1476	492	20.2	202,000	449
25	1,088,992	120,999	1044	348	10.1	101,000	318
10	435,596	48,340	660	220	4.1	41,000	203
3	130,679	14,520	362	121	1.2	12,000	110
0.3	13,067	1,452	114	38	0.12	1,200	35
0.1	4,356	484	66	22	0.04	400	20

Metric 2. Upland buffers and intensity of surrounding land uses. Maximum 14 points. Wetlands are systems transitional between upland and aquatic environments. Wetlands without "buffers," or that are located where human land use is more intensive, are often, but not always, more degraded.

score

2a. Average Buffer Width (abw). Calculate the average buffer width and select only one score. To calculate abw, estimate buffer width on each side (max of 50m) and divide by the number of sides. Example: abw of a wetland with buffers of 100m, 25m, 10m and 0m would be calculated as follows: abw = (50m + 25m + 10m + 0m)/4 = 21.25m. Intensive land uses are not buffers, e.g. active row cropping, recently abandoned fields, paved areas, housing developments, unfenced pasture, etc.					
7pts	WIDE. >50m (164ft) or more around perimeter				
4pts	MEDIUM. 25m to <50m (82 to <164ft) around the perimeter				
1pt	NARROW. 10m to <25m (32 to <82ft) around the perimeter				
0pts	0pts VERY NARROW. <10m (<32ft) around perimeter.				
	tensity of predominant surround land use(s). Select one, or double check up to two and average score, for the tensity of the predominant land use(s) outside the wetland's buffer zone (if any).		5		
7pts	VERY LOW. 2 nd growth or older forest, prairie, savannah, wildlife area, etc.				
5pts	LOW. Old field (>10 yrs), shrubland, young 2 nd growth forest, etc.	\boxtimes			
3pts	MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field, etc.				
1pt	HIGH. Urban, industrial, open pasture, row cropping, mining, construction, etc.				

11

Metric 3. Hydrology Maximum 30 points. This metric evaluates the wetland's water budget, hydro period, the hydrologic connectivity of the wetland to other surface water, and the degree to which the wetland's hydrology has been altered by human activity. A wetland can receive no more than 30 points for Metric 3 even though it is possible to score more than 30 points.

than 30 points. score Sources of Water. Select all that apply and sum score. This question relates to a wetland's water budget. It also is reflective that wetlands with certain types of water sources, or multiple water sources, e.g. high pH groundwater or perennial surface water connections, can be very high quality wetlands or can have high functions and values. 1 5pts High pH groundwater (7.5-9.0) Other groundwater 3pts 1pt Precipitation \boxtimes 3pts Seasonal surface water Perennial surface water (lake or stream) 5pts Connectivity. Select all that apply and sum score 3 100-year floodplain. "Floodplain is defined in OAC Rule 3745-1-50(P) as "...the relatively level land next to a stream or river channel that is periodically submerged by floodwaters. It is composed of alluvium deposited by the present stream or river when it floods." Where they are available, flood insurance rate maps (FIRMs) and flood boundary and floodway maps may be used. Between stream/lake and other human land use. This question asks whether the wetland is located $\underline{between}$ a \boxtimes surface water and a different adjacent land use, such that run-off from the adjacent land use could flow through wetland before it discharges into the surface water. "Different adjacent land uses" include agricultural, commercial, industrial, mining, or residential uses Part of wetland or upland (e.g. forest, prairie) complex. Both this and the next question ask whether the wetland is \boxtimes in physical proximity to, or a part of other nearby wetland or upland natural areas. The difference is whether the area the wetland is "long and narrow" like a river, or more "squarish" like a large forest or woodlot. If the latter is the case, this question applies: if the former, the next question applies. In a few instances, both may apply. Part of riparian or upland corridor. See description above. \boxtimes Maximum water depth. Select only one and assign score. The Rater does not need to actually observe the wetland when its water depth is greates in order to award the maximum points for this question. The use of secondary indicators, as outlined in the 1987 Manual will be useful in answering this question. >0.7m (27.6in) 0.4 to 0.7m (15.7 to 27.6in) <0.4m (<15.7in) \boxtimes 1pt Duration of inundation/saturation. Select one or double-check and average the scores if duration is uncertain. The use of secondary indicator s is necessary and expected in order to properly answer this Question. Categories correspond to Zones II, III, and IV of 1987 Manual (Table 5). Zone IV subdivided into seasonally 1 Semi permanently to permanently inundated or saturated. 4pts 3pts Regularly inundated or saturated. 2pts Seasonally inundated.

17

 \boxtimes

Subtotal

Seasonally saturated in the upper 30cm (12in) of soil.

3e. Modifications to natural hydrologic regime. Check all observable modifications from list below. Score by selecting the most appropriate description of the wetland. Scores may be double checked and averaged. This question asks the Rater to evaluate the "intactness" of, or lack of disturbance to, the natural hydrologic regime of the type of wetland that is being evaluated.

It is very important to stress that this question does not discriminate between wetlands with different types of hydrologic regime, e.g. between a forested seep wetland located on a floodplain with seasonal inundation and a leather leaf (Chamaedaphne calyculata) bog with precipitation and minor amounts of surface run-off from a small watershed. Rather, it asks the rater to evaluate the "intactness" of the hydrologic regime attributable to that type of wetland. In the example above, both the forested seep wetland and the leather leaf bog can score the maximum points (12) if they're no, or no apparent, modifications to the natural hydrologic regime.

Once the Rater has listed all possible past and ongoing disturbances, the Rater should check the most appropriate category to describe the present state of the wetland. In instances where the Rater believes that a wetland falls between two categories, or where the Rater is uncertain as to which category is appropriate, it is appropriate to "double check" and average the score.

The labels on the scoring categories are intended to be descriptive but not controlling. In some instances, it may be more appropriate to consider the scoring categories as fixed locations on a hydrologic disturbance continuum, from very high to very low or no disturbance.

The Rater may check one or several of these possible disturbance, yet still determine that the natural hydrologic regime is intact. However, see Metric 4 where these same disturbances may be habitat alterations.

Check all that are observed present in or near the wetland						
	ditch(es), in or near the wetland			point source discharges to	the (non-storm	water)
	tile(s), in or near the wetland			filing/grading activities in or near the wetland		
	dike(s), in or near the wetland			road beds/RR beds in or n	ear the wetland	
	weir(s), in or near the wetle	and		dredging activities in or ne	ar the wetland	
	storm water inputs (addition	n of water)		other (specify)		
the distuction that the distance of the distan	one answer. Have any of turbances identified above on a papear to have caused an trivial alterations to the d's natural hydrologic, or have they occurred some past that current on a past that current on the disturbance. YES Assign a score 1, 3 or 7, or an intermediate score, depending on degree of recovery from the disturbance.		there	gn a score of 12 since e are no or no apparent ifications.	NOT SURE Double check none apparen "recovered" at score of 9.5	t" and
Select one or double check adjoining number and average the score.						score 7
12pts	NONE OR NONE APPARENT	There are no modifications or no	o modit	fications that are apparent to the	Rater.	
7pts	RECOVERED. The wetland a	appears to have recovered from pa	st mod	lifications.		\boxtimes
3pts	RECOVERING. The wetland	appears to be in the process of red	coverin	g from past modifications		
1pt		 The modifications have occurred ions, and/or the modifications are of 			d has not	

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IV	determinant for the establishm range of other factors and acti to hydrology. This metric atte- items checked as possible hyd disruptions in its development under both Metric 3 and Metri-	c 4. Habitat Alteration and Development. Maximum 20 points. While hydrology may be the single most important determinant for the establishment and maintenance of specific types of wetlands and wetland processes, there is a range of other factors and activities which affect wetland quality and cause disturbances to wetlands that are unrelated to hydrology. This metric attempts to evaluate these things under the rubric "habitat alteration." In many instances, items checked as possible hydrologic disturbances in Question 3e will be instead alterations to a wetland's habitat or disruptions in its development (succession state). In other instances, a disturbance may be appropriately considered under both Metric 3 and Metric 4. In any case, the Rater should carefully consider what is the actual proximate (direct) cause of the disturbance to the wetland.					
4	the soil and surface substrates of descriptive but not controlling. In locations on a disturbance continu Examples of substrate/soil disturb	the wetland. Note also that the lab- some instances, it may be more ap- ium, from very high to very low or n ance include filling and grading, plo	ge. This question evaluates physica els on the scoring categories are inte propriate to consider the scoring cat o disturbance. wing, grazing (hooves), vehicle use ther mechanical disturbances to the	ended to be egories as fixed (motorbikes, off-			
	Circle one answer. Have any of soil or substrate disturbances caused or appear to have caused more than trivial alterations to the wetland's natural soils or substrates, or have they occurred so far in the past that current conditions should be considered to be "natural"?	YES Assign a score 1, 2 or 3, or an intermediate score, depending on degree of recovery from the disturbance.	Assign a score of 4 since there are no or no apparent modifications.	NOT SURE [Double check "n none apparent" a "recovered" and score of 3.5	and		
s	Select one or double check adjoining	number and average the score.			score 3		
s			o modifications that are apparent to	the Rater.			
s	4pts NONE OR NONE APPAREN			the Rater.	3		
S	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland	T. There are no modifications or n	ast modifications.	the Rater.	3		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from part appears to be in the process of re-	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		3 □		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER	T. There are no modifications or no appears to have recovered from part appears to be in the process of recovery. The modifications have occurre	ast modifications. covering from past modifications d, recently occurred, and/or the wetl		3 \[\sum \]		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical 4b. Habitat development. Select onl rating of how well developed the v	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovery. The modifications have occurred tions, and/or the modifications are solved and assign score. This questive that is in comparison to other experience.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl	and has not rall qualitative milar wetlands.	3 \[\sum \]		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifical 4b. Habitat development. Select onl rating of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of how well developed the work of the training of the traini	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovery. The modifications have occurred tions, and/or the modifications are solved and assign score. This questive that is in comparison to other experience.	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands.	3		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from a partial appears to be in the process of recovered from a partial appears to the modifications are of the second from a partial appears to represent the best of its type appears to have recovered from a partial appears to represent the best of its type	ast modifications. covering from past modifications d, recently occurred, and/or the wetlongoing. tion asks the Rater to assign an ove ologically or hydrogeomorphically sine range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or	3 🗆		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent.	T. There are no modifications or no appears to have recovered from partial appears to be in the process of rest. Y. The modifications have occurrent tions, and/or the modifications are surely one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ars to represent the best of its type exars to be a very good example of its be a good example of its type or class.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the region	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	3		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe 6pts VERY GOOD. Wetland appe would make it excellent. 5pts GOOD. Wetland appears to successional state, or other re	T. There are no modifications or no appears to have recovered from partial appears to be in the process of rest. Y. The modifications have occurrent tions, and/or the modifications are surely one and assign score. This quest wetland is in comparison to other extense of the types of wetlands and the ars to represent the best of its type exars to be a very good example of its be a good example of its type or class.	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the region or class. Its type or class but is lacking in char ass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which	3		
	4pts NONE OR NONE APPAREN 3pts RECOVERED. The wetland 2pts RECOVERING. The wetland 1pt RECENT OR NO RECOVER recovered from past modifica 4b. Habitat development. Select onl rating of how well developed the w This question presumes a good se state. 7pts EXCELLENT. Wetland appe would make it excellent. 5pts GOOD. Wetland appears to successional state, or other r 4pts MODERATELY GOOD. Wet	T. There are no modifications or no appears to have recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from partial appears to be in the process of recovered from a partial appears to the following partial appears to be a very good example of its type are to be a good example of its type or class and appears to be a fair to good example appears to be a fair to good example of its a moderately good example of its a moderately good example of its a moderately good example of its appears to be a moderately good example of its	ast modifications. covering from past modifications d, recently occurred, and/or the wetl ongoing. tion asks the Rater to assign an ove cologically or hydrogeomorphically si ne range in quality typical of the region or class. Its type or class but is lacking in char ass but because of past or present descriptions.	and has not rall qualitative milar wetlands. on, watershed, or acteristics, which isturbances,	3		

1pt POOR. Wetland appears to <u>not</u> be a good example of its type or class because of past or present disturbances, successional state, etc.

30

4c.	evalua alterati possib approp scores disturb	ited. The ions that le altera oriate so s. In so	nis question does not at are observed. All a ation. Evaluate wheth core that best describ- me instances, the sco The Rater may chec	discriminate between wetla vailable information, field v her the alteration is trivial in es the present state of the pres can be viewed as a ha	ands i isits, relat wetla bitat	with aeriation t and. alter	al habitat of the type of wetland that is different types of habitat. Check all p all photos, maps, etc. can be used to to the wetlands overall habitat. Select It is appropriate to "double check" an ation continuum, from very high to ve e disturbances, yet still determine to	possible identify a ct the most ad average ery low or no	
CI	heck a	all that	are observed pres	ent in or near the wetlar	nd				_
			Mowing]	Herbaceous layer/aquatic bed	l removal	
			Grazing (cattle, s	heep, pigs, etc.)]	Sedimentation		
			Clear cutting]	Dredging		
			Selective cutting]	Farming		
			Woody debris rer	noval]	Nutrient enrichment, e.g. nuisa	ance algae	
			Toxic pollutants]	Other (specify)		
			Shrub/sapling rer	noval]	Other (specify)		
Circle one answer. Have any of the disturbances identified above caused or appear to have caused more than trivial alterations to the wetland's natural hydrologic regime, or have they occurred so far in the past that current hydrology should be considered to be "natural"?		YES Assign a score 1, 3 or 6, or an intermediate score, depending on degree of recovery from the disturbance.			NO Assign a score of 9 since there are no or no apparent modifications.	NOT SURE Double check none apparen "recovered" a score of 7.5	it" and		
Select	t one o	r doub	le check adjoining n	umber and average the s	core				score 9
9p							erations that are apparent to the Rate	r.	
6p				appears to have recovered		•			
3p				•••			overing from past alterations/		
'				s/, and/or the alterations/ a			ecently occurred, and/or the wetland h ng.	ias not	
Metric	Re		Narrative Rating for gu				deduct points if wetland has the featu ore than 10 points even if multiple cat		
	Bog	(10pts)				Lake plains sand prairies (Oak	Openings) (10 բ	ots)
	Fen ((10 pts	5)				Relict wet prairies (10 pts)		
	Old (Growth	Forest (10 pts)				Known occurrence of threatene	d/endangered s	species (10pts)
	Matu	re For	ested Wetland (5 p	ts)			Significant migratory songbird/v	vaterfowl habita	t (10 pts)
	Coas	stal we	tlands, unrestricted	l hydrology (10 pts)			Category 1 wetlands (See Narra	ative Rating #5)	(-10 pts)
	Coas	stal we	tlands, restricted h	ydrology (5 pts)					

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Metric 6. Vegetation, Interspersion, and Microtopography. Maximum 20 points.

6a.	Wetland Vegetation Communities. Check each community present <u>both vertically and horizontally</u> within the wetland with an area of at least 0.1hectares or 100m ² (0.2471 acres). Assign a score of 0 to 3 using Tables 3, Table 4 or Table 5. Sum the scores for the classes present.	1
	Aquatic Bed. Includes areas of wetlands dominated by plants that grow principally on or below the surface of the water for most of the growing season in most years. Floating aquatic species like duckweed (Lemna spp., spirodelaspp.) are excluded from definition of "aquatic bed." Aquatic beds often occur as a distinct zone as an "understory" below shrubs or trees.	0
	Emergent. Includes areas of wetland dominated by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens. This vegetation is present for most of the growing season in most years. Common names for emergent communities include marsh, wet meadow, wet prairie, sedge meadow, fens, prairie pothole, and bluejoint slough.	1
	Shrub. Includes areas of wetlands dominated by woody vegetation less than 6m (20ft) tall. The plant species include true shrubs, young trees, or trees or shrubs that are small or stunted because of environmental conditions. Shrub wetlands may represent a successional stage leading to a forested wetland or they may be relatively stable plant communities.	0
	Forested. Includes wetlands or areas of wetlands characterized by wood vegetation greater than 6m (20ft) or taller. Forested wetlands have an overstory of trees and often contain an understory of young trees and shrubs and an herbaceous layer, although the young tree/shrub and herbaceous layers can be largely missing from some types of forested wetlands. Some forested wetlands are defined as "vernal pools" in OAC Rule 3745-1-50.	0
	Open water. The "open water" class is equivalent to the "unconsolidated bottom/mud" class/subclass (pub ₃) described in Cowardin et al. (1979) and includes areas of wetlands characterized by exposed or shallowly inundated substrates with vegetative cover less than 30%.	0
	Other (See User's Manual)	

Table 3. Use this table to assign a cover score for Metric 6a to each of the vegetation communities identified on the preceding page. Refer to Table 6 for narrative descriptions of what "low," "moderate," and "high" quality mean.

