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Attachment C: Water Resources Delineation Report

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Wetlands and Other Waters Delineation Report

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Prepared for:

Tetra Tech 2 Lan Drive, Suite 210 Westford, Massachusetts 01886

for the

South Field Energy Interconnection Facilities

Madison and Yellow Creek Townships, Columbiana County, Ohio

Prepared by:



5070 Stow Rd. Stow, OH 44224 800-940-4025 www.EnviroScienceInc.com

STATEMENT OF CERTIFICATION

11

The analyses, opinions and conclusions in this report are based entirely on EnviroScience's unbiased, professional judgment. EnviroScience's compensation is not in any way contingent on any action or event resulting from this study. Neither EnviroScience nor any EnviroScience employee has any vested interest in the property examined in this study.



TABLE OF CONTENTS

41

LIST (OF TAE	BLES	iii
LIST (of App	PENDICES	.iii
EXEC		SUMMARY	
1.0	INTRO	DUCTION AND SITE DESCRIPTION	.2
2.0	METH	ODS	2
	2.1	WETLANDS	. 3
		2.1.1 Determination	. 3
		2.1.1.1 Vegetation	4
		2.1.1.2 Hydrology	6
		2.1.1.3 Soils	.6
		2.1.2 ORAM Categorization	6
		2.1.3 Cowardin Wetland Classification	8
	2.2	OTHER WATERS	8
		2.2.1 Ponds and Lakes	8
		2.2.2 Streams and Rivers	. 8
		2.2.3 HHEI and QHEI	. 9
3.0	LITER	ATURE REVIEW	
	3.1	USGS TOPOGRAPHIC MAP	10
	3.2	NWI MAP	10
	3.3	COUNTY SOIL SURVEY	10
	3.4	AERIAL PHOTOGRAPHY	12
	3.6	OHIO NATURAL HERITAGE DATABASE	12
	3.7	U.S. FISH AND WILDLIFE SERVICE	12
4.0	RESU	LTS	13
	4.1	NON-WETLANDS	15
	4.2	WETLANDS	16
	4.3	STREAMS AND RIVERS	20
	4.4	PONDS AND LAKES	22
6.0	ASSU	MPTIONS AND DISCLAIMERS	23
REFE	RENCE	ES	<u>2</u> 4



LIST OF TABLES

Table 1.	Wetland Communities (Cowardin et al. 1979).	.4
	Disturbed and Successional Non-Wetland Communities.	
Table 3.	Vegetative Strata	. 5
Table 4.	Plant Indicators	. 5
Table 5.	ORAM Scores and Categories.	.7
Table 6.	Soil Types Mapped Project Area	11
Table 7.	Sample Plot Results	13
Table 8.	Wetland Results within the Project Area	16
Table 9.	Stream Results within the Project Area.	21
Table 10	. Stream Results within the Project Area	23

LIST OF APPENDICES

Appendix A: Figures

Figure 1. Location of Project Area on Highway Map of Columbiana County, Ohio.

- Figure 2. USGS 7.5-minute Topographic Map of West Point Quadrangle.
- Figure 3. NWI Map of Project Area (West Point Quadrangle).
- Figure 4. Soil Map of Project Area in Columbiana County, Ohio.
- Figure 5. Site Map of Wetlands and Other Water Resources.

Appendix B: Photographs

Appendix C: Routine Wetland Determination Data Forms

Appendix D: Ohio Rapid Assessment Method for Wetlands v 5.0 Rating Forms

Appendix E: Stream Habitat Forms

Appendix F: Ohio Natural Heritage Database Results



EXECUTIVE SUMMARY

EnviroScience, Inc. performed a delineation of wetlands and other waters in April 2015 and November 2015 for Tetra Tech at the South Field Energy Interconnection Facilities project located in Madison and Yellow Creek Townships, Columbiana County, Ohio. The project area consists of an approximately 38 acre proposed switchyard location with an access drive, a preferred route (along approximately 18,120 feet of proposed utility easement), and an alternate route (along approximately 17,900 feet of proposed utility easement). The total area surveyed for the South Field Energy interconnection project is 240.6 acres. The switchyard is located north of Osborne Road, east of McCormick Run Road, and west of Sines Road. The proposed easements for the preferred and alternate routes are the similar at the eastern and western extents, but they diverge in the center. Both routes start at the proposed switchyard and end east of Hibbetts Mill Road.

Twenty-three (23) wetlands were identified and delineated within the entire project area and account for 3.674 acres. Eleven (11) ephemeral streams, twelve (12) intermittent streams, and two (2) USGS-named perennial streams (Alder Lick Run and Bailey Run) were identified and delineated onsite, accounting for a total of 5,952 linear feet (0.504 acres). Four (4) open water aquatic resources were identified within the project area accounting for an additional 0.470 acres within the project area. The project area consists of maintained lawn, agricultural field, open field, old field, scrub/shrub, and forested vegetation. The surrounding land use consists of agricultural and forested communities, with scattered rural residential properties. Eight (8) distinct vegetative communities were identified within the project area including two (2) wetland community types. The onsite wetland communities include palustrine emergent and palustrine forested vegetative communities.

Wetlands and waterbodies are under the jurisdiction of the Ohio EPA or U.S. Army Corps of Engineers (USACE). No filling may occur within these areas without their written permission. Please contact the Ohio EPA Division of Surface Water at (614) 644-2001 or the Pittsburgh District, U.S. Army Corps of Engineers, at (412) 395-7155 before working in these areas.



1.0 INTRODUCTION AND SITE DESCRIPTION

EnviroScience, Inc. performed a delineation of wetlands and other waters in April 2015 and November 2015 for Tetra Tech at the South Field Energy Interconnection Facilities project located in Madison and Yellow Creek Townships, Columbiana County, Ohio. The project area consists of an approximately 38 acre proposed switchyard location with an access drive, a preferred route (along approximately 18,120 feet of proposed utility easement), and an alternate route (along approximately 17,900 feet of proposed utility easement). The total area surveyed for the South Field Energy interconnection project is 240.6 acres. The switchyard is located north of Osborne Road, east of McCormick Run Road, and west of Sines Road. The proposed easements for the preferred and alternate routes are the similar at the eastern and western extents, but they diverge in the center. Both routes start at the proposed switchyard and end east of Hibbetts Mill Road.

Eight (8) distinct vegetative communities were identified within the project area, including two (2) wetland community types. The project area exists rural residential, agricultural, field, and forested communities. The surrounding area exists as forest and agricultural land with rural residential properties. The project area crosses twenty-three (23) wetlands, eleven (11) ephemeral streams, twelve (12) intermittent streams, two (2) USGS-named perennial streams, and four (4) open water ponds. The onsite open water ponds are located within areas of steep relief that are depicted as strip mines. These areas are no longer active strip mines.

The project area is located in the upper Ohio River drainage basin (Hydrologic #05030101) which drains approximately 640 square miles in northeast Ohio. It is within the Western Allegheny Plateau ecoregion (Woods *et al.* 1998) of Ohio. The project area is located within the area covered by the Eastern Mountains and Piedmont Supplement (USACE 2012) and associated plant list (Lichvar *et al.* 2014). The project area is regulated by the USACE Pittsburgh District.

2.0 METHODS

Government agencies regulate coastal and inland waters for commerce, flood control, and water quality. These water bodies provide numerous functions and values necessary to protect and sustain our quality of life. Wetlands comprise a significant portion of regulated waters. The USACE and U.S. Environmental Protection Agency (USEPA) jointly define wetlands 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. Wetlands generally include swamps, marshes, bogs, and similar areas."



The remaining deepwater aquatic habitats (open waters) are defined by the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) as:

". . . areas that are permanently inundated at mean annual water depths >6.6 ft or permanently inundated areas <6.6 ft in depth that do not support rooted emergent or woody plant species."

The methods used for determining and delineating wetlands and open waters strictly adhere to those found in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountain and Piedmont Region* (USACE 2012). Wetlands and open water boundaries were determined by the disappearance of one or more of their diagnostic characteristics.

Ordinary high water marks (OHWM) defined the outermost regulatory boundaries of ephemeral and open waters.

Each sample plot and the perimeter of each wetland and other water was surveyed and marked in the field with plain pink flags and pink "wetland boundary" flags, respectively. A global positioning system (GPS) unit with submeter accuracy was used, in conjunction with aerial photography and topographic figures, for the survey. Computer Aided Design (CAD) software was used to determine wetland dimensions and Geographic Information Systems (GIS) software was used to produce a map of the project area showing wetlands and other waters.

2.1 WETLANDS

2.1.1 Determination

A review of secondary literature sources was performed to find known wetlands and other significant ecological resources and areas with high potential for wetlands in or near the proposed project area. Resources include the following:

- 1. U.S. Geological Survey (USGS) topographic maps;
- 2. National Wetlands Inventory (NWI) maps;
- 3. Web Soil Survey; and
- 4. Aerial Photographs.

A field inspection of the project area was then completed to identify major plant communities and to visually locate potential wetlands. The routine, onsite (Level 2) wetland determination was used to perform the delineation. Wetland communities were classified according to the classification scheme of Cowardin *et al.* (1979) (Table 1). Mature non-wetland communities that had reached a stable equilibrium were classified

according to Anderson (1982) and Gordon (1966, 1969). Disturbed and successional non-wetland communities were classified as one of the categories described in Table 2.

Community	Description	
PEM	Palustrine Emergent	
PSS	Palustrine Scrub-Shrub	
PFO	Palustrine Forested	
POW	Palustrine Open Water	

Table 1. Wetland Communities (Cowardin et al. 1979).

Table 2.	Disturbed a	and Successiona	l Non-Wetland	Communities.
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Community Description		Description
- Pa	Urban	regularly maintained land; residential; industrial
Agricultural land used for producing crops or		land used for producing crops or raising livestock; cropland; pastureland
ä	disturbed areas devoid of most vegetation from recent clearing, grading or filling	
	Open Field	herbaceous community without woody vegetation
onal	Old Field	herbaceous community having woody vegetation coverage of <50%
Old Field herbaceous community Scrub- community dominant Shrub community dominant		community dominated by woody vegetation <6 m (20 ft) tall
Ś	Forest	community dominated by woody vegetation >6 m (20 ft) tall

Sample plots were established within each natural community and potential wetland within the project area. Complete data for each sample plot were collected and recorded on the USACE's Routine Wetland Determination Data Forms contained in the applicable USACE Regional Supplement (USACE 2012). Vegetation, hydrology and soils were evaluated at each sample plot.

2.1.1.1 Vegetation

To detect the presence or absence of hydrophytic vegetation, four plant strata were evaluated within specific radii of the plot center. Each stratum was ranked by aerial cover in descending order of abundance. Table 3 provides information on each vegetative stratum.



Stratum	Definition	Survey Area		
Tree	woody plants > or equal to 3 in. (7.6 cm) diameter at breast height (dbh), regardless of height	30 ft (9.1 m) radius		
Sapling/shrub	woody plants <3 in. (7.6 cm) dbh and <u>></u> 3.28 ft (1 m) tall	15 ft (4.6 m) radius		
Herbaceous	herbs and woody plants less than 3.28 ft (1 m) in height	5 ft (1.5 m) radius		
Woody vines	woody vines >3.28 ft (1 m) in height	30 ft (9.1 m) radius		

Table 3. Vegetative Strata.

Percent dominance was obtained for each species and within each stratum. Dominant species are those which cumulatively totaled in order of abundance immediately exceed 50% and also include any individual species with an abundance of 20% or more (USACE 2012). Dominant taxa were identified using recognized local guides: nomenclature follows the *National List of Scientific Plant Names* (USDA 1982). Following the identification of each plant species present within the plot, all dominant species within each stratum were assigned a wetland indicator status according to Lichvar (2014). Indicators are summarized in Table 4.

Indicator	Category	Definition
OBL	Obligate Wetland	almost exclusively (>99% of occurrences) found in wetlands
FACW	most likely found in wetlands (67-99% of occurrences)	
FAC	Facultative	equally likely found in wetlands or non- wetlands (34-66%)
FACU	Facultative Upland	most likely found in non-wetlands (1-33% occurrence in wetlands)
UPL	Obligate Upland	almost exclusively found in non-wetlands (<1% occurrence in wetlands)

Table 4. Plant Indicators.

An 'NI' (no indicator) designation represents species where not enough information is available to assign an indicator; an 'NL' (no listing) designation is given to species whose identification was not determined sufficiently enough to assign an indicator. Once the indicator status is assigned to each dominant species, the evaluator can perform the percent dominance test according to the protocol outlined within the applicable Regional Supplement (USACE 2012) to determine if the plot meets the criterion for hydrophytic vegetation.



2.1.1.2 Hydrology

To detect the presence or absence of wetland hydrology, surface and subsurface hydrologic indicators were evaluated at the sample plot and throughout the adjacent community. Primary sources of wetland hydrology include direct precipitation, headwater flooding, backwater flooding, groundwater or any combination of these. When obtaining data at each sample plot, the evaluator observes evidence of hydrology. Primary indicators of hydrology (only one of these is necessary to indicate sufficient wetland hydrology) include the presence of surface water, water marks, sediment deposits, drift deposits, etc. (USACE 2012). Secondary indicators of hydrology (which requires two or more at each sample plot) include surface soil cracks, drainage patterns, crayfish burrows, etc. (USACE 2012).

2.1.1.3 Soils

The upper horizons of the soil at each sample plot were examined to detect the presence or absence of hydric soils indicators. Current USACE guidance requires the evaluator to assess the upper 20 inches of soil for hydric soil characteristics. Most indicators of hydric soils require an assessment of soil matrix color and mottle characteristics (Environmental Laboratory 1987, USACE 2012) for each horizon. These characteristics were determined by comparing a moist sample with *Munsell Soil Color Chart* (Munsell Color 2009) or *The Globe Soil Color Book* (Visual Color Systems 2004).

2.1.2 ORAM Categorization

Each wetland system was categorized in accordance with version 5.0 of the Ohio EPA's Ohio Rapid Assessment Method for Wetlands (ORAM) (Mack 2000, 2001). Field scoring forms are contained in Appendix D.

Ohio EPA has established three primary and three intermediate categories of wetland quality which are based on a wetland's size, its hydrologic function, the types of plant communities present, the physical structure of the wetland plant community and the wetland's level of disturbance (OAC 3745-1-54). The relationship between the various wetland categories and their respective ORAM scores is presented in Table 5. EnviroScience also evaluated the project area for the presence of state threatened and endangered species as part of the ORAM evaluation.



ORAM Score	Description			
0-29.9	Category 1	Lowest quality, and are generally characterized by hydrological isolation, lack of plant species diversity, insufficient habitat availability, and limited potential to perform major wetland functions.		
30-34.9	Category 1 or 2 (Gray Zone)	ORAM score is insufficient to categorize wetland. In absence of a nonrapid method such as VIBI, assign the wetland to the higher functional category (Category 2)		
35-44.9	Modified Category 2	Category 2 wetlands that may be of lower quality or degraded but have reasonable potential to be restored.		
45-59.9	Category 2	Wetlands that have the capability to support a moderate wildlife community or maintain mid-level hydrological functions.		
60-64.9	Category 2 or 3 (Gray Zone)	ORAM score is insufficient to categorize wetland. In absence of a nonrapid method such as VIBI, assign the wetland to the higher functional category (Category 3)		
65-100	Category 3	Highest quality, generally characterized by a high level of biological diversity and topographical variation, threatened or endangered species, large numbers of native species, or a high level of functional importance to its surroundings.		

Table 5. ORAM Scores and Categories.

Category 3 wetlands have the highest quality, and are generally characterized by a high level of biological diversity and topographical variation, large numbers of native species, or a high level of functional importance to its surroundings. Category 2 wetlands have the capability to support a moderate wildlife community or maintain mid-level hydrological functions. Category 2 also includes wetlands that may be of lower quality or degraded but have reasonable potential to be restored (Modified Category 2). Category 1 wetlands are of the lowest quality, and are generally characterized by hydrological isolation, lack of plant species diversity, insufficient habitat availability, and limited potential to perform major wetland functions (OAC 3745-1-54).

Since the ORAM is a rapid assessment method, there are certain wetland scores which fail to clearly differentiate the wetland's functional category. The so-called "gray zone" wetlands fall between the definite scoring breaks between the categories. Ohio EPA requires that "gray zone" wetlands be considered as the higher category unless more detailed functional assessments such as the VIBI or AmphIBI are conducted on those wetlands. As a result of this requirement, wetlands whose scores fall between the breakpoints for Categories 1 and 2 (1 or 2 gray zone wetlands) wetlands will be considered as Category 2 wetland for purposes of this report. Wetlands whose scores fall between the breakpoints for Categories 2 and 3 wetlands (2 or 3 gray zone wetlands) will be considered a Category 3 wetland for purposes of this report.



2.1.3 Cowardin Wetland Classification

The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory uses the *Classification of Wetlands and Deepwater Habitats of the United States* to classify wetland habitat types (Cowardin *et al.* 1979). This classification system is hierarchical and defines five major systems – Marine, Estuarine, Riverine, Lacustrine, and Palustrine. The Palustrine system was the only type of wetland system identified within the project area and is defined as including all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, and all such wetlands that occur in tidal areas where salinity due to ocean driven-derived salts is below 0.5 percent (Cowardin *et al.* 1979).

2.2 OTHER WATERS

Other waters include ephemeral and open waters. These waters are broken down into two categories: 1) ponds and lakes; and 2) streams and rivers.

2.2.1 Ponds and Lakes

Palustrine systems other than wetlands, and lacustrine waters are addressed as ponds and lakes, respectively. These non-linear open waters may harbor important aquatic communities such as vegetated shallows (aquatic bed) and mud flats. They are classified according to Cowardin *et al.* (1979).

2.2.2 Streams and Rivers

Riverine systems are linear flowing waters bounded by a channel. Cowardin *et al.* (1979) divides these system into four groups, however, for the purpose of this report streams are placed into three regulatory types, listed below.

- Ephemeral: An ephemeral stream only conveys runoff precipitation and meltwater. It is permanently located above the water table and is most often dry.
- Intermittent: An intermittent stream is located below the water table for parts of the year, but does have dry periods.
- Perennial: A perennial stream typically has flowing water throughout the entire year.

In addition to flow characteristics, the USACE has defined other regulatory categories that apply to streams, which are listed below (USACE and USEPA, 2007).



- <u>Traditional Navigable Waters (TNW)</u>: all waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.
- <u>Relatively Permanent Waters (RPW)</u>: non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months).
- <u>Non-Relatively Permanent Waters (Non-RPW)</u>: non-navigable tributaries of traditional navigable waters that are not relatively permanent where the tributaries typically do not have continuous flow at least seasonally (e.g., typically three months).

The Corps and USEPA will assert jurisdiction under the Clean Water Act on Traditional Navigable Waters (TNWs) and all wetlands adjacent to them, non-navigable tributaries of TNWs that are Relatively Permanent Waters (RPW) [i.e., tributaries that typically flow year-round or have continuous flow at least seasonally]; and wetlands that directly abut such tributaries. In addition, the agencies will assert jurisdiction over every water body that is not an RPW if that water body is determined (on the basis of a fact-specific analysis) to have a significant nexus with a TNW.

"A significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or an insubstantial effect on the chemical, physical, and/or biological, integrity of a TNW. Principal considerations when evaluating significant nexus include the volume, duration, and frequency of the flow of water in the tributary and the proximity of the tributary to a TNW, plus the hydrologic, ecologic, and other functions performed by the tributary and all of its adjacent wetlands."

2.2.3 HHEI and QHEI

Data collection for all streams included the completion of either the Ohio EPA Headwater Habitat Evaluation Index (HHEI) for primary headwater habitat (PHWH) streams or the Qualitative Habitat Evaluation Index (QHEI) for larger streams. Biologists are Ohio EPA trained to assess streams using the QHEI and HHEI. Following the Ohio EPA guidance, any stream with a drainage area of less than or equal to one mi² (2.589 km²) and pools with a maximum water depths less than or equal to 15.75 in (40 cm) were evaluated using the HHEI (Ohio EPA 2012). The QHEI was used to evaluate streams with drainage areas greater than one mi² and pools with maximum water depths greater than 15.75 in (40 cm; Ohio EPA 2006). The assessment location is representative of the stream/headwater within the project area.



3.0 LITERATURE REVIEW

3.1 USGS TOPOGRAPHIC MAP

The U.S. Geological Survey (USGS) 7.5-minute topographic series (West Point Quadrangle) is shown on Figure 2 (Appendix A). The preferred and alternate routes are depicted as partially forested. Elevations range from approximately 1,080 feet above mean sea level (AMSL) near onsite ponds and streams to approximately 1,250 feet AMSL in north portion of the proposed switchyard. Two (2) USGS named streams, Alder Lick Run and Bailey Run, are depicted crossing the central portion of the preferred and alternate routes. Three (3) strip mines are shown along the preferred and alternate routes. These strip mines are no longer active.

3.2 NWI MAP

The National Wetlands Inventory (NWI) map (West Point Quadrangle) of the project area is shown on Figure 3 in Appendix A. One (1) palustrine, emergent, persistent, seasonally flooded (PEM1C) is identified within the eastern portion of the preferred and alternate routes. This wetland corresponds to the delineated Wetland W-19. One (1) palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded (PSS1C) is identified in the eastern portion of the preferred and alternate routes. This wetland was not identified during the field survey. Three (3) palustrine, unconsolidated bottom, intermittently exposed (PUBG) deepwater areas are depicted within the eastern portion of the preferred and alternate systems correspond with the delineated Open Waters OW-2, OW-3, and OW-4, which are located in the areas depicted as strip mines.

3.3 COUNTY SOIL SURVEY

The project area is found on the *Soil Survey of Columbiana County, Ohio* and was accessed on the Soil Survey Geographic (SSURGO) Database (USDA Web Soil Survey, 2010) (Figure 4, Appendix A). Fifteen (15) soil types are depicted within the project area. One (1) of the soil types, Holly silt loam (HkA), is considered predominantly hydric within Columbiana County. All soil types are listed in Table 6.



Table 0. Son Types Mapped Project Area.								
Symbol	Soil Type	Status	Common Landform	Percent Hydric	Acres in Project Area	Percent Within Project Area		
BkB	Berks channery silt loam, 2 to 6 percent slopes	Not Hydric	Hills	0	6.346	3.7		
BkC	Berks channery silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	43.334	25.5		
BkD	Berks channery silt loam, 15 to 25 percent slopes	Not Hydric	Hills	0	18.401	10.8		
BkE	Berks channery silt loam, 25 to 40 percent slopes	Not Hydric	Hills	0	29.689	17.5		
BpF	Bethesda very channery silt loam, 25 to 70 percent slopes	Not Hydric	N/A	0	8.264	4.9		
СоВ	Coshocton silt loam, 2 to 6 percent	Not Hydric	Hills	0	5.167	3.0		
CoC	Coshocton silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	16.802	9.9		
FbB	Fairpoint very channery silt loam, 0 to 8 percent slopes	Not Hydric	N/A	0	3.654	2.2		
FbF	Fairpoint very chanery slit loam, 25 to 70 percent slops	Not Hydric	N/A	0	1.851	1.1		
GnB	Gilpin silt loam, 2 to 6 percent lsoipes	Not Hydric	Hills	0	9.412	5.5		
GnC	Gilpin silt loam, 6 to 15 percent slopes	Not Hydric	Hills	0	3.924	2.3		
GoC	Gilpin-Coshocton silt loams, 6 to 15 percent slopes	Not Hydric	Hills	0	9.183	5.4		
HkA	Holly silt loam, 0 to 2 percent slopes, frequently flooded	Predominantl y Hydric	Flood Plain	95	1.020	0.6		
KeB	Keene silt loam, 2 to 6 percent slopes	Not Hydric	Hills	0	9.528	5.6		
UkC2	Upshur-Berks complex, 6 to 15 percent slopes, eroded	Not Hydric	Hills	0	3.077	1.8		

Table 6. Soil Types Mapped Project Area.

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3.4 AERIAL PHOTOGRAPHY

A recent aerial photograph of the project area is shown on Figure 5 (Appendix A). The site is depicted as rural residential, agricultural, and forested land. The project area crosses several roads, including Osbourne Road, Fife Coal Road, Forbes Road, and Hibbets Mill Road. The surrounding land use consists of rural residential, agricultural, and forested land. Several open water areas are visible on the area and appear to correlate to the inactive strip mine locations.

3.5 OHIO NATURAL HERITAGE DATABASE

Data from the Ohio Department of Natural Resources (ODNR) Natural Heritage database was received on May 29, 2015. The Database indicated a record of the bowman's root (*Porteranthus trifoliatus*), a state threatened species, within a one (1) mile radius of the project area. No unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, state nature preserves, state or national parks, state or national forests, national wildlife refuges, or other protected natural areas are located within the project area.

3.6 U.S. FISH AND WILDLIFE SERVICE

The project area was examined for suitable habitat for federally listed species whose known range includes Columbiana County, Ohio. These species are the federally endangered Indiana bat (*Myotis sodalis*), the federally threatened northern long-eared bat (*Myotis septentrionalis*), the federal species of concern eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*), the federal candidate species eastern massasauga (*Sistrurus catenatus catenatus*), and the federal species of concern bald eagle (*Haliaeetus leucocephalus*).

Living or dead trees with shedding or peeling bark or cavities may serve as roosting trees for the Indiana bat and/or the northern long-eared bat. In addition, sheds and barns may serve as roosting habitat for the northern long-eared bat. No potential winter hibernaculum, barns, or sheds are located within the project area. Several areas throughout the preferred and alternate routes are forested. Additionally, the southern portion of the proposed switchyard is forested. An in-depth habitat analysis was not performed, however; all onsite forested areas contained some trees that displayed suitable habitat features. Suitable habitat features include, but are not limited to, larger canopy trees, trees exhibiting peeling bark, holes, or crevices, open understory, and stream or wetland corridors. All tree clearing is recommended to occur within the USFWS approved seasonal clearing window of October 1 through March 31. If the seasonal clearing restriction cannot be followed, further coordination with the USFWS is recommended prior to clearing any trees within the project area.



The eastern hellbender is found in habitats with swift-running, fairly shallow, and highly oxygenated water. They require an abundance of large, flat rocks or logs for use as cover objects. The two (2) onsite perennial streams may provide adequate habitat for the eastern hellbender. Further coordination with the USFWS may be required prior to impacting these streams.

Preferred habitat for the eastern massasauga includes wet areas including wet prairies, marshes and low areas along rivers and lakes. Massasaugas also use adjacent uplands during part of the year. The majority of the project area is upland field and forest that is not preferable habitat for the eastern massasauga. The wetlands that are located within the project area are open and do not provide appropriate cover for the eastern massasauga.

The bald eagle nests in large trees near water. No bald eagle habitat was observed within the project area.

4.0 RESULTS

Thirty-six (36) sample plots were established within eight (8) natural communities. Two (2) of these communities are considered wetland. Table 7 summarizes the sample plot data.

Sample Plot	Photo*	Community**	Hydrophytic Vegetation	Wetlands Hydrology	Hydric Soil	Status	Location
1	1	Agricultural Field				Non-Wetland	SP-1
2	2	PEM	Х	X	X	Wetland	W-1
3	3	Forest				Non-Wetland	SP-3
4	4	PFO	Х	X	X	Wetland	W-1
5	5	Forest				Non-Wetland	SP-5
6	6	PEM	Х	Х	×	Wetland	W-2
7	7	Forest				Non-Wetland	SP-7
8	8	PEM	Х	Х	X	Wetland	W-6
9	9	PEM	Х	X	X	Wetland	W-8
10	10	PEM	Х	X	Х	Wetland	W-7
11	11	Forest				Non-Wetland	SP-11

Table 7. Sample Plot Results.