Cover scale	Description
0	the vegetation community is either, 1) absent from wetland, or 2) comprises less than 0.1ha (0.2471 acres) of contiguous area within the wetland
1	vegetation community is present and either, 1) comprises a small part of the wetland's vegetation and is of low or moderate quality, or 2) if it comprises a significant part of the wetland's vegetation, the community is of low quality
2	the vegetation community is present and either, 1) comprises a significant part of the wetland's vegetation and is of moderate quality, or 2) the vegetation community comprises a small part of the wetland's vegetation but is of high quality.
3	the vegetation community is of high quality and comprises a significant part, or more of the wetland's vegetation

Table 4. Use this table in conjunction with Table 5 to determine what is a "low," "moderate," or "high quality community

narrative	description
low	Low species diversity and/or a predominance of non- native or disturbance tolerant native species
moderate	Native species are the dominant component of the vegetaion, although non-native or disturbance tolerant native species can also be present, and species diversity is moderate to moderately high, but generally without the presence of rare, threatened, or endangered species.
high	A predominance of native species, with non-native species absent or virtually absent, and high species diversity and sometimes, but not always, the presence of rare, threatened or endangered species.

Table 5. Mudflat and open water community cover scale

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1ha to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

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	rizontal (plan view) interspersion. Select only one and assign score. Evaluate the wetland from a "plan view," i.e. as le looking down upon it. See Figure 1.	2
5pts	HIGH. Wetland has a high degree of interspersion	
4pts	MODERATELY HIGH. Wetland has a moderately high degree of interspersion	
3pts	MODERATE. Wetland has a moderate degree of interspersion	
2pts	MODERATELY LOW. Wetland has a moderately low degree of interspersion	⊠
1pt	LOW. Wetland has a low degree of interspersion	
0pts	NONE. Wetland has no plan view interspersion	

6c. Co	verage of Invasive Plant Species. Refer to Table 1 on Page 7 for list. Select only one and assign score.	-3
-5pts	Extensive. >75% areal cover of invasive species	
-3pts	Moderate 25-75% areal cover of invasive species	
-1pt	Sparse. 5-25% areal cover of invasive species	
0pts	Nearly absent. <5% areal cover of invasive species	
1pt	Absent	

6d. Microtopography. Check each feature present in the wetland. Assign cover score of 0 to 3 using Table 6. Evaluate various microtopographic habitat features often present in wetlands.	1
Vegetated hummocks and tussocks.	
Coarse woody debris >15cm (6in) diameter	
Standing dead trees >25cm (10in) diameter at breast height	
Amphibian breeding habitat, e.g. vernal pools with standing water of sufficient duration and depth to support reproduction, or habitat for from reproduction	

Table 6. Cover scale for microtopographic habitat features.

Microtopographic habitat quality	narrative description
0	Feature is absent or functionally absent from the wetland
1	Feature is present in the wetland in very small amounts or if more common, of low quality
2	Feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

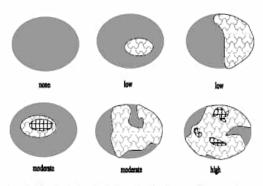


Figure 1. Hypothetical wetlands for estimating degree of interspersion.

40 GRAND TOTAL

End of Quantitative Rating. Complete Categorization Worksheets.

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

Appendix E

QHEI and HHEI Forms



ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

46	
70	

SHE NUMBER	ST-31-PFR
	R ST-31-PER RIVER BASIN DRAINAGE AREA (mi²)
	0 LAT. 39.89130 LONG82.56970 RIVER CODE RIVER MILE
E 03/27/24 SCORER Natha	an Barne COMMENTS!
TE: Complete All Items On This F	Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst
	NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REC
DDIFICATIONS:	
SUBSTRATE (Estimate percent of	f every type of substrate present. Check ONLY two predominant substrate TYPE boxes
	prificant substrate types found (Max of 8). Final metric score is sum of boxes A & B.
PE	PERCENT TYPE PERCENT
BLDR SLABS [16 pts] BOULDER (>256 mm) [16 pts]	
BEDROCK [16 pt]	0% FINE DETRITUS [3 pts]
COBBLE (65-256 mm) [12 pts]	Company of the Compan
GRAVEL (2-64 mm) [9 pts]	0% MUCK [0 pts]
SAND (<2 mm) [6 pts]	5% I ARTIFICIAL [3 pts] 0%
Total of Percentages of	0.00% (A) Substrain Price-lage 100% (B)
Bldr Slabs, Boulder, Cobble, Bedroo	ck (Ches.
RE OF TWO MOST PREDOMINATE SU	UBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 3
Maximum Pool Depth (Measure th	he maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of
evaluation. Avoid plunge pools from	road culverts or storm water pipes) (Check ONLY one box):
> 30 centimeters [20 pts]	> 5 cm - 10 cm [15 pts]
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	< 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]
COMMENTS	MAXIMUM POOL DEPTH (centimeters); 45
BANK FULL WIDTH (Measured as	s the average of 3-4 measurements) (Check ONLY one box):
> 4.0 meters (> 13') [30 pts]	s the average of 3-4 measurements) (Check ONLY one box): > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] < 1.0 m (<=3' 3") [5 pts]
> 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] < 1.0 m (<=3' 3") [5 pts]
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] < 1.0 m (<=3' 3") [5 pts]
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] < 1.0 m (<=3' 3") [5 pts]
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] < 1.0 m (<=3' 3") [5 pts]
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ FLOODPLAIN QUALITY
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A FLOODPLAIN QUALITY L R (Most Predominant per Bank) Matter Forest, Wetland Matter Forest, Wetland Immediate Forest, Wetland Immediate Forest, Sharp or Old
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank)	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Urban or Industrial Field
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY LR (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Open Pasture, Row Cr
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Narrow <5m None	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m V Narrow < 5m.	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY LR (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Open Pasture, Row Cr
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Narrow <5m None COMMENTS	This information must also be completed ODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Park (Nost Predominant per Bank) Residential, Park, New Field Fenced Pasture None (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 AVERAGE BANKFULL WIDTH (meters): 4.00
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m V Narrow < 5m. None COMMENTS FLOW REGIME (At Time of Stream Flowing	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY LR (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Moist Channel, isolated pools, no flow (Intermittent)
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m V Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY LR (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Moist Channel, isolated pools, no flow (Intermittent)
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Narrow <5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS. SINUOSITY (Number of ben	AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Penced Pasture Mining or Construction Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m V Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS. SINUOSITY (Number of ben None	This information must also be completed ODPLAIN QUALITY
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V Narrow <5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS. SINUOSITY (Number of ben	AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 3.00 This information must also be completed ODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Penced Pasture Mining or Construction Moist Channel, isolated pools, no flow (Intermittent Dry channel, no water (Ephemeral)

QHEI PERFORMED? - Yes ✓	No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED US	E(S)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream _
MAPPING: ATTACH COPIES OF MA	APS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
SGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
ounty: Fairfield	Township / City:Baltimore
MISCELLANEOUS	
ase Flow Conditions? (Y/N): Y Date	of last precipitation: 03/26/24 Quantity: 0.30
hotograph Information:	
levated Turbidity? (Y/N): Y Car	nopy (% open): 100%
/ere samples collected for water chemistry?	(Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
	olved Oxygen (mg/l); pH (S.U.) Conductivity (µmhos/cm)
the sampling reach representative of the str	ream (Y/N) Y If not, please explain:
dditional comments/description of pollution i	impacts:
BIOTIC EVALUATION Performed? (V/N): N (If Yes Record	d all observations. Voucher collections ontional. NOTE: all yourher samples must be labeled with the
erformed? (Y/N): N (If Yes, Record ID number. Including Including ID number. Including ID num	d all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Including Including ID number. Including ID num	clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Inc. ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Vo	clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Inc. ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Inc. ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voccomments Regarding Biology: DRAWING AND NARRAT	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Included ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Included ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Inc. ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Inc. ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N
erformed? (Y/N): N (If Yes, Record ID number. Included ish Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voluments Regarding Biology:	Clude appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N





Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 40

Stream & Location:	N. Lancaster	- S. Baltimore -	W. Millers	port	100		RM:		: 3/ 2	
ST-25-PER			_Scorers		me & Affili	auvii.	3 Comp	anies - Na		
River Code:		STORET #:_		Lat./L	ong.: 39	87185	182.	57663	Offic	e verified location
BEST TYPES	POOL RIFFLE 5 40 20 25	OTHER TY HARDPA DETRITU MUCK [2] SILT [2] ARTIFICI	PES POOI 20 15 [3] 60 AL [0]	RIFFLE 30 tes; ignore t-sources)	ORIG	Check ONE IN NE [1] OS [0] I [0] NE [0] RINE [0]	SILT	Average) QUA HEAVY MODER NORMA FREE [1 EXTENS MODER NORMA	[-2] ATE [-1] .L [0]	Substra 7 Maximum 20
2] INSTREAM COVE quality; 3-Highest quality in diameter log that is stable, 1 UNDERCUT BANKS 0 OVERHANGING VE 0 SHALLOWS (IN SLI 1 ROOTMATS [1] Comments	quality; 2-Min moderate or well develope [1] GETATION [1]	oderate amounts, greater amounts (d rootwad in deep 0POOLS 0ROOTV	but not of his e.g., very lar o / fast water, o > 70cm [2] NADS [1]	ghest quali ge boulder or deep, v 0 0	ty or in small a s in deep or fa	amounts of last water, last water, last unctional positional positional ROPHYTES	righest rge ols. [[1] [5 [1] [Check ONE (EXTENSIVE MODERATE SPARSE 5-	E >75% [' E 25-75% <25% [3 BSENT < Cove Maximui	11] [7]] 5% [1]
3] CHANNEL MORPH	OLOGY Ch	ack ONE in each	category (Or	7 & averag	(ar					
☐ MODERATE [3] ☐ G ☑ LOW [2] ☑ F	RIPA	RECOVEING RECENT RECENT RECENT RECENT ARIAN WIDTH > 50m [4] RATE 10-50m [3] ROW 5-10m [2] NARROW < 5m	RED [4] RING [3] OR NO REC eck ONE in e	ach catego FLOC OREST, SV HRUB OR ESIDENTIA ENCED PA	ry for EACH E	ATE [2] BANK (Or 2) QUALITY 2] W FIELD [1]	Indicate	ONSERVATION ON IN	ON TILLA IDUSTRIA STRUCT	AGE [1] AL [0] ION [0]
Comments		141		LINIAGI	ONE, NOVO	(0) [0]	past ro	on inpanan.	Riparia Maximur 1	n 4
5] POOL / GLIDE AND MAXIMUM DEPTH Check ONE (ONLY!)	CHA Check (POOL WID POOL WID	RUN QUALIT ANNEL WIDTH ONE (Or 2 & avera TH > RIFFLE WID TH = RIFFLE WID TH < RIFFLE WID	H age) OTH [2] [] OTH [1] [] OTH [0] []	Ch TORRENT VERY FAS FAST [1] MODERAT		ipply .OW [1] TERSTITIA TERMITTE! DDIES [1]	NT [-2]	Recreation Primary Seconda (circle one and	on Poter / Conta ry Con comment on Pool Currer Maximus	ntial oct tact back)
Indicate for function of riffle-obligate in RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AREAS < 5cm [metric=0]	species: RUN □MAXIMU □MAXIMU	DEPTH JM > 50cm [2] JM < 50cm [1] X	Check ONE (RIFFLE / STABLE (e) MOD. STAB	Or 2 & ave RUN SL .g., Cobble BLE (e.g.,	rage). IBSTRATE e, Boulder) [2	RIFFLI	E/RUN	ION NO I EMBEDD DNE [2] DW [1] DDERATE [0] TENSIVE [-1	RIFFLE	
DRAINAGE AREA	□м	ERY LOW - LOW ODERATE [6-10] IGH - VERY HIGH	1.00		%POOL:(=	GLIDE	=	Gradie Maximum	

Check ALL that apply METHOD STAGE BOAT 1st -sample pass- 2nd	Common N.L. Neden Consistency	Is reach typical of steam?, Recreation	/ Observed - Inferred, Other	√ Sampling observations, Concerns, Acc	ess directions, etc.
WADE					
DISTANCE DRY					
□ 0.12 Km □ 20.<40 cm I	BJAESTHETICS NUISANCE ALGAE NIVASIVE MACROPHYTES EXCESS TURBIDITY	DI MAINTENANCE PUBLIC PRIVATE DOTH / NA ACTIVE HISTORIC DOTH / NA YOUNG-SUCCESSION-OLD	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL	F] MEASUREMENTS x width x depth
40 □ > 70 cm / CTB □ meters □ SECCHI DEPTH	DISCOLORATION FOAM / SCUM OIL SHEEN	SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED		BMPs-CONSTRUCTION SEDIMEN LOGGING / IRRIGATION / COOLING BANK / EROSION SURFACE	bankfull x depth
X > 85%- OPEN	m TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED		FALSE BANK / PANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT	W/D ratio bankfull max. depth floodprone x ² width entrench, ratio
□ 30%-<55% □ 10%-<30%		IMPOUNDED / DESICCATED FLOOD CONTROL DRAINAGE		PARK / GOLE LAWN DHOME ATMOSPHERE / DATA PAUCITY	Legacy Tree:
			residential tu	of F	
	fesidential test showl-tree	h	residential tu erbaceous riparia		
	should thee riparian	Culvert pool		Woodel	

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Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 33

SUBSTRATE Check ONLYTwo substrate TYPE BOXES, entirely 102 - 5.054.51 102 - 5.054.51	3/ 27/ 24	Date: 3/	RM:		- W. Millers	- S. Baltimore	W. Lancaster	Stream & Location:
SUBSTRATE Check ONLY Two substrate TYPE BOXES.	an Barnett	panies - Nathan	V3 Comp	I Name & Affiliation:	_Scorers			ST-15-PER
SUBSTRATE Check ONLY Two substrate TYPE BOXES cedimate & ro note every type present	Office verified location	58457 °	5 /82.	t./ Long.: 39 8541		STORET #:	idan:	River Code:
quality: 3-Highest quality in moderate or greater amounts, but not of highest quality or in small amounts of highest quality or moderate or greater amounts, but not of highest quality or in small amounts of highest quality in moderate or greater amounts, but not of highest quality or in small amounts of highest quality in moderate or greater amounts, but not of highest quality or in small amounts of highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, or deep, well-defined, functional pools. OPOOLS 70cm [2]	E [-1] Substra	QUALITY HEAVY [-2] MODERATE [- NORMAL [0]	SILT	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0] ORIGIN RIP/RAP [0] CES) LACUSTURINE [0]	PES POOL N [4] 40 S [3] 50 AL [0]	very type present OTHER TY HARDPA DETRITU MUCK [2] SILT [2] ARTIFICI (Score na or more [2] Slude	POOL RIFFLE	BEST TYPES BEST TYPES BLDR /SLABS [10] BOULDER [9] COBBLE [8] GRAVEL [7] SAND [6] BEDROCK [5]
SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HigH [4]	2 & average) 75% [11] 5-75% [7] 5% [3]	Check ONE (Or 2 & EXTENSIVE >759 MODERATE 25-7 SPARSE 5-<25% NEARLY ABSENT	large C pools. RS [1] RS [1] C RS [1]	quality or in small amounts oulders in deep or fast water, ep, well-defined, functional part oxbows, BACKWATER AQUATIC MACROPHYT	e.g., very lar b / fast water, c > 70cm [2] VADS [1]	greater amounts, greater amounts (d rootwad in deep 0 POOLS	quality; 2-Mon moderate or g well developed [1] GETATION [1]	quality; 3-Highest quality ir diameter log that is stable, 1 UNDERCUT BANKS 1 OVERHANGING VE 0 SHALLOWS (IN SLO 1 ROOTMATS [1]
RIPARIAN WIDTH FLOOD PLAIN QUALITY CONSERVATION TILL GONSERVATION TILL GONSERV	channel 10			STABILITY HIGH [3] MODERATE [2] LOW [1]	IELIZATIO RED [4] RING [3]	CHANN NONE [6] RECOVE	'ELOPMEN' XCELLENT [7] OOD [5] AIR [3]	SINUOSITY DEV HIGH [4]
MAXIMUM DEPTH Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply Secondary Color	STRIAL [0] RUCTION [0]	CONSERVATION TIL URBAN OR INDUST MINING / CONSTRUI e predominant land us 00m riparlan. Ripa	TY CO	LOOD PLAIN QUALIT T, SWAMP [3] OR OLD FIELD [2] INTIAL, PARK, NEW FIELD [D PASTURE [1]		RIAN WIDTH > 50m [4] RATE 10-50m [3 OW 5-10m [2] NARROW < 5m	RIPA RIPA NODE NODE NARR NOVERY	River right looking downstrea REROSION NONE / LITTLE [3] MODERATE [2] HEAVY / SEVERE [1]
of riffle-obligate species: Check ONE (Or 2 & average). RIFFLE DEPTH RUN DEPTH RIFFLE / RUN SUBSTRATE RIFFLE / RUN EMBEDDEDNI BEST AREAS > 10cm [2] MAXIMUM > 50cm [2] STABLE (e.g., Cobble, Boulder) [2] NONE [2] BEST AREAS 5-10cm [1] MAXIMUM < 50cm [1] MOD. STABLE (e.g., Large Gravel) [1] LOW [1]	ontact Contact	Primary Con Secondary Co (circle one and commen	IAL [-1] ENT [-2]	Check ALL that apply ENTIAL [-1] SLOW [1] FAST [1] INTERSTITE [1] INTERMITT FRATE [1] EDDIES [1]	H age) OTH [2] [] OTH [1] [] OTH [0] []	NNEL WIDTI ONE (Or 2 & avera TH > RIFFLE WID TH = RIFFLE WID	CHA Check C POOL WID	MAXIMUM DEPTH Check ONE (ONLY!) □ > 1m [6] □ 0.7-<1m [4] □ 0.4-<0.7m [2] □ 0.2-<0.4m [1] □ < 0.2m [0]
[metric=0] SexTENSIVE [-1] Maxin	FFLE (metric=0)NESS	N EMBEDDEDN ONE [2] OW [1]	LE / RUN	average). N SUBSTRATE RIFF Obble, Boulder) [2] e.g., Large Gravel) [1]	heck ONE (RIFFLE / STABLE (e MOD. STAR	DEPTH JM > 50cm [2] JM < 50cm [1] X	species: RUN] □MAXIMU] ☑MAXIMU	of riffle-obligate: RIFFLE DEPTH BEST AREAS > 10cm [2] BEST AREAS 5-10cm [1] BEST AREAS < 5cm [metric=0]
SI CRADIENT	radient		NOLIDE:	W0001 (20)	12-41			

AJ SAMPLED REACH Check ALL that apply METHOD STAGE					
□ BOAT 1st-sample pass-2nd — WADE □ HIGH □ □ L. LINE □ UP □					
OTHER NORMALN					
DISTANCE DRY D	51 4 5 5 V 15 V 15 V 15 V 15 V 15 V 15 V	D7 1 - 1 11 - 2 2 1 - 2 2 1 2 2 2 2 2 2 2		P11001:P0	
□ 0.12 Km □ 20-<40 cm □ □ □ OTHER □ 40-70 cm □ □	B] AESTHETICS NUISANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION	DJ MAINTENANCE PUBLIC PRIVATE BOTH / NA ACTIVE HISTORIC BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION SEDIMENT	F) MEASUREM x width x depth max. depth
	☐ FOAM / SCUM ☐ OIL SHEEN ☐ TRASH / LITTER	MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE		LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE	bankfull x depth W/D ratio bankfull max. dep
□ 55%-<85% 2nd cm	SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	ARMOURED / SLUMPS SLANDS / SCOURED		ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT	floodprone x ² wid entrench. ratio
☐ 10%-<30% C] RECREAT	OOL: >100ft2 >3ft	FLOOD CONTROL DRAINAGE	>	PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	Legacy Tree:
Stream Drawing:	00C: [] = 100K=[] = 0K			4 ⁿ	
	hooded riparian	Ag	Land	4N Lindal riparian	
	Wooded	herbacton eroded bank		AN Criparian	
	hooded riparian			vr	
	Lookes Cun	eroded bank	(A) A CONTRACTOR OF THE CONTRA		
	Lookes Cun	eroded bank	(A) A CONTRACTOR OF THE CONTRA	yn Wooded	
	Lookes Cun	eroded bank FLow	(A) A CONTRACTOR OF THE CONTRA	yn Wooded	

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Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score:	59

	ster - S. Baltimore - W. Mill	lersport	RM:	Date: 3 28 24
Walnut Creek	Score	ers Full Name & Affiliation:	V3 Companie	
River Code:	_STORET #:	Lat./ Long.: 39 , 7020	/82.640	1 Office verified location
BEST TYPES POOL RIFF	LE OTHER TYPES PO LE OTHER TYPES PO HARDPAN [4] — DETRITUS [3] — MUCK [2]	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0]	SILT ON OF	QUALITY BEAVY [-2] MODERATE [-1] Substrate FREE [1] EXTENSIVE [-2] MODERATE [-1] MODERATE [-1] MODERATE [-1] MODERATE [-1] MODERATE [-1] MODERATE [-1]
2] INSTREAM COVER Indicate programmers quality; 2 quality; 3-Highest quality in moderate diameter log that is stable, well develor undercut banks [1] 0 OVERHANGING VEGETATION 0 SHALLOWS (IN SLOW WATER ROOTMATS [1] Comments	-Moderate amounts, but not of our greater amounts (e.g., very oped rootwad in deep / fast wa 2 POOLS > 70cm [1] ROOTWADS [1]	f highest quality or in small amounts rarge boulders in deep or fast water, ter, or deep, well-defined, functional [2]OXBOWS, BACKWATEOAQUATIC MACROPHYT	of highest Check pools. EXT EXT RS [1] SPA	AMOUNT ONE (Or 2 & average) ENSIVE >75% [11] DERATE 25-75% [7] RSE 5-<25% [3] IRLY ABSENT <5% [1] Cover Maximum 20
3] CHANNEL MORPHOLOGY SINUOSITY DEVELOPME HIGH [4] EXCELLENT MODERATE [3] GOOD [5] LOW [2] FAIR [3] NONE [1] POOR [1] Comments	NT CHANNELIZAT	TION STABILITY HIGH [3] MODERATE [2] LOW [1]		Channel Maximum 20
EROSION WII	PARIAN WIDTH DE > 50m [4]	FLOOD PLAIN QUALIT FOREST, SWAMP [3] SHRUB OR OLD FIELD [2] RESIDENTIAL, PARK, NEW FIELD	TY	ERVATION TILLAGE [1] N OR INDUSTRIAL [0] OF CONSTRUCTION [0] minant land use(s)
Check ONE (ONLY!) Chec □ > 1m [6] □ POOL V □ 0.7-<1m [4] □ POOL V	HANNEL WIDTH the ONE (Or 2 & average) WIDTH > RIFFLE WIDTH [2] WIDTH = RIFFLE WIDTH [1] WIDTH < RIFFLE WIDTH [0]	CURRENT VELOCITY Check ALL that apply TORRENTIAL [-1] SLOW [1] VERY FAST [1] INTERSTIT FAST [1] INTERMIT MODERATE [1] EDDIES [1] Indicate for reach - pools and rif	FIAL [-1] TENT [-2]	reation Potential rimary Contact condary Contact one and comment on back) Pool/ Current Maximum 12
of riffle-obligate species:	Check ON RIFFLI	e large enough to support a E (Or 2 & average). E / RUN SUBSTRATE RIFF E (e.g., Cobble, Boulder) [2] TABLE (e.g., Large Gravel) [1]		□NO RIFFLE [metric=0] BEDDEDNESS 2]

A] SAMPLED REACH Check ALL that apply	Comment RE: Reach consistency/	Is reach typical of steam?, Recreation	n/ Observed - Inferred, Other	/Sampling observations, Concerns, Acc	cess directions, etc.
METHOD STAGE BOAT 1st-sample pass-2nd HIGH					
DISTANCE	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIS / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	E] ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EOSION / SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	F) MEASUREMENTS x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

Stream Drawing:

woods from the field the field

ChioFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

51
24

LENGTH OF STREAM REACH (ft) 75	ST-2-PER RIVER I	BASIN RIVER CODE	DRAINAGE AREA (mi²) 0.53
DATE 03/27/24 SCORER E.Hol		THIVER CODE	NIVER MILE :
NOTE: Complete All Items On This F	Form - Refer to "Field Ev	valuation Manual for Ohio's P	HWH Streams" for Instruction
STREAM CHANNEL NONE / MODIFICATIONS:	NATURAL CHANNEL	RECOVERED RECOVERING	RECENT OR NO RECOVER
SUBSTRATE (Estimate percent of (Max of 32). Add total number of sign			
TYPE BLDR SLABS [16 pts]	PERCENT TYPE	SILT [3 pt]	PERCENT Me
BOULDER (>256 mm) [16 pts]	0% !	LEAF PACK/WOODY DEBRIS	3 pts] 0%
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]	0%	FINE DETRITUS [3 pts] CLAY or HARDPAN [0 pt]	1 0% . Subs
GRAVEL (2-64 mm) [9 pts]	0%	MUCK [0 pts]	0%
SAND (<2 mm) [6 pts]	0%	ARTIFICIAL [3 pts]	0%_1
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedroo	0.00% (A)	100%	(B) A+
SCORE OF TWO MOST PREDOMINATE SI		TOTAL NUMBER OF SUB	STRATE TYPES: 1
2. Maximum Pool Depth (Measure th	ne maximum pool depth wit	thin the 61 meter (200 ft) evaluation	n reach at the time of Pool
evaluation. Avoid plunge pools from > 30 centimeters [20 pts]			Max
> 22.5 - 30 cm [30 pts]		< 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts]		NO WATER OR MOIST CHAN	NEL [0 pts] 20
COMMENTS		MAXIMUM POOL DEPT	H (centimeters):
3. BANK FULL WIDTH (Measured as	the average of 3-4 measur		
3. BANK FULL WIDTH (Measured as > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]		ements) (Check ONLY or > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts]	
> 4.0 meters (> 13') [30 pts]		> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Wi
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]		> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] Wi
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts])	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL	15 pts] Wi Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts	This informati	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts]	WIDTH (meters):
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORE RIPARIAN WIDTH	This informati	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a	WIDTH (meters):
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO	This informati ODPLAIN QUALITY AT FLOODPLAIN QUAL L R (Most Pred	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a	WIDTH (meters):
7 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank)	This information of the complete of the comple	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a ITY ominant per Bank) L R	WIDTH (meters): 3
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORE RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This informati ODPLAIN QUALITY AN FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field	> 1.0 m - 1.5 m (> 3'.3" - 4'.8") [≤ 1.0 m (<=3'.3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) alors iTY ominant per Bank) est, Wetland Forest, Shrub or Old	WIDTH (meters): 30 as looking downstream Conservation Tillage
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORE RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This informati ODPLAIN QUALITY AN FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL On must also be completed NOTE: River Left (L) and Right (R) a ITY ITY ITY ITY ITY ITY ITY IT	WIDTH (meters): as looking downstream Conservation Tillage Urban or Industrial
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORAL RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Varrow <5m	This informati ODPLAIN QUALITY AN FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field Residentia	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL On must also be completed NOTE: River Left (L) and Right (R) a ITY ITY ITY ITY ITY ITY ITY IT	WIDTH (meters): Ses looking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORE RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of	This informati ODPLAIN QUALITY AN FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field Residentia Fenced Pa	> 1.0 m - 1.5 m (> 3'.3" - 4'.8") [≤ 1.0 m (<=3'.3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a ITY ominant per Bank) est, Wetland Forest, Shrub or Old I, Park, New Field sture	WIDTH (meters): as looking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLORE RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This informati ODPLAIN QUALITY AN FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field Residentia Fenced Pa	> 1.0 m - 1.5 m (> 3'.3" - 4'.8") [≤ 1.0 m (<=3'.3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a ITY ominant per Bank) est, Wetland Forest, Shrub or Old I, Park, New Field sture	WIDTH (meters): as looking downstream: Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLOW RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS.	This informati ODPLAIN QUALITY FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field Residentia Fenced Pa	> 1.0 m - 1.5 m (> 3'.3" - 4'.8") [≤ 1.0 m (<=3'.3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a ITY ominant per Bank) est, Wetland Forest, Shrub or Old I, Park, New Field sture one box): Moist Channel, isolated	WIDTH (meters): as looking downstream: Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLOW RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS I	This information of the period	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) all ITY ominant per Bank) est, Wetland Forest, Shrub or Old I, Park, New Field sture Moist Channel, isolated Dry channel, no water	WIDTH (meters): as looking downstream: Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOW RIPARIAN WIDTH (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Stream Flowing Subsurface flow with isolated COMMENTS.] SINUOSITY (Number of ben	This informati ODPLAIN QUALITY FLOODPLAIN QUAL L R (Most Pred Mature For Immature I Field Residentia Fenced Pa Evaluation) (Check ONLY of pools (Interstitial)	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL on must also be completed NOTE: River Left (L) and Right (R) a ITY ominant per Bank) est, Wetland Forest, Shrub or Old I, Park, New Field sture Moist Channel, isolated Dry channel, no water nel) (Check ONLY one box): 2.0	width (meters): Solver looking downstream Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction pools, no flow (Intermittent) (Ephemeral)

ADDITIONAL STREAM INFORMATION (This In	formation Must Also be Completed):	
QHEI PERFORMED? - Yes V	o QHEI Score (If Yes, Attach Complete	d QHEI Form)
DOWNSTREAM DESIGNATED USE(S	3)	
WWH Name:	_ Distance	from Evaluated Stream
CWH Name:	Distance fi	rom Evaluated Stream
EWH Name:	Distance fr	rom Evaluated Stream
	, INCLUDING THE ENTIRE WATERSHED AREA. CLE	
JSGS Quadrangle Name: Baltimore	NRCS Soil Map Page: 2	NRCS Soil Map Stream Order
County: Fairfield	Township / City: Baltimore	
MISCELLANEOUS		
ase Flow Conditions? (Y/N): Y Date of I	ast precipitation: 03/26/24 Quantit	y: 0.03
Photograph Information:		
Elevated Turbidity? (Y/N): N Canop	y (% open): 100%	
Vere samples collected for water chemistry? (Y/		sults) Lab Number:
		1
Field Measures: Temp (°C) Dissolve	d Oxygen (mg/l) pH (S.U.) Con	ductivity (µmhos/cm)
s the sampling reach representative of the stream	m (Y/N) If not, please explain:	
4.0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
BIOTIC EVALUATION		
lv I	observations. Voucher collections optional. NOTE: all v	voucher samples must be labeled with the s
ID number. Includ	de appropriate field data sheets from the Primary Headwa	ater Habitat Assessment Manual)
Fish Observed? (Y/N) Youcher? (Y/N)	Salamanders Observed? (Y/N) Y Voucher	R (Y/N) Y
	ner? (Y/N) Aquatic Macroinvertebrates Observer	
Comments Regarding Biology:		
DRAWING AND NABRATIV	E DESCRIPTION OF STREAM REACH (T	his must be completed):
Include important landmarks and other to	eatures of interest for site evaluation and a narrativ	e description of the stream's location
	Flow ->	
	Flow ->	N
	As Treck	
_		
FLOW -	, , ,	
	Ag Field	
	79	



ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
SITE NUMBER ST-68-INT RIVER BASIN Walnut Creek DRAINAGE AREA (mi²)	.38
LENGTH OF STREAM REACH (ft) 210 LAT. 39.82183 LONG82.59785 RIVER CODE EPH RIVER MILE	
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metric Points
BLDR SLABS [16 pts]	r Onits
BEDROCK [16 pt] 0% FINE DETRITUS [3 pts] 0%	Substrat Max = 4
COBBLE (65-256 mm) [12 pts]	IVIAX - 4
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts] 40% ARTIFICIAL [3 pts] 0% 0%	7
Total of Percentages of 10.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	00
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	30
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	15
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
<u>L R</u> (Per Bank) <u>L R</u> (Most Predominant per Bank) <u>L R</u>	
Wide >10m	
Moderate 5-10m Immature Forest, Shrub or Old Urban or Industrial	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cro	p
None Fenced Pasture Mining or Construction	
None Fenced Pasture Mining or Construction COMMENTS	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Ory channel, no water (Ephemeral)	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS COMMENTS	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Ory channel, no water (Ephemeral)	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 None 3.0	

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Walnut Creek Distance from Evaluated Stream 0.69 CWH Name: Distance from Evaluated Stream Distance from Evaluated Stream
EWH Name:
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE <u>ENTIRE</u> WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Baltimore NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield Township / City: Baltimore
MISCELLANEOUS
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.03
Photograph Information:
Elevated Turbidity? (Y/N): Y Canopy (% open): 100%
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain:
Additional comments/description of pollution impacts:
BIOTIC EVALUATION
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the sit
ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamanders Observed? (Y/N) Voucher? (Y/N) Vo
Comments Regarding Biology:
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be completed):
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location
FLOW WOODS



Chief Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
	.00
LENGTH OF STREAM REACH (ff) 153 LAT. 39.81450 LONG82.60525 RIVER CODE EPH RIVER MILE N	
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instr	uctions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING:	OVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	HHEI
TYPE PERCENT TYPE PERCENT	Metri
BLDR SLABS [16 pts]	Point
BEDROCK [16 pt] BEDROCK [16 pt] BEDROCK [16 pt] BEDROCK [16 pt] BEDROCK [16 pt]	Substrat
COBBLE (65-256 mm) [12 pts] 0% CLAY or HARDPAN [0 pt]	Max = 4
☐ GRAVEL (2-64 mm) [9 pts] ☐ MUCK [0 pts] ☐ 0% ☐ ARTIFICIAL [3 pts] ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0% ☐ 0	7
Total of Percentages of 0.00% (A) Substrate Percentage 100% (B)	A + B
Bldr Slabs, Boulder, Cobble, Bedrock SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6	Α.Β
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box):	Pool Dep Max = 3
> 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	15
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Max=30
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	15
7.0 2.0.0 2.7 Mark 0.2 Mark (motors).	
This information <u>must</u> also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	
L R (Per Bank) L R (Most Predominant per Bank) L R	
Wide >10m Mature Forest, Wetland Conservation Tillage	
Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m	
Narrow <5m Residential, Park, New Field Open Pasture, Row Cro	эþ
✓ ✓ None ☐ Fenced Pasture ☐ Mining or Construction	
COMMENTS COMMENTS	_
COMMENTS	-
COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermittent)	-
COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box):	- -
COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) Ory channel, no water (Ephemeral)	-
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 None 3.0	-
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0 3.0 0.5 3.0 >3.0 >3.0	-
FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 None 3.0	-