Sample Plot	Photo*	Community**	Hydrophytic Vegetation	Wetlands Hydrology	Hydric Soil	Status	Location
12	12	Agricultural Field				Non-Wetland	SP-12
13	13	PEM	Х	X	×	Wetland	W-9
14	14	Forest				Non-Wetland	SP-14
15	15	Forest	Х			Non-Wetland	SP-15
16	16	PFO	Х	X	X	Wetland	W-11
17	17	PEM	Х	Х	X	Wetland	W-12
18	18	Forest				Non-Wetland	SP-18
19	19	PEM	Х	Х	х	Wetland	W-13
20	20	Scrub-Shrub				Non-Wetland	SP-20
21	21	PEM	Х	x	х	Wetland	W-15
22	22	PEM	Х	x	х	Wetland	W-15
23	23	Maintained Lawn				Non-Wetland	SP-23
24	24	PEM	Х	x	x	Wetland	W-17
25	25	Maintained Lawn				Non-Wetland	SP-25
26	26	Open field				Non-Wetland	SP-26
27	27	PEM	Х	x	x	Wetland	W-18
28	28	PEM	Х	x	X	Wetland	W-19
29	29	Old Field				Non-Wetland	SP-29
30	30	Open Field				Non-Wetland	SP-30
31	31	PEM	Х	x	X	Wetland	W-20
32	32	Forest				Non-Wetland	SP-32
33	33	PEM	Х	x	Х	Wetland	W-21
34	34	Shrub-Scrub				Non-Wetland	SP-34
35	35	PEM	Х	x	Х	Wetland	W-22
36	36	PEM	Х	Х	x	Wetland	W-23

*photos are located in Appendix B ** PEM = Palustrine Emergent; PFO = Palustrine Forested.



Each sample plot, delineated wetland, and other waters are illustrated on Figure 5 (Appendix A). The following section describes general conditions found within each plant community and summarizes relevant information from the data forms, located in Appendix C

4.1 NON-WETLANDS

Six (6) upland communities exist within the project area and include agricultural field, maintained lawn, open field, old field, scrub-shrub, and forest. The agricultural field community is represented by Sample Plots 1 and 12 and are dominated by planted crops such as corn (*Zea mayes*, UPL) and alfalfa (*Medicago sativa*, UPL). Purple deadnettle (*Lamium purpureum*, UPL), common dandelion (*Taraxacum officinale*, FACU), and Faber's foxtail (*Setaria faberi*, FACU) are also growing among the planted crop species.

The forested vegetative community is represented by Sample Plots 3, 5, 7, 11, 14, 15, 18, and 32. Typical dominant tree species includes black cherry (*Prunus serotina*, FACU), red maple (*Acer rubrum*, FAC), northern red oak (*Quercus rubra*, FACU), honey-locust (*Gleditsia triacanthos*, FAC), eastern hop-hornbeam (*Ostrya virginiana*, FACU), shagbark hickory (Carya ovata, FACU), pin oak (*Quercus palustris*, FACW), and white pine (*Pinus strobus*, FACU). The shrub layer contains tree saplings, American elm (*Ulmus americana*, FACU), green ash (*Fraxinus pennsylvanica*, FACW), rambler rose (*Rosa multiflora*, FACU), green ash (*Fraxinus pennsylvanica*, FACW), American hornbeam (*Carpinus caroliniana*, FAC), and Allegheny blackberry (*Rubus allegheniensis*, FACU). Dominant species within the herbaceous layer of the forest includes garlic mustard (*Alliaria petiolata*, FACU), spinulose wood fern (*Dryopteris carthusiana*, FAC), Pennsylvania sedge (*Carex pennsylvanica*, UPL), hooded blue violet (*Viola sororia*, FACU), spotted touch-me-not (*Impatiens capensis*, FACW), false mermaidweed (*Floerkea proserpinacoides*, FAC), mayapple (*Podophylum peltatum*, FACU), and Virginia springbeauty (*Claytonia virginica*, FAC).

The maintained lawn community is represented by Sample Plots 23 and 25 and includes Kentucky bluegrass (*Poa pratensis*, FACU), great plantain (*Plantago major*, FACU), white clover (*Trifolium repens*, FACU), Virginia springbeauty, and common dandelion (*Taraxacum officinale*, FACU) in the herbaceous stratum.

The open field community is represented by Sample Plots 26 and 30 and is dominated by white clover and orchardgrass (*Dactylis glomerata*, FACU). Other species present within the herbaceous layer include common dandelion, English plantain (*Plantago lanceolata*, UPL), Canada goldenrod (*Solidago canadensis*, FACU), wrinkle-leaf goldenrod (*Solidago rugosa*, FACU), oldfield cinquefoil (*Potentilla simplex*, FACU), and



common yarrow (*Achillea millefolium*, FACU). Allegheny blackberry is present in small amounts in the shrub layer.

The old field community is represented by Sample Plot 29. The herbaceous layer was dominated by garlic mustard and Canada goldenrod. The shrub stratum contained rambler rose and the tree layer had small amounts of sugar maple (*Acer saccharum*, FACU), black cherry, and gray birch (*Betula populifolia*, FAC).

Sample Plots 20 and 34 represent the scrub-scrub community and includes black cherry in the tree stratum. The shrub layer is dominated by crabapple (*Malus* sp., NI) and rambler rose. Common herbaceous plants include false mermaidweed, Virginia springbeauty, a grass (*Poa* sp., NI), an aster (*Symphyotrichum* sp., NI), common yarrow, and oldfield cinquefoil.

4.2 WETLANDS

Twenty-three (23) wetlands were identified and delineated within the project area. The onsite portion of these wetlands consist of palustrine emergent (PEM) and palustrine forested (PFO) vegetation. The delineated wetlands have been categorized using the Ohio Rapid Assessment Method for Wetlands v.5.0 (ORAM); scoring forms are included in Appendix D. Wetland results are given in Table 8 and are briefly described in the following section. Wetland size has been determined for areas within the project area. Wetlands are illustrated on Figure 5 (Appendix A).

Wetland	Photo*	Cowardin Classification	ORAM Score	ORAM Category	Size within Project Area (acres)	Location within the Project
W-1	37-38	PEM/PFO	47.5	Category 2	0.587	Switchyard, Preferred & Alternate
W-2	39	PEM	40	Modified 2	0.018	Preferred & Alternate
W-3	40	PEM	40	Modified 2	0.002	Preferred & Alternate
W-4	41	PEM	40	Modified 2	0.001	Preferred & Alternate
W-5 42	12	42 PEM	40	Modified 2	0.038	Preferred Route
6-44	42				0.058	Alternate Route
W-6	43	PEM	47	Category 2	0.406	Alternate Route

Table 8. Wetland Results within the Project Area.



Wetland	Photo*	Cowardin Classification	ORAM Score	ORAM Category	Size within Project Area (acres)	Location within the Project
W-7	44	PEM	46	1 or 2 gray zone	0.049	Alternate Route
W-8	45	PEM	46	1 or 2 gray zone	0.012	Alternate Route
W-9	46	PEM	46	Category 2	0.040	Preferred Route
W-10	47	PFO	47.5	Category 2	0.101	Preferred Route
W-11	48	PFO	47.5	Category 2	0.510	Preferred Route
W-12	49	PEM	29.5	Category 1	0.012	Preferred Route
W-13	50	PEM	47	Category 2	0.192	Preferred Route
W-14	51	PEM	48	Category 2	0.002	Preferred Route
10/ 45	50	DEM		Cotomer 1	0.158	Preferred Route
W-15	52	PEM		23 Category 1		Alternate Route
W-16	53	PEM	43	Modified 2	0.139	Preferred & Alternate
W-17	54	PEM	43	Modified 2	0.706	Preferred & Alternate
W-18	55	PEM	29	Category 1	0.031	Preferred & Alternate
W-19	56	PEM	40	Modified 2	0.173	Preferred & Alternate
W-20	57	PEM	14	Category 1	0.008	Preferred & Alternate
W-21	58	PEM	32	1 or 2 gray zone	0.019	Preferred & Alternate
W-22	59	PEM	32	1 or 2 gray zone	0.138	Preferred & Alternate
W-23	60	PEM	32	1 or 2 gray zone	0.013	Preferred & Alternate
		Total Wetland	3.674			
	Total	Wetland Preferre	2.301			
	Total	Wetland Alternat	2.034			

44

*photos are located in Appendix B

Wetland W-1 is a floodplain wetland along intermittent Stream S-2a and is comprised of palustrine emergent (PEM) and palustrine forested (PFO) vegetation. Sample Plot 2 and 4 represent these communities, respectively. Sample Plot 2 is dominated by skunk

cabbage (*Symplocarpus foetidus*, OBL) and spotted touch-me-not in the herbaceous layer. The shrub layer contains a small amount of rambler rose. Sample Plot 4 contains red maple, green ash, American elm, and white oak in the tree layer. The herbaceous layer contains rambler rose, hooded blue violet, Carolina spring beauty, spotted lady's thumb (*Persicaria maculosa*, FACW), spotted crane's bill (*Geranium maculatum*, FACU), an unknown moss species, and an unknown aster (*Asteraceae* sp.). This wetland assessed within the range of a Category 2 wetland using the ORAM scoring method. This score is a result of medium upland buffers, moderate surrounding land use, hydrologic sources and degree of saturation, sparse invasive species cover, and wetland microtopographic features.

Wetlands W-2, W-3, W-4, W-5, W-6, W-7, and W-8 are floodplain wetlands, associated with Stream S-5, and dominated by PEM vegetation These wetlands are represented by Sample Plots 6, 8, 9 and 10. Typical herbaceous vegetation within these wetlands includes spotted touch-me-not, skunk cabbage, fowl manna grass (*Glyceria striata*, OBL), a buttercup (*Ranunculus* sp.), fowl bluegrass (*Poa palustris*, FACW), crooked-stem American-aster (*Symphyotrichum prenanthoides*, FAC), and cream avens (*Geum virginianum*, FAC). Rambler rose is a common shrub within these wetlands. Wetlands W-2, W-3, W-4, W-5 were scored together due to their similar habitat, hydrologic connection, and proximity to one another. Wetland W7 and W-8 were also scored together for the same reasons. All six (6) wetlands assessed within the range of Category 2 wetlands using the ORAM. This score is a result of their medium upland buffers, low surrounding land use, hydrologic features (sources, connectivity, and degree of saturation), small amount of disturbances, and sparse amount of invasive species cover.

Wetlands W-9, W-10 and W-11 are floodplain wetlands along Stream S-13. Wetland W-9 is comprised of PEM vegetation and Wetlands W-10 and W-11 are comprised of PFO vegetation. Sample Plot 13 represents Wetland W-9. Dominant herbaceous vegetation within this wetland includes spotted touch-me-not and false mermaidweed.

Sample Plot 16 represents onsite vegetation within Wetlands W-10 and W-11. The tree stratum is dominated by red maple. Dominant shrub species include gray dogwood (*Cornus racemosa*, FAC) and rambler rose. The herbaceous stratum is dominated by spotted touch-me-not and sensitive fern. Wetland W-10 is lies adjacent to the intermittent Stream S-13a and is connected to W-11 by ephemeral Stream S-14. Wetland W-11 receives hydrology from ephemeral Stream S-16 and intermittent Stream S-13a. Wetlands W-9, W-10, and W-11 assessed within the range for Category 2 wetlands. This score resulted from wide upland buffers, moderate surrounding land use, low habitat alteration and substrate disturbance, and nearly absent invasive species cover.



Wetland W-12 is a small depressional PEM wetland located on the edge of a residential property south of Osborne Road. Wetland W-12 is represented by Sample Plot 17. This sample plot is dominated by fowl manna grass. Other common herbaceous plants include spotted touch-me-not, skunk cabbage, garden yellow rocket (*Barbarea vulgaris*, FACU), and rough bedstraw (*Galium asprellum*, OBL). This wetland assessed within the range of a Category 1 wetland due to small size, narrow upland buffers, degree of habitat alteration, and habitat recovery from past disturbances.

Wetlands W-13 and W-14 are floodplain PEM wetlands associated with intermittent Streams S-17 and S-18. Sample Plot 19 is representative of onsite vegetation within these wetlands. Dominant herbaceous vegetation includes fowl manna grass, spotted touch-me not, and single-vein sweet flag (*Acorus calamus*, OBL). These wetlands assessed within the range for Category 2 wetlands using the ORAM. Wetland W-13 has narrow upland buffers, moderate surrounding land use, fair habitat development, and evidence of past disturbances.

Wetland W-15 is a swale wetland dominated by PEM vegetation. Wetland W-15 is drained by Stream S-19. Sample Plots 21 and 22 represent typical onsite vegetation within this wetland. Dominant herbaceous plants include false mermaidweed, fowl bluegrass, crooked-stem American-aster, New England American-aster (*Symphyotrichum nove-angilae*, FACW), purple-leaf willow herb (*Epilobium coloratum*, FACW), and an American-aster (*Symphyotrichum* sp.). This wetland assessed within the range of a Category 1 or 2 gray zone due to its small size, intensity of surrounding land use, and recovery from past disturbances.

Wetlands W-16 and W-17 are PEM wetlands within the Alder Lick Run riparian area. Sample Plot 24 is representative of these wetlands. The dominant herbaceous plants within these wetlands includes lamp rush (*Juncus effusus*, FACW) and shallow sedge (*Carex lurida*, OBL). Other herbaceous plants include common fox sedge (*Carex vulpinoidea*, OBL) and narrow-leaf cattail (*Typha angustifolia*, OBL). This wetland assessed within the range of a Modified 2 wetland. This wetland is relatively large with medium buffers, moderate surrounding land use, and has a high degree of connectivity to jurisdictional streams. However, these wetlands have a moderately high degree of disturbance due to proximate agricultural practices.

Wetland W-18 is a depressional PEM associated with ephemeral Stream S-22. Sample Plot 27 is representative of this wetland. Typical herbaceous vegetation includes single-vein sweetflag, fowl manna grass, spotted-touch-me-not, deer tongue rosette grass (*Dichanthelium clandestinum*, FAC), cottongrass bullrush (*Scirpus cyperinus*, FACW), a sedge (*Carex* sp., NI), and a goldenrod (*Solidago* sp., NI). This wetland scored within the range of an 1 using the ORAM. This score is a result of the small size of the wetland, its



medium buffers with a mixture of high and low surrounding land use, and past disturbance.

Wetland W-19 is a floodplain wetland along Bailey Run. Typical onsite characteristics are represented by Sample Plot 28. The herbaceous layer is dominated by reed canary grass (*Phalaris arundinacea*, FACW), skunk cabbage, and stinging nettle (*Urtica dioica*, FACU). The shrub layer contained rambler rose, an elderberry (*Sambucus* sp.), and Atlantic ninebark (*Physocarpus opuliformis*, FACW). This wetland assessed within the range of a Modified 2 using the ORAM. This is a result of the degree of habitat and substrate disturbance as well as extensive invasive species cover.

Wetland W-20 is a depressional PEM located within an agricultural field. Sample Plot 31 represents typical onsite vegetation. The herbaceous layer is dominated by lamp rush, common fox sedge, and white clover. This wetland assessed within the range of a Category 1 wetland due to its small size, narrow upland buffers, moderately high level of surrounding land use, and degree of disturbance.

Wetlands W-21, W-22, and W-23 are depressional wetlands located within a scrub-shrub setting along the east side of Hibbetts Mill Road. These wetlands are represented by Sample Plots 33, 55, and 36. Dominant vegetation within these wetlands include deertongue rosette grass, lamp rush, arrow-leaf tear thumb (*Persicaria sagittata*, OBL), spotted trumpetweed (*Eutrochium maculatum*, FACW), and Allegheny blackberry (*Rubus allegheniensis*, FACU). These wetlands were scored together and assessed within the range of 1 or 2 gray zone. These wetlands were relatively small, with medium buffers, and low surrounding land use. Additionally these wetlands had poor to fair habitat development, are recovering from past disturbances, and scored low with regard to hydrologic characteristics.

4.3 STREAMS AND RIVERS

Two (2) USGS-named perennial streams, twelve (12) intermittent streams, and eleven (11) ephemeral streams were identified and delineated within the project area. The results are depicted in Table 9 and illustrated on Figure 5 (Appendix A). Ephemeral and intermittent streams have been assessed using the Primary Headwater Habitat Evaluation Index (HHEI) and perennial streams were assessed using the Qualitative Habitat Evaluation Index (QHEI); the scoring forms are included in Appendix E. Each stream classification, based on the QHEI or HHEI score, is located in Table 9. Locations of these streams are depicted in Appendix A, Figure 5. Representative photographs are included in Appendix B, and stream habitat data forms are provided in Appendix E.



Table 9. Stream Results within the Project Area.								
Stream	Photos*	Туре	Average Bankfull Width (feet)	Average Depth at Time of Survey (inch)	Length Within Project Area (linear feet)	Area Within Project Area (acres)	QHEI/ HHEI Score	Location within the Project
Alder Lick Run	61	Perennial	10	8	244	0.056	29.5	Preferred & Alternate
Bailey Run	62	Perennial	8	6	206	0.038	57	Preferred & Alternate
S-1	63	Ephemeral	1	0	1	0.001	24	Switchyard
S-2	64	Intermittent	3	3	642	0.044	31	Switchyard, Preferred, & Alternate Preferred &
b					64	0.004		Alternate
S-3	65	Intermittent	2	3	98	0.005	21	Switchyard
S-4	66	Intermittent	3	2	21	0.001	33	Preferred & Alternate
a	a	Intermittent	3	4	860	0.059	50	Preferred & Alternate
S-5 b	67				260	0.018		Alternate
d C	-				<u>187</u> 18	0.013 0.001		Alternate Alternate
l le	-				11	0.001		Alternate
S-6	68	Ephemeral	3	0	103	0.007	11	Alternate
S-7	69	Intermittent	3	0.5	313	0.021	30	Alternate
S-8	70	Ephemeral	4	0	42	0.004	25	Alternate
S-9	71	Ephemeral	2	0	273	0.013	30	Alternate
S-10	72	Intermittent	4	2	416	0.038	39	Alternate
S-11	73	Ephemeral	2	0	66	0.003	35	Alternate
S-12	74	Ephemeral	2	0	25	0.001	26	Alternate
S-13 a	- 75	Intermittent	4	2	500 554	0.046	50	Preferred
S-14	76	Ephemeral	1	0	27	0.001	17	Preferred
S-15	77	Ephemeral	2	0	31	0.001	17	Preferred
S-16	78	Ephemeral	1	0	73	0.002	14	Preferred
S-17	79	Intermittent	4	2	176	0.016	37	Preferred
S-18	80	Intermittent	4	3	255	0.023	41	Preferred

Table 9. Stream Results within the Project Area.

1.



Stream	Photos*	Туре	Average Bankfull Width (feet)	Average Depth at Time of Survey (inch)	Length Within Project Area (linear feet)	Area Within Project Area (acres)	QHEI/ HHEI Score	Location within the Project
S-19	81	Intermittent	3	3	115	0.008	31	Preferred & Alternate
S-20 a	82	Ephemeral	2	0	4	0.001	17	Preferred &
0-20 b					38	0.002		Alternate Preferred &
S-21	83	Intermittent	2	1	33	0.002	16	Alternate
S-22	84	Ephemeral	1	1	68	0.002	16	Preferred & Alternate
S-23	85	Intermittent	4	3	228	0.021	47	Preferred & Alternate
Total Stream					5,952	0.504		
Total Preferred Route					3,034	0.302		
	Total Alternate Route					0.326		

*photos are located in Appendix B

The onsite streams are mostly formed in the either the valleys throughout the project area or are formed as erosional channels along steep hillsides. The stream systems associated with Streams S-2, S-3, S-7, S-9, and S-10 are draining south and west into an unnamed tributary of Yellow Creek. The stream systems associated within Streams S-1, S-13, S-17, and S-19 area draining east and south into Alder Lick Run. Alder Lick Run crosses through the preferred and alternate easement routes and is shown flowing south through an inactive strip mined area. Bailey Run also flows south through the preferred and alternate routes. Bailey Run is also shown within an area described as strip mine. All onsite waters are flowing south an eventually into Little Yellow Creek. Little Yellow Creek is a tributary to the Ohio River. Assessments of the onsite streams ranked Alder Lick Run as 'very poor' and Bailey Run as 'good' using the narrative rating of the QHEI. All other onsite streams were assessed using the HHEI. Assessments of the onsite portions of these streams resulted in Class I and Class II Primary Headwater Habitat streams. None of the onsite streams would be considered high quality or waters of special concern.

4.4 PONDS AND LAKES

A portion of four (4) open water aquatic resources were identified within the project area. The results are depicted in Table 10 and illustrated on Figure 5 (Appendix A).



Open Water	Photo*	Туре	Area within project area (acres)	
OW-1	86	Lacustrine Open Water	0.015	
OW-2	87	Lacustrine Open Water	0.220	
OW-3	88	Lacustrine Open Water	0.001	
OW-4	0.234			
T	0.470			

Table 10. Stream Results within the Project Area.

Onsite open water ponds are associated with the inactive strip mine sites. These open water areas are located at the bottoms of steep gorges with rocky slopes.

5.0 ASSUMPTIONS AND DISCLAIMERS

The constant influence of human activity on the project area can result in a rapid change of ecological boundaries. Over time, natural succession and changes in hydrology can also affect their boundaries. Precision of GPS collected data is subject to variation caused by canopy cover, atmospheric interference and satellite configuration. Because slight inaccuracies are possible, all acreages and derived boundaries presented in this report are approximate.

The results and conclusions contained in this report apply to the year and date in which the data were collected. This report is not considered officially valid until it is approved by the Corps. The report is then valid for a period of five years. Refer to the Corps' Regulatory Guidance Letter # 94-1 (23 May 1994).



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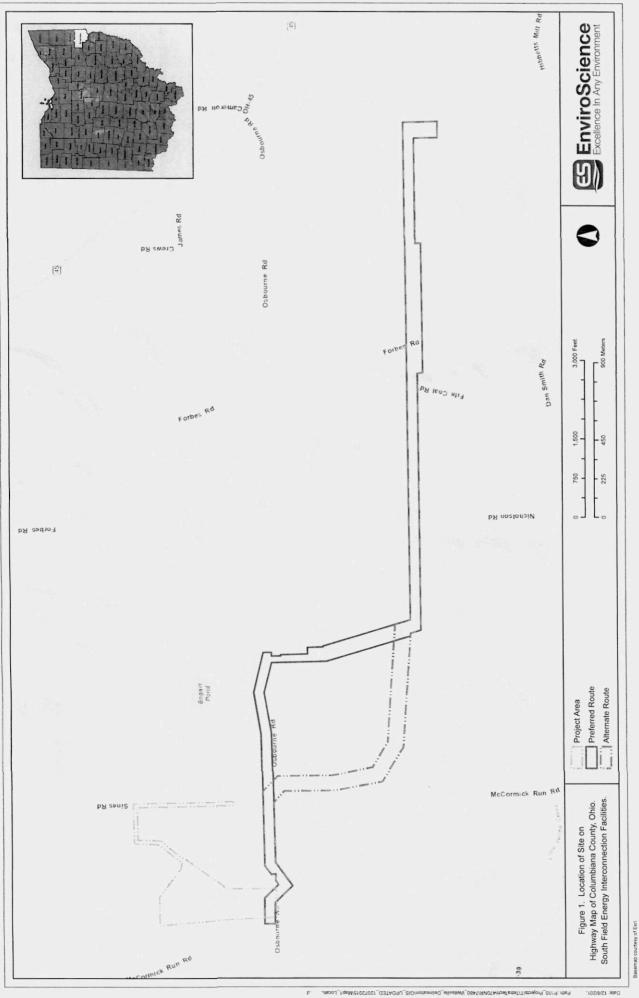
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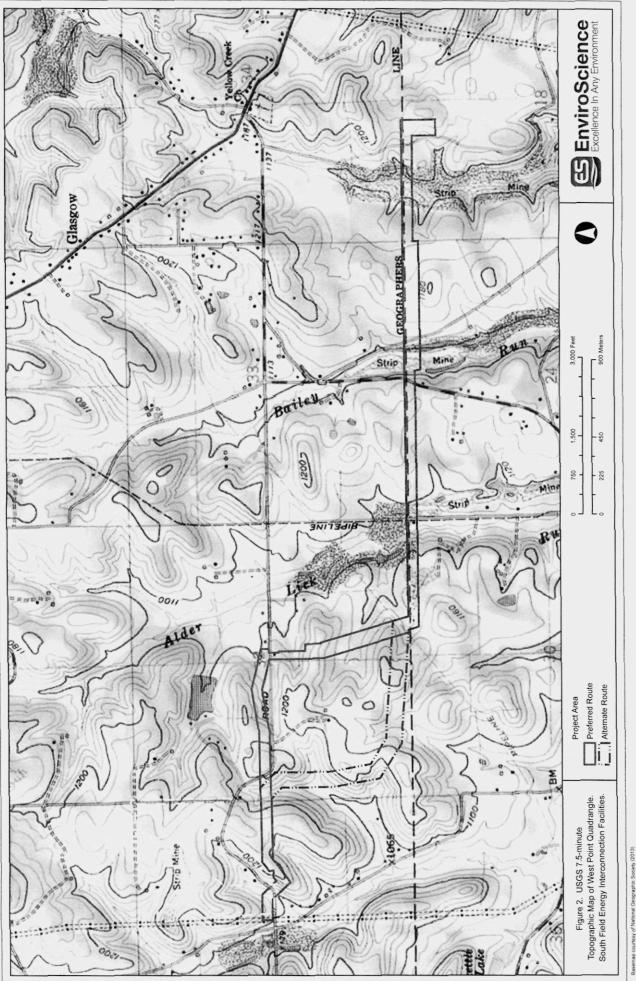
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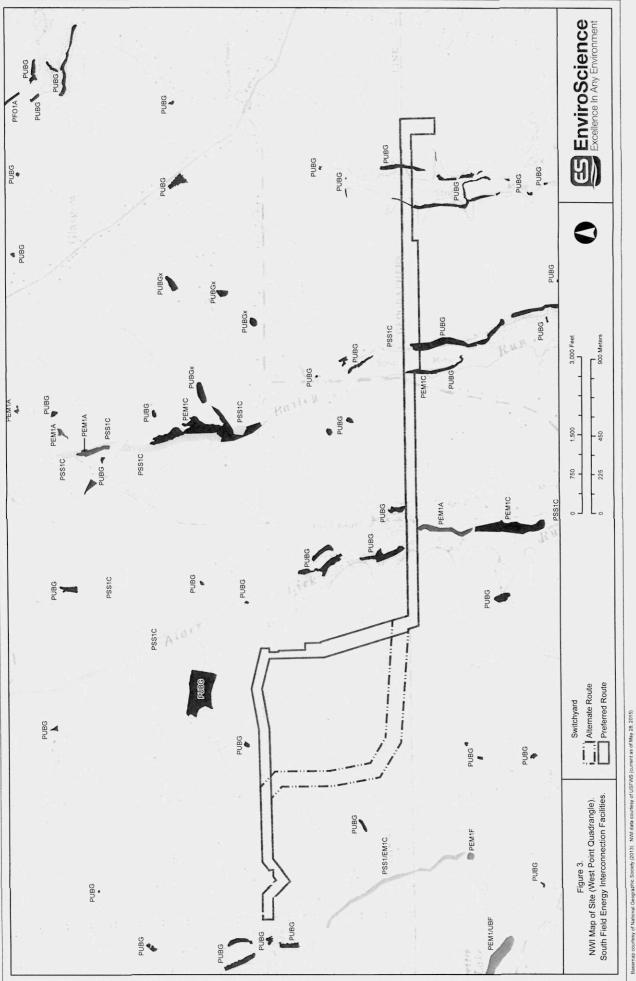
Appendix A: Figures •,



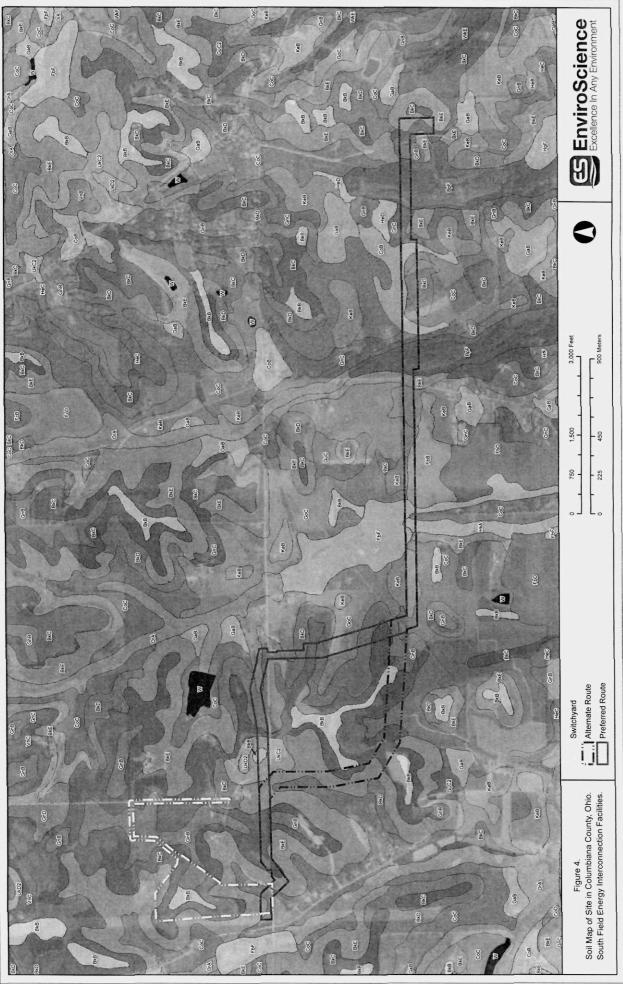
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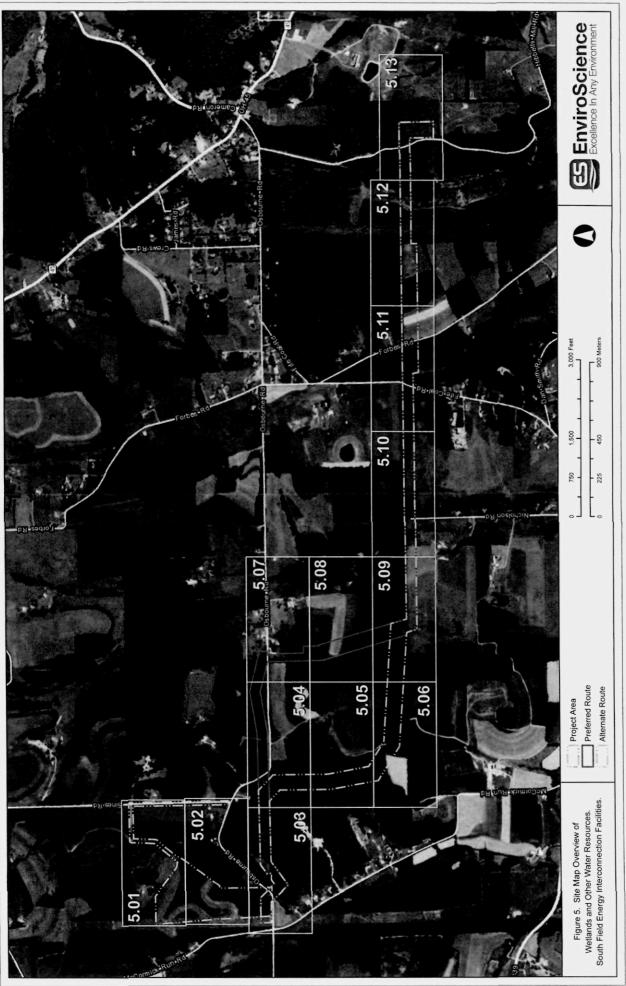


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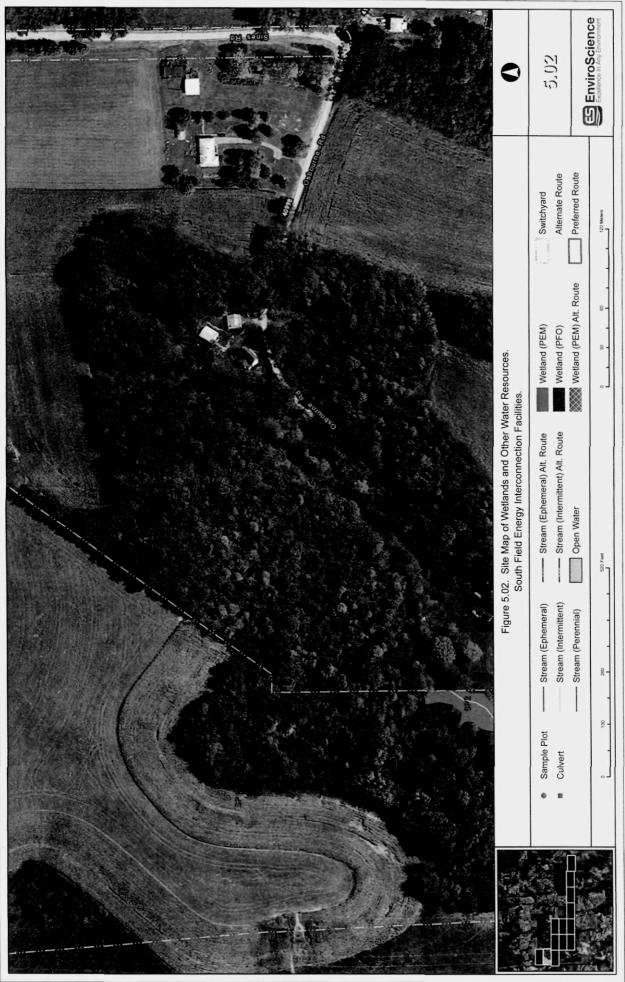
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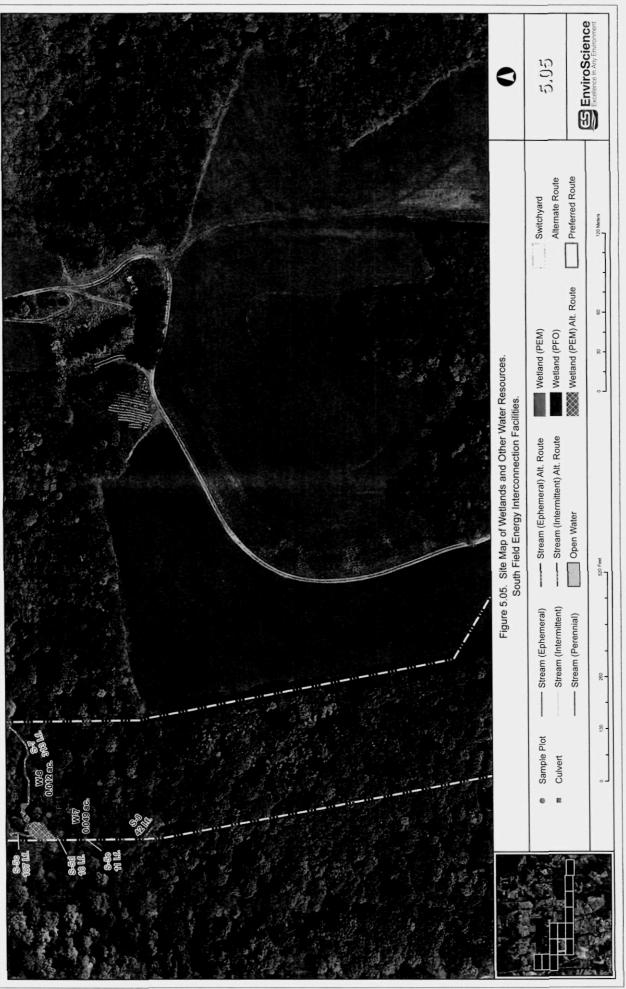


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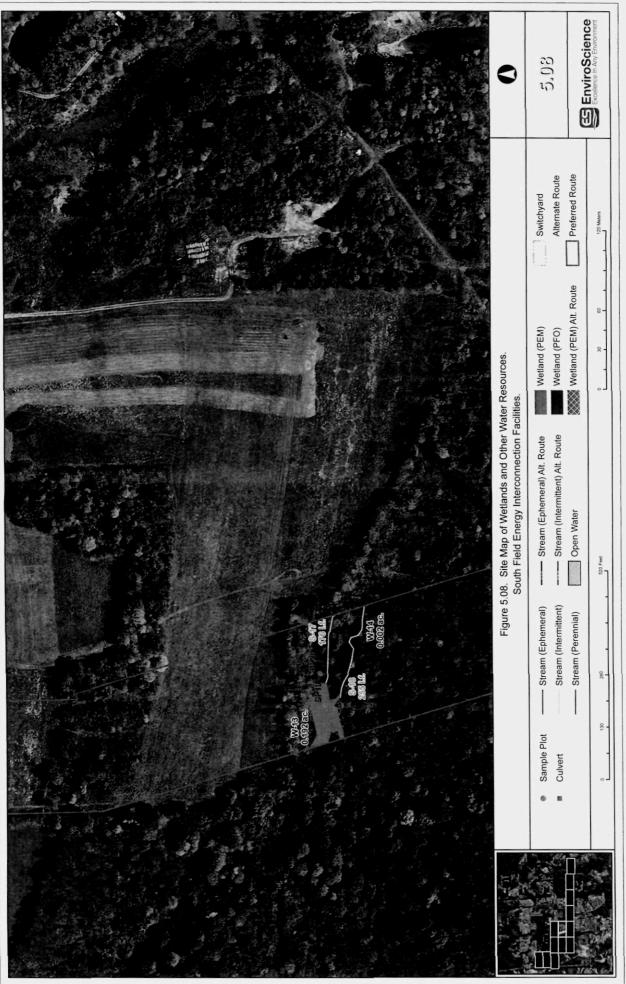


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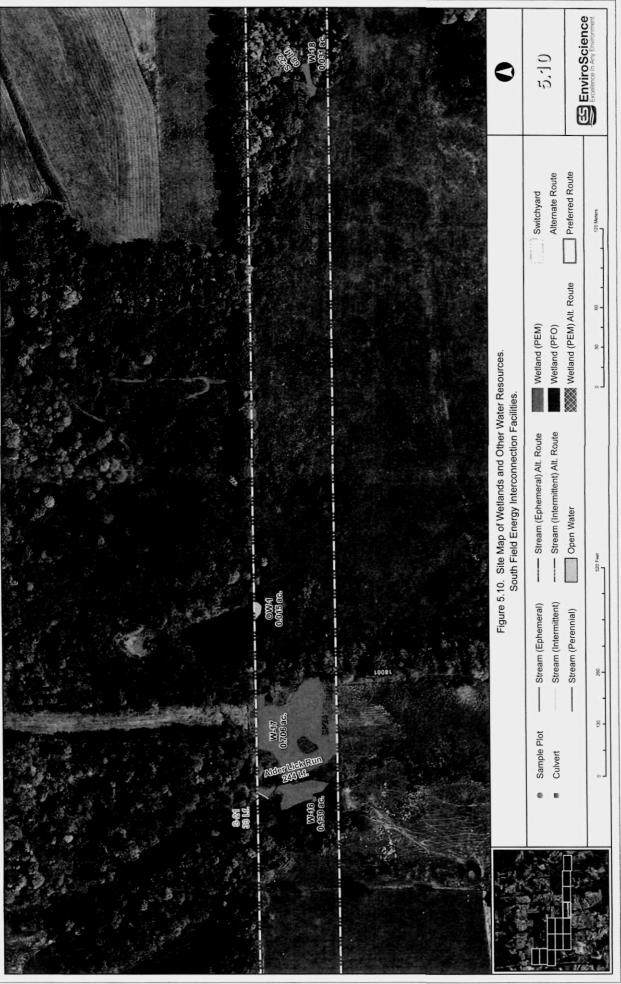


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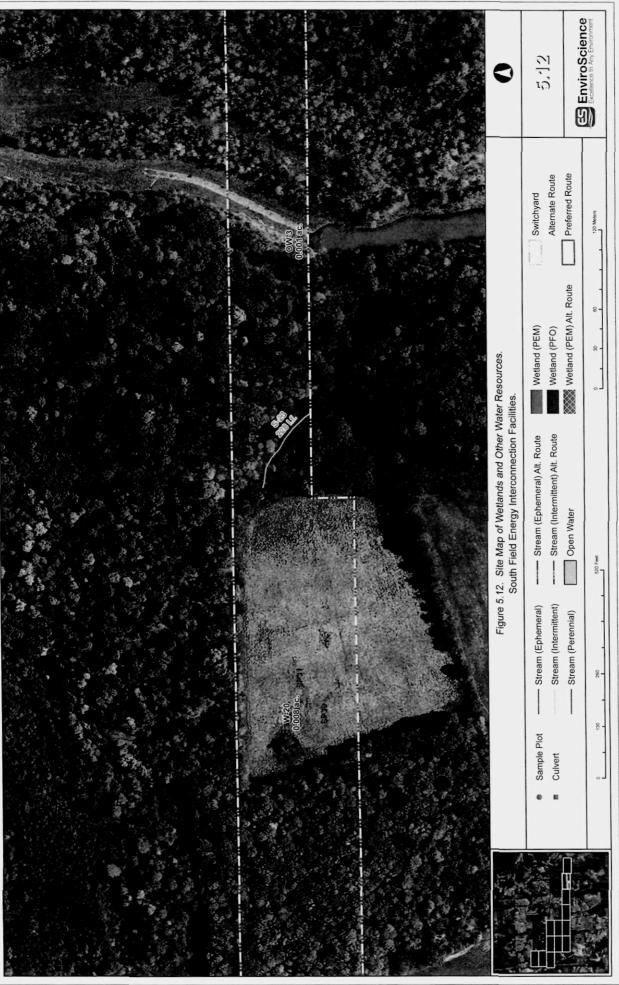
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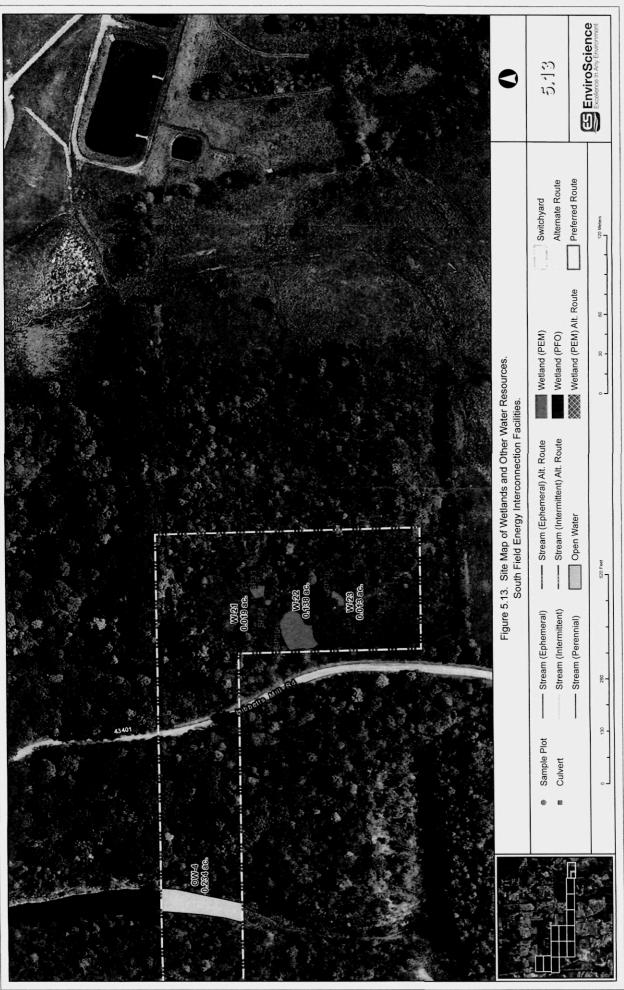
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Date: 12/14/20 Path: P./10_Projecte/T/TetraTech/470NR/7480_Wellaville_Delineation/GIS_UPDATED_12072012/Map5_Sile ...

Appendix B: Photographs 

Photo 1. Sample Plot 1 representing agricultural field.



Photo 2. Sample Plot 2 within Wetland W-1.



Photo 3. Sample Plot 3 representing upland forest.



Photo 4. Sample Plot 4, representing a palustrine forested (PFO) vegetated community within Wetland W-1.



Photo 5. Sample Plot 5 representing upland forest.



Photo 6. Sample Plot 6, representing a palustrine emergent vegetative community within Wetland W-2.



Photo 7. Sample Plot 7 representing upland forest.



Photo 8. Sample Plot 8 within Wetland W-6, representing a PEM.



Photo 9. Sample Plot 9 within Wetland W-8.



Photo 10. Sample Plot 10 within Wetland W-7.

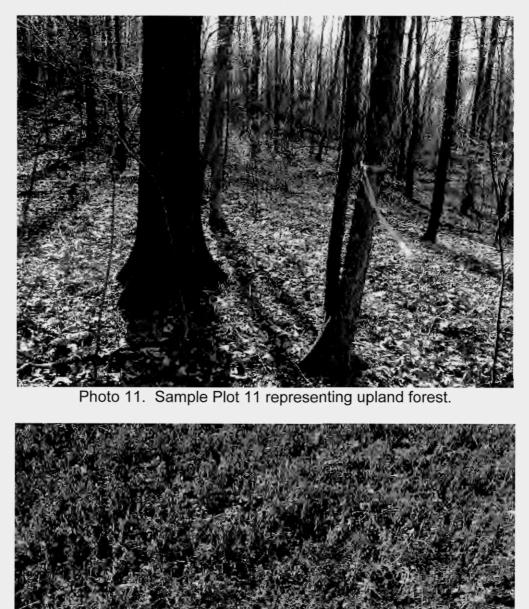


Photo 12. Sample Plot 12 representing agricultural field dominated by alfalfa (*Medicago sativa*).



Photo 13. Sample Plot 13 within Wetland W-9.



Photo 14. Sample Plot 14 representing an upland forest.



Photo 15. Sample Plot 15 representing upland forest.



Photo 16. Sample Plot 16 within Wetland W-11.



Photo 17. Sample Plot 17 within Wetland W-12.



Photo 18. Sample Plot 18 representing a forest.



Photo 19. Sample Plot 19 within Wetland W-13.



Photo 20. Sample Plot 20 representing an upland scrub-shrub community.



Photo 21. Sample Plot 21 within Wetland W-15, a PEM.



Photo 22. Sample Plot 22 within Wetland W-15.



Photo 23. Sample Plot 23 representing a maintained lawn.



Photo 24. Sample Plot 24 within Wetland W-17.



Photo 25. Sample Plot 25 representing a maintained lawn.



Photo 26. Sample Plot 26 representing an open field community.



Photo 27. Sample Plot 27 within Wetland W-18, a PEM.



Photo 28. Sample Plot 28 within Wetland W-19.



Photo 29. Sample Plot 29 representing an old field.



Photo 30. Sample Plot 30 representing an open field.

South Field Energy Interconnection Facilities Photographed April 29 through November 24, 2015



Photo 31. Sample Plot 31 within Wetland W-20.



Photo 32. Sample Plot 32 representing an upland forest.



Photo 33. Sample Plot 33 within Wetland W-21.



Photo 34. Sample Plot 34 representing a scrub-shrub community.



Photo 35. Sample Plot 35 within Wetland W-22.



Photo 36. Sample Plot 36 within Wetland W-23.



Photo 37. Wetland W-1 (PEM) facing north.



Photo 38. Wetland W-1 (PFO) facing north.



Photo 39. Wetland W-2 facing east.



Photo 40. Wetland W-3 facing north.



Photo 41. Wetland W-4 facing south.



Photo 42. Wetland W-5 facing south.



Photo 43. Wetland W-6 facing south.



Photo 44. Wetland W-7 facing west.



Photo 45. Wetland W-8 facing northeast.



Photo 46. Wetland W-9 facing east.



Photo 47. Wetland W-10 facing west.



Photo 48. Wetland W-11 facing southwest.



Photo 49. Wetland W-12 facing northwest.



Photo 50. Wetland W-13 facing north.



Photo 51. Wetland W-14 facing east.



Photo 52. Wetland W-15 facing east.



Photo 53. Wetland W-16 facing east.



Photo 54. Wetland W-17 facing north.

South Field Energy Interconnection Facilities Photographed April 29 through November 24, 2015



Photo 55. Wetland W-18 facing southwest.



Photo 56. Wetland W-19 facing south.



Photo 57. Wetland W-20 facing northeast.



Photo 58. Wetland W-21 facing west.



Photo 59. Wetland W-22 facing east.



Photo 60. Wetland W-23 facing east.



Photo 61. Alder Lick Run facing north upstream



Photo 62. Bailey Run facing south downstream.



Photo 63. Stream S-1 facing west upstream.



Photo 64. Stream S-2 facing north upstream.



Photo 65. Stream S-3 facing south downstream.



Photo 66. Stream S-4 facing south downstream.

South Field Energy Interconnection Facilities Photographed April 29 through November 24, 2015



Photo 67. Stream S-5 facing north upstream.



Photo 68. Stream S-6 facing north upstream.



Photo 69. Stream S-7 facing west downstream.



Photo 70. Stream S-8 facing west downstream.



Photo 71. Stream S-9 facing east upstream.



Photo 72. Stream S-10 facing south downstream.



Photo 73. Stream S-11 facing southwest downstream.



Photo 74. Stream S-12 facing north upstream.



Photo 75. Stream S-13 facing west upstream.



Photo 76. Stream S-14 facing west upstream.



Photo 77. Stream S-15 facing south upstream.



Photo 78. Stream S-16 facing southwest upstream.



Photo 79. Stream S-17 facing west upstream.



Photo 80. Stream S-18 facing west upstream.



Photo 81. Stream S-19 facing west upstream.



Photo 82. Stream S-20 facing southwest upstream.



Photo 83. Stream S-21 facing northeast upstream.



Photo 84. Stream S-22 facing northeast upstream.



Photo 85. Stream S-23 facing northwest upstream.



Photo 86. Open Water OW-1 facing northeast.



Photo 87. Open Water OW-2 facing south.



Photo 88. Open Water OW-3 facing west.



Photo 89. Open Water OW-4 facing northwest.

WETLAND DETERMINATION DATA FORM \sim Eastern Mountains and Pladmont

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Projectistics: SOUTH Field Brengy Christowith A	Christounts: McCACODA Tup / Columbiantesampling Dela: 4/29/15 State. 1 H Sampling Point 5P-1
Investigatoriei: Laura Suyre Section, Township, Ranger.	hip, Range:
Landborn (fittiscop), lenace, elc.); NJ 116 Love Local relief (concave, convex, nove); CON CA VE Slope (%); 10	ve, convex, norse); CONCA ve Slope (%): 10
Subsection (LRR or MURA): LPLAN Lat. UD. US/ 230 Long: -80.734 522 Datum: UDbS 84	Long: -80.734522 Datum: Why 84
Sai Map Unit Neme: BK 6	NWI classification: DON-
Ase climatic / Indicatogic conditions on the sile typical for this time of year? Yes X No (11 no. explain in Remarks.)	No (If no. explain In Remarks.)
Are Vegetation Soll or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetetion Soli, or Hydrology naturally problematic?	(if needed, explain any enswars in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc.	boint locations, transects, important features, etc.

Yes NoX			Secondary Indicators (minimum of two regulited)	Surface Soil Credts (B6)	 Sparsely Vegetated Concave Surface (B8) Distance Particular (B10) 	11	1	Crayfish Burrowa (C8)	Saturation Visible on Aerial Imagery (U3)	Stunded or Stressed Plants (D1) Commonity Decition (D2)	Shoffory Acuitant (D3)	Microtopographic Relief (D4)	FAC-Neutral Test (D5)				Welfand Hydrology Present? Tes No	eliebk:					
Is the Sampled Area within a Wetland?	· ·				814) 	Hydrogen Surrice Ocor (C 1) Oxidized Rhizosoheres en Uving Roots (C3)	Iron (C4)	n in Tilled Soils (C8)	E.	herks)					-	1	Wettend	vlous inspections). If av					
222				hock all that apply	True Aquatic Plants (B14)	Hydrogen Surrios Ouol (U I) Oxidized Rhizosoheres on L	Presence of Reduced Iron (C4)	Recent Iron Reduction in Tilled Solis (C8)	Thin Muck Surface (C7)	Other (Explain in Remarks)					C Depth (Inches):		Cepth (inches):	ng well, aerial photos, pre					
sent? Yes Yes Yes	ural		lors:	<u>n of one is required; ct</u>	·		. /			·	,	(B9) (B9)			Yes. No /	Yes No X	Yes No	linam gauge, monttori					
Hydrophylic Vegelediun Present? Hydric Soll Present?	ramentes. Agricultura	HYDROLOGY	Wettend Hydrology Indicators:	Primary Indicators (minimum of one is required; check all that apply)	— Surface Water (A1)	High Water Tabla (A2)	Welter Merks (B1)	Sediment Depoelts (82)	Entit Deposits (B3)	Agal Mat or Crust (B4)		Inurdetion Visible on Aerial Imagery (57) Water-Stained Leaves (59)	Aquattic Fauna (B13)	Field Observations:	Surface Water Present?	Water Table Prosent?	Seturation Present? Includes capillary fritige)	Describe Recorded Data (stream gauge, montroling well, aerial photos, previous inspections). If avelable	Remerks:		 		

/EGETATION (Four Strata) – Use scientific names of plants.	ames of	plants.	Sampling Polnt: SP-1
Tree Stratum (Plot size:)	Absolute & Cover	Dominant indicator Species? Status	Dominance Text worksheed: Number of Dominant Species That Are OBU, FACM, or FAC: 0 (A)
3			Totat Number of Dominant Species Across All Strats: (B)
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66			Prevalence Index worksheet: Total % Cover of: Multinu hv*
8		= Total Cover	× 1
12			10 × 4=
Š			UPL spectes $70 \times 5 = 350$ Column Totals: 30 (A) 330 (B)
б. б.	1		Prevalence Index = BIA =
			Hydrophytic Vegelation Indicators:
8°			2 - Damknance Test is ≻50% 3 - Prevalence Index is s3 0°
10 £ 1		* Total Cover	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separatin sheet)
01-1	10	4 UPL	Problematic Hydrophysic Vegelation (Explain)
2 Barbarea Vuigaris 3. Tarafacum Othernale	พพ	N Face	"indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
· · · · · · · · · · · · · · · · · · ·			Definitions of Four Vegetation Strata:
6			were - weeks premas, exclusing weeks, 4 m, (15 cm) or more in diameter at breast height (UBH), regardless of height.
8			Sapiling/Shrub – Woody plants, excluding whes, lass than 3 In. DBH and greater than 3.28 ft (1 m) tall.
10			Herb – All herbaceous (non-woody) plants, regardess of size, and woody plants lass than 3.28 it tall.
12	R	* Total Cover	Woody vine – Ali woody vines greeter than 3.28 fi in height
2°			
6		= Total Cover	
Remarks: (Incluide photo numbers here or on a separate sheet.)	xeet)		

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Eastern Mountains and Piedmont – Interim Version

US Amy Corps of Engineers

Eastern Mountains and Pledmont - Interim Version

US Army Coms of Engineers

WE	Projeos/Site: <u>South Field E</u> Appleant/Owner: Investigator(a): Landform (ILRK or MIL2A): Sout May Ult Namme: <u>BUE:</u> Sout May Ult Namme: <u>BUE:</u> Are dimesizinghood object conditions on Are vegetation <u>Sout</u>	SUMMARY OF FINDINGS - Ay Plycicrophyte Vegetalian Present? Hydric Sal Present? Hydric Sal Present? Remarks: PRM-ayrineduler (maiximum gSday1 SP8 Hydric Medianer (maiximum gSday1 SP8 Arbert Predent Hydrick) Brefand Hydrick) Brefand Mydrick) Mater Faber (maiximum gdaren inngen Brefand Mydrick) Mater Faber (maiximum gdaren inngen Water Faber (maiximum gdaren inngen Water Faber (maiximum gdaren inngen Mater Faber (maiximum gdaren inngen) Deeche Faccorded Osle (unear gal Remmeris	US Amy Corps of Engineers
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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

roject/Site: South Field	South Field Energy Intercommetton Facilities City/County. Madison Twp, Columbians Co.	City/County:	Madison Twp, Columbiar		ampling Date:	Sampling Date: April 29, 2015	
Aplicant/Owner:	Tetra Tech		State	S HO	State: OH Samping Point: SP-2	SP-2	
westigator(s):	8. Slaby, E. Kennedy	Sec	Section, Township, Range:		\$31, T10N, R2W	RZW	
andform (hillstope, tenace, etc.):	stope (seep)	Local Ref.	Local Refei (concere, convex, none):	ē	DOTIO S	Slope (%):	
ubregion (LRR or MLRA);	LERN	Lat: 40.643679	40.643679 Long: -8	-80.733688	Deturn:	WGSB4	
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re Verelation Sol		contractive merch/acced		×	Na		
	Alfonutium			(a needed, syptem any entrents (it remarks.)	In remains,		
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1 Other (E:Delin in Planmates)	Crift Deposits (B.3)	Thin Muck Surface (C7)	Saturation Visible on Aertel Imagery (C3)
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	includes capitlary fringe)		