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):		
QHEI PERFORMED? - Yes / No QHEI Score (If Yes, Atta	ach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)		
WWH Name: Walnut Creek	Distance from Evaluated Stream	0.69
CWH Name: _	_ Distance from Evaluated Stream _	
EWH Name:	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHEE	O AREA. CLEARLY MARK THE SITE LO	OCATION
USGS Quadrangle Name: Baltimore NRCS Soil Map F	Page: NRCS Soil Map Stream	Order _
County: Fairfield Township / City: Baltim	ore	
MISCELLANEOUS		
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24	Quantity: 0.03	
Photograph Information:		
Elevated Turbidity? (Y/N): Y Canopy (% open): 100%		
Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. a	and attach results) Lab Number:	
	Conductivity (µmhos/cm)	
Is the sampling reach representative of the stream (Y/N) If not, please explain:		
Additional comments/description of pollution impacts:		
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional ID number. Include appropriate field data sheets from the Pri Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Aquatic Macroinvertebrate Comments Regarding Biology:	imary Headwater Habitat Assessment Ma Voucher? (Y/N)	nual)

DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):

Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location





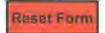
ChieFPA Primary Headwater Habitat Evaluation Form

HHEI Score (sum of metrics 1, 2, 3):

П		Т
	65	

SITE NUMBER	Baltimore - W. Millersport ST-55-INT RIVER BASIN DRAINAGE AREA (mi²)	0.24
	LAT. 39.80056 LONG82.61736 RIVER CODE RIVER MILE	
ATE 03/27/24 SCORER Nathan		
	orm - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	ruction
NOTE: Complete All Items On This Po	offit - Refer to Freid Evaluation Manual for Office S Friver Streams for this	uction
STREAM CHANNEL NONE / N	NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO REC	OVERY
	every type of substrate present. Check ONLY two predominant substrate TYPE boxes	
	nificant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	Met
TYPE BLDR SLABS [16 pts]	PERCENT TYPE PERCENT 0% SILT [3 pt] 0% 1	Poi
BOULDER (>256 mm) [16 pts]	0% LEAF PACK/WOODY DEBRIS [3 pts] 0%	Subs
BEDROCK [16 pt]	0% FINE DETRITUS [3 pts] 0% :	Max
COBBLE (65-256 mm) [12 pts]	. 5% CLAY or HARDPAN [0 pt] 60% 15% MUCK [0 pts] 0%	
GRAVEL (2-64 mm) [9 pts] SAND (<2 mm) [6 pts]	15% MUCK [0 pts] 0% 1 1 20% ARTIFICIAL [3 pts] 1 0% 1	10
	Actividate la biol	-
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock	5.00% (A) Substrate Percentage 100% (B)	A+
CORE OF TWO MOST PREDOMINATE SU		
Maximum Bool Donth //forcurs the	e maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool
	road culverts or storm water pipes) (Check ONLY one box):	Max
> 30 centimeters [20 pts]	> 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts]	< 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]	26
> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL (0 pis)	25
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 15	
OUMINETTO		
	the average of 3-4 measurements) (Check ONLY one box):	Bani
BANK FULL WIDTH (Measured as 1 > 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Wic
BANK FULL WIDTH (Measured as t > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	100
BANK FULL WIDTH (Measured as 1 > 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wid Max
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BANK FULL WIDTH (Measured as 6 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Open Pasture, Row Creen.	Wid Max
BANK FULL WIDTH (Measured as 6 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland I Mature Forest, Wetland I Mature Forest, Shrub or Old Field Residential, Park, New Field Open Pasture, Row Cr	Wide Max
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BANK FULL WIDTH (Measured as 1 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS.	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or Old Residential, Park, New Field Fenced Pasture Evaluation) (Check ONLY one box):	Wide Max
BANK FULL WIDTH (Measured as 1 > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information must also be completed DPLAIN QUALITY	Wide Max
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BANK FULL WIDTH (Measured as to a 4.0 meters (> 13') [30 pts] > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Extream Flowing Subsurface flow with isolated productions of the comments	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immalure Forest, Shrub or Old Field Residential, Park, New Field Residential, Park, New Field Fenced Pasture Woist Channel, isolated pools, no flow (intermittent Dry channel, no water (Ephemeral) ds per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0	Wide Max
BANK FULL WIDTH (Measured as to a 4.0 meters (> 13') [30 pts] > 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOR RIPARIAN WIDTH L R (Per Bank) Wide > 10m Moderate 5-10m Narrow < 5m None COMMENTS FLOW REGIME (At Time of Extreme Flowing) Subsurface flow with isolated productions and the comments SINUOSITY (Number of bending)	This information must also be completed DPLAIN QUALITY	Wide Max
BANK FULL WIDTH (Measured as to see the second seco	This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immalure Forest, Shrub or Old Field Residential, Park, New Field Residential, Park, New Field Fenced Pasture Woist Channel, isolated pools, no flow (intermittent Dry channel, no water (Ephemeral) ds per 61 m (200 ft) of channel) (Check ONLY one box): 1.0 2.0 3.0	Wide Max

ADDITIONAL STREAM INFORMATION (This Infor	mation Must Also be Completed):
QHEI PERFORMED? - Yes V No	QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)	
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name: 1	Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, II	NCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield	Township / City: Lancaster
	Tomology Only.
MISCELLANEOUS	I pracipitation: 03/26/24 Quantity: 0.30
	t precipitation: 03/26/24 Quantity: 0.30
Photograph Information:	
Elevated Turbidity? (Y/N): Canopy (% open): 0%
Vere samples collected for water chemistry? (Y/N):	(Note lab sample no. or id. and attach results) Lab Number: N/A
Field Measures: Temp (°C) Dissolved C	Dxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
s the sampling reach representative of the stream ((Y/N) Y If not, please explain:
, , , , , , , , , , , , , , , , , , , ,	
Additional comments/description of pollution impact	ls:
Fish Observed? (Y/N) N Voucher? (Y/N) N	servations. Voucher collections optional. NOTE: all voucher samples must be labeled with the sappropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Salamanders Observed? (Y/N) N Voucher? (Y/N) N V
DRAWING AND NARRATIVE I	DESCRIPTION OF STREAM REACH (This <u>must</u> be completed):
include important landmarks and other feat	tures of interest for site evaluation and a narrative description of the stream's location
FLOW ->	Land Court of Willer 2
0	tust said
	18.0



ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

=0
70
13

DATE 03/	STREAM REACH (ft) 170 27/24 SCORER Nathan	ST-53-INT RIVER BASIN DRA LAT. 39.79897 LONG -82.61860 RIVER CODE Barrie COMMENTS	RIVER MILE :
	The same and the s	rm - Refer to "Field Evaluation Manual for Ohio's PHWH	Streams" for Instruction
STREAM (ATURAL CHANNEL PRECOVERED RECOVERING	RECENT OR NO RECOVERY
TYPE	ax of 32). Add total number of signif	very type of substrate present. Check ONLY two predominant substrate types found (Max of 8). Final metric score is sum of PERCENT TYPE SILT [3 pt] LEAF PACK/WOODY DEBRIS [3 pts] WHICH CLAY OF HARDPAN [0 pt] MUCK [0 pts] ARTIFICIAL [3 pts] Substrate Persenting ARTIFICIAL [3 pts]	PERCENT Met
	r Slabs, Boulder, Cobble, Bedrock TWO MOST PREDOMINATE SUB	- Contract of the contract of	TE TYPES: 3
eva > 30 > 22		maximum pool depth within the 61 meter (200 ft) evaluation real ad culverts or storm water pipes) (Check ONLY one box): > 5 cm - 10 cm [15 pts] < 5 cm [5 pts] NO WATER OR MOIST CHANNEL	Max
BA	MMENTS NK FULL WIDTH (Measured as the original of the original of the original of the original of the original of the original of the original of the original of the original of the original of the original of the original orig	MAXIMUM POOL DEPTH (ce te average of 3-4 measurements) (Check ONLY one box > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts < 1.0 m (<=3' 3") [5 pts]	x): Ban
	MMENTS	AVERAGE BANKFULL WIDT	H (meters): 5.00
		This information must also be completed PLAIN QUALITY ANOTE: River Left (L) and Right (R) as loo	king downstream 🕏
	RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field	Conservation Tillage Urban or Industrial Open Pasture, Row Crop Mining or Construction

QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form) DOWNSTREAM DESIGNATED USE(S) WWH Name: Distance from Evaluated Stream Obstance from Evaluated Stream Distance from Evaluation NRCS Soil Map Page NRCS Soil Map Pag	
WWH Name: CWH Name: Distance from Evaluated Stream	
CWH Name: Distance from Evaluated Stream	
Distance from Evaluated Stream MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOUDING THE STATE WATERSHED AREA. CLEARLY MARK THE SITE LOUDING THE STATE WATERSHED AREA. CLEARLY MARK THE SITE LOUDING THE STATE WATERSHED AREA. CLEARLY MARK THE SITE LOUDING THE STATE WATERSHED AREA. CLEARLY	
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DSGS Quadrangle Name: NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Stream NRCS Soil Map Page: NRCS Soil Map Stream NRCS Soil Map Stream NRCS Soil Map Stream NRCS Soil Map Stream NRCS Soil Map Stream NRCS Soil Map Stream NACS Soil Map Stream NACS Soil Map Stream NRCS Soil Map Stream NACS Soil Map Stream	Ţ
MISCELLANEOUS Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.30 Photograph Information: Elevated Turbidity? (Y/N): N Canopy (% open): 100% Were samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) If not, please explain: BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	CATION
MISCELLANEOUS Sase Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.30 Photograph Information:	Order
ase Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.30 hotograph Information: levated Turbidity? (Y/N): N Canopy (% open): 100% Vere samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A ield Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) is the sampling reach representative of the stream (Y/N) If not, please explain: dditional comments/description of pollution impacts: BIOTIC EVALUATION Verformed? (Y/N): N (If Yes, Record all observations, Voucher collections optional, NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
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Vere samples collected for water chemistry? (Y/N): N (Note lab sample no. or id. and attach results) Lab Number: N/A ield Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm) is the sampling reach representative of the stream (Y/N) If not, please explain: idditional comments/description of pollution impacts: BIOTIC EVALUATION (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
BIOTIC EVALUATION Performed? (Y/N): N	
Eield Measures: Temp (°C) Dissolved Oxygen (mg/l)pH (S.U.) Conductivity (µmhos/cm)s the sampling reach representative of the stream (Y/N)	
Additional comments/description of pollution impacts: BIOTIC EVALUATION Performed? (Y/N): N	
BIOTIC EVALUATION Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
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BIOTIC EVALUATION Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
BIOTIC EVALUATION Performed? (Y/N): (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be la ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Ma	
Frogs or Tadpoles Observed? (Y/N) N Voucher? (Y/N) Aquatic Macroinvertebrates Observed? (Y/N) Voucher? (*) Comments Regarding Biology:	nual)
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This must be complete	ted):
Include important landmarks and other features of interest for site evaluation and a narrative description of the stream	m's location
NA L	
Ag Land 1 residential tust	
Careo herhareous	
riparian + Eastern & Oscar riparian (1)	
LOW FLOW STATE OF BOOK STATE	
herbaceon rivers NW riveries	
Speak riparian	
residential tuif	
1	



ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

_	_	*
	-	
	21	
-	31	

	r - S. Baltimore - W. Millersport BER ST-48-EPH RIVER BASIN DRAINAGE AREA (mi	0.27
	115 LAT. 39.78862 LONG82.62272 RIVER CODE RIVER MIL	E
ATE 03/27/24 SCORER Nat	COMMENTS !	
NOTE: Complete All Items On Thi	is Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for I	nstructio
TREAM CHANNEL INON MODIFICATIONS:	NE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO	RECOVER
	nt of every type of substrate present. Check ONLY two predominant substrate TYPE boxe	s
	f significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	M
BLDR SLABS [16 pts]	PERCENT TYPE PERCENT 35% 1	Po
BOULDER (>256 mm) [16 pt		11/2
BEDROCK [16 pt]	0% FINE DETRITUS [3 pts] 10%	Suk
COBBLE (65-256 mm) [12 pt		IVIA
GRAVEL (2-64 mm) [9 pts]	0% I MUCK [0 pts] I 0% I	1117
SAND (<2 mm) [6 pts]	I_0% ARTIFICIAL [3 pts] 0% I	
Total of Percentages of	0.00% (A) Substrate Percentage 100% (B)	A
Bldr Slabs, Boulder, Cobble, Bed	drock	7 12
ORE OF TWO MOST PREDOMINATE	E SUBSTRATE TYPES: 3 TOTAL NUMBER OF SUBSTRATE TYPES: 4	4.
Maximum Pool Depth (Measure	re the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Poo
	from road culverts or storm water pipes) (Check ONLY one box):	Ma
> 30 centimeters [20 pts] > 22.5 - 30 cm [30 pts]	> 5 cm - 10 cm [15 pts] < 5 cm [5 pts]	-
> 10 - 22.5 cm [25 pts]	NO WATER OR MOIST CHANNEL [0 pts]	2
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 15	
DANK CHILL MADELLAN	d as the average of 3-4 measurements) (Check ONLY one box):	Ba
> 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	W
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p	pts] ≤ 1.0 m (<=3" 3") [5 pts]	Ma
> 4.0 meters (> 13') [30 pts]	pts]	Ma
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p	pts] ≤ 1.0 m (<=3" 3") [5 pts]	Ma
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20	pts]	Ma
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS	pts]	3 Ma
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND F	pts]	3 Ma
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND FI RIPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Open Pasture Roy	Ma 3
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND FI RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Residential, Park, New Field AVERAGE BANKFULL WIDTH (meters): 0.3 AVERAGE BANKFULL WIDTH (meters): 0.4 L R (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Open Pasture, Row	Ma 3
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND FI RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Open Pasture Roy	Ma 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND F RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Residential, Park, New Field AVERAGE BANKFULL WIDTH (meters): 0.3 AVERAGE BANKFULL WIDTH (meters): 0.4 L R (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Open Pasture, Row	Ma 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND FI RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Residential, Park, New Field AVERAGE BANKFULL WIDTH (meters): 0.3 AVERAGE BANKFULL WIDTH (meters): 0.4 L R (Most Predominant per Bank) L R (Most Predominant per Bank) Urban or Industrial Open Pasture, Row	Ma 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 p > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 COMMENTS RIPARIAN ZONE AND FI RIPARIAN WIDTH (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time Stream Flowing Subsurface flow with isola	This information must also be completed FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Mature Forest, Wetland Residential, Park, New Field Fenced Pasture Moist Channel, isolated pools, no flow (Intermit	Ma 3 de v Crop
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ADDITIONAL STREAM INFORMATION (This	nformation Must Also be Completed):	
QHEI PERFORMED? - Yes ✓	No QHEI Score (If Yes, Attach Cor	mpleted QHEI Form)
DOWNSTREAM DESIGNATED USE	(8)	
WWH Name:	177	tance from Evaluated Stream
CWH Name:	T mit	ance from Evaluated Stream
EWH Name:		ance from Evaluated Stream
	S, INCLUDING THE ENTIRE WATERSHED AREA	
JSGS Quadrangle Name:	NRCS Soil Map Page:	NRCS Soil Map Stream Order
County: Fairfield	Township / City: Lancaster	
MISCELLANEOUS		
Base Flow Conditions? (Y/N): Y Date o	last precipitation: 03/26/24	Quantity: 0.30
Photograph Information:		
Elevated Turbidity? (Y/N): N Cand	py (% open): 100%	
Nere samples collected for water chemistry? ('/N): N (Note lab sample no. or id. and att	ach results) Lab Number: N/A
	ed Oxygen (mg/l) pH (S.U.)	Conductivity (µmhos/cm)
s the sampling reach representative of the stre	am (Y/N)	
delicional communication of a linking im	140	
Additional comments/description of pollution im	pacis.	
Fish Observed? (Y/N) N Voucher? (Y/N)	N Salamanders Observed? (Y/N) N Vocher? (Y/N) N Aquatic Macroinvertebrates Ob	leadwater Habitat Assessment Manual) pucher? (Y/N)
The second seconds of the second		
DRAWING AND NARRATI	/E DESCRIPTION OF STREAM REAC	H (This <u>must</u> be completed):
Include important landmarks and other	features of interest for site evaluation and a na	arrative description of the stream's location
	. N	
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	(a)	
	3has	
LOW T	riparian	
COVERN U	Shas	
	Ciparian 2	
	- 1	
	B	
	180	



ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

55

	R ST-44-INT RIVER BASIN DRAINAGE AREA (mi²)	0.15
	0 LAT. 39.78067 LONG82.62624 RIVER CODE RIVER MILE	A STATE OF THE PARTY OF THE PAR
	an Barre COMMENTS	
	Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	- untine
NOTE. Complete All Items On This I	FOIM - Refer to Freid Evaluation Manual for Onio's Friwn Streams for ins	action
STREAM CHANNEL NONE / MODIFICATIONS:	/ NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RE	COVERY
	of every type of substrate present. Check ONLY two predominant substrate TYPE boxes gnificant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	H
TYPE	PERCENT TYPE PERCENT	Me
BLDR SLABS [16 pts]	0% SILT [3 pt] 10%	Poi
BOULDER (>256 mm) [16 pts]		Subs
BEDROCK [16 pt] COBBLE (65-256 mm) [12 pts]	Time Deliving to Just	Max
GRAVEL (2-64 mm) [9 pts]	. 30% DI MUCK [0 pts] 0%	
SAND (<2 mm) [6 pts]	30% ARTIFICIAL [3 pts] '0% I	2
Total of Percentages of	(B)	-
Bldr Slabs, Boulder, Cobble, Bedroo		A +
CORE OF TWO MOST PREDOMINATE S	SUBSTRATE TYPES: 21 TOTAL NUMBER OF SUBSTRATE TYPES: 4	
. Maximum Pool Depth (Measure to	the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool
evaluation. Avoid plunge pools from	n road culverts or storm water pipes) (Check ONLY one box):	Max
> 30 centimeters [20 pts]	> 5 cm - 10 cm [15 pts]	-
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	< 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]	1
The state of the s		1.5
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 8	
BANK FULL WIDTH (Measured as	s the average of 3-4 measurements) (Check ONLY one box):	Bar
> 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Wi
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wi
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wi Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wi Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Wi Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 1.20 This information must also be completed	Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 1.20 This information must also be completed	Wi Max
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] \$\leq 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 1.20 This information must also be completed DODPLAIN QUALITY \$\triangle \text{NOTE: River Left (L) and Right (R) as looking downstream \$\triangle \text{FLOODPLAIN QUALITY} \(\text{L R} \) (Most Predominant per Bank) \(\text{L R} \) Mature Forest, Wetland \(\text{Conservation Tillage} \)	Wi Max
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO RIPARIAN WIDTH L R (Per Bank)	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts] AVERAGE BANKFULL WIDTH (meters): 1.20 This information must also be completed DODPLAIN QUALITY ♣ NOTE: River Left (L) and Right (R) as looking downstream ♣ FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R	Wi Max
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m V V Narrow <5m	This information must also be completed ODDPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland I Mature Forest, Wetland I Mature Forest, Shrub or Old Field Residential, Park, New Field Open Pasture, Row C	Max 1
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed ODDPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland I R (Most Predominant per Bank) Mature Forest, Wetland I R (Most Predominant per Bank) Mature Forest, Shrub or Old I Conservation Tillage Conservation Tillage	Max 1
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of	This information must also be completed ODDPLAIN QUALITY LR (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture OF Evaluation) (Check ONLY one box):	Wi Max
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> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts COMMENTS RIPARIAN ZONE AND FLO RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of	This information must also be completed ODDPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or	Wi Max
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Ann calcan		on Must Also be Completed	<u>):</u>	
QHEI PERFORM	ED? - Yes ✓ No QHE	I Score(If Yes,	Attach Completed QHEI Form	n)
DOWNSTREAM	DESIGNATED USE(S)			
WWH Name:			_ Distance from Evaluat	ed Stream
CWH Name: _			Distance from Evaluate	ed Stream 1
EWH Name:			Distance from Evaluate	ed Stream _
MAPPING: ATTA	CH COPIES OF MAPS, INCLU	IDING THE ENTIRE WATERS	HED AREA. CLEARLY MARK	THE SITE LOCATION
JSGS Quadrangle Name:		NRCS Soil Ma	p Page: NRCS Soi	Map Stream Order
ounty: Fairfield		Township / City: Lar	caster	
MISCELLANEOU	ıs			
Base Flow Conditions? (Y/N		ipitation: 03/26/24	Quantity: 0.30	
hotograph Information:				
Elevated Turbidity? (Y/N):	N Сапору (% оре	90%		
		CII).		INIA
Vere samples collected for	water chemistry? (Y/N): N	(Note lab sample no. or	id. and attach results) Lab N	umber: N/A
ield Measures: Temp ("C) Dissolved Oxyge	en (mg/l)pH (S.U.	Conductivity (µm	hos/cm)
	esentative of the stream (Y/N)	Y Kuntulana ambah		
s the sampling reach repre	sentative of the stream (Y/N)	If not, please explain:		
prime and all	ATION			
	ID number. Include approp	ations. Voucher collections opti priate field data sheets from the	Primary Headwater Habitat A	
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe	Voucher? (Y/N) Voucher? (Y/N) Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N)	Primary Headwater Habitat A	
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biological	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N)	Primary Headwater Habitat A N Voucher? (Y/N)	ssessment Manual)
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N)	Primary Headwater Habitat A N Voucher? (Y/N)	ssessment Manual)
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Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biological	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N)	Primary Headwater Habitat A N Voucher? (Y/N)	ssessment Manual)
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N) N) N Aquatic Macroinverte	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N	ssessment Manual) Voucher? (Y/N)
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	priate field data sheets from the alamanders Observed? (Y/N) N) Aquatic Macroinverte	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N M REACH (This must	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N)	priate field data sheets from the alamanders Observed? (Y/N) N) Aquatic Macroinverte	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N M REACH (This must	Voucher? (Y/N) N
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Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	priate field data sheets from the alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N W REACH (This must) and a narrative description	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	priate field data sheets from the alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N W REACH (This must) and a narrative description	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	priate field data sheets from the alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description A residential Furf	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond DRAWING Include important la	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) N W REACH (This must and a narrative description A (esidential fulf	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond	Voucher? (Y/N) N Sand? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) Ogy: ducted AND NARRATIVE DES Indianarks and other features	alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description A residential fulf should be added i.paier	Voucher? (Y/N) N
Performed? (Y/N): N Sish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond DRAWING Include important la	Voucher? (Y/N) N Sand? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) Ogy: ducted AND NARRATIVE DES Indianarks and other features	alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description A residential fulf should be added i.paier	Voucher? (Y/N) N
Performed? (Y/N): N Sish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond DRAWING Include important la	Voucher? (Y/N) N Sad? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) Ogy: ducted AND NARRATIVE DES Indian (esidential tripalian repairs)	alamanders Observed? (Y/N) Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description fesidential furf inpaired inpaire	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond DRAWING Include important la	Voucher? (Y/N) N Sand? (Y/N) N Voucher?	Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description fesidential furf inpaired inpaire	Voucher? (Y/N) N
Performed? (Y/N): N Fish Observed? (Y/N) Frogs or Tadpoles Observe Comments Regarding Biolo No biotic evaluation cond DRAWING Include important la	Voucher? (Y/N) N Sand? (Y/N) N Sond? (Y/N) N Voucher? (Y/N) Sand NARRATIVE DES Sandmarks and other features	Aquatic Macroinverte CRIPTION OF STREA of interest for site evaluatio	Primary Headwater Habitat A N Voucher? (Y/N) brates Observed? (Y/N) M REACH (This must and a narrative description A residential fulf should be added i.paier	Voucher? (Y/N) N

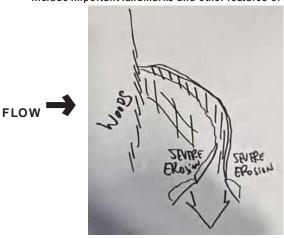




Chief Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
SITE NUMBER ST-44-EPH RIVER BASIN Hocking DRAINAGE AREA (mi²)	0.32
LENGTH OF STREAM REACH (ft) 221 LAT. 39.77551 LONG82.62766 RIVER CODE EPH RIVER MILE	N/A
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	ructions
STREAM CHANNEL NONE / NATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING.	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	ı HHEI
TYPE PERCENT TYPE PERCENT	Metri
BLDR SLABS [16 pts]	Point
BOULDER (>256 mm) [16 pts]	Substrat
☐ ☐ COBBLE (65-256 mm) [12 pts] ☐ ☐ CLAY or HARDPAN [0 pt] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Max = 4
GRAVEL (2-64 mm) [9 pts]	7
SAND (<2 mm) [6 pts]	
Total of Percentages of 0.00% (A) Substrate Percentage Check (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 6 TOTAL NUMBER OF SUBSTRATE TYPES: 1	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 3
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	45
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	15
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.0 m (<=3' 3") [5 pts] ✓ ≤ 1.0 m (<=3' 3") [5 pts]	Width Max=30
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	
COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	5
This information must also be completed	
RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆	
RIPARIAN WIDTH FLOODPLAIN OLIALITY	
RIPARIAN WIDTH FLOODPLAIN QUALITY L R (Per Bank) L R (Most Predominant per Bank) L R	
L R (Per Bank) L R (Most Predominant per Bank) L R Wide >10m Mature Forest, Wetland Conservation Tillage	
L R (Per Bank) L R (Most Predominant per Bank) L R	
L R (Per Bank) Wide >10m Moderate 5-10m L R (Most Predominant per Bank) L R Mature Forest, Wetland Immature Forest, Shrub or Old Urban or Industrial	-op
L R (Per Bank) Wide >10m Moderate 5-10m Marrow <5m Narrow <5m None L R (Most Predominant per Bank) L R (Most Predominant per	·
L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R (Dost Predominant per Bank) L R (Most Predominant per Bank) L R (Dost	·
L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Moderate 5-10m Field Open Pasture, Row Company Moderate 5-10m Field Open Pasture, Row Company Moderate 5-10m Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box):]
L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS L R (Most Predominant per Bank) L R (Most Predominant per B	1
L R (Per Bank) Wide >10m Mature Forest, Wetland Urban or Industrial Industria	1
L R (Per Bank) Wide >10m Mature Forest, Wetland Urban or Industrial Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Evaluation) Stream Flowing Subsurface flow with isolated pools (Interstitial) L R (Most Predominant per Bank) L R (Most]
L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Mod	1
L R (Most Predominant per Bank) Wide >10m Mature Forest, Wetland Dyban or Industrial Wide >10m Moderate 5-10m M	1
L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Mod	t)

ADDITIONAL STREAM INFORMATION (This Information Must A	Also be Completed):	
QHEI PERFORMED? - Yes ✓ No QHEI Score	(If Yes, Attach Completed QHEI Form)	
DOWNSTREAM DESIGNATED USE(S)		
WWH Name: Hocking River	Distance from Evaluated Stream	2.50
CWH Name:	Distance from Evaluated Stream	
EWH Name:	Distance from Evaluated Stream	
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE	ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE I	OCATION
USGS Quadrangle Name: Carroll	NRCS Soil Map Page: NRCS Soil Map Stream	n Order _
County: Fairfield To	wnship / City: Dumontville	
MISCELLANEOUS		
Base Flow Conditions? (Y/N):Y Date of last precipitation:_	03/26/24 Quantity: 0.03	
Photograph Information:		
Elevated Turbidity? (Y/N): Y Canopy (% open):	0%	
Were samples collected for water chemistry? (Y/N): N (Note	e lab sample no. or id. and attach results) Lab Number:	
Field Measures: Temp (°C) Dissolved Oxygen (mg/l)	pH (S.U.) Conductivity (µmhos/cm)	
Is the compling reach representative of the streem (V/N)	not places symbols	
Is the sampling reach representative of the stream (Y/N) Y If	not, please explain:	
Aller I de la companya de la company		
Additional comments/description of pollution impacts:		
BIOTIC EVALUATION		
N		
Performed? (Y/N): (If Yes, Record all observations. Vou	cher collections optional. NOTE: all voucher samples must be	
	data sheets from the Primary Headwater Habitat Assessment M	anual)
Fish Observed? (Y/N) Voucher? (Y/N) Salamander Frogs or Tadpoles Observed? (Y/N) Voucher? (Y/N) Advanced Frogs or Tadpoles Observed?	rs Observed? (Y/N) Voucher? (Y/N) N quatic Macroinvertebrates Observed? (Y/N) Voucher?	(Y/N) N
Comments Regarding Biology:		
DRAWING AND NARRATIVE DESCRIPTION	ON OF STREAM REACH (This <u>must</u> be compl	eted):
Include important landmarks and other features of interes	t for site evaluation and a narrative description of the stre	am's location
ATT		
Winds.		









ChieFP Primary Headwater Habitat Evaluation Form

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HHEI Score (sum of metrics 1, 2, 3):

SITE NAME/LOCATION W. Lancaster - S. Baltimore - W. Millersport	
SITE NUMBER ST-42-INT RIVER BASIN Hocking DRAINAGE AREA (mi²)	0.68
LENGTH OF STREAM REACH (ft) 241 LAT. 39.77506 LONG82.62789 RIVER CODE INT RIVER MILE	
DATE 03/27/24 SCORER L. Vine COMMENTS	
NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Inst	tructions
STREAM CHANNEL	COVERY
1. SUBSTRATE (Estimate percent of every type of substrate present. Check ONLY two predominant substrate TYPE boxes	ı HHEI
(Max of 32). Add total number of significant substrate types found (Max of 8). Final metric score is sum of boxes A & B. TYPE PERCENT TYPE PERCENT	Metric
BLDR SLABS [16 pts] 0% SILT [3 pt] 30%	Points
BOULDER (>256 mm) [16 pts]	Substrat
☐ ☐ COBBLE (65-256 mm) [12 pts] ☐ ☐ CLAY or HARDPAN [0 pt] ☐ ☐ 0%	Max = 40
GRAVEL (2-64 mm) [9 pts] 40% MUCK [0 pts] 0%	18
SAND (<2 mm) [6 pts]	
Total of Percentages of 0.00% (A) Substrate Percentage Check (B)	A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: 15 TOTAL NUMBER OF SUBSTRATE TYPES: 3	
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of	Pool Dep
evaluation. Avoid plunge pools from road culverts or storm water pipes) (Check ONLY one box): > 30 centimeters [20 pts] > 5 cm - 10 cm [15 pts]	Max = 30
> 22.5 - 30 cm [30 pts] < 5 cm [5 pts]	
> 10 - 22.5 cm [25 pts] NO WATER OR MOIST CHANNEL [0 pts]	25
COMMENTS MAXIMUM POOL DEPTH (centimeters): 20	
3. BANK FULL WIDTH (Measured as the average of 3-4 measurements) (Check ONLY one box):	Bankful
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts]	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	Width Max=30
> 4.0 meters (> 13') [30 pts] > 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] ≤ 1.0 m (<=3' 3") [5 pts]	Width
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH FLOODPLAIN QUALITY	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ☆ RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) Wide >10m Mature Forest, Wetland Conservation Tillage	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ↑ RIPARIAN WIDTH EL R (Per Bank) L R (Most Predominant per Bank) L R (Most Predominant per Bank) L R	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY PROOPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream ↑ RIPARIAN WIDTH L R (Per Bank) L R (Most Predominant per Bank) Wide >10m Moderate 5-10m Moderate 5-10m Noderate 5-10m	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS AVERAGE BANKFULL WIDTH (meters): AVERAGE BANKFULL WIDTH (meters): 2.00 This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream And RIPARIAN WIDTH L R (Per Bank) Wide >10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Onen Pasture Row Conservation Tillage Immature Forest, Shrub or Old Width Max=30	
> 4.0 meters (> 13') [30 pts]	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS PLOW REGIME (At Time of Evaluation) (Check ONLY one box):	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH L R (Per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m None None COMMENTS FLOODPLAIN QUALITY Residential, Park, New Field Open Pasture, Row Completed RIPARIAN WIDTH Residential, Park, New Field Open Pasture, Row Completed RIPARIAN WIDTH Residential, Park, New Field Open Pasture, Row Completed None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Moist Channel, isolated pools, no flow (Intermitter)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY RIPARIAN WIDTH FLOODPLAIN QUALITY RIPARIAN WIDTH L R (Per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m Moderate 5-10m Residential, Park, New Field None COMMENTS PLOW REGIME (At Time of Evaluation) (Check ONLY one box):	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream RIPARIAN WIDTH FLOODPLAIN QUALITY Wide >10 m Mature Forest, Wetland Moderate 5-10 m Moderate 5-10 m None None Fenced Pasture Fenced Pasture Mining or Construction COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) None water (Ephemeral)	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN WIDTH ENDODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream Notes (Per Bank) RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN ZONE AND FLOODPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream And PLOODPLAIN QUALITY L R (Per Bank) Wide >10 m Mature Forest, Wetland Moderate 5-10 m Mature Forest, Shrub or Old Immature Forest, Shrub or Old Virban or Industrial None COMMENTS Fenced Pasture Mining or Construction COMMENTS Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box):	Width Max=30
> 4.0 meters (> 13') [30 pts] > 3.0 m - 4.0 m (> 9' 7' - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS This information must also be completed RIPARIAN WIDTH ENDODPLAIN QUALITY NOTE: River Left (L) and Right (R) as looking downstream Notes (Per Bank) RIPARIAN WIDTH FLOODPLAIN QUALITY Wide > 10m Mature Forest, Wetland Moderate 5-10m Moderate 5-10m None COMMENTS FLOW REGIME (At Time of Evaluation) (Check ONLY one box): Stream Flowing Subsurface flow with isolated pools (Interstitial) COMMENTS SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 Check ONLY one box): Check ONLY one box): SINUOSITY (Number of bends per 61 m (200 ft) of channel) (Check ONLY one box): None 1.0 2.0 3.0	Width Max=30 20 rop ntt)