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US Amry Corps of Engineers

Eastern Mountains and Pledmont - Intertim Version

Eastern Mountain and Pledmont - Version 2.0

VEGETATION (Five Strata) - Use scientific names of plants.	ific names :	of plants.		Sampling Poht: 2	SOIL
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Remarks: (Indude phote numbers hare or on a separato elver)	Jamio sheet.)				
US Army Corps of Engineers				Eastern Mountains and Pledmont - Vension 2.0	

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	19XUura Kemerks	dayloam	dayloam	clayhoam	clayhoam	clayfoam		Locauon: PL= Pore Lining, M=Maurx.	Indicators for Problematic Hydric Solis":	2 cm Muck (A10) (MLRA 147)	LOORS PTRIFIE REGOX (A 16) CMI DA 147 1481	Platmont Flooringin Soils (F19)	(MLRA 136, 147)	Very Shallow Dark Surface (3F12)	Other (Explain in Remarks)			³ Indicators of hydrophytic vegetation and	welland hydrology must be present.	unless disturbed or problematio.			Hydric Soli Present? Yes X No	
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T	Color (molst)	7.5YR 4/6	7.5YR 4/5	7.5YR 4/6	7.6YR 5/8	7.5YR 5/8		ype: C=Concentration, L=Depietion, KM=Reduced Matux, MS=Masked Sano Grans,		Dark Surface (S7)	Polyvaue Below Surface (SB) (MLHA 144) Thin Deck Surface (SO) (ML PA147, 148)	I camv Glaved Matrix (F2)	X Depieted Matrix (F3)	Redox Dark Surface (F6)	Depiated Dark Surface (F7)	Redox Depressions (F3) [mv:Mananase Masses (F12) (LPE N	MLRA 1361	Umbric Surface (F13) (MLRA 136, 122)	Pledmont Floodplain Solis (F19) (MLRA 148)	Red Parent Material (F21) (MLRA 127, 147)				
5	×	8	8	8		85		NDOX=Wixt							_	_	-							
Doph Motrix Motrix Redox Frances	Color (moist)	10YR 4/1	10YR 5/1	10YR 5/2		10YR 6/3		entration, D=Depetion,	icators:	÷.	edon (AZ) > (A3)	Sulfida (Ad)	ayers (A5)	2 cm Muck (A10) (LRR N)	Depleted Below Dark Surface (A11)	Thick Dark Surface (A12) Sandy Mirchy Mineral (S1) (1 BB M	47, 148)	Sandy Cleyed Matrix (S4)	ox (S5)	atrix (S6)	istrictive Layer (if observed):		(69)	
Depth	(inches)	2	ę,	6-1- 1		11.12	İ	pe: L-Conc	varie Soli Indicators:	Histosol (A1)	Hislic Epipedon (AZ) Black Histo (A3)	Hotmoon Sulfide (A4)	Strattfied Layers (A5)	2 cm Muck	Depleted B	Thick Dark Sendu Muc		Sandy Cley	Sandy Redox (S5)	Stripped Matrix (S6)	strictive Lay	Ture	Depth (inches):	

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region Applications: Suph (Ed. Procy) Sampling on the Sampli	c Vegetallon Present Ves No K Is the Sampled Area Ves No K Present Ves No K within a Welland? Ves No K Area Ves No K FO Y CS+	In conversion Secondary Indicators Primary Indicators (Infimum of one is teat(red, check at that apply) Secondary Indicators (Infimum of one is teat(red, check at that apply) States where (A1) True Aquality Float (B1) Sordace Stat Cracts (B4) States where (A1) True Aquality Float (B1) Sordace States (B4) States where (A1) True Aquality Float (B1) Sordace States (B4) States where (A1) True Aquality Float (B1) Sordace States (B4) State Marks (B1) Dran (Addate Handling) Dran (Addate Handling) State Marks (B1) Dran (Addate Handling) Dran (Addate Handling) Value Marks (B1) Dran (Addate Handling) Dran (Addate Handling) Value Marks (B1) Dran (Addate Handling) Dran (Addate Handling) Mark (B1) Dran (Addate Handling) Dr	
WETLAND WETLAND Approardsnes South Ticld Encura Investigator(s): <u>Lauro</u> So Landrom fullisipae kereas Landrom fullisipae kereas Landrom fullisipae kereas Landrom fullisipae kereas Landrom fullisipae kereas Are elegetation Soli Are elegetation Soli	Hydrophylic Vegolallon Present? Wetland Hydrology Present? Remarks: FD Y C S P	 Weissaud Hydrology Indraams: Premaxy Diddargos (michinum gd. Surdare Weier (A) Surdare Weier (A) Surdare Weier (A) Surdare Marts (B) Vialer Marts (B) Vialer Marts (B) Junn Deposals (B) Junn Deposals (B) Junn Deposals (B) Junudation Visible on Aerial Inundation Visible on Aerial Inundation Visible on Aerial Mattar Staked Levers (B) Junudation Visible on Aerial Mattar Staked Levers (B) Junudation Visible on Aerial Visitar Staked Levers (B) Mattar Staked Levers (B)	Remats.

	말었다	N EALLA Total Number of Dominant Le (B)	That Are OBL. FACW, or FAC: 00 (AUB)	Prevelence Index worksheet: Total Core Total & Cover of Mul 6 of lotal cover UBL spectes 3 x1 =	2 × × 3	Column Totals: <u>139</u> (N) <u>VIOT</u> (B)	Hydrophyle Vogetation Indicators: Hydrophyle Vogetation Indicators:	* Total Cover	Y FACW - Pro	N EALA	N. TACK Definitions of Four Vegetation Strate:	SapiroyShrub - Woody pixils, excluding Vires, less han a 3h. DBH and greater than or equal to 3.28 ft (1 m) tail.	= Total Cover of lotal cover_12		Hydrophytic Vessialish	- Total Cover Present? Yes No X	
VECETATION (Four Strata) - Use scientific names of plants	The Stratum (Moi size: 20^{1}) Absolute 1. Duriving view YO	2 Prunus Structure 20 3 Cary & Wate 10	· · · · · · · · · · · · · · · · · · ·	36	samosmasman pousta 15' 5 1. Butte ous mouton 5 2. Fraylous americand 3		b	50% of Iotal cover: 1	Herb Stratum (Plot size: 0) 30	93	Throw a compart office 2	8 0 10 10 10 10 10 10 10 10 10	50% of total cover. <u>30</u>	Woody Vine Stratum (Plot size: 30 ¹)		50% of folal cover. 201	Remarks: (Include photo numbers here or on a separate sheet.)

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I Mountains and Pjedmont <u> Ocoumbara Co.</u> Samping Dale: <u>Ao</u> Stats: <u>OH</u> Samping Point: <u>Shap</u> (Name, <u>Constants</u> Point: <u>Shap</u> (Anna, <u>Constants</u> Point: <u>no</u> Montai Clasmistication: <u>no</u> Normai Clasmisticatio <u>no</u> Normai Clasmistication: <u>n</u>	Yes X No	Eastern Mountain and Pleder
LAND DETERMINATION DATA FORM - Eastern any Interconnector Fadiles CIVCounty Maddson To Tata Tech CIVCounty Maddson To E Staby, E. Konnedo E. Staby, E. Konned E. Staby, E. Konned E. Staby E. Konned B. Staby E. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby E. Staby E. Staby B. Staby E. Staby E. Staby E. Staby E. Staby E. Staby B. Staby E. Sta	Votophyk Vogotalo Present Vota X, No Netaur Hytorkyy Present Netaur Hytorkyy Present PC. Ordynan name (Sday 1 SP3 PC. Ordynan name (Sday 1 SP3 PC. Ordynan frame (Sday 1 SP3 PC. Ordynan name (Sday 1 SP3 PC. Ordynan name (Sday 1 SP3 PC. Ordynan frame (Sday 1 SP3 PC. Ordynan name (Sday 1 SP3 PC. Ordynan name (Sday 1 SP3 PC. Ordynan frame (Sday 1 SP3 PC. Ordynan frame (Sday 1 SP3 PC. Ordynan frame (Sday 1 SP3 PC. Ordyna frame (Sday 1 SP3 PC	
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Sampling Point: 3 absence of indicators.) absence C	calter: PPole Lining, MMolrix, Endicators for Problematic Hydric Solls'; - 2 cm Muck (A10) (ML RA 147) - Coast For Problematic Hydric Solls'; - - - <td></td>	
OIL Froline Description: (Describe to the depth needed to document the indicator of confirm the absence of the fination $\frac{1}{2}$ 1	148) 148) 148) 1417, 148) 1417 17, 1417 1914 1916	
SOIL Froline Description: Describe to the depited by the provided of the providence of the provided of the pro	Type: C-Concentration Hydric Soll Indicators: Devi Surface (S7) Harris Elpedon (A2) Payvalue Block Surface (S9) Mut. Black Hisk (K3) Harris Elpedon (A2) Devi Surface (S9) Mut. Black Hisk (K3) Harris Elpedon (A2) Devi Surface (S9) Mut. Black Hisk (K3) Harris Elpedon (A2) Devi Surface (S9) Mut. Black Hisk (K3) Harris Elpedon (A2) Devise Black Hisk (K3) Harris Elpedon (A2) Devise Black (F3) Harris Elpedon (A1) Learny Gayed Matrix (F3) Sandy Muter (S1) Redon Dist Surface (F3) Sandy Row (S4) Inon-Mangares Masser (F3) Mut.An 147, 149 Mut.An 147, 149 Mut.An 147, 149 Mut.An 14	

April 28, 2015 8P-4 Wo None Nucles Nu

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Pledmont - Version 2.0

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VEGETATION (Five Strata) - Use scientific names of plants.

>	VEGETATION (Five Strata) - Use scientific names of plants.	fic names (of plants.		Sampling Point:	4
		Absolute	Dominant	Indicator	Dominance Test workshaet:	
A.,		% Cover	Species?	Status	Number of Dominant Species	i
<u>، نہ</u>	Acer nuorum	e	, ,	FAC	That Are OBL, FACW, or FAC: 4	₹
î e	•	¢ ¥	₂	EAM		
4	•	5	z	FACU	Souches Across All Strats	(B)
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ю					Pertant of Dominant Species	
15					That Ara OBL, FACW, or FAC: 66.67%	(8AB) %
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6			ļ			, and the second s
Ň			ļ		data in Remarks or on a separate sheet)	`
		55	- Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)	_
ᅤ	Herth Simptum: (Plot size: 5)				Ĩ	
÷	Carex bromotides	30	۲	FACW	¹ Indicators of hostic soll and welfared hostichers raist	
Ń		20	7	Ī	be present, unless disturbed or problematic.	
ei		8	7	FAC	Definitions of Four Vegetation Strata:	
÷	Cleritoria viginica	40	z	FAC	Tree - Woody plants, excluding vines, 3 in. (7.8 cm) or	
ŝ		£	z	ź	more in diameter at breast height (DBH), regardless of height.	f height.
6	Persiceria maculosa	2	z	FACW	Sapling - Woody pants, excluding woody Mnes, aproxi	ximately 20 ft
Ň	Gerenium meculatum	2	z	FACU	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.	Ë
, eò			ĺ		Shrub - Woody plants, excluding woody kines, aproximately 3 to 20	mately 3 to 20
6			Ì		n (1 lo 6 m) in height.	
<u>ç</u> ' ;			ļ		Herb - All hectaceous (non-woody) plants, regardless	
F (ļ			
N.		5	Telefort Carlos		Woody Vines - Al woody vines greater than 3.28 ft in height.	i Neight.
Š	Woodv Vira Shahan: (Plat aba: 15	ò	- 1000 MOO			Ī
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<u>_~i</u>			ļ			
ei.					Hydrophytic Vacathilan	
4					Present? Yes X No	_
പ്					I	
		-	* Total Cover			
R.	Remarks: (include photo numbers here or on a separate sheet.)	arale sheet.)	1	1		
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Coder (molety) % CC Coder (molety) % CC 15:578 4/2 85 2 2 14:1078 4/1 30 14:1078 4/1 4/1 4/1 4/1 4/1 4/1 4/1 4/1 4/1 4/1	Color (maist) 2.5YR 4/6				
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8 8		5	5	MPL	clayfloam
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					deyfoam
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			İİİ		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	trix, MS=Masked	and Grain			² Location: PL= Pore Lining, M=Matrix.
					Indicators for Problematic Hydric Solls ³ :
1	Oark Surface (37)			-	2 cm Muck (A10) (MLRA 147)
Histic Etypedon (A2) Po Bisck Histin (A3)	Polyvalue Below Surface (SB) (MLRA 147,148) This Dock Statione (SO) (M1 RA147, 148)	1909 (NI 20	MLFA 147,1 142 1481	Ę.	Cost Pranje Redox (A15)
	Loamy Glayed Matrix (F2)	x (F2)			Pladmont Floodplain Solis (F19)
×	Depleted Matrix (F3)				(MLRA 136, 147)
2 cm Muck (A10) (LRR N) Decided Retw. Cock Surface. (A11)	Redox Dark Surface (F6) Deviated Dark Surface (F7)	(F6) 2 (F)			Very Shalow Dark Surface (TF12) Other (Exhelin Remarks)
11	Redox Depressions (F8)	(E8)			
Sandy Mucky Mineral (S1) (LRR N, In	tron-Manganese Masses (F12) (LRR N, 201 pr 426)	sses (F12)	(LRR N,		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 138, 122)) (MLRA	38, 122)		³ Indicators of hydrophytic vegetation and
Sandy Redox (SS) Sandy Redox (SS) Restricted Matrix (SG) Re	Piedmont Foodplain Solis (F19) (MLRA 148) Red Periont Malerial (F21) (MLRA 127, 147)	I Sols (F1)) (HLRA 14 RA 127, 147	5.0	wettand hydrotogy must be prasent, untess disturbed or problematic.
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1				[
					Hydric Soll Present? Yes X No

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Projectsie: South Field Entrayy Trikrioning (1940 Carcany: Madison Inpt; Columbion & Mong Date, 24, NOV 7015 Datum: (N65 84 SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Secondary Indicators (minimum of two required) 4 Spersely Vegelated Concave Surface (B8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aantal Imagery (C9) Sampling Point: 50- 5 × Slope (%): Investigator(s): <u>Ann. Grimpy C. Marvy (ritmpy/C. secton, Tourishp, Range.</u> State: <u>0H</u>. <u>Sanding aut. 5f</u> Landram futtiscipa, taraca atc.): <u>Didd C. Local relet (conserve, convex, none): <u>10.00</u>, <u>2.210</u>. Succession ArR on R.R.N. (<u>PPC N 129</u> Lat. <u>40</u>, (<u>14</u>;1373.8</u> Strend or Stressed Plants (D1) Geomorphic Position (D2) Are 'Normal Circlimstances' present Yas Microlopographic Reiler (D4) (If needed, explain any answers in Remarks) No X Drainage Patterns (B10)
 Moss Trim Lines (B16) Sat Map Unit tames BEE - BEVES (April 104) 111 10001, 25 -40° / 510 P() Non description NIA Surface Soli Cracks (Bb) Shallow Aquitard (D3) FAC Neutral Test (D5) Wetland Hydrology Present? Yes, Are climatic / hydrodogic conditions on the site typical for tixs time of year? Yes \overline{X} . No _____ (if no, exptain in Remarks.) Yes Satradon Present? Yes No <u>K</u> Depth (Interes). neueno 177-17 (neucloss capitary hhoge) Describe Recorded Data (stream gauge, monitoring weil, aortai pholos, previous trispocitoris), if available: 1 The Aquatic Parks (B14) Hydrogen Sunder Oder (C1) Oddraf Phitosepheres on Living Rools (C3) Presense of Reduced iron (C4) Recent ion Rooldcon in Tilled Solls (C6) Thin Muck Surface (C7) Cher (Explain in Remorks) is the Sampled Area within a Wettand? Are Vegetation _____ Soli _____, or Hydrology _____ signation for the disturbed? True Aquatic Plants (B14) .. or Hydrology _____ naturally problematic? Yes No Depth (Inches). <u>7</u> 2 2 2 Primary indicators (minimum of one is required, check all that 2001b) No hydralogy observed Surface Wate (A1)
 Saturaton (A2)
 Saturaton (A3)
 Valate Marts (B1)
 Valate Marts (B1)
 Valate Marts (B1)
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 Dent Deposits (B2)
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 Aqual Ma to Cust (B4)
 Inon Deposits (B5)
 Aqual Ma to Cust (B4)
 Inon Deposits (B5)
 Aqual Carana (B4) Hydrophytic Vegetation Present? Wettand Hydrology Indicators: Hydric Soil Presex? Weiland Hydrology Preserit? Are Vegetation _____ Solf ____ Remarks: Upland Forest. Surface Water Present? Water Table Present? HYDROLOGY

40% (MB) Tree - Woody plants, excluding virkes, 3 in, (7.6 cm) or more in diameter at breast height (DBH), regardess of height. ê 4 • Masphologics! Adaptations¹ (Provide supporting Horb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.26 ft lat. 3 8 Bepling/Shrub – Woody plants, excluding vince, leas than 3 in. OBH and greater than or equal to 3.28 ft (1 Woody vine – All woody vines greater than 3.28 ft in height. ¹Indicators of hydric soil and walland hydrology must be present, unless disturbed of problomatic. Problematic Hydrophytic Vegetation' (Expisin) Sampling Point:_SP · G data in Remarks or on a separate sheet) ---- 1 - Rapid Test for Hydrophylic Vegetation Mattery by: × °ž 0 3 ×1= Dofinitions of Four Vegetation Strate: , *5* - ×2" ×3ª - X4 -Hydrophydic Vegetation indicators: S 2 - Dominance Test is >60% Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index = B/A = Number of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Dominance Test worksheet: Total Number of Dominant Species Across All Strate: 8 Total % Const of. Column Totals: FACW species FACU species Hydrophytio Vagstation Present? OBL species FAC spectos UPL species m) tail. ł PACK States FALM PERCENT PERCENT <u>6</u> 20% of total cover. 15 45 = Tolal Cover 75 = Total Cover 02 = Total Covor 20% of sotal cover. = Tolal Covor - Total Cover ļ 20% of total cover. 283 244 VEGETATION (Four Strats) - Use scientific names of plants 기기 Ausolute A Cover 250 20 20 20 45 nnar 3 Remarks: (Include photo numbers here of on a separate sheet.) 3 Dryngteris cartylasiana * Symphyotnehum cordifolium 50% of total cover. $\frac{38}{20!}$ 50% of total cover. 31 50% of total cover: 40 50% of total cover. SEDENDESTRUM PROLING POLISSON 15 amia purpureuri 2 ARCY MUDYHM 3 QUAYCUS VUDYA * GRAITSIA THICANTADE <u>e. Canna Ovatal</u> e. 2050 multif<u>iova</u> Alliana potiolata MINUS SCRUTING Tree Stratum (Plot size 20 Hert Stratum (Plot size S 2. OULINUM VILON ALEV MEMM 1. D'COMMAN SO ≘

US Army Corps of Engineers

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WETLAND DETERMI ProjectSlaa: <u>South Field Energy interconnection F</u> iel Applecan/Ormer: <u>South Field Energy interconnection Fra</u> Investigato(s): <u>E. Konnedy</u> Landorm (abace, an-we, etc.) <u>E. Konnedy</u> Landorm (abace, an-we, etc.) <u>E. Konnedy</u> Saukegion (LRR on ALLA): <u>E. Konnedy</u>	Are cirmatechydrolegic concluora on the site typical for this Are Vegelation	Walato (ngunedy researc) Remarks: pen stroam (ringo, Origina namo exSP15. HYDROLOGY Wetland Hydrology Indicators: Perroy Indexers (immun of ord is requires check as thei app).	Surface Water (AV) High Water Fattle (A2) X. Salatien (A3) Water Madru (B3) Water Madru (B3) Sadmant Deposite (B2) Def Deposite (B3) Def Deposite (B3)	Add Mat Conv. (ev.) The Conv. (ev.) The Conv. (ev.) The Conv. (ev.) The Conv. (ev.) The Conv. The C	Remarks: Lis Army Corps of Engineeres
Sampling Polnt. 52-5 he absence of indicators.) Leature Rematis U.A.M.	-Location: PL-Pore Lining, M-Mairity Mariterations: for Proveintions (M-Mairity		Indicators of hydrophytic vegetation and veeland hydrophytic vegetation and veeland hydrophytic was be prosent, unless disturbed or problemetic. No Kittic Soft Present? Yos No Kittic Soft Present?		
pth needed to document the indicator or confirm i Redar Fastures Color (molst)	Type: C-Concentration, D-Deptetion, RNH-Raduced Mainty, MS-Maskers Sand Grafts.		Unbric Surface (F13) (MLRA 136, 122) — Prodrinoni Floodpain Sulk (F19) (MLRA 148) — Red Parent Malerial (F21) (MLRA 127, 147) Hy		
SOIL Provide Description: (Doscriboto frie di Operation: (Doscriboto frie di Operation: (DVR, 2) 100 1-14" 2,5 Y 5 4 100	1.17pe: C-Concentration, D-Depte Lon, Hwarte Soll i-Concentration, D-Depte Lon,	Histored (A1) Histored (A1) Histore Expenden (A2) Histore Expenden (A2) Hydrogen SaMha (A4) Hydrogen SaMha (A4) Hydrogen SaMha (A4) Sathored (A10) (LRR M) 2 carn Muc A4 (A10) (LRR M) 2 carn Muc A4 (A10) (LRR M) 2 carn Muc A4 (A10) (LRR M) MLRA 147, 14B)	Sarby Gloyod Mark (S4) Sarby Rekox (S5) Suppod Mark (S4) Resurctive Layer (I observed): Type: Deph (Inches):	Remailed	

MINATION DATA FORM - Eastern Mountains and Piedmont

miect/Sile:	South Field Energy	South Field Energy Interconnection Facilities City/County: Marchison Twp., Columbiana Co. Sampling Date: April 29, 2015	City/County	Madiso	a Twp., Co	tumbiane	S S	ampling Date:	April 29, 2015	
		Telm Tech				State:	oH s	State: OH Samping Point: SP-6	SP-6	
westigator(s):		E. Kennedy		Section, Township, Range:	mship, Ra	ŝ		\$32, T10N, R2W	RZW	
andform (hillstope, tarrece, etc.);	meca, etc.);	welland tringe	Local	Local Relet (concerts, comex, rone):	NB, COMPAN,	rone):	č	none	Stote (%): 0	
ubregion (LRR or MLRA):	fLRA):	LRRN	Lat 40.643828 Long:	28 L	:Buo	-80.7	-80.726964	Datum:	WGSB4	
oll Mep Unit Name:		BKE - Berks charmery sill joam, 25 to 40 percent sopes	10 percent slopes			-	NWI classification:	stion:	euou	
re climatic/hydrobo	ic conditions on the	us climatic/hidroboic conditions on the site typical for this time of year?	hear?	ξes χ	ž		(if no, explai	Yes X No (If no, exploin in Remarks.)		
ve Vegetation	Soi	or Hydrology significantly disturbed?	significantly dia	sturbed?	An 7	formal Cir	Are "Normal Circumstances" present?	r present?		
re Vegetation	. Sol	, or Hydrology	naturally problematic?	ematic?	(if nee	Yes ded, auplair	Yea X No xi, axplain any anteware in Rem	Yea X No (If needed; explain any entewers in Remarks.)		

rowing sampling point locations, transacts, important features, etc.

Hydrophylic Vegetation Present?	Xes X	No.	In the Samolod		
Hydric Soil Present?	Yes X No	₽ ₽	Arba within a	× 148	CT.
Welland Hydrology Present?	Yes X	ž	Welland?	W-03	
Remarks:					

HYDROLOGY Welland Hydrodogy Indicators: Permor indraword instrum of one is recursed, dreck as their apply	at their seafty	Secondary Indicators (minimum of two required) Surfece Soft Cructa (89)
Surface Water (M) Holy Vater Table (M2) Xaharation (M2) Xaharation (M2) Xaharation (M2) Satisfinat Devota (M2) Deft Devota (M2) Adat Max C Chard (M2) Invocation (Manaration) ManacStand Lannar (B1) Aquatic Fatura (B13)	Then Arguite Patters (18.4) Hydroxy Suldeo Octors (18.4) X Octorsky Phytosophema on Livic (13) Magnetic and Reduced and (24) Resort from Reduced by There Sola (23) This Macch Suffere (107) Data (Esplain) in Namada (Systemary Vogenterical Concean Senterica (24) Datapage Philames (26) (4) Alos I finit Liken (27) (2) Confinit Liken (27) (2) Subscript Voltabor (27) (2) Subscript Voltabor (27) (2) Subscript Frankton (27) (2) Sub
Field Observations: Suitsca Vrate Present? Yos Water Present? Yos Water Present? Yos Water Present? Yos (tec)des ceptitury fringe) Describe Recorded Data (stream gauge, mont	Finid Observations: Surfaces Viraise Present? Yes No. X. Depth (inches): Mater Tebe Present? Yes No. X. Depth (inches): (inches): Yes X. No. Depth (inches): <u>4</u> (inches): Presents Yes X. No. Depth (inches): <u>4</u> (inchese explainy (incpe))	Welland hydrology Present? Vea X
Remarks		

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Sanofrog Point: 6	dicator or confirm the absence of indicators) Area Type Loc ² Tacture Remarks C M displacem			 ²Location: PLa Poet Uning, M-Mains, Indicators for Poblematic Publics Solis¹; 	7,148)	11	very shadow uak surface (TF12) Other (Explain In Ramaka)	(LRR X, 36, 122) ¹ Indicators of hydrophylle, wegelation and 11NLCBA (148) wrdsard hydrophylle, wegelation and		Hydric Soil Present? Yes X No				Eastern Mountains and Piedmont - Version 2.0
	e to the depth needed to document the tr			Type: C=Consertneton, D=Depiellon, RM=Reduced Marix, MS=Masted Sand Gains. Watto Soil Indicators:	Dark Suridoo (37) — Potyvaba Belviv Suridoo (38) (MLRA 147, 148) Thin Dark Suridoo (38) (44) RA(47, 144)	×	111) and (A11)							
SOIL	Profile Description: (Describ Destrib (Indes)			17)pe: C=Concentration, D Hydrio Soli Indicatora:	Historol (A1) Histic Epipedon (A2) Black Histor (A2)	Hydrogen Suffice (Ad)	2 Cm Muck (A10) (LRR M) Depleted Bobw Dark Surface (A11) Thick Dark Surface (A12)	Sancty Muricin Minema (S1) (LRR N, MILFA 147, 148) Sanchy Garden Markx (S4) Sanchy Fanchar (S5)	Stripped Matrix (SS) Restriction 1 aver (# chranvar)	Type: Type: Depth (inches):	Remarks:			 US Array Corps of Engineers
1.1														
Samoling Poht: 6	Dominiarice Test worksheet: Number of Dominant Spooles That Are OBL, FACW, or FAC: Total Number of Dominant	Species Across All Stratus: (8) Percent of Dominant Species That Are OBL, FACW, or FAC: MOUVOL (V19)	Advect worksheed: A Cover of: a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UPL Expectes 0 x 5 = 0 Column Totals: 0 (A) 0 (B)	Prevalence Index = 8/A = 0	Hydrophytic Vegetation Indicators: X 1 - Rapid Test for Hydrophytic Vegetation - Octonomer Test is come	 Prevalence real s - ou e Prevalence index is 43.0¹ A - Morphosyciesi Adaptations¹ (Provide supporting 	usia In reamance of on a separara streed. Problematic Hydrophytic Vegetation (Explain) ' undertoon of Invide-and and underdendene revea	be present, univers (daturbed or poblematic. Ceffinitions of Four Vegetation Strata. Tree - Woody damis, activation viber. 3 h. (7.6 cm) or	moot in dement of beaut hold ((201), nagotions of height Septing - Woody plants, excluding woody vines, aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	Finuls - Woody pikults, excitering woody views, aptractination 3 to 20 it (1 to 6 m) in hungits. Refs - Althebasenes (reconvectory) piants, regardness is kirs, and woody plants has them 3.38 h kult.	Jupen n 1 2.2.8 tran 3.4600 Vices greater tran 3.2.8 h from Vices	Vagention Yes <u>X No</u>	Esstern Mountains and Piedmont - Version 2.0

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

April 28, 2015	sp.7	ANS.	Slope (%): 10	WGS84	norie			
Sanyting Date:	State: OH Sampling Point: SP-7	S32, T10N, R2W	none Slo	Oatum:	Reation:	kein in Remurka.)	es" present?	No are in Remerks.)
South Flekt Energy Interconnection Fedültes City Country Madisco Two, Columptene Co. Samyling Date: April 29, 2015	State: OH	p. Range:	:(euor 'sous):	-80.72688	NWI classification:	Yes X No (If no, explain in Remuna.)	Are "Normal Circumstances" present?	Yes X No (H needed, explain any answere in Remarks.)
ty: Madison Tw		Section, Township, Range:	Local Relief (concave, convex, none):	48766 Long:	93	Yes X	significantly disturbed?	naturally problematic?
llee CityCoun	ech	ĺ	Ē	Lat: 40.648766	to 40 percent stop	of year?		naturally pr
Interconnection Facili	Tetra Tech	E. Kennedy	hilslope	LRRN	BkE - Berks channery sitt loam, 25 to 40 percent stopes	te typical for this time	, or Hydrology	, or Hydrology
South Flekt Energy			aca, alt.):	SM):	BkE - Berks	s conditions on the si	Sol	Soil
Project/Site:	Appleant/Owner:	Investigator(s):	Landform (hillstope, lermos, etc.):	Subregion (LRR or MLRA):	Soil Map Unit Name:	Are climatic/hydrotogic conditions on the site typical for this time of year?	Are Vegelation	Are Vegetation

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc. Hystophys: Vespastion Present? Yes. No. X

Hydric Soll Present? Wetterd Hydrobgy Present?	×, ×,	484 No No No br>No No No No No No No No No No No N	is the sampled Area within a Wettand?	Yes No X	
Remarks:		1			
undanot (ness) Ditein of name event14					

HYDROLOGY				
Wetland Hydrology Indicators:	ij			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all theil apply)	is required; chec	k al thei apply		Surface Sol Cracks (B8)
Surface Water (A1)			True Aquatic Plants (B14)	Sparsely Vegetated Concare Surface (B8)
High Weter Table (A2)		Hydro	Hydrogen Sulfde Odor (C1)	Drainage Patiems (810)
Saluration (A3)		Oxddb	Ordined Rhizospheres on Lhing Roots (C3)	Moas Trim Lines (B16)
Waller Marks (B1)		Prese	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Rece.	Recent iron Reduction in Tiled Sods (CS)	Crayfish Burrows (CS)
Drift Deposits (83)		PACE.	Thin Muck Surface (C7)	Saturation Vietble on Aeriel Imegery (C9)
Algel Met or Crust (B4)		Other	Other (Explein in Remarks)	Sturied or Shearsed Plants (D1)
Iron Deposite (BS)				Geomorphic Position (D2)
Interdetion Visible on Aerial Imagery (B7)	(78) yrogun			Shallow Aquitard (03)
Water-Stained Leaves (B3)				Mircotopographic Refer (D4)
Aquatic Fauna (B13)				FAC-Neutral Test (DS)
Field Observations:				
Surface Water Present? Y	Yee	Na X	Depth (inches);	
Water Table Present? Y	Yes	No X	Depth (inches):	Wettand Hydrology Present?
	Yes	No X	Depth (Inches):	Yes No X
(includes capitlary (ringe)				
Describe Recorded Data (strea	im gauge, moni	loring well, serial ph	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous hispections). It arcelleble.	
Remarks:				
US Amy Cops of Engineers				Eastern Mountain and Pledmont - Version 2.0

VEGETATION (Five Strats) - Use scientific names of plants.

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Sampling Poht:

Tree Stratum (Post size: 30')	Absolute % Cover	Dominaril Scecies?	Status	Dominance Tast worksheet: Number of Dominant Species
serotina	8	, ,	FACU	That Are OBL, FACW, or FAC: 0 (A)
2. Quercus rubra	20	Y	FACU	
3. Quercus alba	9	N	FACU	Total Number of Dominant
ł.				Species Across Al Strate: 5 (B)
	Ì			
2 ⁻				That Are OBL, FACW, or FAC: 0.00% (A/B)
ļ	3	= Total Cover		Prevalence Index worksheet:
2000005/200001 (Plot Size: 15.)				
		Ì		
		ĺ	1	
4.				2 × 3=
ŝ				s 145
8		l		UPL species 0 x 5 = 0
7.				Column Totale: 150 (A) 595 (B)
	•	= Total Cover		
Shrub Stratum: (Piot Size: 15)				Prevalence Index = B/A = 3.96666667
evine	8	۲	FACU	L
2. Queraus rubra	5	z	FACU	Hydrophytic Vegatation Indicators:
				1 - Rapid Test for Hydrophylic Vegelation
4.				2 - Dominance Text is >50%
				3 - Prevalence Index is ±3.01
				4 - Morphological Adaptations ¹ (Provide supporting
.2				data h Remarks or on a separate sheet)
	R	= Total Cover		Problematic Hydrophytic Vegelation ¹ (Explain)
-				
	ŧ	>	FACU	¹ Indicators of hydric soil and weiland hydrokogy invest
	₽	,	FACU	be present, unless disturbed or problematic.
3. Attaria petiolata	5	z	FACU	Definitions of Four Vegetation Strate:
-,	5	z	FACU	Tree • Woody plants, excluding vines, 3 in. (7.6 cm) or
	۵	z	FAC	more in dameter at preast neight (OBH), regardiese of height.
	-	z	2	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
8.				Shrub - Woody plants, excluding woody whos, aproximately 3 to 20
		Í		ft (1 to 6 m) in height.
10				Harb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody Vines - Al woody vines greater than 3.28 ft in height.
	48	= Total Cover		
Woody Vine Stratum: (Pot size: 30')				-
+				
2.				Hotenstrutie
3.				
				Present? Yes X No
5		Ì		
	•	= Total Cover		
Remarks: (include photo numbers here or on a separate shoet.)	ingte sheet)			

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	Easlern Mountains and Plectmont - Version 2.0	US Array Corps of Engineers
Remats		
Surface Water Present? Yes Ino <u>X</u> Depth (Inches). Water Table Present? Yes <u>X</u> No. Depth (Inches): <u>17.</u> Subrations Researc? Yes <u>X</u> No. Depth (Inches): <u>17.</u> We (Inches) <u>17.</u> We Describe Resorded Date (Stream gauge, inchicking, well, aertel pholos, previous Inspections)		
— Water Statistic Leoves (197) — Aquatic Fauroa (813) Field Chrestoration		Remarks:
 Iron Deposits (BS) Inurvation Visible on Karial Imagory (B7) 	Hydric Soll Present? Yes No X	Cloba: Strated
(84)		e Layar (if obse
s (B2)	unless disturbed or problematic.	Stropped Matrix (S5) Red Parent Malarial (F21) (MLRA 127, 147)
Z Salvardion (A3) Z Oxidized Phizospheres on Libring Root Water Marks (B1) Proserve of Reduced from (C4)	⁴ Indicators of hydrophytic vegetation and wetland hydrobgy must pe present,	Sancy Clayad Mapix (S4) Unribri o Suriace (F13) (MLRA 136, 122) Sancy Radox (S5) Fledmont Eboolpisin Solar (F19) (MLRA 148)
Surface Water (A1) High Water Table (A2)		(LERR N,
dicators: mum el one is regulted: check	Other (Experint In Remarks)	ace (A11)
HYDROLOGY		
	Count Pracies Readors (A10) (MLLRA 447, 48) Diadmont Evolution scala (F19)	Hatte Expression (A2) Porywalus Bohav Sanfano (S2) (MLRA 447, 1448) Befork Histor (A2) Thin Dark Sanfano (S3) (MLRA 447, 1448) Internorman Sanfano (S4) Internor Gamed Machine (S7)
rem along b-4.	Indicators for Problematic Hydric Solis": 2 cm Muck (A10) (MLRA 147)	Hydric Soil indicators: Histored (A1) Darft Surfece (S7)
Remarks.	²Location: PL≖ Pore Uning, M≐Mairix	¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.
Hydroyhylic Vagtetion Present? Yes X No. Is the Sampled Hydrc Soil Present? Yes Yes Vo. Wolland Hydrobgy Present? Yes V No.		
SUMMARY OF FINDINGS – Attach site map showing sampling point I		
Are Vegetation		
Sout Map Unit Names: Co C * COSVIACADA SVIT 140141 6-15-470 SID (CA Are remain: invertations continues on the sub-minimum varies view V No		retusat
Sutregion (LRR or MLRA) <u>LPN 126 Lat 40.64708L</u> Lon	loam foam	0-3 10/18/42 100 3-9 10/188/4 100
~ `		Color (moist) % Color (moist)
ProjectSite JOHNI FICIU ENCLY/ JAME FINITIA THEAT POINT COUNTY PURALIC Applesentement TATAN TACAN	te absance of indicators.)	Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of Indicators) Death Becking the Description of Indicators and the Description of t
	Samping Point 7	los
WETLAND DETERMINATION DATA FORM – Eastern Mo		

ountains and Pledmont Region

CA Trip//Columpare/Samping Date: 24 Nov 2015 State: 014 Samping Point: 57-30

estigator(s): <u>H f11</u>	1 GIVNUYC	L NIGTH 61	vestigalor(s): IFYIR (5) [YYIUVC, NI(074) (51] [YIUVC	 Township 	p, Range:	
diorm (hillslope,)	erraca, elc.); //i	Warner 14	COV CONTOP LOCAL REIK	l (concave.		e (%):
redion (LRR or M	LEAN LEP N	1126 13	1 40. 64768L			Datum: MG-5 84
Map Unli Name:	502 - 202	hictory Sil	14 INDIN 6-150	v SID DI		
climatic / nydrolo	gic conditions or	In the site typical.	for this time of year? Ye	7	e demaits / inycrotogic conditions on the sule typical for this time of year? Yes Y No (if no. explain in Remarks.)	
Vegetation	, Soil	or Hydrology	e Vegetation, Soil, or Hydrology significantly disturbed?	ed?	Are "Normal Circumstences" present? Yes X No	ND ND
Vegetation	Soil	or Hydrology	e Vegetation Soil or Hydrology naturally problematic?		(if needed, explein any answers in Remarks.)	
JMMARY OF	FINDINGS -	Attach site (map showing sam	iod Build	UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	atures, etc.

Hydrophylic Vegeletion Present? Hydric Soli Present? Wisiland Hydrobgy Present?	Ves X No.	is the Sampled Area within a Welland?	Ves <u>Y</u> Na W-6]
PEIN along 5-4.			

HIRKULOGY	
Wottand Hydrotogy Indicators:	Secondary Indicators (minimum of two required)
Primary Indigators (minimum of one is regularit; check all that arren)	— Surface Soil Cracks (Bb)
True Aquatic Plants (B14)	 Sparsely Vegetated Conceve Surface (BB)
Kligh Water Table (A2) Hydrogen Suffide Orlor (C1)	Drainage Patients (B10)
X Saturation (A3) X Oxidized Rhizospheres on Living Roots (C3)	 Moss Trim Lines (B16)
Water Marks (B1) Preserve of Reduced tron (C4)	Dry-Season Water Table (C2)
— Sediment Deposits (B2) Recant Iron Reduction in Titled Solis (C6)	 Craylish Burrows (C8)
Drift Deposits (B3) This Muck Surface (C7)	 Saturation Visible on Aeris! imagery (C9)
	Slunted or Stressed Plants (D1)
Iron Deposils (B5)	🗶 Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	— Shallow Aquitard (D3)
	Microtopographic Relief (D4)
🛁 Aquatic Fauna (813)	L FAC-Neutrel Test (D5)
Field Observations:	
Surface Waler Present? Yes No X Depth (Inches):	
Water Table Present? Yes X No Depth (Inches): 17 1	
No Depth (inches) 4"	Wetland Hydrology Present? Yes X No
incores capiles misser Describe Recorded Data (stream gaugo, incoltoching well, aeriat photos, previous inspections). If available	ailable
Remarks:	

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US Amy Corps of Engineers

ho abserve of Indicators) Texture ci 1 + 1 bu vn ci 1 + 1 bu vn Survivi Clavy 1 ! 4 m	48) 2 cm Mucc, (410) All-Matrix biolications for Problematic Hyttle Solis: 2 cm Mucc, (410) All, 2A1 147) 48) 2 cm Mucc, (410) All, 2A1 443) 48) Coast Partie Record, 3A13) 48) Coast Partie Rook (3A13) 48) Coast Partie Rook (3A13) 48) Pletrionis Foodpan Sols (F19) 48) Pletrin Pletric Rook (341 445) 48) Pletric Rook (341 445) 48) Pletric Soli Presentit 48) Vers Soli Presentit	
2000 10 10 10 10 10 10 10 10 10 10 10 10	() (前) () () () () () () () () () () () () ()	
In the second se	ed Sand Gains ed Sand Gains (Rave (SS) (MLRA (Rave) (F2) (F2) (Rave) (F2) (MLRA (F2) (MLRA (F2) (MLRA (12) (12) (MLRA (12) (12) (12) (12) (12) (12) (12) (12)	
Profile Description: Describe to the depth moded to document the induction of matterness of indicators. Depth Control and the set of the depth moded to document the indicators of matterness of mat	Type: C.Conventration, D.Depleium, RM-Reduced Kathr, MS-Masted Sand Gains Loc Hybridie Soil findicators: Historol (A1) Dark Surface (S7) Historol (A1) Historol (A1) Dark Surface (S7) Thno Dark Surface (S7) Historol (A1) Hybridie Soil findicators: Dark Surface (S7) Thno Dark Surface (S7) Historol (A1) Hybridie Soil findicators: Dark Surface (S7) Thno Dark Surface (S7) Historol (S7) Stratilied Layers (A0) Loombletor Matrix (F2) Sandoo (K5) Daplated Dark Surface (F3) Depleted Below Dark Surface (K4) Loombletor Matrix (F2) Historol (S1) Depleted Below Dark Surface (K3) Nuch A13, 148) MLPA 130 MLPA 147, 148) MARA 147, 148) MLPA 130 MLPA 147, 149 MLPA 130 MLPA 130 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Grego Matrix (S4) Umbels Surface (F3) MLRA 143 Sanny Gr	
10 the depti	Ce (A11)	
Color (Description: (Description: (Description:) (Description) (Descrip	Type: CConcentration, D-Leptlebon, F. Type: CConcentration, D-Leptlebon, F. History (A) History (A) History (A) Solid materiors: Hydrogen Sullde (A) Solid materiors: State (A) Solid materiors: Hydrogen Sullde (A) Solid materiors: Solid Constraint (A) Depted Belew Day, Surface (A) Depted Belew Day, Surface (A) Solid Matrix (S4) Sandy Read (A) Sandy Read (A) Sandy Read (A) Sandy Read (S2) Restrictive Layer (If obscrued): Depted: Days Days	
Profile Desc Depth <u>Ar-4 b</u> <u>9-70 k</u>	17.1729:	

Strata) - Use scientific ná	tmes of p	5	ndicator	Sampling Point: 59-8 bontrance Test workstruck:
ee Stratum (Plot size: 30')		Species?	Status	Number of Dominant Spocies That are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
2. 50% of hitsh cover. SectionolSeruto, Sitraium (Post stee. 15 '		* Total Cover		Prevalence index worksheat. Tetal 36 Cover cf. ItAlitety I22. OBL species x 2 - FACM species x 2 - FAC species x 3 -
				Prevalence Index + 5/A + Hydrophylle Vegelation Indicators: 1 - Papid Test for Hydrophyle Vegelation 2 - Dominance Test Is >50%
Herb Stratum iPO4 426 5 60% of lotat cover.	19305 OH	- Total Cover 20% of total cover 0 U	141	 3 - Prevalance trays is s.s. u 4 - Norphological Additions (Provide supporting data in Remarks on a sogarable sheet) Prodvensur hydrophytik Vogetakon (fc.pv.in)
1. The definition of the second secon	2010		SPL BL	Pudicators of trythe soil and welfand hydrology must be pre-ent, unless disturbed or problematic. Definitions of Foux Vereitation Strats.
s (VHA de derica 6 Sombactur higra 7 Juddvirgia seja	2000	zzzz		Tres – Wrody plants, scribuling vines, 3 in, (7 é cm) or wore in dismeter al bread height (DBH), rogardisss of height.
9				Sapting/Strub - Woody plants, scalading vines, less Baan 3 in DRH and greater than or oquatto 3.26 it (i m) 14.4 Abstructure intercurvelut many constituent
100% of fols cover. $1/2$	102 20% of	02 - Total Cover	29	Trong – or an enclosed of the set
		Tota Cover		Hydruphyfic Vegelstiton Present? Ves <u>V</u> ito
50% of failed photo-numbers have of on a separate sheet.)	20% of	20% of talal cover,		
US Kriny: Certis et Ethylineed a				Essiem Mountains and Pledmani - Versien 2.0

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Eastern Mountains and Piedmont -- Version 2.0

US Amy Corps of Engreers

WETLAND DETERMINATION DATA FORM ~ Easiern Mountains and Piedmont Region

propersies: <u>South Fild Firebon Intraeruncefrunt Fi</u> richt, County <u>Madis on 1945 (Miserius San</u> ang Daue: <u>14, NBN 2015</u> and sentembrone: Feltre Field	Interstantic of the standard of the section Township, Range. Interstanding full call the trace atc.) $\frac{d_{2}N(2.16,10)}{d_{2}N(2.16,10)}$ cost read (concave, convex, none); $\frac{d_{2}N(2.16,10)}{d_{2}N(2.16,10)}$ Slope (cs.) Landiom fullschoo, terrace atc.); $\frac{d_{2}N(2.16,10)}{d_{2}N(2.16,10)}$ cost read (concave, convex, none); $\frac{d_{2}N(2.16,10)}{d_{2}N(2.16,10)}$ Slope (cs.) Subregion (LRR or MLRA); $\frac{d_{2}R}{d_{2}}$ M 12.0 List $\frac{1}{V(1,11)}$ $\frac{1}{V(2,10)}$ $\frac{1}{V(2,10)}$ $\frac{d_{2}N(2.12,10)}{d_{2}N(2.12,10)}$ $\frac{1}{V(2.12,10)}$	and and the second development of the second second second from the second from the second second second second
Projeculstie: <u>South Filld Enlygy Interenting</u> Antronomer Tettre Teth	Interstration of the second second second to the second restriction of the second second restriction of the second secon	

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SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	Is the Sampled Area within a Weitand? Vas V viu 6.4 ctord 43-18	
showing:	Yes X No	
nap	223	۽ ا
siter	>4~	٩
- Attach :	Yes Yes	ß
SUMMARY OF FINDINGS	Hydrophylc Vegelation Present? Hydric Soll Present?	Menaud Hydrology Hexenic

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HYDROLOGY	
Welland Hydrology Indicators:	Secondary Indicators (minimum of two reculred)
Polmary indicators (minimum of one is required; check all that acody)	 Surface Soll Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	 Sparsely Vegelated Concave Surface (B8)
1	Drainage Patterns (B10)
Saluration (A3) Oxidized Rhizospheres on Lhring Roots (C3)	I
Water Marks (B1) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sedament Deposits (B2) Recent Iron Reduction in Tilled Solis (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	— Saturation Visible on Aertal Imagery (C9)
	Stunted or Stressed Plants (D1)
tron Deposits (B5)	👗 Geomorphic Position (D2)
I Inundation Visible on Aerial Imagery (87)	 Shafkow Aquitard (D3)
Water-Stained Loaves (B9)	Microtopographic Rellef (D4)
Aqualic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No K. Depth (Inches):	
Water Table Present? Yes X. No Depth (Inches): 114	~
Saturation Present? Yes \underline{X} . No Depth (inches): $\underline{Y}^{\text{E}}_{\text{P}}$ Witchen	Wettand Hydrology Present? Yes
(includes capitary moge)	
Describe Recorded Data (sitesen gauge, monitoring weit, acrial photos, previous inspections). If	valizoide:
Remarks;	
	-

Sampling Point. 57-9	Dominiance Test worksheet: Number of Dominiani Species That Are OBL, FACW, or FAC: 2 (N)	Total Number of Convinent 3 Species Across All Strats: (B)	Percent of Doruthent Species 10() (AB) That Are OBL FACW, or FAC: 10() (AB)	Previation traits: worksheet. Total X correr of. OBL species X 1 = FACW species X 2 = FACU species VPL species <th>Previdence Index = SIA = Hydrophydic Vegatation bridicators:</th> <th>1 - Rapid Test for Hydrophylic Vegelation 2 - Commance Test is >50% 3 - Provulence Mest is >50% 4 - Anaptalogical Adaptations' (Provide supporting 4 - Anaptations' (Provide supporting 4 - Adaptations' (Provide supporting</th> <th></th> <th> Definitions of Four Vegetation Strates: Tree – Woody plants, exclusing with a plant of the mile more the followed static sector (DBH). Pagardess of height. </th> <th>Sapling/Skrub - Woody plants, excluding vines, less trian 3 fn. DBH and greater than or equal to 3.28 ft (1 rt) tal.</th> <th> Harb - All harbaceous (non-wood) plants, regardless of size, and woody plants bess fron 3.28 ft tall. Woody vitnes greater than 3.28 ft h height. </th> <th>Hydrophytic Vegestition Present?</th> <th></th>	Previdence Index = SIA = Hydrophydic Vegatation bridicators:	1 - Rapid Test for Hydrophylic Vegelation 2 - Commance Test is >50% 3 - Provulence Mest is >50% 4 - Anaptalogical Adaptations' (Provide supporting 4 - Anaptations' (Provide supporting 4 - Adaptations' (Provide supporting		 Definitions of Four Vegetation Strates: Tree – Woody plants, exclusing with a plant of the mile more the followed static sector (DBH). Pagardess of height. 	Sapling/Skrub - Woody plants, excluding vines, less trian 3 fn. DBH and greater than or equal to 3.28 ft (1 rt) tal.	 Harb - All harbaceous (non-wood) plants, regardless of size, and woody plants bess fron 3.28 ft tall. Woody vitnes greater than 3.28 ft h height. 	Hydrophytic Vegestition Present?	
ves of plants.	Absoluts Dominani Inducator & Cover Species2 Status			20% of Iclai cover		- Total Cover 20% of total Cover	20 20 20 20 20 20 20 20 20 20 20 20 20 2			10 - Total Cover 20% of total cover	20% of total cover	fab
VEGETATION (Four Strats) – Use scientific names of plants.	Tree Statute (Plot size: 2011	3		6. Stork of total cover. Setting Straitum (Prof star.] 5.1	5	8	Program program of the second se	, VALIAN AND S. S. S. S. S. S. S. S. S. S. S. S. S.	8. 9. 10	softs of ialal cover. 25 softs of ialal cover. 25	1	ane an addes o no to pref sequinit month enternal. Schen Ba

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50-9	WETLAND DETERMINATION DAT	WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region
Centrin	ProjectStae SUIHIN FILLE FIXING SCHERCONTICITOR FILENT FILENT ProjectStae SUIHIN FILLE FIXING STATE CONTROLLING STATE CONTROL FILENT CONTROL FILENT STATE CO	Projectisme. Solitifi Fittel Erkung, Brithtonnutation Fitzilitik Applearucomen: Tettal Tettal Samo and and and and and and and and and and
	SUMMARY OF FINDINGS - Attach site map sho	SUMMARY OF FINDINGS - Attach site map showing sampling point tocations, transects, important features, etc.
c Solis ³	Hydrophytic Vegelation Present? Ves V No Hydro Soli Present? Ves V No Wetland Hydrobgy Present? Ves X No Remarks. PCMM @10/103 S-57.	Is the Sampled Area $v_{\text{tes}} \frac{\chi}{\chi}$ No within a Westerd? WLAT Assist W-AT
F12)	HYDROLOGY	
	Wetrand Hydrology Indicators: Primary indicators (minimum of one is feotified: check all that apoly)	
tion and Sent,	- Surface Water (A)) HyDi Water Table (A2) Z saturgation (A3)	tiants (814) de Odor (C1) sspheres on Living Roots (C3)
	Water Marks (B1) Sedment Deposits (B2)	Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Recent Iron Reduction In Tilled Solis (C6) Crayfish Burrows (C8)
2	(84)	Thin Muck Surface (C7) <u>statration Visble on Aerital Imagery (C9)</u> Other (Explain In Remarks) <u>V</u> Sumodi or Strates Pariat (D1)
<u>. </u>	Yes No V	Depth (incres):
	Water Table Present? Yes No V Depth (Saturation Present? Yes V No Depth (Depth (Inches):
	(incluses sequenty minge) Describe Recorded Data (stream gauge, monitoring web, aeria) photos, prevous inspections). If aveilable	il photos, previous arspections), il available:
	Renárks:	
]	US Army Corps of Englneers	Eastern Mountains and Pledmont – Version 2.0

Sampling Point 59-9 Texture of Indicators.) Texture of Indicators.) Edited of Stavell of Colligenters. Scientify Stravell of Colligenters.	A control. P1-P0et Linkov M-Metrix	149 - Character for Problemalic Hydric Solis ¹ 2 cm Muck (N19) (MLRA 147) 2 cm Muck (N19) (MLRA 147) Cost Prakin Recox (N16) 0 MLRA 131, 143) - Predmont Freodplan Solis (F11) - Very Shallow Dark Surface (F12) - Under (Esplain in Rematics)	 Indicators of hydrophytic vegetation and wetland hydrology must be prosent, 7) unless distanced or problematic. 	Hydric Soll Present? Yes X No	
Coll Profile Description: [Describe to the depth needed to document the indicator or continuitie absence of indicators.] Depth Depth <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ <u>Color (molet)</u> $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{$	Verse C.C.Proteinition In-Florini Mainteen Maint	Dark Surface (57) Dark Surface (57) Dark Surface (57) Thho Dark Surface (58) (MLRA 147, 148) Thho Dark Surface (58) (MLRA 147, 148) Loamy Gaybad Mark (73) Redox Dark Surface (F3) Perphede Dark Surface (F3) Redox Depressions (F8) MLRA 150	Umbric Surface (F13) (MLRA 136, 122) Piedmont Froodplain Solis (F19) (MLRA 143) Red Parent Material (F21) (MLRA 127, 147)		
SOIL Profile Description: Describe to the dep beam $\frac{1}{0-2^{14}}$ $\frac{1}{10^{12}}$ $\frac{1}{2.5^{12}}$ $\frac{1}{2.90}$ $\frac{9}{2.5}$	True C.C.Decentration Provided on Rts	Hydre Sol Indianos: Hydre Sol Indianos: Histosol (A1) Histosol (A2) Hydragen Suffice (A4) Stralikod Layes (A5) C Cm Mutz (A10) (AR N) Diak Dark Sufface (A11) Diak Dark Sufface (A12) Diak Dark Sufface (A13) Diak Dark Sufface (A13) Mit RA 1431, 1480	Sandy Gleyed Marth (S4) Sandy Redox (S5) Suripped Marth (S6) Deetsf Hund 1 surv fr (S6)	restrictive Layer (ir obsizived): Type: Depth: (inches):	Remarks

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Sampling Point: 27-19 mi the absence of indicators.) I advise Si 1711, (J (U) 10 Gr fi it 11	1.000000000000000000000000000000000000	
Coll. Frontis Description: (Describe to the dopth needed to document the indicator or confirm the absence of indicators). Frontis Description: (Describe to the dopth needed to document the indicator or confirm the absence of indicators). Frontis Description: (Describe to the dopth needed to document the indicator or confirm the absence of indicators). To the indicator of indicator of indicators in the indicator of indicators of indicators in the indicator of indicators of indicators. To the indicator of indicators indicators of indicato	There: C-Concentration, D-Depiction, Rw-Reduced Weitx, MS-Masted Sand Grains. Too Histore (r) Histore (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Histore (r) Dark Surface (r) Strattled Layers (rd) Depieted Matrix (r) Strattled Layers (rd) Depieted Matrix (r) Strattled Layers (rd) Depieted Matrix (r) Strattled Layers (rd) Depieted Matrix (r) Strattled Layers (rd) Depieted Matrix (r) Strattled Layers (rd) Depieted Matrix (r) Sandy Gleyed Matrix (r) MRRA 136) Sandy Gleyed Matrix (r) MRA 136) Sandy Gleyed Matrix (r) MRA 136) Sandy Gleyed Matrix (r) MRA 136) Sandy Gleyed Matrix (r) Depieted Parint (r) (r) Sandy Gleyed Matrix (r) MRA 136) Sandy Gleyed Matrix (r) Depieted Parint (r) (r) Sandy Gleyed Matrix (r) Depieted Parint (r) (r) Sandy Gleyed Matrix (r) Depieted Parint (r) (r)	
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VEGETATION (Four Strata) - Use scientific names of plants.	ames of j	olants.	Sampling Point. 58-10
<u>iree Statum (Piot size: 30 ¹</u>	Absolute 26 Cover	Dominant Indicator Species? Status	Toominarios Teat workshivel: Number of Dornhent Species 2 (N) That Are OBL, FACW, or FAC:
3			Total Number of Dominant Specks Across All Strats:(B)
4			Percert of Dominant Species 107-01, (AB) That Are OBL, FACW, or FAC:
6		- Tatal Cover	Prevotence Inview worksheet: Total & cover of: OBL speedes 21-
pinershub stratum (Pki siz KOSA MUUHIHHOH	SL	Y EPTUA	FACW species FAC species
3			UPL species X4 * (3)
			Hydrophylic Vegelation Indicators: 1 - Rapki Test for Hydrophylic Vegelation 2 - Demonstration - 5000
	15 26% of	15 - Total Cover 20% of total cover	
Herb Stratum (Plot size: 51) 1. Polit Dajus (Wis	2	UNUTE Y	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)
2 Indititis Captrolis 3 Supply Dammanus 4 Carteser	25	NN CHILW	¹ Indeators of hydric soil and welland hydrology must be present, unless disturbed or proNematic. Trightmene of Environment Constitution Constitution
·····			The – Woody plants, auxiliary unset, 3 in. (7, 6 mt) or more in diameter at breast height (DBH), regardness of height.
8. 9. 10.			Saryling/Starub ~ Woody plants, excluding whes, less than 3 In. DBH and greater than or equal to 3.20 ft (1 m) telf.
11	10 % 02 - 20% 01	<u>81</u> - Total Cover 20% of total cover.	Herb – All herbaceous (non-woody) plants, regardless of sitea, and woody plants less them 3.28 it tail. Woody who – All woody wres greater than 3.28 ft in heidth.
2			
6,			Hydrophytic Vecebation
50% of lotal cover.	10 8	- Total Cover 20% of total cover.	Prosent? Yes Ho
Remarks: (Include piloto numbers here or on a separate sheet)	haet.)		