ADDITIONAL STREAM INFORMATION (This Information Must Also be Completed):
QHEI PERFORMED? - Yes V No QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S) WWH Name: Hocking River CWH Name: Distance from Evaluated Stream EWH Name: Distance from Evaluated Stream
MAPPING: ATTACH COPIES OF MAPS, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
USGS Quadrangle Name: Carroll NRCS Soil Map Page: NRCS Soil Map Stream Order
County: Fairfield Township / City: Dumontville
MISCELLANEOUS
Base Flow Conditions? (Y/N): Y Date of last precipitation: 03/26/24 Quantity: 0.03
Photograph Information:
Elevated Turbidity? (Y/N): Y Canopy (% open): 0%
Were samples collected for water chemistry? (Y/N): Note lab sample no. or id. and attach results) Lab Number:
Field Measures: Temp (°C) Dissolved Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
Is the sampling reach representative of the stream (Y/N) If not, please explain: Additional comments/description of pollution impacts:
Performed? (Y/N): N (If Yes, Record all observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the site ID number. Include appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Fish Observed? (Y/N) N Voucher? (Y/N) N Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) N Aquatic Macroinvertebrates Observed? (Y/N) N Voucher? (Y/N) N Vouc
DRAWING AND NARRATIVE DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): Include important landmarks and other features of interest for site evaluation and a narrative description of the stream's location FLOW

Save as pdf





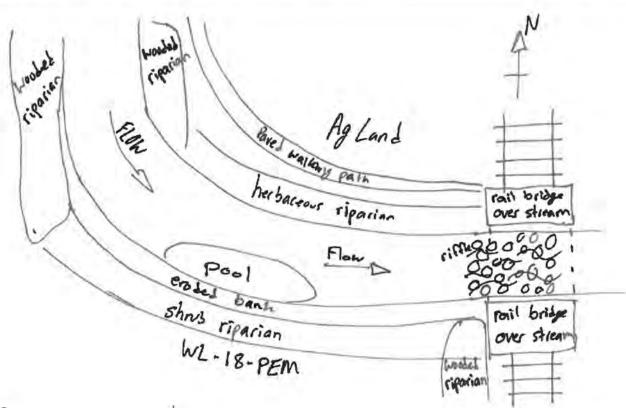
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 56.5

Stream & Location: W. L	ancaster - S. Baltimore -	W. Millersport		RM:	. Date: 3/	28 / 24
Hocking River		Scorers Full I	lame & Affiliation:	V3 Compa	nies - Nathan E	Barnett
River Code:	- STORET #:		Long.: 39 . 72957			fice verified location
BEST TYPES POO □□ BLDR /SLABS [10] □□ BOULDER [9] □□ COBBLE [8] 5 □□ GRAVEL [7] □□ SAND [6] 60 □□ BEDROCK [5]	or note every type present CRIFFLE OTHER TY HARDPA DETRITU 20 MUCK [2] 20 SILT [2] 60 ARTIFICI.	PES POOL RIFFLE N [4] 10 S [3] 25 AL [0]	ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0]	SILT	Perage) QUALITY HEAVY [-2] MODERATE [-1] NORMAL [0] FREE [1] EXTENSIVE [-2] MODERATE [-1] NORMAL [0] NONE [1]	13
2] INSTREAM COVER In quality; 3-Highest quality in modiameter log that is stable, welder log that is stable, weller log that is stable, well log that is s	uality: 2-Moderate amounts, derate or greater amounts (developed rootwad in deep POOLS TATION [1] ROOTV	but not of highest quee.g., very large bould of fast water, or deep 5 > 70cm [2] 0 VADS [1] 0	ality or in small amounts o	f highest large Chools. Discouls Discou	AMOUNT neck ONE (Or 2 & a EXTENSIVE >75% MODERATE 25-75 SPARSE 5-<25% NEARLY ABSENT Cov Maxim	[11] % [7] [3] <5% [1]
	DPMENT CHANN LLENT [7] NONE [6] D [5] REGOVER [3] RECOVER	RED [4]	STABILITY HIGH [3] MODERATE [2] LOW [1]		Chan Maxim	7.3
☐ MODERATE [2] ☐	RIPARIAN WIDTH WIDE > 50m [4] MODERATE 10-50m [3] NARROW 5-10m [2] VERY NARROW < 5m	FLC R FOREST; SHRUB O RESIDENT	OOD PLAIN QUALIT SWAMP [3] R OLD FIELD [2] TIAL, PARK, NEW FIELD [Y R CO	NSERVATION TILL BAN OR INDUSTR SING / CONSTRUC redominant land use	RIAL [0] TION [0] P(s)
図 0.7-<1m [4] □ F	IFFLE / RUN QUALIT CHANNEL WIDTH Check ONE (Or 2 & avera POOL WIDTH > RIFFLE WID POOL WIDTH = RIFFLE WID POOL WIDTH < RIFFLE WID	H CUI age) C DTH [2]	☐ INTERMITT	AL [-1] ENT [-2]	Recreation Pote Primary Cont Secondary Cont circle one and comment Po Curn Maxim	ential tact entact entact entact
of riffle-obligate spe RIFFLE DEPTH ☐ BEST AREAS > 10cm [2]	RUN DEPTH MAXIMUM > 50cm [2] MAXIMUM < 50cm [1]	RIFFLE / RUN S STABLE (e.g., Cobi	verage). SUBSTRATE RIFFI ble, Boulder) [2] ., Large Gravel) [1]	LE / RUN I	EMBEDDEDNE IE [2]	E [metric=0]
6] GRADIENT (ft/s DRAINAGE AREA (29 m	ni) 🛛 VERY LOW - LOW MODERATE [6-10] i2) HIGH - VERY HIGH			%GLIDE:(%RIFFLE:(0 Gradi	3

Check ALL that apply METHOD STAGE BOAT 1st -sample pass- 2nd HIGH					
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.15 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ 20-<40 cm □ 20-<40 cm □ 40-70 cm □ 300 □ > 70 cm/ CTB □ SECCHI DEPTH□ CANOPY 1st cn □ > 85%-OPEN 80 cm □ 30%-<55% □ 10%-<30% □ <10%- CLOSED	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	DJ MAINTENANCE PUBLIC / PRIVATE / BOTH / NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	Circle some & COMMENT	E) ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION > SURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	F] MEASUREMENTS x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:

Stream Drawing:





Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 40.25

Stream & Location:	W. Lancaster -	S. Baltimore	- W. Millersp	port		R	M:	Date	: 3/ 28	1 24
ST-14-PER			_Scorers		me & Affili				than Bar	nett
River Code:		STORET #:_		Lat./L	ong.: 39 .	72526	182 .	63249	Office	verified L
DECT TANCE	OOL RIFFLE 30 30 25 YPES: 4 o	OTHER TY HARDPA DETRITU MUCK [2] SILT [2] ARTIFICI	PES POOL N [4] S [3] I AL [0]	10 es; ignore -sources)	ORIG LIMESTON TILLS [1] WETLAND HARDPAN SANDSTO RIP/RAP [0] LACUSTU SHALE [-1] COAL FIN	NE [1] PS [0] I [0] NE [0] OF [0] RINE [0]	SILT	QUA QUA HEAVY MODER NORMA FREE [1 EXTENS MODER NORMA NORMA	[-2] ATE [-1] L [0]	Substra 14 Maximu 20
quality; 3-Highest quality in diameter log that is stable, 1 UNDERCUT BANKS 1 OVERHANGING VEC 0 SHALLOWS (IN SLO 1 ROOTMATS [1] Comments	quality; 2-Mod moderate or gr well developed [1] GETATION [1]	eater amounts, eater amounts (rootwad in deep	but not of hig e.g., very larg	phest quali ge boulder or deep, v	ty or in small a s in deep or fa	amounts of hist water, largenctional pool KWATERS [ghest cless. [1] [1] [2]	AMC heck ONE (EXTENSIVI MODERAT SPARSE 5- NEARLY A	E >75% [1 E 25-75% -<25% [3]	1] [7] 5% [1]
☐ HIGH [4] ☐ EX ☐ MODERATE [3] ☐ GO ☑ LOW [2] ☐ FA	OLOGY Chec ELOPMENT CCELLENT [7] COELLENT [8] COR [8] COR [1]	CHANN NONE [6] RECOVER	IELIZATIO RED [4]	N	STABIL HIGH [3 MODER LOW [1]] ATE [2]			Channe Maximum 20	8
A] BANK EROSION A. River right looking downstream EROSION ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3] ONE / LITTLE [3]	RIPAR	RIAN WIDTH 50m [4] ATE 10-50m [3 W 5-10m [2] ARROW < 5m	D SH	FLOC DREST, SV IRUB OR SIDENTIA ENCED PA	D PLAIN	QUALITY 2] W FIELD [1]	R CO	ONSERVATION OR IN	IDUSTRIA ISTRUCTION	L [0] ON [0]
☐ 0.7-<1m [4]	CHAI Check ON POOL WIDT	VUN QUALIT NNEL WIDTH IE (Or 2 & avera H > RIFFLE WID H = RIFFLE WID H < RIFFLE WID	H age) OTH[2] □ T OTH[1] □ V OTH[0] 図 F	Ch CORRENT CERY FAS FAST [1] MODERAT		pply OW [1] TERSTITIAL TERMITTEN DDIES [1]	[-1] T [-2]	Recreation Primary Seconda (circle one and	n Poten Contac	tial ct act back)
BEST AREAS 5-10cm [1] BEST AREAS < 5cm [metric=0]	pecies: RUN D ☐ MAXIMUM	DEPTH 1 > 50cm [2] 1 < 50cm [1] [X]	Check ONE (C RIFFLE / STABLE (e. MOD. STAB	Or 2 & ave RUN SU g., Cobbl BLE (e.g.,	rage). JBSTRATE e, Boulder) [2	RIFFLE	RUN	EMBEDD NE [2]	RIFFLE (DEDNES	metric=0
□ BEST AREAS > 10cm [2] □ BEST AREAS 5-10cm [1] □ BEST AREAS < 5cm [metric=0] Comments 6] GRADIENT (DRAINAGE AREA	MAXIMUM MAXIMUM fl/mi) VEI	1 > 50cm [2] 1 < 50cm [1] 🛭	STABLE (e. MOD. STAB UNSTABLE	g., Cobble BLE (e.g., (e.g., Find	e, Boulder) [2 Large Gravel)	0 %0	□ NO	NE [2] W [1] DERATE [0] FENSIVE [-1	Riffle	2

Check ALL that apply METHOD STAGE BOAT 1st-sample pass-2nd — WADE HIGH L. LINE UP — OTHER NORMAL DISTANCE DRY — 0.5 Km	omment RE: Reach consistency/ I	s reach typical of steam?, Recreation D] MAINTENANCE	n/ Observed - Inferred, Other	r/Sampling observations, Concerns, Acc	ess directions, etc. F) MEASUREMENTS
0.2 km	NUISANCE ALGAE INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	PUBLIC / PRIVATE BOTH NA ACTIVE HISTORIC BOTH NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED SLUMPS SLANDS SCOURED IMPOUNDED / DESICCATED FLOOD CONTROL / DRAINAGE	OIGO SOING & COMMENT	WWTP / CSO / NPDES / INDUSTRY HARDENED URBAN DIRT&GRIME CONTAMINATED / LANDFILL BMPS-CONSTRUCTION SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION ISURFACE FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT PARK / GOLP LAWN HOME ATMOSPHERE / DATA PAUCITY	x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio Legacy Tree:
Stream Drawing:		Pa Turk prairie	vement grass e buffer Flow	7	

Pavement

Tuf grass

Prairie buffer

Colvert under

Prairie buffer

Colvert under

Prairie buffer

Tufffood (Fair Ave)

Toparian to steep

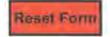
Residential

ChieFPA Primary Headwater Habitat Evaluation Form HHEI Score (sum of metrics 1, 2, 3)

26

TE NAME/LOCATION W. Lancaster - S. Ba		
OTTE HOWBER		.06
ENGTH OF STREAM REACH (ft) 100		· mu
ATE 03/28/24 SCORER Nathan E		
NOTE: Complete All Items On This For	rm - Refer to "Field Evaluation Manual for Ohio's PHWH Streams" for Instru	uctio
TREAM CHANNEL NONE / NA	ATURAL CHANNEL RECOVERED RECOVERING RECENT OR NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECENT OF NO RECOVERING RECOVERING RECENT OF NO RECOVERING RE	OVER
	very type of substrate present. Check ONLY two predominant substrate TYPE boxes ficant substrate types found (Max of 8). Final metric score is sum of boxes A & B.	н
	PERCENT TYPE PERCENT	Me
BLDR SLABS [16 pts]	0% SILT [3 pt] 30%	Po
BOULDER (>256 mm) [16 pts] BEDROCK [16 pt]	0% LEAF PACK/WOODY DEBRIS [3 pts] 0% 0% 0%	Sub
COBBLE (65-256 mm) [12 pts]	CLAY or HARDPAN [0 pt] 60%	Ma
GRAVEL (2-64 mm) [9 pts]	0% MUCK [0 pts]	1
SAND (<2 mm) [6 pts]	1 10% ARTIFICIAL [3 pts] 0%	L'
Total of Percentages of	0.00% (A) Substrate Percentage 100% (B)	A
Bidr Slabs, Boulder, Cobble, Bedrock _ CORE OF TWO MOST PREDOMINATE SUB:	- Criecti	
	maximum pool depth within the 61 meter (200 ft) evaluation reach at the time of pad culverts or storm water pipes) (Check ONLY one box):	Poo
> 30 centimeters [20 pts]	> 5 cm - 10 cm [15 pts]	
> 22.5 - 30 cm [30 pts] > 10 - 22.5 cm [25 pts]	< 5 cm [5 pts] NO WATER OR MOIST CHANNEL [0 pts]	1
100000		
COMMENTS	MAXIMUM POOL DEPTH (centimeters): 8	
BANK FULL WIDTH (Measured as the		Ва
> 4.0 meters (> 13') [30 pts]	> 1.0 m - 1.5 m (> 3' 3" - 4' 8") [15 pts] ≤ 1.0 m (<=3' 3") [5 pts]	W
- 3.0 m - 4.0 m (> 9 / - 13) [25 pts]	5 1.0 III (\$-3 3) [5 pts]	ma
> 3.0 m - 4.0 m (> 9' 7" - 13') [25 pts] > 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]	2 1.0 III (5-3 3) [3 pla]	ma
	AVERAGE BANKFULL WIDTH (meters): 0.75	
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]		Ма
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts]		
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD	AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream☆	
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH	AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ FLOODPLAIN QUALITY	
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD	AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R Mature Forest, Wetland Conservation Tillage	
> 1.5 m - 3.0 m (> 9' 7" - 4' 8") [20 pts] COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L. R. (Per Bank)	This information must also be completed PLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland I Conservation Tillage Immature Forest, Shrub or Old Urban or Industrial	
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed OPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Onen Pasture Row Cro	
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m	This information must also be completed OPLAIN QUALITY ☆NOTE: River Left (L) and Right (R) as looking downstream ☆ FLOODPLAIN QUALITY L R (Most Predominant per Bank) L R Mature Forest, Wetland Conservation Tillage Immature Forest, Shrub or Old Urban or Industrial Field Open Pasture, Row Cro	
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m	This information must also be completed OPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Onen Pasture Row Cro	
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS	This information must also be completed PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture O.75 L R Conservation Tillage Urban or Industrial Open Pasture, Row Cro	
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Every Stream Flowing)	This information must also be completed PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Mining or Construction Valuation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent)	p
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Eve Stream Flowing Subsurface flow with isolated po	This information must also be completed PLAIN QUALITY ♣NOTE: River Left (L) and Right (R) as looking downstream ♣ FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Field Residential, Park, New Field Fenced Pasture Mining or Construction Valuation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent)	p
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS	AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or Old Immature Forest, Shrub or Old Field Open Pasture, Row Cro Mining or Construction Waluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	p
COMMENTS RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Ev. Stream Flowing Subsurface flow with isolated por COMMENTS SINUOSITY (Number of bends	AVERAGE BANKFULL WIDTH (meters): This information must also be completed PLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream A FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or Old Immature Forest, Shrub or Old Field Open Pasture, Row Cro Mining or Construction Waluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	p
RIPARIAN ZONE AND FLOOD RIPARIAN WIDTH L R (Per Bank) Wide >10m Moderate 5-10m Narrow <5m None COMMENTS FLOW REGIME (At Time of Events Stream Flowing Subsurface flow with isolated por COMMENTS	AVERAGE BANKFULL WIDTH (meters): This information must also be completed DPLAIN QUALITY ANOTE: River Left (L) and Right (R) as looking downstream FLOODPLAIN QUALITY L R (Most Predominant per Bank) Mature Forest, Wetland Immature Forest, Wetland Immature Forest, Shrub or Old Immature Forest, Shrub or Old Immature Forest, Shrub or Old Field Open Pasture, Row Cro Mining or Construction Waluation) (Check ONLY one box): Moist Channel, isolated pools, no flow (Intermittent) Dry channel, no water (Ephemeral)	p