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WEYLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region

2012	1	ł	ļ	2			ļ		ţ.
24 Nov	3		(%): (%):	WGS S			Are "Normel Circumstances" present? Yes _ K No		atures, e
g Date.	Ang Point:		Slope	Datum:	H	د	<u>۲</u>	Aarks.)	rtant fec
Samplin	Samp				cation: N	Remarks.)	present?	ers in Ren	s, impol
Sembit Ah A	: <u>0H</u>		ohe	6608	WI classifi	n najaku ku l	nstances"	any answ	ransect:
10 01	State		none): 1	-90.71	CT N	(II no.	mel Circur	(if needed, explain any answers in Remarks.)	tions, t
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kunty: <u>Ma</u>		1, Townsh	f (conceve		15-26	Y	607	tic?	pling pc
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EMON	T-CCM	IN OVE	etc.): hi	26.1)- Bel	iditions on	Ì	Ī	NGS -
Properties 304th Field Epercent Internmentation Freeth Color Medican Tail (Columnan Samping Date, 24 Nev 2013	T CH VA	investinatoris): HITI GilTTOVE, MANY GILMAYC Section, Township, Range.	Landform fhillshope, terrace, etc.): hill 51 6 bc	C MLRA).	sol Mop Unit Name: BLD- BCYES CHARTREXY, 511 16091, 15-25%, 510064 NWI gassiteation: NA	Are clanatic / hydrologic conditions on the slie typical for this time of year? Yes V no V in the cupitan in Remarks.)	Are Vegetation Soil or Hydrology significantly disturbed?	Are Vegetation Soli or Hydrology naturally problematic?	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
Site: 3041	WOwner:	ator(s): H	a (hillshoo	N (LRR 0	Unkl Nan	atic / hydr	etalion	etation	ARY O
Projecting	Applican	investige	Landforn	Subreción	Sol Mep	Are clim.	Are Veg	Are Veg.	SUMA

20 % (MB)

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Percent of Dominant Species That Are OBL, FACW, or FAC:

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IRES STATUM (PON SIZE 20) 1. PRINTUS SCROTINA 2. SLARVOUS FURETA 3. OSTULA NURVIN IGNA 4. OLLINGUS ANDA

Prevelence Index worksheet:

x1 - 0

OBL species 0 Total % Cover of:

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s

Total Number of Dominant Speckes Across Alf Strata:

Phillip

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Mumber of Dominant Spectes That Are OBL, FACW, or FAC:

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Doetha

Absolute % Carrer

3

wEGETATION (Four Strata) - Use scientific names of plants.

Sampling Point: <u>SP-11</u> Dominance Test worksheet:

HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is recutied; check all lhat apply)	— Surface Soll Cracks (B6)
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odox (C1)	 Drainage Patierns (B10)
Saluration (A3) Oxidized Rhizospheres on Living Roots (C3)	1
Water Marks (B1) Presence of Reduced from (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent from Reduction in Tilled Solis (C6)	— Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	 Stunted or Stressed Plants (D1)
Iron Deposits (85)	— Geomorphic Position (D2)
 Inurdation Visible on Aerial Imagery (B7) 	— Shellow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
- Aquakt Fauna (B13)	FAC-Neutral Test (DS)
Field Observations:	
Surface Water Present? Yes No Depth (Inches):	
Waler Table Present? Yes No Depth (inches):	
Seluration Present? Yes No Depth (inches); Weitland	Wetland Hydrology Present? Yes No A
Describe Recorded Data (stream gauge, montaring well, aental photos, previous Inspections), if available.	alabke:
Pomarte	
ind migarologing closenred.	
5	

205 - Tost Cover 20% of tost Cover 20 Y. FPT. 20 N. FPT. 21 M. FPT.	131 - Total Course 2255: of types course: 2 25: N HPL 25: N HPL 26: N HPL 27: N HPL 26: N HPL	<u>Vul</u> - Taal Cover 2004 of Iosti cover 2004 of Iosti cover 1(1)	- Total Cover 20% of total cover.
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6600022 × 33	32 20% of	5
um (Pot size, 15 ⁴ size, 15 ⁴ c.d.1911,11,071,0 r.d.11,11,071,0 r.d.11,0415,15	61 See a total correct LeftVariif A UtVariif A Destratistatura Artausistatura	50% of total cove size: <u>귀</u> 위	50% of Iolal cover. Inders twee of on a set
argenets sua argunus LLV Vidio Algans, all	ALTAL DIAL	8. 10. <u>Woody Vine Statum</u> (Plot sto: <u>3</u> 8 ¹)	5. 50% of total correr
·		<u>, , , , , , , , , , , , , , , , , , , </u>	

Tree - Woody plants, excluding whee, 3 in. (7.6 cm) or more in diameter at brenst height (DEH), regardless of height

¹Indicators of hydric soil and welland hydrology must be present, unless disturbed or problemetic. Problematic Hydrophylic Vegatation¹ (Explain)

Definitions of Four Vegetation Strata:

Herth - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail.

Woody vitre - All woody vines greater than 3.25 ft in height.

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Y.055

Hydrophytic Vegetation Present?

Sapikrg/Strarb – Woody planks excluding vines, less than 3 kn, DSH and greater than or equal to 3.28 ft () m) tail.

3 - Prevalence Index is x3.0¹ 4 - Worphotopical Adaptations' (Priodule supporting) data in Romants or on a separate sheet)

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Prevalence Index = B/A = 3, 97 1 - Rapid Yest for Hydrophytic Vegelation

Hydrophytic Vegetation Indicators:

2 - Dominance Test is >50%

 $\begin{array}{c|c} FACW species & 0 & x_2 & b\\ FACW species & <u>CO</u> & x_3 & <u>I60</u> \\ FAC species & <u>AA</u> & x_4 & <u>354</u> \\ UPt. species & <u>IA</u> & x_5 & <u>354</u> \\ UPt. species & <u>IA</u> & W & <u>331</u> \\ Cohomin Tatalis: <u>IB</u> W & W & <u>331</u> \\ \end{array}$

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and and a solution of the solution	WETLAND DETERMINATION DATA FORM ~ Eastern Mountains and Pledmont Region
(a)	processions. So with Fifth Encreme Interconnectment Concerns, Nachiston Iwool Chimkington Sommeng Data S4 Nov 2015
Remarks	Applicant/Owner_Tetrix_Tetrix_ humestpand(s): <u>PNIN_GitTraVC_Id0MA_GitTraVC_1600M_GitTraVC_15000000000000000000000000000000000000</u>
	Landiom philispope. Instance, Ref. N. 17.5 Let. 40, 649-2368. Concerts, Concert, Insent, July 20, 7243847. Dalum: 1465.84 Storegion (LRR on MLay). URK: N. 17.6 Let. 40, 649-2368. Concerts, Concert, P. 1. Jung: 78.0, 72.13847. Dalum: 1465.84 Soi Map Lint Name, EVEF. EX.F. 18.04717.074 (3114-10.0171). 12.649 4106 (3107-05.000) dasafteration: Dalum: 1465.84
	Are 'Norms (If needed.
	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
	Hydrophylic Vergeliation Present? Yes No Y Is the Sampled Area
Q. M-Malrix.	heseni's Yes No Y
Diematic Hydric Solis*: 10) (MLRA 147)	Remotes Franking Field.
Redox (A16)	
odplain Soils (F19)	
, 147) Dark Surfare (TE12)	
in Remarks)	
	Weisland flyderlogf Metistoria: Article Strategelde Article Ar
	lants (B14)
strophytic vegetation and	A2) Hydrogen Sulfide Odor (C1)
gy must be present.	Oxidized Rhizospheres on Living Rools (C3)
d or problematic.	Presence of Reduced Iron (C4)
	(B2)
Yes No X	2
	l tmagery (B7)
	Water-Stained Leares (89) EAC-Meutral Test (05) FAC-Meutral Test (05)
	IP Yes
	No_{-/
	ogy Present? Yes No
	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), il aveilable:
-	
	Nn hudrylynu observed
	US Army Corps of Engineers

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Sampling Polnt. <u>SP. 11</u> Reatives <u>I extrements</u> <u>Si [1 + 1841M</u> <u>Si [1 + 1841M</u>] <u>Si [1 + 1841M]</u> <u>Si [1 + 1</u>	MLRA 147, 143 MLRA 147, 143 Pedmon Floorgen Sols (F19) MLRA 136, 147 Very Shellw Jank Surface (F12) Other (Explain in Remarks) Dudicators of hydrology must be present. Unless disturbed or problematic. No X	
Cit. Sam Partitio Description: (Descripte to the depth needed to document the indicator or confirm the absence of indicators). Sam Partitio Description: (Descripte to the depth needed to document the indicator or confirm the absence of indicators). Sam Partitio Description: (Descripte to the depth needed to document the indicator or confirm the absence of indicators). Sam Partition: (Descripte to the depth needed to document the indicator or confirm the absence of indicators). Sam Partition: (Descripte to the depth needed to document the indicator or confirm the absence of indicators). Sam Or 34: 10: 10: 10: 0.13: 10: 0.13: 10: 0.13: 10: 0.13: 10: 10: 10: 0.13: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10	Thin Dati Surface (S9) (AILRA 1417, 148) Losmy Staybed Mailtr (F2) Losmy Staybed Mailtr (F2) Redox Depressions (F8) Peptied Dati Surface (F7) Redox Depressions (F8) tron-Mangatese Massas (F12) (AILRA 148) MLBA 148) MLBA 148) MLBA 148) MLBA 148) MLBA 148) MLBA 148) MLBA 148) Hydri Hydri	
SOIL Fradile Description. (Descripte to the depting the part of	Hadron Histor (A) Hydrogen Sufface (A) 2 cm Maack (A) (D (LRR N) Dopleted Bedew Dass (A) () Dopleted Bedew Dass (A) () Samay Rates (A) () Samay Rates (A) () Restriction Layer (() (SS) Type: KAN () Doph (() (SS) Remarks:	

Sampling Point: <u>SP-16</u> m the absence of indicators.) <u>Si 14 160 M</u> <u>Si 14 160 M</u>	¹ Jocation: P.u. Pove Lining, Mu-Metrix. 1. Jocation: P.u. Pove Lining, Mu-Metrix. 1. Jocation: Developments Problematic Hydric Solis: 1. Jocation: Developments Reador (A116) 1. Double Reador (A116) 1. Pedmont Focologian Solis (F17) 1. Very Shallow Dev. Surface (F12) 1. Other (Explain In Remarks) 1. Mutric Soli Present? 1. Very Shallow Dev. Surface (F12) 1. Other (Explain In Remarks) 1. Very Stallow Dev. Surface (F12) 1. Unless disturbed of problematic. 47) Hydric Soli Present?	
Cit. Profile Description: (Describe to the depth needed to document the indicator or continue the absence of indicators). Depth. De	Type: CConcentration, D-Displetion, Riv-Reduced Matrin, MS-Messeed Sant Grafts. 100 Histocol (A1) Dark Surface (S3) 140 Histocol (A1) Dark Surface (S3) 141 Hytroopen Surface (A3) Common Gal Antick (F3) 141 Dark Surface (A3) Dark Surface (F3) 141 Dark Surface (A3) Dark Surface (F3) 143 Sandy Rouch Matrix (F3) Dark Surface (F3) 141 Sandy Rouch Surface (A13) Dark Surface (F3) 141 Sandy Rouch Surface (F3) Dark Surface (F3) 141 Sandy Rouch Surface (F3) Dark Surface (F3) 141 Sandy Rouch Surface (F3) Dark Surface (F3) 141 Sandy Rouch Si Dark Surface (F3) 143 Sandy Rouch Sister F3 144 143 Sandy Rouch Sister F3 144 143 Sandy Rouch Sister F3 144 144 Sandy Rouch Sister F4 144 144 Sandy Rouch Sister F4 144 144 <t< td=""><td></td></t<>	
SOIL Profile Description: (Doscribe to the dep Depth Coefficients) 260 ()-[]] [] [] [] [] [] [] [] 20	1. Type: CConcentration: 1. Type: CConcentration: Hydrix Soil Indicators: Histosod (A1) Sandy Muck (A10) (LRR (A) Sandy Muck (A10) (LRR (A) Sandy Haltk (S4) Sandy Haltk (S5) Sandy Haltk (S5) Pasitrix (B4) Pasitrix (B4) Pasitrix (Horizies) Depth (Inches):	

0% (NB) 3 - Prevelence Index is r3.0¹
 4 - Morphological Adapteticns² (Provide supporting 8 8 Tres - Woody plants, excluding vines, 3 in. (7,6 cm) or more in diameter sit breast height (DSH), regardless of height. Herto – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tag. 9 1 દ્વ Inductors of hydric coll and weitend hydrology must be present, unless disturbed or problematic. Dafinitikaris of Four Vegetation Shata: Sapting/Shuth - Woody plants, excluding vines, less than 3 in. OBH and greater than or equal to 3,28 ft (1 ro) isit. Woody vine - All woody vines greater than 3.28 R in height. Problematic Hydrophytic Vegetation' (Explain) Sampling Point: <u>5P-12</u> Dominance Test worksheet: dala la Remarks or on a separale sheed No X x4- 0 x6-x6 42S 1 - Rapid Test for Hydrophytic Vegetation
 2 - Commance Test is >50% Multiply by: 0 Prevatence Index = B(A = 5.0 4 ř Hydrophytic Vegetation indicators: Prevalence Indax workshaek: Total % Cover of x1 Oth species 0 x2 FACW species 0 x2 Yes _____ Number of Dominarit Species That Are OBL, FACW, or FAC; Percent of Dominant Species That Are OBL, FACM, or FAC: Tolal Number of Donknant Species Across All Strata: UPL speckes 85 Column Totais: 85 FAC species FACU species Hydrophytic Vegetation Present? Tall Absolute Dominient Indicator 20% of total cover 18 ł ł 50% of total cover. 20% of total cover. 20% of total cover. = Total Cover 20% of total cover: Total Cover 20% of total cover. ļ VECETATION (Four Strata) ~ Use scientific names of plants. ۶Z 50 50% of total covies: Septime/Sprub Stratum (Phot size: 15 ' ſ 2. LAMIA BUYPUVENN Tree Stratum (Plot size: 30¹ ¢٥ ⊴

Eastern Mountains and Pledmont - Version 2,0

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US April' Corps of Engineers

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Appleant/Owner:	Tetra Tech			State:	£	State: OH Sampling Point: SP-13	Tetra Tech State: OH Sampling Point: SP-13
	Brian Slaby	Section	Section, Township, Range:	Range:		S32, T10N, R2W	I, R2W
Landform (Allstope, terrace, etc.):	floodplain	Local Relef (concave, convex, none):	CONCEVES, COT	vex, none):		none	Stope (%):
Subregion (LRR or MLRA):	LRRN Lat	: 40.648852 Long:	Long:		-80,720492	Datum:	WGS84
Soil Map Unit Name: BKD - Bei	BkD - Berks channery sill loam, 15 to 25 percent skipes	percent slopes			NWI classification:	fication:	BOOR
bgle conditions on th	Are climatic/hydrologic conditions on the site hypical for this time of year?		×	No.	(If no, erg	Yes X No (If no, explein in Remarks.)	
Sel	. or Hydrobgy	tignificantly disturbed?	^م	re "Normal Cu	roumstanc	Are "Normal Circumstances" present?	
				Yes	×	Yes X No	
Soll Soll	, Soll , or Hydrobgy	naturally problemetic?		Freeded, explai	n any unsw	(If needed, explain any unswers in Renterto.)	

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

Hydrophytic Vegelaŭon Present? Hydro Soil Present? W elland Hydrobgy Present?	887 887 887 897 897 897 897 897	222	Is the Sampled Area within a Welland?	Yes X No W-9	
Romarka:					
PEM. Original name BSday2 SP8					

		1	
1YDROLOGY			
Vettand Hydrology Indicators:		Secondary Indicators (minimum of two required)	
rimery indicators (minimum of one is required; check of their apply)	apdy)	Surface Soli Cracks (36)	
Surface Writer (A1)	True Aquatic Planta (B14)	Sparsely Vegelated Concerne Surface (BB)	_
High Water Table (A2)	Hydrogen Sullide Octor (C1)	X Drainage Patierns (610)	_
X Submitton (A3)	X Outlized Rhibospheres on Living Roots (C3)	Mose Trin: Lince (B16)	_
Water Marks (B1)	Presence of Reduced Iron (C4)	Cry-Season Weter Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Solis (C8)	Canylish Burrows (CS)	_
Duft Deposits (B3)	Thin Muck Startace (C7)	Seturation Vaible on Aertal Imagery (C8)	_
Atpal Mut or Crust (B4)	Other (Explach in Remarks)	Slunted of Stressed Plants (D1)	_
Iron Deposits (B5)		X Geomorphic Position (D2)	_
Inundation Visible on Aarial Imagery (B7)		Shalow Aquiard (D3)	_
Weler-Steined Leaves (B2)		Miccotopographic Reflet (D4)	_
Aquatic Fauna (813)		FAC-Neutral Test (DS)	_
liaid Observetions:			
kurface Water Present? Yes No	X Depth (inches):		_
Valer Tebls Present? Yes No	×	Wettand Hydrology Present?	_
leturation Present? Yes X No		Yas X No	_
recordes captuary tringle)			
vectos Rocordod Dala (stream gavge, montorng weil, aorial photos, previous Inspections), d'avaiable.	adi, aerial pholos, previous inspections), d available:		
kemiarks:			
		_	

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VEGETATION (Flvs Strats) - Use scientific names of plants.

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Sampling Poht

Absolution (Polisbae: 30°) % Cover Species?	Indicator Status	Deminance Test worksheet: Number of Dominant Species Their Am Citil, F.a.C.W. or Fa.C. 2 (A)
		species Arouses on Janual. (19) Percent of Dominant Species That Are OBI, FACW, or FAC: 100.00% (ARB)
Sealing, Stratum: (Pet Stee: 15) 0 1030.0744		Privatence Index worksheet: Totel X, Cover of: OBL species TACMY species D x 2 = 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 0 C 2 2 2 2 0 C 2 2 2 2 0 C 2 2 2 2 0 C 2 2 2 2 0 C 2 2 2 2 2 0 C 2 2 2 2 2 0 C 2 2 2 2 2 0 C 2 2 2 2 2 2 0 C 2 2 2 2 2 2 2 2 2 2 2 0 C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6. 6. 7. 7. 7. 7. 7. 10. 10. 10. 10. 10. 10. 10. 10		s 0 x 4 = 1 (x 4) =
		Hydrophyfic Vegetation Indicators: 1 - Rapid Teatfor Hydrophyd: Vegetation X - 2 - Domaina Teat Is - 2005, - 3 - Provaenancio teat Is - 301 - 4 - Morphological Adoptations' (Provida augoorling Domainer is Horison's concentration' (Provida augoorling
	FACW NI OBL FACU	Troventuce: rysupportune requestory (Leyanov) Indications of hydro soil and wellend hydrobyy must be present. Unless charmed or problematic. Definitions of Four Vegetability Shahs: These - Woody path, severating views, 3 in (7, 6 m) of more in duringtor at breast height (EH), reguelates of height.
Triblum sp. 1	ZZ	Septing - Woody plants, encluding woody wres, grootwrately 20 ft (6: n) or more in relepting and less than 3 in. (7.6 cm) DBH. Shrade - Woody plants, excluding woody wres, eproximetely 3 to 20 ft (1 to 6 m) à inkepint. Heth - All herbusceus (nor-woody plants, regardless of size, and woody statis less than 3.28 ft jail. Woody Vines - Al woody vines greater than 3.28 ft in height.
		Hydroihydd Vegetadon Present? Yes X No
Remarks: (Indicide pholo numbers here or on a soporale vivert.) unbrown monocol Ib/1		

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(noble) Conk (model) % Cohe (model) % Type ¹ 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 777:4/6 5 C 1 2-10 2-5Y stg 80 770:4/7 5 C 1 2-10 2-5Y stg 2 9 7 C C 1		
	0	Texture Remarks
1 1 1 1 1 1 1 1 1 1 1 1 1		
	od Grains.	² Location: PL= Pore Lining, M=Matrix.
	1	Indicators for Problematic Hydric Solis ¹ :
		2 cm Muck (A10) (MLRA 147)
	ce (SS) (MLRA 147,148) h (MLRA147, 148)	Coast Prairie Redox (A15)
	F2)	Piedmont Floodplain Solis (F19)
R8 (S41)		(MLRA 136, 147)
	(e	Very Shalch Dark Surface (TF12)
	8)	
	es (F12) (LRR N,	
	(MLRA 136, 122) ols (F18) (MLRA 148)	"Indicators of hydrophytic vegetation and wetland hydrobon must be oversent.
	Red Parent Melerial (F21) (MLRA 127, 147)	unless disturbed or problematic.
h (indres):		
		Hydric Soil Present? Yes X No
5 1 55		

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Investigator(s): Landform (hillstope, terrace, alc.);						
andform (hillstope, terrace,		B. Slaby		Section, Town	Section, Township, Range:	S32, T10N, R2W
	(38 (38	Z	hil stope	Local Relief (conceve, convex, none):	8, convex, none):	convex Stope (%):
Subregion (LRR or MLRA):	, 2	LRR N	ا ظ	40.648796 Lon	Long: 80.720421	1 Datum: WGS84
Soli Map Unit Name:	BKO - Be	riks channery silt	BkD - Berks channery sit loam, 15 to 25 percent slopes	roant slopes	NWIG	NWI classification: none
Are climatic/hydrologic conditions on the site typical for this time of year? Are Verenation Scal	nditions on th Soil	he site typical for this tim or Hotrobory	this time of year?	7 Yes Xes X	Am "Normal Circ	(if no, expetit in Romerica.) amalances af consecui?
	5				X 89,	No
Are Vegelation		or Hydrobogy		neturally problematic?	(it reacted, explain any answers in Remarks.)	uteware in Remarks.)
UMMARY OF FIND	NGS - Atta	ch site map s	howing sampli	SUMMARY OF FINDNGS - Attach site map showing sampilng point locations, transacts, important features, atc.	ansects, Important f	eatures, etc.
Hydrophytic Vegetation Present?	resent?		Yas		Is the Samoket	
Hydric Soil Present?			Yes	_	Anse within g Yes	× £
Netland Hydrology Present?	50	ĺ	Yes		Wetland?	
Forest. Original name BSday2 SP9	sday2 SP9	:	l		f	
HYDROLOGY		I			i	
Wetland Mydrology Indicators:	cators:				Sec	Secondary Indicators (minimum of two required)
Primery Indicators (minimum of one is required; check of lihet apply)	of one is requir	ed; check of thet of	ph)			Surface Soli Crecks (BB)
Surface Water (A1)		I	True Aquatic Plants (B14)	Manda (B14)	ļ	Spartely Vegetated Concare Surfece (B8)
High Water Table (A2)		1	Hydrogen Sulide Ddar (C1)	ide Oder (C1)		Drainage Patierna (B10)
Seturation (A3)		I	Oddbad Rhbc	Oddized Rhitospheres on Living Roots (G3)	I	Moas Trim Lines (B16)
Weller Marries (B1)		1	Presence of R	Presence of Reduced Incn (C4)	l	Dry-Season Vester Table (C2)
Sediment Deposits (B2)		1	Recent Iron Ru	Recent Iron Reduction in Tilled Sole (CB)	I	Creyfelti Burrows (CS)
Drift Deposits (B3)		1	Thin Muck Surface (CT)	face (C7)	1	Seturation Visible on Aerial Imagery (CS)
		1	Other (Explain in Romanta)	in Romarks)]	Sturfed or Stress of Plants (D1)
Iron (Pepostis (B5)					I	Geomorphic Postion (02)
Inundation Visible on Aerial Imagery (B7)	eriel Imagery ()	5			ļ	Shalow Aquilard (D3)
Water-Stained Leaves (B9)	(68)				ł	Mircelepographic Rafler (D4)
Aqualic Fauna (813)					ļ	FAC-Neutral Test (D5)
Field Observations:					 	
Surface Water Present?	⊀es	2	×	Depth (inches):		
Waler Table Present?	Yes	Ŷ	۵ ×	Depth (inches):	Wettand Hyd	Wettand Hydrology Present?
Saturation Present?	Yes	2	×	Depth (Inches):	, , , , , , , , , , , , , , , , , , ,	× %

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terman/cs:

Eastern Mountain and Piedmont - Version 2.0

TIOS	Profile Description: (Describe to the depth medded Depth Matrix, (normal) Colo 0.41 7.5071.323 100 0.41 7.5071.323 100 1.43 10777.33 100 1.44 10777.33 100 1.43 1077.33 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 1.45 2.577.453 100 2.577.453 2.557.453 100 1.44 2.577.453 100 1.45 2.577.453 100 1.44 2.577.453 100 2.557.455 2.550 100 2.557.455 2.550 100 2.557.455 2.550 100	US Amry Cups of Engineers
Sampling Poht 14	Deminance of Tear vendetheet: 1 Interlow of Dominant: Species: 1 (A) Tata Aren OSL, FACN, of FAC: 1 (A) Tata Aren OSL, FACN, of FAC: (A) (A) Trait Number of Dominant: Species: 2 (B) Prenot of Command: Species: 2 (B) Tata Aren OSL, FACN, of FAC: (A) (A) Prenot of Command: Species: 2 (B) Tata Aren OSL, FACN, of FAC: (A) (A) Prenot of Command: Species: 2 (B) (A) Prenotion: 0 x 1 = 0 (B) Prenotion: 2 (A) (B) Prenotion: 23 (A) (B) Prenotion: 2 (A) (B) <	Eastern Mountains and Peermont - Version 2.0
VEGETATION (Five Strata) - Use scientific names of plants.	Marchala Demntrart Indexted Demntrart Indexted 1 Prigra stretosa 76 50 500 500 500 2 Activitablem 70 7 7 7 7 3 Proves astrotosa 70 7 7 7 7 4 Proves astrotosa 70 7 7 7 5 Proves astrotosa 70 7 7 7 6 Proves astrotosa 70 7 7 7 7 Proves astrotosa 70 7 7 7 8 Proves astrotosa 70 7 7 7 7 Proves astrotosa 7 7 7 7 8 Proves astrotosa 7 7 7 7 7 Proves astrotosa 7 7 7 7 8 Proves astrotosa 7 7 7 7 8 Proves astrotosa 7 7 7 7 8 Proves astrotosa 7 7 7 7 9 Proves astrotosa 7 7 7 7 1 Proves astrotosa 7<	US Army Corps of Engineers

Depth Matrix Become Teatures (prine) Code (mote) X Topel Lock 1.4 1078.33 100 Remarks Remarks 4.4 2.57V.43 100 Rem Remarks 1.4 1078.33 100 Remarks Remarks 1.4 2.57V.43 100 Rem Remarks 1.4 2.57V.43 100 Rem Remarks 1.4 2.57V.43 100 Rem Rem 1.4 2.57V.43 Rem Rem Rem 1.4 2.57V.43 Rem Rem Rem 1.50 Rem Rem Rem <td< th=""><th>Remarks Remarks th></td<>	Remarks Remark
beam Ream Read and the state sta	barn Barn
Reun Reun Learn Learn Learn Learn Lizer 147, 148, 12, 148, 12, 148, 147, 148, 148, 147, 148, 148, 148, 148, 148, 148, 148, 148	Reun Image: Second S
LEA 147, 149, 1-0 coston: PLE Poo Lining, MeMatrix 1-1 coston: PLE Poo Lining, MeMatrix 1-2 cost for Problemate trydres Salte ¹ ; 1, 149, 2, 2 con Musk (110) (MLEN 417) 47, 149, 1, 149, 147) 47, 149, 1, 144, 149, 147) 47, 149, 1, 148, 147) 1, 148, 147 1, 148, 148 1, 14	Learn Learn 1 1
LIZA 147, 149, 1-000 Linity, M=Metrix, 1.000 LizA 147, 149, 1-000 Linity, M=Metrix, 1.000 LizA 147, 149, 147, 1417, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1418, 1477, 1419, 1416450, rate of FE12, 1477, 1477, 1419, 1416460, rate of records and line of while of the of or problem and line of the of t	LIZA 147, 149, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
7. Constitut. PL: Peron Lifting, Mi-Midrifs. Indicators for Pr-oblematic bydrifs Solis*: 2 am Muck (A10) (ALLRA 147) 2. am Muck (A10) (ALLRA 147) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 47, 148) 48, 123, 148) 48, 127, 149) 48, 127, 147) 4127, 148) Millications of hydrophytic vegetation and (Million Scill Erstein) 4, 122, 147) Mildia Soil Briteent?	1. Consider: PL: Peron Lifting, Mi-Midrix, Indications for P-Poblemade bydric Solis ¹ ; 2. Con. Muck (A10) (MLRA 447) 47. 148) 2. Con. Muck (A10) (MLRA 447) 47. 148) (QLRA 147, 148) 47. 148) (DIss (Esplatis In Ramadra) LIRR M, (Diss (Esplatis In Ramadra) 4. 122, 147) Unides Liber of tydrophyle: vegetablion and (MLRA 144) Hydrike Soll Present? Yes
Indicators for Problematic Hydric Solis ¹ : ILPA 147, 148) Zon Muck (A112) (AIERA 147) 47, 148) Casel Previore Redox (A16) 47, 149) Redox Problem Redox (A16) 47, 149) Redox Problem Sola (F19) Protect Problem Sola (F19) (AIEA 186, 147) Unication of hydrophytic wegetation and (AIEA 144) Unicas disturbed or problematic. A 127, 147) Unicas disturbed or problematic.	ILEA 147, 148) Indicators for Problematic Hydric Solis ¹ , ILEA 147, 148) Coast Prairie Rodox (A15) 47, 149) (ALCA 147, 149) (ALCA 147, 149) ALCA 147, 149, 147) URE N, URE N, ATZ) Professions of hydrophytic vegetation and (NLLA 149) weitland hydrophytic vegetatio
 2 on Music (AULTA 147) (AULTA 147) (AULTA 147) 2 (AULA 147, 148) (AULA 147, 148) Photomol Incolpain Solia (F19) (AULA 157, 147) Photomol Incolpain Solia (F19) (AULA 158, 147) Photomol Incolpain Solia (F19) (AULA 158, 147) Photomol Incolpain (F19) (AULA 158, 147) Andreshin In Ramackal Multi (Soli Present) Yes 	 2 on Muck (AILTA (47) 2 on Muck (AILTA (47) (AILTA (47, 145) — (AILTA (47, 145) — (AILTA (47, 145) — (AILTA 147, 147) — (AILTA 147, 147, 147) — (AILTA 147) — (AILTA
 (a) Cash Francis mode (A1: 44) (ALLA 147, 144) Pleatmont Pacophain Solis (F13) Pleatmont Pacophain Solis (F13) (Ust 24, 145, 145) (Ust 24, 145, 145, 145) (Ust 24, 145, 145, 145, 145, 145, 145, 145, 14	 (b) Cask Francis Cask Francis (Acade Francis Cask Francis (Acade Francis Francis Casher Dark Subir (Francis Casher Dark Subir (Francis Casher Dark Subir In Ranada) ¹ Indicators of hydrophytic registration and welland hydrobytic mast to present, unass dilaurbed or problematic. Hydric Soil Present? Yes
Pikernen Pizedpain Sols (F13) (MLAA 153, 147) Very SHARNE Dink Scher (F12) Very SHARNE Dink Scher (F12) Other (Explain in Ramadra) Indications of hydrophylic vegetation and withink hydrobsyn mast to proteinmetic. Widnic Scell Present? Yes	Piedrom Poogbain Sole (F19) (ut A) 143, 151, 151 Very Shake Dark Sustree (F12) Other (Explain In Ramacks) *Indications of Indirophytic vegetation and withink Invited or problemation. Hydric Soil Present? Yes
(NLCA 156, 147) (NLCA 156, 147) Vory Shabon bink Surface (TF12) Vory Shabon bink Surface (TF12) Indicators of hydrophytic vegetation and withink hydrobsymatics vegetation and withink hydrobsymatics vegetation and Widels Soil Present? Yes	(NLCA 15), 14) (NLCA 15), 14) Very Shabor bark Surface (TF12) Very Shabor bark Surface (TF12) Profession and williard hydropythys: vegetation and williard hydropythys: vegetation and williard hydropythys: vegetation and Hydrik Soil Present? Yes
Very Stratter Ent. Sucrace (Tr12) Other (Scipetic In Ramadus) Indicators of hydrophytic regetation and wettand hydrology myta: beneand. Unders Gelenfeder or problematic.	Very Stratew Dark Sucrace (F1/2) Other (Espelin In Ramakes) Indication of hydrophytic vegetation and writeal hydrobysym must be present, unised disturbed or problematic.
 Indicators of hydrophytic vegetation and weitland hydrophytic vegetation and weitland hydrology mast be present, unises disturbed or problematic. Hydric Soll Present? Yes 	 ¹Indicators of hydrochydroc wegetation and wellawd hydrochydroc meast ice present, unises disturbed or problematic. Hydride Soil Present/?
¹ Indicators of hydrophytic wagetation and welland hydrobsymast to present, unless disturbed or problematic. Hydric Soll Present? Yes	Indicators of hydrophydr. vegetation and weiliauf hydrobogy meast be present, unises daturbed or problematic. Hydrite Soil Present?
3	

11

Eastern Mountains and Pledmont - Version 2.0

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Sile:	South Field Energ	South Field Energy Interconnection Facilities Cay/County: Medison Twp., Columbiana Co. Sampling Dele: April 30, 2015	City/County	Madison Twi	p. Columbia	na Co.	Sampling Date:	April 30, 2015	
Appleant/Owner:		Tetra Tech			Star	10 S	State: OH Sampling Point: SP-15	SP-15	
investigator(a):		B. Slaby	ð	Section, Township, Range:	o, Range:		S32, T10N, R2W	I. RZW	
Landform (hillstope, terrace, etc.);	raca, etc.):	slope	Local Re	Local Refer (concave, convex, none):	mex, none);		CORVEX	Slope (%):	
Subregion (LRR or MLRA):	(FRA):	LRRN	Lat: 40.64865	[ong:		-80.719488	Datum:	WGS84	
Soil Map Unit Name:		BkD - Berks channery slit loam, 15 to 25 percent stopes	16 percent stopes			NWI classification:	liteation:	none	
Are climatic/hydrolog	ic conditions on the	Are dimetic/hydrologic conditions on the site typical for this time of year?	ear?	Yes X	Ŷ	îf no ex	Yes X No (If no, explain in Romautas.)		
Are Vegetation	Sol	, or Hydrology	significantly disturbed?	rbed?	Ve Normal	Circumstanc	Are "Normal Circumstances" present?		
					Yes	Yes X No	g g		
Are Vegetation		or Hydrology	naturally problematic?		lf needed, ex	plain any answ	(if needed, explain any answern in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important fastures, etc.

Is the Sampted Yes No X Area within a Yes No X Weitand?			
88 88 88 88 88 88 88 88 88 88			
Hydrophytic Vegetation Present? Hydric Soil Present? Weitand Hydrobcyy Present?	Remarks:	Forest. Original name BSday2 SP7	

HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; oreck all livet spory)	d: check all that sophy)		Surface Soil Cracks (B6)
Surface Weter (A1)	Ann	Trae Aquatic Plants (B14)	Sparsely Vegetated Concare Surface (B8)
High Waler Teble (A2)	Hydrag	Hydrogen Sulide Odor (C1)	Orshage Patients (B10)
Saturation (A3)	Oxidize	Oxidized Rhizospheres on LMng Roots (C3)	Moss Trim Lines (B16)
Waher Marks (B1)	Presan	Presence of Reduced fron (C4)	Dry-Season Weter Tetre (C2)
Sediment Deposits (B2)	Pace4	Recent Iron Reduction in Tilled Solis (D8)	Crinyflah Burrows (C8)
Drift Deposita (B3)	Unio M	Thin Muck Surface (C7)	Saturation Visible on Aartal Imagery (C3)
Abal Mat or Crust (64)	Other	Other (Explain In Remarks)	Sturted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aeriel Imagery (B7)	5		Shellow Aquiterd (D3)
Water-Stained Leaves (B9)			Mrcotopographic Relet (D4)
Aquado Fauna (B13)			FAC Nectral Test (D5)
Field Observations:			
Surface Water Present? Yes	No X	Depth (Inches):	
Water Table Present? Yes	× £	Depth (inches):	Wetland Hydrology Present?
Saturation Present? Yes	× ¥	Depth (Inches):	Yes No X
jewoose deprezymmenty Describe Beovried Data (stream cence, monitorian weil sendal aboles, resolvane instructione) if available:	monitoring and and all the	dre rrevinue instractione) if available:	
הפאמות המונה המונה המונה המונה המונה המונה	, una mang man, anna pun	we, previous inspectorial, a arangue.	
Remarks:			

VEGETATION (Five Strats) - Use scientific names of plants	filc names c	of plants.		Sampling Point: 15
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Irree Statum (Proceases 30)	70	Y	FAC	There are on Dominiant operates
2. Prunus serotine	ę	z	FACU	
3. Plinus strobus	5	z	FACU	Total Number of Dominant
4. Pinus sylvesids	5	z	Z	Species Across All Strala: 5 (B)
9 10				Percent of Domistant Species
7.				That Are OBL, FACW, or FAC: 80.00% (A/B)
	8	= Total Cover		Descelation Index undefeater
Saping Stratum; (Pick Size: 15)	_			Treaming index workersed. Total & Cover of
5.				
6				0
4.				FAC spectos D x 3 = 0
5.				s 0 × 4=
		Ì		0 × 5= 0
		- Total Onion		
Shrub Stratum: (Plot Stre: 15')				Prevatence Index = B/A = #D/V/01
. euc	10	٢	FACU	
2. Fradinus pennsyhrenka	ŝ	۲	FACW	Hydrophytic Vegetation Indicators:
3.				
4.				X 2 - Dominance Test is >50%
6				3 - Prevalence Index is \$3.0
				 A - Morphosogical Adaptements (Priovice supporting data in Remarks or on a separate sheet)
	ŧ	= Total Cover		Parbiametic Hydrochylic Vacatation ¹ (Evalain)
Herth Straitum: (Plot size: 5')				
vrginica	15	٢	FAC	 Indicators of hydric soil and wetland hydrobox must
Floerkee proserphrecokies	ţ	۶	FAC	be present, unless disturbed or problematic.
Impatiens capencis	2	z	FACW	Definitions of Four Vegetation Strata:
4. Ulmus americans	3	z	FACW	Tree - Woody plants, excluding vines, 3 In. (7.6 cm) or
	50	z	FAC	more in diameter at breast height (DBH), regardiass of height
	÷	z	ī	Supling - Woody plants, excluding woody vines, aproximately 20 ft
7. Dichanthelium clandeslinum	7	z	FAC	(6 m) or more in beight and less than 3 ln. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 0.11 to 6 ml in heicht.
				Hash - All hasharows (non-secola) stants, nanowijasa
11.				of size, and woody plants less than 3.28 ft tall
12.				Woody Vines - AL woody vines greater than 3.28 ft in height.
	47	= Total Cover		
Woody Vine Stratum: (Plot size: 30)				
1.				
		Ì		Hydrophytic
4.		Ì		Present? Yes X No
5.				I
	•	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)	varalia sheel.)			

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US Army Corps of Engineers

Eastern Mountain and Plecmont - Version 2.0

Eastern Mountains and Piedmont - Version 2.0

Eastern Mountains and Pledmont - Version 2.0 15 Yes No X Sampling Point Remarks Indicators for Problematic Hydric Solis³: Piedroori Foodpain Solis (F19) (MLIAA 134, 147) Very Shallow Dark Surface (TF12) Other (Esplain in Remarks) ³Indicators of hydrophylic vegetation and welland hydrobgy must be present, urdess disturbed or problematic. ²Location: PL= Pore Lining, M=Matri 2 cm fluck (A10) (MLRA 1A7) Coast Prairie Redox (A16) Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of Indicators,) (MLRA 147, 148) Hydric Soll Present? Texture ham ham Color (motst) % Type¹ Loc² Dark Surface, (ST) — Polynale Bown Surface (Sg) (ML PA 147, 148) — Thin Loancy Glayed Mattic (F2) — Learny Glayed Mattic (F2) — Bosind Mattic (F2) — Redox Dark Surface (F2) — Redox Dark Surface (F2) — Redox Dark Surface (F3) — Redox Dark Surface (F3) — Redox Dark Surface (F3) — Redox Dark Surface (F3) — Redox Dark Surface (F3) — Redox Dark Surface (F3) — Redox Patter (F3) (MLPA 158, 122) — Padamon Foucpain (SS) (MLPA 153, 142) — Red Parent Mandal (F2) (MLPA 127, 142) ¹1<u>ppe: C=Concentrer</u>ion, D=Deplejion, Ru+=Reduced Meint, MS=Hasted Sand Grains. hydric Soli Indicators: Redox Features Color (moiss) 🕺 8 10YR 2/2 100 Matrix 2.5Y 4/3 strictive Layer (if observed): Hiatosol (A1) Hiato Epipedon (A2) Black Histo (A3) Hydrogen Sulfide (A4) Stratified Layoers (A5) US Army Corps of Engineers Type: Depth (inches): 0-0.5 (inchea) 0.5-12 Depth nerks: SOIL

Slope (%): tum: WGS84 000 532, T10N, R2W : none Sko 90.719178 Datum: NWI classification: No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X No (ff needed, axplain any answars in Remarks.) 2 2 SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc. Yes X. -90,719179 Local Refer (conceve, convex, none); Section, Township, Ranger Is the Sampled Area within a Wettand? 40.648572 Long: Yes X significantly disturbed? _____naturally problematic? subsector (created and constrained and constra 2 2 2 Let: × × × . or Hydrology ĝ LRRN

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Are Vegetation

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?

emarks:

HYDROLOGY Secondant hidelion. Primary Indexien (referen: Secondant hidelion. Primary Indexien (referen: Secondant hidelion. Primary Indexien (referen: Secondant hidelion. Survey relevance Secondant hidelion.	Vestimation of the second	Then Aquatic Plant (19:14) Hydroperis Subled Color (13) Urbydroperis Subled Color (13) Decodered Han (14) Presences of ProJonal Ann (12) Presences of ProJonal Ann (12) The Mack Subled Ann (12) Depth (functions): Depth (functions): H arreliable:						HYDROLOGY Welland Hydrology Indic				
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Privatore Subs Corx (c1) X X - Outcase Fusher Subs Corx (c1) - X X - Outcase Fusher Subs (c3) - X X - Record from Factors and Factors (c3) - X X - Record from Factors (c1) - X Add fragger (E3) - Constraint (c4) subs (c3)	Wetered Hydroxee	x x x x x x x x x x x x x x x x x x x	x vert Hydrode	x x x x x x x x x x x x x x x x x x x	× V V V V V V V V V V V V V V V V V V V	x x x x x x x x x x x x x x x x x x x	x	Surface Waler (A1)		True /	kquatic Planta (B14)	Spersely Vegelated Concave Surface (B8)
X Outdated Netheral Series (CN) (2) — Presenses on LV/og Tools (CS) — Presense of Neckosit free (CS) — Presenses of Neckosit free (CS) (3) — Presenses of Neckosit free (CS) (4) — Other (Explain in Namesta) (5) — Other (Explain in Namesta) (6) — Other (Explain in Namesta) (7) Yes (7) Yes (7) No (7) No (10) No (11) No	Mwdand Hydrold	Wedland Hydrold	Notes the second	And the second s	Mathematical Action of the second sec		Volume 1 August 1 Aug	High Water Table (A2)		hdda H	gen Suitide Odor (C1)	1
23 Presente of Rodones than (C4) 29 The mean if montany in the Super	Weitand Hydrolo	Wetland Hydrole	Value of Hydrode	Market Harrison	New York Control of Co	Make land the second seco	Methand Hydrole			X Onidaz	ad Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
(2) Recent Iner Reduction in Tand Scale (CR) (4) — (5) — (10) <td>Weten of the second sec</td> <td>Wwatan di Hydrote</td> <td>Wutand Hydrote</td> <td>weight of the second seco</td> <td>Median di Hydrote</td> <td>Margin of Hydrode</td> <td>A definition of the second sec</td> <td>Water Marks (B1)</td> <td></td> <td>Prese</td> <td>nos of Reduced Iron (C4)</td> <td>Dry-Season Water Table (C2)</td>	Weten of the second sec	Wwatan di Hydrote	Wutand Hydrote	weight of the second seco	Median di Hydrote	Margin of Hydrode	A definition of the second sec	Water Marks (B1)		Prese	nos of Reduced Iron (C4)	Dry-Season Water Table (C2)
The Mack Surders (C) The Mack Surders (C) Actail Integrat (Explain in Namesta)	watand Hydrole	Wednesd Hydrod	Waltant Hydrodo	Wedland Hydrole	Watant Hydrote	Notes that the second s		Sedmeni Depoets (B2)		Racen	t Inn Reducton in Tilled Solis (C6)	Crayflish Burrows (C8)
4)	Walland Hydrodo	Waten of Hydrote	Vate of the second	Multiple Control Contr	National Action of the second se	Vasiant Hydrode	Method in the second seco	Drift Deposits (B3)		Ę	Auck Surface (C7)	Saturation Visible on Aartel Imagery (C8)
Audia Traggery (32)	All Hydrode	Vestand Hydroto	Wastand Hydroto	Walland Hydroto	Wetland Hydrold	Marine Hitcher	Martin Harris	Algel Met or Crust (B4)		Other	(Explain in Remarks)	Sturred or Stressed Plants (D1)
e (99) e (99) Yes No X Depth (Inches): Mediand Hydrole Yes X No Depth (Inches): B Yes X	Watland Hydroto	Waltand Hydrote	Wate nd Hydrodo	Waland Hydrote	Watand Hydroto	verse vers		Iron Deposits (B5)				Geomorphic Position (DZ)
e (89)	Watand Hydrolo	ses X	Watand Hydrolo	Watand Hydroto	Walland Hydroto	Vois Vois	Vester and Hydrox	Inundation Visible on Aer	Ald Tringgery (137)			Shallow Aquilard (D3)
Yes No X Desth (nchas): Walta nd Hydrolo Yes No Desth (nchas): Walta nd Hydrolo Yes X No Desth (nchas): 9 Yes X	Waltand Hydroto	Watland Hydroto	X es	Wajtand Hydroto Yea	Watend Hydrolo	Weiland Hydroto	Weish Hydrodo	Water-Steined Leaves (i	(68			Mircolopographic Relat (D4)
Yes No X Deșth (niches): Yes No X Deșth (niches): Yes X No Deșth (niches): 9								Aquatic Fauna (813)				FAC-Neutral Test (D5)
Yes No X Depth (Inches): Yes No X Depth (Inches): Yes X No Depth (Inches): 9								Field Observations:				
Yes No X Depth (Inches):								Surface Water Present?	Yes		Depth (inches):	
Yes X No Depth (Inches): 9 Yes X	Yes X	Yes	Yos X	×	Y68	×	×	Water Table Present?	Yes	× w	Depth (Inches):	Welland Hydrology Present?
(includes capititary fringe)	noutose septem rimpe) Describe Recorded Data (streem parge, montoring welt, aestal photos, previous inspections), if available:	(nodiciós spillery timpo) Describe Recorded Data (useam parge, monitoring welt, aerial photos, previous trapections), if available:	insubities stellar vi imped Describe Recorded Data (stream pauge, montioring wet, aetai photos, provious inspections) if available:	(nodiciós spolleny timpo) Describe Recorded Data (striam gauge, montochig welt, aetial photos, previous laspediens), if available: Remette:	(noticios spatieur) timpe) Describe Recorded Data (stream gauge, montoring welt, aetal photos, previous tespections), if available: Remarks:	(nodote cipilery filmpo) Describe Recorded Data (dueam gauge, monitoring welt, aerial photos, provicus l'ispections) if available: Remerke:	Incubies operative filmpol Describe Recorded Data (glutem pauge, montlocht) welt, aerial pholice, previous trapeditions), if availables: Remerka:	Saturation Present?	Yes X	₽	Depth (inches): 9	×
	bescribe Recorded Data (stream gauge, monitoring weit, aerial phoios, prévious inspections). If available:	Describe Recorded Data (stream gauge, monitoring welt, aerial photos, previous trapectors). If available:	Describe Recorded Data (dueem pauge, monitoring wet, aerial photics, previous inspections) if available:	Describe Recorded Data (stream gauge, montoring welt, aetist photos, previous inspections) if available: Remeths:	Describe Recorded Data (dueam pauge, montpring welt, aetial photos, previous litispections) if analiside: Remarke:	Describe Recorded Data (dreem gauge, montoring welk, aedial photos, previous linspections) if divalisher: Remarke:	Describe Recorded Data (driesmic pauge, monitoring well, aetal photos, provious fraspections). If anallable: Remarka:	(includes capitlary (ringe)				
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C&yCounty: Madison Twp., Columbiana Co. Sampling Dale: April 30, 2015 State: OH Sampling Point: SP-18 South Field Energy Interconnection Facilities Tetra Tech B. Slaby

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Landform (hilisiope, temece, etc.):

Applcant/Owner. Į

Investigelor(s): Project/Site:

Subregion (LRR or MLRA):

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

11

Eastern Mountain and Piedmont - Version 2.0

Approximation Approximation V V V Fiber Fiber Fiber Image: Second		Dominant	Indicator	Dominance Test worksheet:	
Total Cover Total Co	% Cover 40	Y Y	Sistus FAC	Number of Dominant Species That are OBL, FACW, or FAC:	4 (A)
Total Correct Total				Total Number of Dominant Species Across Al Strats:	
= Total Cover = Tot	iii	Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	
= Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct = Total Correct				idex worksheet: % Cover of:	
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= Total Cover					ovite supporting
≺ FACW N N N PACS N PACS N N PACS N PACS N N PACS N N PACS N N N N A N A N N N N N N N N N N N N N N N N N N N N N N N N N N N A FACU N N N N N N N N N N N N N N N </td <td>ii</td> <td>Total Cover</td> <td></td> <td>data in Remarks or on a separa Problematic Hydrophytic Vegelatio</td> <td>ile sheel) on' (Explain)</td>	ii	Total Cover		data in Remarks or on a separa Problematic Hydrophytic Vegelatio	ile sheel) on' (Explain)
× FACW N N PACU N 08L 08L I Total Correct 1 1 I Total Correct 1 1	80	۲	FACW	1 Indicators of hydric soil and wettand hyd	droborr must
	9 8		FACW	be present, unless disturbed or problema	tio.
N N Image: Normal Construction FACU Image: Normal Construction Image: Normal Construction Image: Normal Construction Image: Normal Construction	₽₽	z	OBL	Tree - Woody plants, excluding vires, 3 i	in. (7.6 cm) or
= Total Cover	~ - °	z z	FACU	more in dameter at treast mergin (Lich). Sapling - Woody plants, excluding wood	regendees of neight. by vines, aproximately 20 ft
= Total Core				(6 m) or more in height and less than 3 if Shrub - Woody plants, excluding woody	n. (7.5 cm) DBH. vines, eproximalely 3 lo 20
= Total Cover				Herb - All herbaceous (non-woody) piant	b, regardiess
= Total Coree				of size, and woody plants less than 3.26 Woody Vines - Al woody vines greater t	n tall. than 3.28 fl in height.
= Total Cover		Total Cove			
×Total Cover				Nectorshutic	
* Total Corer					
or a soparate sheet.)	İİ	Total Cover			1
	ate sheet)				
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				Contract Special 5 Special 5 s = 10 kg Cover s = 10 kg Cover n s = 10 kg Cover n	Domitanter Tativo Domitanter Tativo Speciesi Status Number of Domitant Filo Number of Domitant Filo Preval of Domitant Preval of Domitant Filos of Excontrol Filos Construct Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontrol Filos of Excontro Filos of Excontrol Filos of Ex

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Remarks				Unbg. M=Malrix.	Indicators for Problematic Hydric Solis ² : 2 cm Muck (A10) (MLRA 147)	edox (A16) 8)	plain Soils (F19) 7)	Very Shalkow Dark Surface (TF12) Other (Evolution in Permates)		Indicators of hydrophydo vegetation and welland hydrobgy must be present,	uniess disturbed or problematic.		7 Yes X No	
Depth Maidtx Redox Features (Inches) Coder (model) % Type ¹ Loc ² Texture	clawfroam	dayfoam	clayfloern	² Location: PL= Pore Linkng, M=Melrix.	Indicators for Problematic Hydric 2 cm Muck (A10) (MLRA 147)	Coast Preirie Redox (A15) (MLRA 147, 148)	Piedmonl Floodplain Soils (F19) (MLRA 136, 147)	Very Shallow Dark Surface (³ indicators of hydrop welland hydrobgy	unless disturbed		Hydric Soll Present?	
[oc]		MPL	MPL.			[8]				÷	_			
ures Type ¹		v	υ) (MLRA 147,1 24147, 148)			2) (LRR N.	4 138, 122) 19) (MLRA 143	ILRA 127, 147			
Redox Features % T		5	2	d Sand Gra	_	Surface (SB e (S9) (MLF	atrik (F2) F3)	ice (F6) riere (E7)	ns (F8) Masses (F1	F13) (MLFU ain Solls (F	1al (F21) (N			
Color (molst)		5YR 3/4	5YR 4/6	ced Matrix, MS=Maske	Dark Surface (S7)	Polyvatue Betow Surface (SB) (MLRA 147, 148) Thin Dark Surface (S9) (MLRA147, 148)	Loamy Glayed Matrix (F2) X Depleted Matrix (F3)	Redox Dark Surface (F6)	Redox Depressions (F8) Inon-Mangenese Masses (F12) (LRR N.	MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Psedmont Frootplein Solls (F19) (MLRA 148)	Red Perent Material (F21) (MLRA 127, 147)			
*	Ş	3 8	8	RM=Redu										
Matrix Cotor (mots!)	10YR 341	2.5Y 4/1	2.57 41	Trper: C=Concentration, D=Dopbilion, RN=Restroad Matrix, MS=Masted Sard Grains	cators:)	don (A2) (A3)	ulficie (A4) yeas (A5)	2 cm Muck (A10) (LRR N)	Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N,	MLRA 147, 148) Sandy Gieyed Metrix (S4) Sendy Redox (S5)	lrix (S6)	r (if observed):	38);	
Depth (inches)	2	3	9-14	Type: C=Concer	Hydric Soli Indicators: Histosol (A1)	Histic Epipedon (A2) Black Histic (A3)	Hydrogen Sulfide (A4) Strattfed Layers (A5)	2 cm Muck (Thick Dark 5 Sandy Muck	NLRA 147, 148) Sandy Gleyed Metri Sendy Redox (SS)	Stripped Malrix (S6)	Restrictive Layer (if observed): Type:	Depth (inches):	Romarts.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region

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Projectisties <u>Sorth Rick Excrete Intrrconnection Intellity</u> Cuycouny. <u>Macdisson Turp Loumpianes</u> Sonang Date: 514 15 Appearations. Tehroffeed Interstrations: <u>LANKE Soryte</u> , Section, Township, Ronge, 532, TLON, 22W, Base (19, 2001), 22W, 2002, 2003, 2003, 2003, 2003, 2003, 2003, 2003, 2003, 2004,	Are "Normal Clicumstances" presente 185 🔨 No
Viconneechien โลยไปฟ้า ClayCount Section Tr Local reher (c. Castroctron Silt ไปอิศาตุ (et a	ydrology significantly disturbed? ydrology naturally problemalic?
Projecusies- <u>Senth Rickl Encrys</u> Intr <i>r Learn ection</i> Facility City County: Machinan Tupp EalunnhauneSampling Applicantomeet: <u>Tehroffech</u> Same: <u>AH</u> Sampli Landom (nillskop emace. etc.): Subegion (RR or M. 1807. <u>ECH NICY</u> Lat. <u>UN UFT211</u> Local rehel (concere. convex. mont). <u>2</u> Subegion (RR or M. 1807. <u>Chilp</u>) in <u>Carbinetran Silver Bennetranton</u> (Long. <u>532.</u>). <u>TION</u> <u>P</u> Sam Map. Unit hame. <u>CPOL. ECHIPPT</u> Lat. <u>UN UFT211</u> Local rehel (concere. convex. mont). San Map. Unit hame. <u>CPOL. ECHIPPT</u> 1. at. <u>UN UFT211</u> vos. <u>Experiments Tappes</u> . NW1 dassilication: Are chinalic i trystologic conditions on the sile typical for this time of year? Ves. <u>X</u> NO. <u>(II</u> no. explorin in Rematics).	Are Vegetation Soil or Hydrology stortificantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic?