ADDITIONAL STREAM INFORMATION (This Int	ormation Must Also be Completed):
QHEI PERFORMED? - Yes / No	QHEI Score (If Yes, Attach Completed QHEI Form)
DOWNSTREAM DESIGNATED USE(S)
WWH Name:	Distance from Evaluated Stream
CWH Name:	Distance from Evaluated Stream
EWH Name:	Distance from Evaluated Stream _
MAPPING: ATTACH COPIES OF MAPS	, INCLUDING THE ENTIRE WATERSHED AREA. CLEARLY MARK THE SITE LOCATION
JSGS Quadrangle Name:	NRCS Soil Map Page: NRCS Soil Map Stream Order
ounty: Fairfield	Township / City: Lancaster
MISCELLANEOUS	
ase Flow Conditions? (Y/N): Y Date of la	ast precipitation: 03/26/24 Quantity: 0.30
hotograph Information:	
levated Turbidity? (Y/N): N Canop	y (% open): 100%
/ere samples collected for water chemistry? (Y/I	N): N (Note lab sample no. or id. and attach results) Lab Number: N/A
ALL LINE IN CONTROL OF THE PARTY OF THE PART	d Oxygen (mg/l) pH (S.U.) Conductivity (µmhos/cm)
the sampling reach representative of the stream	v
the sampling reach representative of the stream	n (T/N) if not, please explain:
\	
additional comments/description of pollution impa	acts:
Tish Observed? (Y/N) N Voucher? (Y/N)	observations. Voucher collections optional. NOTE: all voucher samples must be labeled with the se appropriate field data sheets from the Primary Headwater Habitat Assessment Manual) Salamanders Observed? (Y/N) N Voucher? (Y/N) N Voucher? (Y/N) Voucher? (Y/N) N Voucher? (Y/N)
No biotic evaluation conducted	
	E DESCRIPTION OF STREAM REACH (This <u>must</u> be completed): eatures of interest for site evaluation and a narrative description of the stream's location
manage important landing to and other it	and a not diverged by the orangement and a not dure description of the stream 5 location
	con land truf
LOW →	erodes bank Ag Land
	"y Land



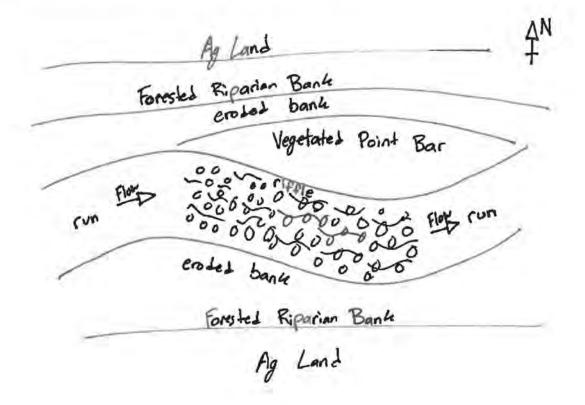
Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 44

Hunters Run		Scorere Eull A	ame & Affiliatio	m. V3 Com		: 3 / 28 / 24
River Code:	STORET #:		Long.: 39 . 70		6401	Office verifie
11 SUBSTRATE Check ONLY	wo substrate TYPE BOXES					locatio
BEST TYPES BLDR /SLABS [10] BOULDER [9] COBBLE [8] GRAVEL [7] BEDROCK [5] NUMBER OF BEST TYPES Comments	note every type present OTHER TYPI HARDPAN [ES POOL RIFFLE 41 31 [0] al substrates; ignore from point-sources nt; 1-Very small are toot of highest que	Chec ORIGIN LIMESTONE [1] TILLS [1] WETLANDS [0] HARDPAN [0] SANDSTONE [0] SANDSTONE [0] LACUSTURINE SHALE [-1] COAL FINES [-1]	SILT SILT O O O O O O O O O O O O O	QUAL HEAVY MODER, MORMA FREE EXTENS MODER, NONE NONE	-2] ATE [-1] Subs L [0] J
diameter log that is stable, well developed a comments	veloped rootwad in deep / fi 0 POOLS > ON [1] 1 ROOTWA	ast water, or deep, 70cm [2]0 DS [1]0	Well-defined, function DXBOWS, BACKWA AQUATIC MACROP LOGS OR WOODY I	nal pools. ATERS [1] HYTES [1]	SPARSE 5-	25-75% [7]
3] CHANNEL MORPHOLOG SINUOSITY DEVELOP HIGH [4]	MENT CHANNEI INT [7] NONE [6] RECOVEREI RECOVERIN	LIZATION [4]	STABILITY HIGH [3] MODERATE LOW [1]	[2]		Channel Maximum 20
☐ NONE / LITTLE [3] ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	PARIAN ZONE Check RIPARIAN WIDTH WIDE > 50m [4] MODERATE 10-50m [3] NARROW 5-10m [2] VERY NARROW < 5m [1] NONE [0]	FLO FOREST, S SHRUB OF	OD PLAIN QUA WAMP [3] R OLD FIELD [2] IAL, PARK, NEW FIE	LITY	CONSERVATION URBAN OR INI MINING / CONS e predominant loom riparian.	STRUCTION [0]
□ > 1m [6] □ POO □ 0.7-<1m [4] □ POO	LE / RUN QUALITY CHANNEL WIDTH heck ONE (Or 2 & average L WIDTH > RIFFLE WIDTH L WIDTH = RIFFLE WIDTH L WIDTH < RIFFLE WIDTH	C [2] ☐ TORREN' [1] ☐ VERY FA [0] ☒ FAST [1] ☒ MODERA	☐ INTERN	[1] STITIAL [-1] MITTENT [-2] S [1]	Primary Secondar (circle one and c	Pool/ Current Maximum
BEST AREAS > 10cm [2] M	S: Che RUN DEPTH R! AXIMUM > 50cm [2] ☐ ST AXIMUM < 50cm [1] ☑ MO	ck ONE (<i>Or</i> 2 & av IFFLE / RUN S 'ABLE (e.g., Cobb OD. STABLE (e.g.	erage). UBSTRATE R le, Boulder) [2]	IFFLE / RU	tion NO NEMBEDDO ONE [2] OW [1] IODERATE [0] XTENSIVE [-1]	RIFFLE [metric EDNESS
6] GRADIENT (ft/mi) DRAINAGE AREA (9.2 mi²)	VERY LOW - LOW [2- MODERATE [6-10] HIGH - VERY HIGH [1		%POOL: 0 %RUN: 60	%GLIDI	::0	Gradient Maximum 10

AJ SAMPLED REACH Check ALL that apply	Comment RE: Reach consistency/	Is reach typical of steam?, Recreation	Observed - Inferred, Other	er/ Sampling observations, Concerns, Acc	cess directions, etc.
METHOD STAGE BOAT 1st -sample pass- 2nd					
□ 0.5 Km □ 0.2 Km □ 0.15 Km □ 0.15 Km □ 0.12 Km □ 0.12 Km □ 0.12 Km □ 0.70 cm □ 40-70 cm □ 40-70 cm □ 50 □ > 70 cm/ CTB □ SECCHI DEPTH□ CANOPY 1st cn □ > 85%-OPEN □ 30%-<55% □ 30%-<55%	INVASIVE MACROPHYTES EXCESS TURBIDITY DISCOLORATION FOAM / SCUM OIL SHEEN TRASH / LITTER NUISANCE ODOR SLUDGE DEPOSITS CSOs/SSOs/OUTFALLS	PUBLIC PRIVATED BOTH / NA ACTIVE MISTORIC BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED RELOCATED / CUTOFFS MOVING BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED	Circle some & COMMENT	WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSIOND SURFACE FALSE BAND MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT	F] MEASUREMENT x width x depth max. depth x bankfull width bankfull x depth W/D ratio bankfull max. depth floodprone x² width entrench. ratio
☐ 10%-<30%	EATION AREA DEPTH POOL: □>100ft2□>3ft	IMPOUNDED / DESICCATED FLOOD CONTROL (DRAINAGE)		PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	Legacy Tree:

Stream Drawing:



Letter of Notification for West Lancaster – South Baltimore – West Millersport 138 kV Transmission Line Rebuild Project

Appendix F FEMA Flood Insurance Rate Maps

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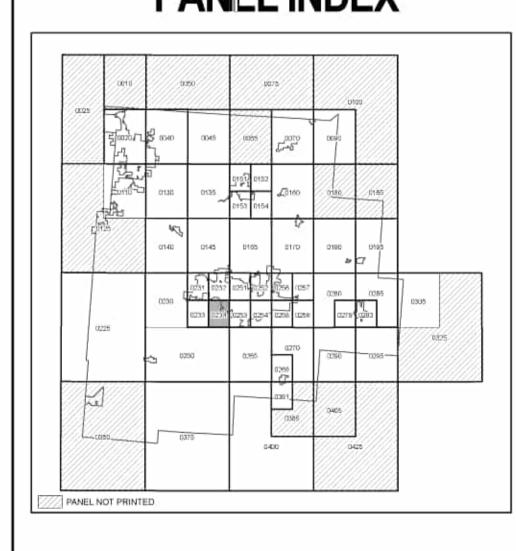
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

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No Base Flood Elevations determined. ZONE AE

Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain);

average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance

ZONE AR

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23) Geographic coordinates referenced to the North American

85"03' 45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 .

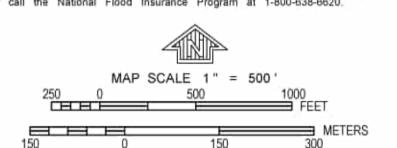
MAP REPOSITORY Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

January 6, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.





FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 234 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

FAIRFIELD COUNTY LANCASTER, CITY OF

Notice to User: The Map Number shown below should be used

when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0234G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

NUMBER PANEL SUFFIX

390158 0234 G 390161 0234 G

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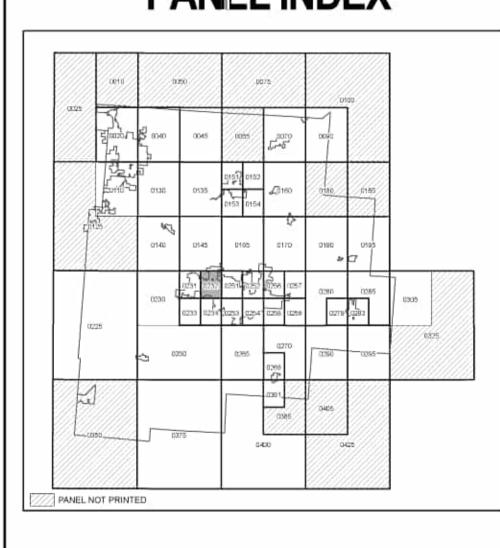
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No Base Flood Elevations determined.

Elevations determined.

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FLOODWAY AREAS IN ZONE AE

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0.2% annual chance floodplain boundary Floodway boundary

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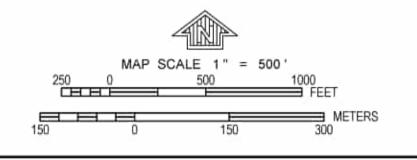
MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP January 6, 2012

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FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

PANEL 0232G

AND INCORPORATED AREAS

PANEL 232 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

NUMBER PANEL SUFFIX

COMMUNITY FAIRFIELD COUNTY LANCASTER, CITY OF

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MAP NUMBER 39045C0232G EFFECTIVE DATE **JANUARY 6, 2012**

390158 0232 G 390161 0232 G

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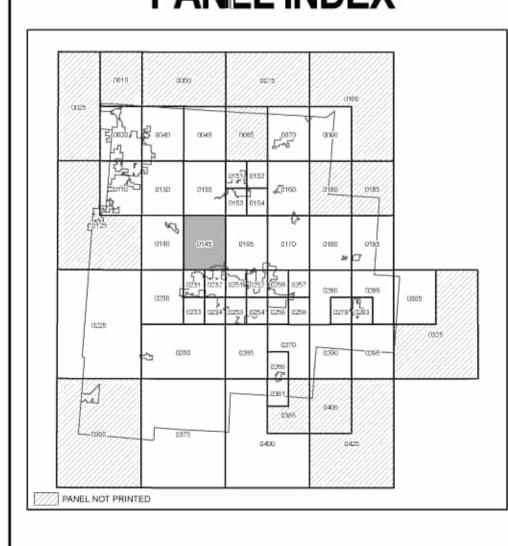
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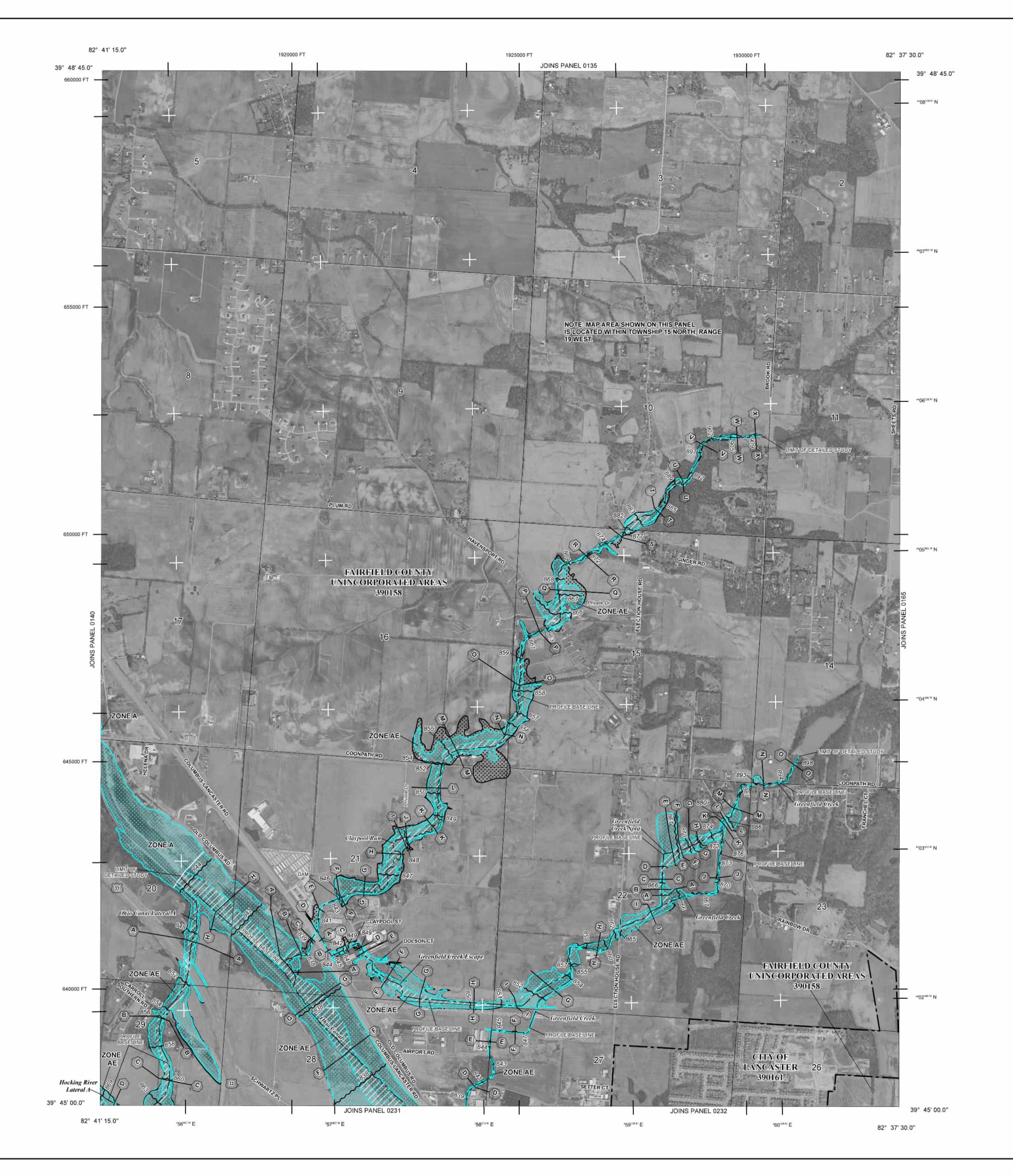
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No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

> Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE AR

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

Areas determined to be outside of the 0.2% annual chance floodplain.

ZONE X

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone;

elevation in feet* *Referenced to the North American Vertical Datum of 1988

Cross section line

(22) -----(23) Geographic coordinates referenced to the North American

85"03' 45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

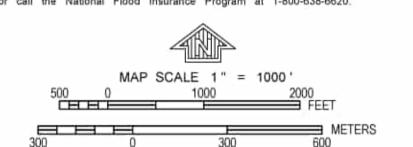
January 6, 2012

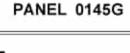
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

Map History table located in the Flood Insurance Study report for this jurisdiction.

For community map revision history prior to countywide mapping, refer to the Community

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.





FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 145 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

NUMBER PANEL SUFFIX 390158 0145 G 390161 0145 G FAIRFIELD COUNTY LANCASTER, CITY OF

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0145G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

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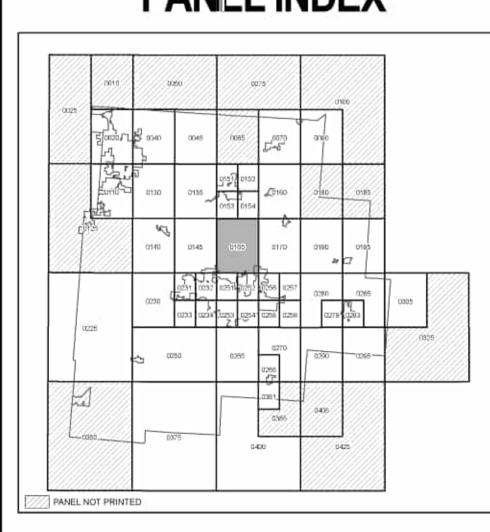
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If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The profile base lines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal

flood protection system under construction; no Base Flood Elevations Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

ZONE AR

ZONE V

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevations, flood depths or flood velocities. 513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23)

Geographic coordinates referenced to the North American 85"03'45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere

4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

January 6, 2012 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance

agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

PANEL 0165G

AND INCORPORATED AREAS

PANEL 165 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY FAIRFIELD COUNTY LANCASTER, CITY OF

NUMBER PANEL SUFFIX

390158 0165 G 390161 0165 G

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0165G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

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To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

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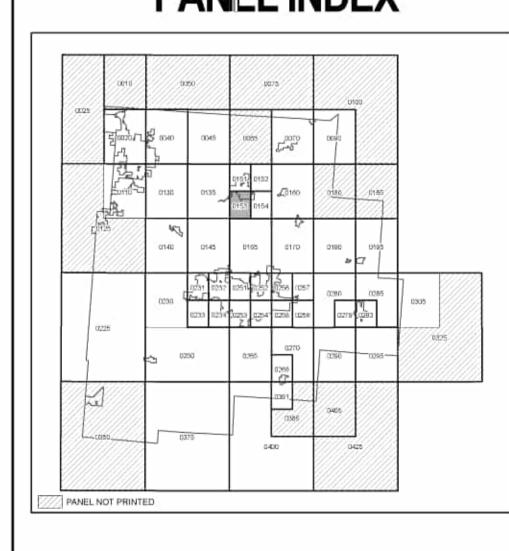
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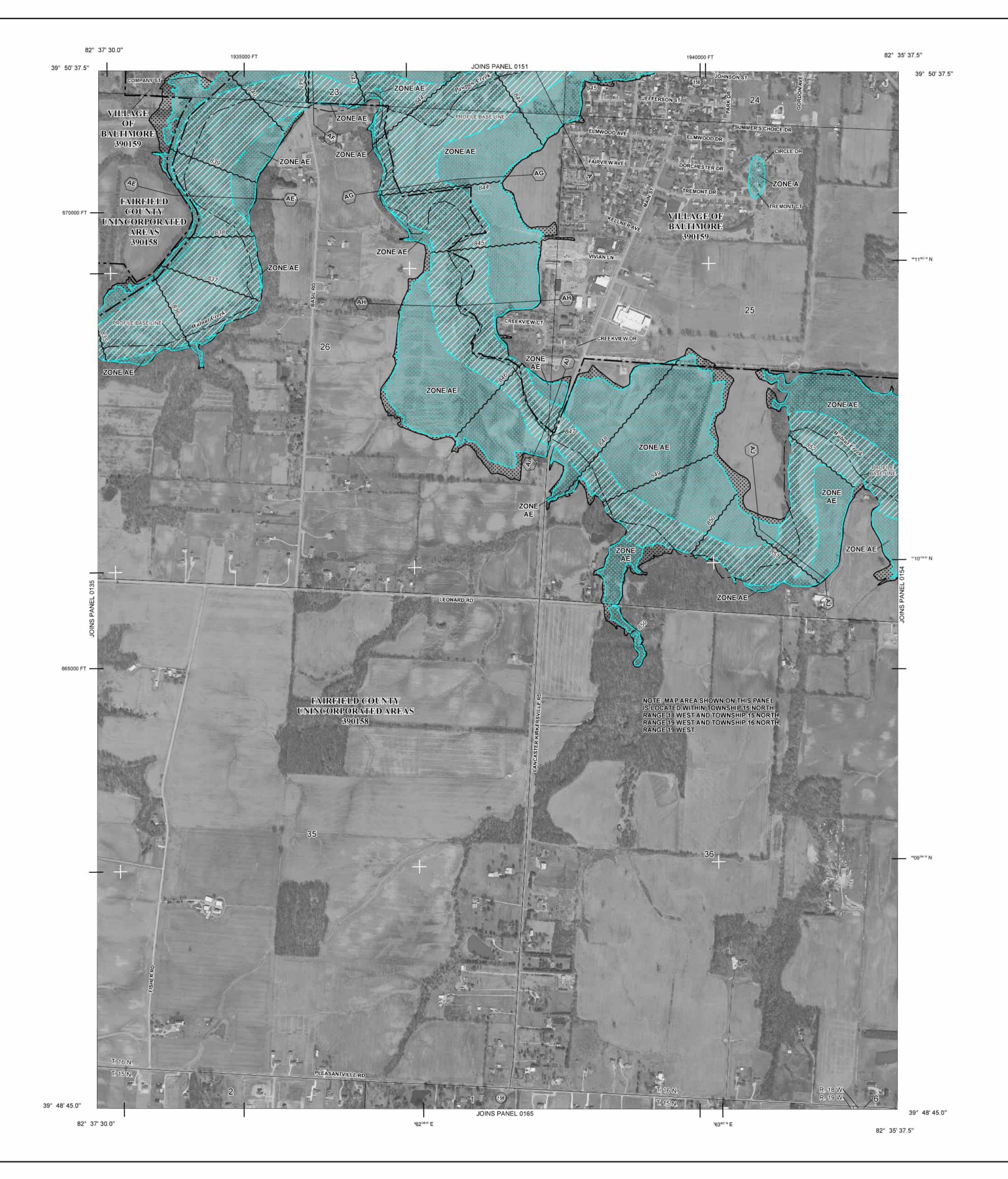
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The profile base lines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined. ZONE AE Base Flood Elevations determined.

ZONE AR

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

> Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet* Base Flood Elevation value where uniform within zone;

elevation in feet*

*Referenced to the North American Vertical Datum of 1988 Cross section line

(22) -----(23)

Geographic coordinates referenced to the North American 85"03' 45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere

4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17 5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY Refer to listing of Map Repositories on Map Index

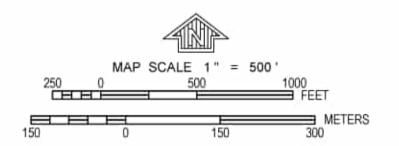
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP January 6, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance

agent or call the National Flood Insurance Program at 1-800-638-6620.



PANEL 0153G

FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 153 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

NUMBER PANEL SUFFIX BALTIMORE, VILLAGE OF 390159 0153 G 390158 0153 G FAIRFIELD COLINTY

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



MAP NUMBER 39045C0153G EFFECTIVE DATE **JANUARY 6, 2012**

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Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

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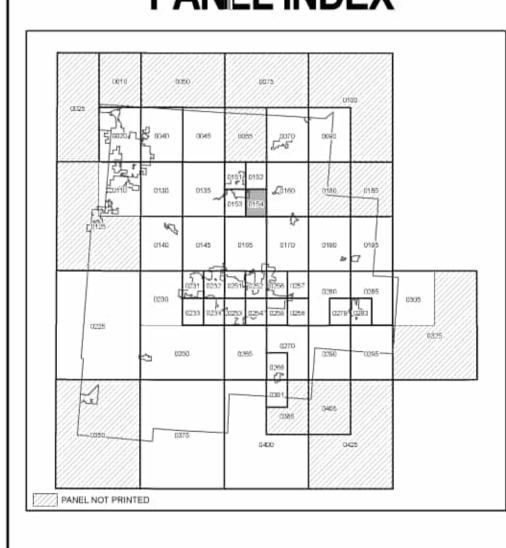
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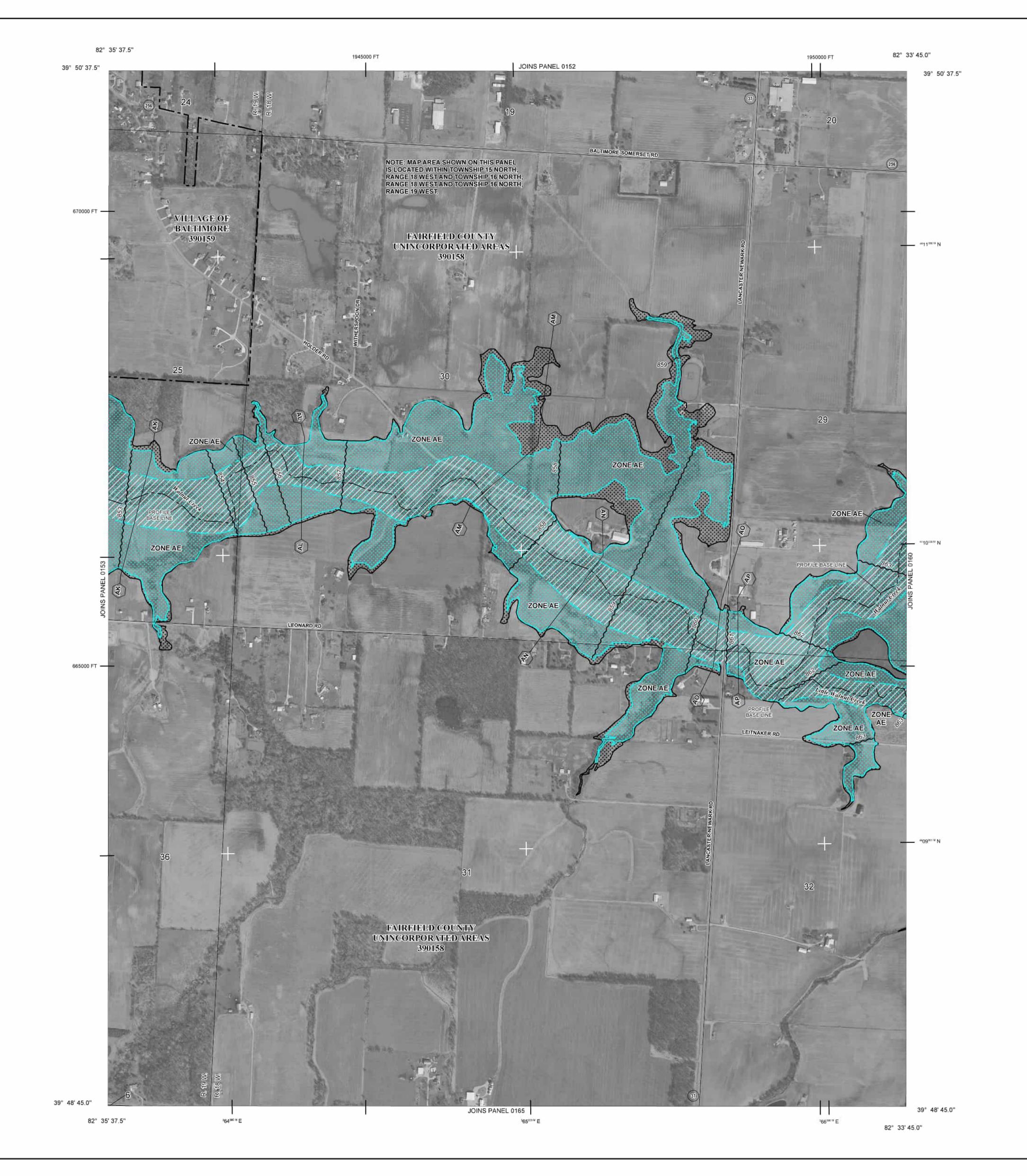
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PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities

Area of special flood hazard formerly protected from the 1% annual chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

being restored to provide protection from the 1% annual chance or

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

Elevations determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE AR

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Floodway boundary Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

Cross section line

(22) - - - - - (23)

Geographic coordinates referenced to the North American 85"03' 45.0", 41" 24' 22.5" Datum of 1983 (NAD 83), Western Hemisphere

4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17 5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of KA0015 .

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

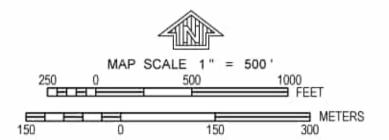
January 6, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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To determine if flood insurance is available in this community, contact your insurance

agent or call the National Flood Insurance Program at 1-800-638-8620.



PANEL 0154G

FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 154 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY

NUMBER PANEL SUFFIX BALTIMORE, VILLAGE OF 390159 0154 G 390158 0154 G FAIRFIELD COLINTY

when placing map orders; the Community Number shown above should be used on insurance applications for the subject

Notice to User: The Map Number shown below should be used



39045C0154G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for

The projection used in the preparation of this map was Ohio State Plane South Zone 5001 (FIPSZONE 3402). The horizontal datum was NAD83. Differences in datum, spheroid, projection or state plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information on this FIRM was provided in digital format by the Fairfield County, GIS Department. This information was produced from aerial photography dated 2006 or later.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

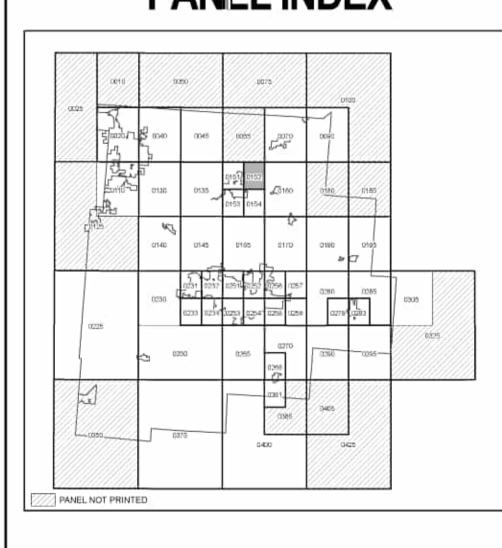
Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each

Contact the FEMA Map Service Center (MSC) via the FEMA Map Information eXchange (FMIX) at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The MSC may also be reached by Fax at 1-800-358-9620 and its website at http://msc.fema.gov/

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The profile base lines depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

PANEL INDEX





LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard may include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Elevations determined. ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain);

average depths determined. For areas of alluvial fan flooding, velocities ZONE AR Area of special flood hazard formerly protected from the 1% annual

chance flood event by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

Area to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

OTHER AREAS

ZONE X Areas determined to be outside of the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. 1% annual chance floodplain boundary

> 0.2% annual chance floodplain boundary Floodway boundary

> > Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

513 Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone;

elevation in feet*

*Referenced to the North American Vertical Datum of 1988 Cross section line

(22) - - - - - (23)

Geographic coordinates referenced to the North American 85"03' 45.0", 41" 24' 22.5"

Datum of 1983 (NAD 83), Western Hemisphere 4587000 M 1000-meter Universal Transverse Mercator grid values, zone 17

5000-foot grid ticks: Ohio State Plane South Coordinate 2250000 FT

System, 5001 Zone (FIPSZONE 3402) Lambert Conformal Conic Bench mark (see explanation in Notes to Users section of

KA0015

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

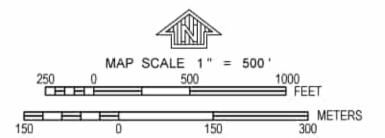
January 6, 2012

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community

Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.





FIRM

FLOOD INSURANCE RATE MAP FAIRFIELD COUNTY, оню

AND INCORPORATED AREAS

PANEL 152 OF 425

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

NUMBER PANEL SUFFIX

COMMUNITY BALTIMORE, VILLAGE OF FAIRFIELD COLINTY

390159 0152 G 390158 0152 G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject



39045C0152G EFFECTIVE DATE **JANUARY 6, 2012**

MAP NUMBER