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

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Sampling Point: 13	Dominiance Test worksheet: Number of Dominiant Species That Are OBL, FACW, or FAC: (A)	Total Number of Dominani Spackes Across All Strata: [B]	Percent of Dominant Species VOO (AVB) That Are OBL, FACW, or FAC: VOO (AVB)	Prevalence Index worksheet: Total & Const of. Multiply by:	08L species x1= FACW species x2=	8	<u>ير</u>	Prevalence Index = B/A =	Hydrophytic Vegelation Indicators:	2 - Pominance Test is >50%	3 - Prevalence Index is \$3.0°	4 - Morphological Adaptations' (Provido supporting	Problematic Hydrophytic Vegetation ¹ (Explain)	holicators of trydric soll and wetland hydrology musi the ordered indexe districted or notificanatic	(Tree – Woody plants, excluding whes, 3 th. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	Septing/Shrub – Woody plants, excluding vines, less than 3 In. DBH and greater than or equel to 3.28 ft (1 m) tail.	Harb – All herbaceous (non-woody) plants, regardless of size, and woodv plants less than 3.28 ft fall.	Woody vine – All woody vines greater than 3.28 ft in heiditi.		Hydrophytic Vegetalion	Present? Yes <u>No</u> No	
VEGETATION (Four Strata) ~ Use scientific names of plants.	Tree Stratum (Pot size: 30 ¹) Account of Sporter Stratum	2	6	0	SadingShod Stratum (Pot size, 15)				۵۰	8	9	50% of total cover20% of total cover	Heero Stratum (Plot stars: S')	P Caprinsis IS N nus Prinzus IS N	Sarbarra Julgaris 3 N F	s. balluwa aspératuwa 2 N. 08L	8	11	ទី		6	= Total Cover 50% of lotal cover:20% of total cover	Remarks: (include photo numbors have or on a separate street)

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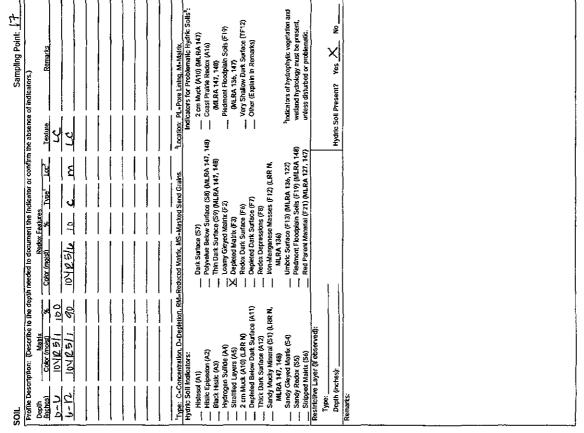
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oint: 47	Projectistie South Tield Energy Interconnection Facility City/County: Columptizity Co. sampling Date: 5/4/15 ApplicantOwner: Jatra Tech Applicantomer: Jatra Tech Count Townerh, Banner: 532, 710 N., R.2.W
	Local relief (concrete, conversion, relight, rel
	Are "Norm: (If needed.
	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No X is the Sampled Area Yos No X within a Watland? Yos No X within a Watland? Yos No X within a Watland?
Hydric Solls ¹ : 147) 6)	
als (F19)	(s 3-2
ice (TF12)	
2	Welfand Hydrology Indicetors: 2econdary Indicetors: 2econdary Indicetors: 2econdary Indicetors:
	ants (B14)
regetation and e present	High Water Table (A2) Hydrogen Sulfdø Odor (C1) Carlage Patierns (B10) Samarien (A2) Carldrad Rehersonheres or I Minn Roots (C2) Moss Trim Lines (B16)
e proceso ematico.	Presence of Reduced Iron (C4)
;	— Sediment Deposits (B2) — Recent from Reduction or 11led Solis (Cc) usyfish Burrows (L3) Drift (Deposits (B3) Thin Muck Surface (C1) Saluration Visible on Aerial Imogery (C9)
- P	(B4) Other (Explain in Remarks)
	Iron Deposits (B5) Ceomorphic Position (D2) Ceomorphic Position (D2) Inuccelence viewhere an Andrei Imaxoniu (B2) Shallow Auxiliand (D3)
	[[
	Aquatic F auna (B13) FAC-Neutral Test (D5)
	Field Observations: Surface Water Present? Yes No Depth (inches):
	Yes No Depth (inches):
	Saturation Present? Yes No Depth (Inchos): Wetland Hydrology Present? Yes No A Provided Staturation Present? Yes No A Provided Staturation Stream States Andrew Stream Provided States and States Andrew Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Provided Stream Stream Provided Stream Stream Provided Stream Stream Provided Stream Provided Stream Stream Provided Stream Stream Provided Stream Provided Stream Provided Stream Provided Stream Provided Stream Provided Stream Stream Provided Stream Provided Stream Provided Stream Stream Provided Stream
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<u> </u>	Remotks:

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Sampling Point. [8 Tenue at indicators.) Tenue Remets.	¹ Location: PL-Pcre Lefrq, M-Matth. ¹ Location: Plant M-Matth. 2 cm Must (M10) (MLRA 147) 2 cm Must (M10) (MLRA 147) 148) Coast Problematic Hydric Solis": 2 cm Must (M10) (MLRA 147) Pledmont (Inophlant Rolds (F19) Pledmont Floodplant Solis (F19) - Very Shatow Dark Sufface (F12) - Very Sufface of 0 r problematic.	Hydric Soil Present? Yes No X
OIL Perfile Description: (Describe to the depth meeded to document the Indicator or confirm the absence of indicators) Perfile Description: (Describe to the depth meeded to document the Indicators) Depth Mathy Co- U 101位 413 10D 0- U 101位 413 15 10D 0- U 101位 413 35 101/014 55 C M1 C.S. 101位 413 15 100 0- U 101位 413 35 101/014 15 C M1 C.S.	Reduced Maths, MS-Masked Sand Greins, ¹ Loc Dark Surface (57) — Dark Surface (57) (MLRA 147, 148) — Dark Surface (59) (MLRA 147, 148) — Loamy Gleyed Maths (72) — Loamy Gleyed Maths (72) — Redox Surface (73) — Redox Boursaces (75) — Redox Denesations (78) — Redox Denesations (78) — Redox Denesations (78) — Redox Denesations (79) — Redox Denesations (79) — Redox Denesations (79) — Redox Denesations (79) — Redox Denesations (71) — Redox Denesat	
SOIL Perfolio Description: (Describe to the depting the depting the sector must be a sector density and the sector depting the sector of the sector depting the sect	Type: C - Concentration. Depletion. RN=Reduced Mastix, MS=Masked Sand Greits: Hydros Soil Indicators: Histoso (A1) Dark Surface (S1) Histoso (A1) Histoso (A1) Dark Surface (S1) Dark Surface (S3) MLR, A1, 1 Histoso (A1) Populo Bohova Under (S9) MLR, A1, 1 Dark Surface (S1) MLR, A1, 1 Histoso (A1) Populo Bohova Under (S3) Dark Surface (S1) MLR, A1, 1 Dark Surface (S1) Dark Surface (Restrictive Layer (r observed). Type: Depth (uches):

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Sampling Point: 18	Doministrice Test worksheet: Number of Doministry Species: Number of Doministry, or FAC: Total Number of Doministry Species Across All Strats: (B)	Precent of Dominant Species That Are OBL, FACW, or FAC: (JB)	lex worksheet: wer of:	FACW species $15 \times 2 = 30$ FAC species $10 \times 3 = 120$ FACU species $15 \times 4 = 2,00$	UPL species 0 Column Totals: 130	Prevalence Index - 8/A - 2/5	 1 - Rapid Test for Hydrophylic Vegetation 2 - Dominance Test is >50% 	 3 - Prevalence Index is \$3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 	data In Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation' (Exptain)	Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.	Definitions of Four Vegetation Strats:	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	Sapting/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 R (1 m) tail.	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail. Woody when 2. all woody wince measure harr 2 are i.e.	height.		Hydrophytic	Prescrit? Yes No X		
nes of plants.	Alsolute Dominant Indicator A Cover Species Status 25 Y FILL 10 I C		355 - Total Cover 7 20% of total cover: 7	UD 7 NE				16 - Total Cover 20% of total cover. 15	4-		d z			90 - Total Cover 18)) (- Total Cover 20% of total cover:	٤.)	
VEGETATION (Four Strate) - Use scientific names of plants.	Tees Straiture (Frod stase, 200)		750% of stati zover. 17	i	Caryo Nato	č.		60% of tatal cover. 30		Symphyornchum sp. Tarayacum officinate	6 VIDLA STOTENTIS	6	8. 9. 10.	11 50% of total cover: <u>45</u>	Woody Vine Stratum (Plot size: 00)	2		50% of total cover.	Remarks. (Include phole numbers new or on a separate sheet.)	

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region Mailcon Tup/

sampling point locations, transects, important features, etc. chour SUMMARY OF FINDINGS - Attach site map

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A Yes X No		Secondery Inductions (milnimum of two required) Surface Soil Crecks (Bol)	 Sparsety Vegelated Concave Surface (86) Darlange Parients (810) Mooss Tinn Lines (814) Mooss Tinn Lines (814) Day-season Waart Table (C2) Crayfish Burrows (C3) Caylish Burrows (C3) Saltration Visble on Actil Airnageny (C9) Saltration Visble on Actil Airnageny (C9) Shatton Aquiland (02) Shatton Aquiland (03) Monoroppik Relian (04) 	Wetland Hydrology Present? Yes 🗶 No	
Yes X No Is the Sampled Area Ves No Ves No Within a Wetland?		theck at that apply)	 Thre Aqualic Plants (814) Hydrogen Stuffele Odor (C1) Dokizlead Rhizcopheres on Living Rools (C3) Oxidized Rhizcopheres on Living Rools (C4) Presence of Reduced I kon (C4) Recent tron Reduction in Tilled Solis (C4) Thin Muck Surface (C7) Other (Explain in Remarks) 	Depth (aches): 1 " Depth (aches): 0 # Depth (aches): 0 # Depth (aches): 0 # Metlan	
Hydrophylic Vegelalion Present? Yes 2 Hydro Soli Present? Yes 4 Wetland Hydrology Present? Yes 4	Remark: PEM IN W-13 SPL3-3	HYDROLOGY Weband Hydrology Inducators: Primary Inducators (mibmum of one & renured: check at that apply)	X Surface Water (A1) X Hight Water Table (A2) X Saturation (A3) Water Marris (B1) 		Remarks

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Dominance Test worksheet: Number of Dominant Species Thai Are OBL, FACW, or FAC: (A)	Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACM, or FAC. (AR)	Prevalence Index worksheet: Total & Coner of: Multipy Dr. OBL species x1 = FACW species x2 = FACU species x5 = UPL species x5 = UPL species x6 = UPL	Prevalence Indox - B/A - Hydrophytic Vogetation indicators: A 1 - Rankd Test for Hydrophytic Vogetation - 2 - Donhnance Test Is: 2003 - 3 - Prevalence Index Is 50.0° - 4 - Morphological Adaptations' (Provide supporting the Amorphological Adaptations' (Provide supporting - Problematic Hydrophytic Vogetation' (Explain) - Problematic Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthologics Vogetation' Hydrophytic Vogetation' (Forthol	Septimp/Shrub – Woodyplants, excluding vitnes, less than 3 h. DBH and greater than or equal to 3.28 ft (1 m) tail. Web – All hebasous (non-woody) plants, regardless of size, and woodybants less than 3.28 ft fail. Woody vitne – All woody vitnes greater than 3.28 h ft height.	Hydrochryte Vogenition Present? Yes X Ivo
Dominent Indicator Species? Status		a fold cover		20% of lotal cover	1)
Absolute Acover.				20%	and control of the co
Tiee Sualum (Mot size: 20 ¹) Absolute Domina		7 50% of total cover- 50% of total cover- 1 1	Hens Stratum (Post Star 5 Store of lotal cover. Hens Stratum (Post Star 5 Store 1) - Highter is Strata (Braud) - Antornus Capenard - Antisma Subles Jathans - Antisma Subles Jathans	8 9. 10. 11. Kloody Vine Siratum, (Plot size:)	3

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pil Projecustie: Sorth Tidd Erresp Intremnentian Earling Chybronal Applicantowner: Innestigator(s): <u>Lott Ech</u> Madeison Tug/ Innestigator(s): <u>Lott Ech</u> Applicant/Owner: <u>Firld Erresp Intremnentian</u> Earling Earliegenet(s): <u>Lott Ech</u> Section, Township, Fange. Sales. Innestigator(s): <u>Lott Ech</u> Lott UCAL Section, Township, Fange. Sales. Innestigator(s): <u>Lott Ech</u> Lott UCAL Section, Township, Fange. Sales. Salespon (IRR or NIRA): <u>LPD. N. Pul. Lett UD, UCASBE. Long. Cols. Non etc. Sales. Salespon (IRR or NIRA): <u>LPD. N. Pul. Lett. UD, UCASBE. Long Cols. Non etc. Sales. Are Vegetation Sol. or Hydroboy Significanty daturbed? No. (If nos dotal any a vegetation</u></u>	Hydrophyte Vegeteldun Present Ves Within a Wolfend? Ves Within a Ves Within With a Ves Within With a Ves Within Within a Ves Within A Ves Withi
WETLAND DETERN ProjectSte: <u>South Field Enrycy Intru</u> ApplicanUowner: <u>TertraTech</u> Inwestigabot(s): <u>J.Q.M.A. Say Lo</u> I. andform (Mishop, unterne, etc.). Sumap und Name <u>Cold</u> - <u>Enhylin-Cold</u> Are clamatic i hydrologic conditoris on the site Are clamatic i hydrologic conditoris on the site Are vegetation soil or hydro SUMMARY OF FINDINGS – Attacl	Hydrophydr Vegeteldun Present? Ves No Hydrif Sol Present? Ves No Welland Hydroby Present? Ves No Welland Hydroby Present? Ves No Remarks: Scruub / Shruub Ves No LS 3-4 HYDROLOGY Vesterind Hydroby Present? Ves No LS 3-4 HYDROLOGY Vesterind Hydroby Present? Ves No Surface Water (A1) Surface Water (A1) Hydroby Scruub / Shruub Moder Jathat apold Surface Water (A3) Surface Water (A3) Moder Jabe (A2) Moder Jathat apold Surface Water (A3) Moder Jabe (A2) Moder Jabe (A2) Moder Jabe (A3) Hippenic (B3) Moder Crust (B4) Presence of R Nock Surface Nater (A3) Water Stahed Losse (B3) Moder Crust (B4) Moder Crust (B4) Maget Marks (B1) Moder Stahed Losse (B3) Moder Crust (B4) Maget Marks (B1) Moder Crust (B4) Moder Crust (B4) Maget Marks (B1) Moder Crust (B4) Moder Crust (B4) Maget Table Cause Present? Ves No Mater Table Present? Ves No Mater Table Cause Present? Ves No Mater Table Present? Ves No
sampling Point: 14 Teaure Banatis して して	¹ Cozalleor. Pl. = Pore Lining, M. Matrix. Implications for Proviourmatic Hydric Solis*: Implications for Proviourmatic Hydric Solis*: 148) 2 cm Muck 34, 113, 33, 114, 34, 114, 11
Rest Same Prefile Description: (baserible to the doph needed to document the indicator or confirm the absence of indicators) Depte Matrix Depte Matrix Depte Loc Dot 10 Y Q FIL	Type:: C-Concentration, D-Dispetition, RMA-Reduced Matrix, MS=Masked Sand Grains. Tor Wydfo:: Soil Indicabans: Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Dark Surface (S7) Histors (M) Darked Hold Matrix (F2) Startified Layers (A3) Dark Surface (F7) Startified Layers (A3) Depleted Matrix (F2) Startified Layers (A3) Depleted Matrix (F2) Starty Hustor Minecal (S1) (LRR M) Rector Dark Surface (F7) Sandy Rusci Minecal (S1) (LRR M) Matrix 13) Sandy Rusci Minecal (S1) Rector Dark Surface (F7) Sandy Rusci Minecal (S1) Depleted Dark Surface (F1) Sandy Rusci Minecal (S1) Matrix 13) Sandy Rusci Minecal (S1) Depleted Dark Surface (F1) Sandy Rusci Minecal (S1) Depleted Dark Surface (F1) Sandy Rusci Minecal (S1) Depleted Matrix (F2) Sandy Rusci Minecal (S1) Rector Dark Surface (F1) Sandy Rusci Minecal (S1) Depleted Matrix (F2) Sandy Rusci Minecal (S1) Depleted Matrix (F2) Sandy Rusci Minecal (S1) Depleted Matrix (F2)
SONL Profile Description: (Describe to the de Depth Methy & Indees) Cabrimostil & 0 - U 10 Y 2 F 1, 100 1 - Y 2 0 Y 2 4 1, 90	* Typer: CConcentration, D-Dependention, 14 Hydro: Soli Indications: Histle: Expendent (AD) Histle: Expendent (AD) Histle: Expendent (AD) Histle: Expendent (AD) Sandy Mucky Mineral (SS) Sandy Mucky Mineral (SS) Sandy Mucky Mineral (SS) Pephote Maint (Ss) Proper (Frobes):

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sects, important features, etc. No K

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HYDROLOGY		
Welland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required: check all that apply).	tk all that apply]	— Surface Soll Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	 Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	
	Presence of Reduced fron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction In Titled Solis (C6)	Crayfish Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	 Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (84)	Other (Explain in Remarks)	 Sturted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Invintation Visible on Aerial Imagery (B7)		 Shatkow Aquitard (D3)
Water-Stained Leaves (B9)		 Microtopographic Relie! (D4)
Aquatic Fauna (813)	I	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No X	Depth (Inches):	
Water Table Present? Yes No X	Yes No X Depth (Inches):	>
	1	Wetland Hydrology Present? Yes No 🔨
(incondes vapiliary kinger) Describe Recorded Data (stream gauge, monitoring weil, aerial photos, previous inspections), if available:	well, aerial photos, previous inspections), if ava	Isble:
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Remarks:		

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cors.) Remarks	or: PL-Ptry Linka, M-Matrix, Indicators for Problematic Hydric Solis (* Indicators for Problematic Hydric Solis (* 2 cm Much 147, 149) Much 136, 140 Much 136, 140 Much 136, 141 Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Coller (Explain in Remarks) Coll Present? Yes No X	
the absence of indica		
$\frac{R_{F} Gile Description: [Description: [Description: [Description: [Description: [Description: [Description: [Description:]] Coordination: Coordination 3. Coordination 3. Tore: Loc Texture [Description:]] \frac{0-8}{8-15} \frac{10\sqrt{R} 5/2}{10\sqrt{R} 5/3} \frac{100}{90} \frac{10\sqrt{R} 5/1}{10\sqrt{L}} \frac{10}{10} \frac{C}{D} \frac{M}{LC} \frac{100}{10}$	Type: CConcentration. D-Dependion, RM-Reduced Matrix, MS-Musted Sand Graits 100 Mydric Soil Indecators: Data Surface (S) Mistic Repotent (A) Thin Dark Surface (S) History (A) Data Surface (S) History (A) Data Surface (S) Provision Surface (A) Data Surface (S) Provision Surface (A) Depended Matrix (F2) Provision Surface (A) Depended Matrix (F2) Provision Surface (A) Depended Matrix (F2) Sandy Muccy Mineral (S) Loanny Gerged Matrix (F2) Sandy Rock Surface (S) Umbute Surface (F1) Sandy Rock Sides (A) Loanny Matrix (F2) Sandy Matrix (S6) Provision Surface (F1) Sandy Rock Sides (S) Umbute Surface (F1) Sandy Rock Sides (S) Depended Matrix (S6) Sandy Rock Sides (S) Province (F1) Province (S) Province (F1) Surface (S) Muter A133 Sandy Rock Sides (S) Province (F1) Sandy Ro	
Roffle Description: (Describe to the dep loght) Constants 3 0 - 8 8 - 15 10 4/2 5/2 100 8 - 15 10 4/2 5/3 90	Type: C-Concentration, RM, Hydric Soil (ndbcators: Histors) Histors: Histors: Sandy dock Matrix (Se) Sandy Redox (Ss) Sandy Redox (Ss) Sandy Redox (So) Sandy Redox (So) Sandy Redox (So) Type: Depth (nches): Depth (nches): Depth (nches):	

VEGETATION (Four Strata) – Use scientific names of plants.	imes of p	lants.		Sampling Point: 20
Itee Straum (Plot size: 30')	Absolutia 1 26 Cover	Dominant Species?	indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Domitrant Species Across All Streta: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (AB)
8		Total Cover		Prevalence Index worksheel: Joial & Cover of Multiply by Pairs
SagingSieuto Straitum (Plot size 16)	100		EPUM	
2				140 (N)
Ş.				Prevalence Index - B/A = 2010
7				rywypryste regulator rationals. 1 - Rapid Test for Hydrophylic Vegetation 2 - Dominance Test is >50%.
9	101 -	01 - Total Cover		 3 - Prevalence Index Is s3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
Herb Straitur (Plot sze. 5) 1. Flix Er Kea Priser PINAC oida	8	7	1 04	date in Remarks or on 3 separate sheel) Problematic Hydrophytic Vegetaikon ¹ (Explain)
2. Symphytorichum 50. 3. Clay trance VIRGINICA	20	~2	EBTUL	¹ Indicators of hydric soil and webband hydrology must be present, unless disturbed or problematic.
				Leribinions of Four Vegetation Subta: Tree – Woody plants, excluding Whes 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
				regut. Sapling/Shrub – Woody plants, excluding virves, lees main 3 in. DBH and greater than or equal to 3.28 ft (1
11	20% 01	10% of total cover	2	Herb. – All herbocoors (non-wood) plants, regardless Herb. – All herbocoors (non-wood) plants, regardless at2e, and woody plants less than 3.28 ft tail. Woddy Mna – All woody vines greater than 3.28 ft jh helpitt.
2. 2.				
				Hydrophytic Veressation
50% of total cover:	0% of	 Total Cover 20% of total cover; 		Present? YesVes
Remarks: (Include pholo numbers here or on a selaante sheet).	odi.)			

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WETLAND DETERMINATION DATA FORM - Eastern Mounteins and Pledmont Region vojectstie <u>South Field Entrang</u> Internamine (1971, Fadiil 170, Veliava operandome: <u>Ether Tuke</u> <u>Tukes Association</u> (2011, Many <u>Chilavi)</u> (Conversion, Range: <u>214</u> Nav ZP 15 mesugator(s): <u>Kith Chilavi</u> (<u>Many Chilavi)</u> (<u>Conversion, Range</u> <u>Some. 011</u> Sampling Poum. <u>27-21</u> unession (LRP or Milzy). <u>URN 1214</u> Lat. <u>Locat Telefel (Conversion)</u> (<u>2011, 401, 401, 401, 401, 401, 401, 400</u>) of Map Unit Name: <u>CVC 705 (Flord Find)</u> <u>Stift, 10, 000 u. 41, 173</u> <u>Locat Telefel (concase, comest, none)</u> . <u>(2011, 401 VC</u> <u>Some Map Durit Name: <u>CVC 705 (Flord Find)</u> <u>Stift, 10, 000 u. 41, 173</u> <u>Locat Telefel (concase, comest, none)</u>. <u>(2011, 401 VC</u> <u>Some Map Durit Name: <u>CVC 705 (Flord Find)</u> <u>Stift, 10, 000 u. 411 (51), 514 <u>FGG</u> <u>Man Unit Name: CVC 705 (Flord Find)</u> <u>Some Map Durit Name: CVC 705 (Flord Find)</u> <u>Stift, 10, 000 u. 410 u. 610 u. 2000</u> <u>Man Doutom: (All Concase)</u> <u>Map Durit Name: CVC 705 (Flord Find)</u> <u>Stift (10, 000 u. 411)</u> <u>Locat Telefel (concase, comest, none)</u>. <u>(000 u. 410, 000 m. 2000)</u> <u>Cutorestendom: concase, 10005</u> <u>Man Cutorestendom: concase, 10005</u> <u>Matername</u> <u>CVC 705 (Flord Find)</u> <u>Stift (10, 000 u. 411 (51), 514 <u>FGG</u> <u>Man Cutorestendom: concase</u> <u>Map Unit Name</u> <u>CVC 705 (Flord Find)</u> <u>Stift (10, 000 u. 410 0. 600 u. 600)</u> <u>Man Cutorestendom: concase</u> <u>Map Unit Name</u> <u>CUtorestendom: concase</u> <u>Map Cutorestendom</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Map</u> <u>Matername</u> <u>Map</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u>Matername</u> <u></u></u></u></u></u>	F FINDINGS - Attach site ma etation Present? Yes 4 ant? By Present? Yes 4	HDROLOGY Secondistrication Secondistrication Private Inductions: Environment of the last o

4 - Morphological Adsplations¹ (Provide styporting data in Remarks or on a separate sheet) Tree – Woody plants, excluding whee, 3 in. (7.6 cm) or more in diameter at breast haight (DBH), regardless of height. Herb – Ait herbaceous (non-woody) plants, regardless of size, and woody plants less then 3.28 ft tall. (AB) <u>a</u> Septimp(Struth = Woody plants, excluding vines, less fram 3 in, DBH and greater thest or equal to 3,23 ft (1 m) lat. Woody wine - All woody vines greater than 3.28 ft in height. 6 ¹Indicators of hydric soil and welland hydrology hust be present, unless disturbed of problematic. Definitions of Four Vegetation Strata: ₹ Problematic Hydrophytic Vegetation¹ (Explain) Sampling Point: 50-21 Domination Test workshoot: x1 = Hydrophysic Vegetation indicators: 1 - Rapid Test for Hydrophytic Vegelation 100 5 ×2= ×6= 8 7 ×3* _____ Å, Yee X 2 - Dominance Test is >53% Prevalence Index = 8/A = Number of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Spackes That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total 76 Cover of Totat Number of Dominam Species Across All Strata: Column Totals: FACW species FACU specks Hydrophytic Vegetation Present? OBL spedes UPL spectes FAC species Absolute Denilnarii Indicator 111 a Total Cover 20% of total cover: 22 - Total Cover - Yotal Cover Total Cover = 1 out Cover auts. of topial cover.______2078, of topial cover._____2078, of topial cover.______ 20% of total cover: 20% of total cover: ETATION (Four Strate) - Use scientific names of plants. Ş 20000 wrow \overline{D} <u>9</u>9 50% of total cover. <u>Cite</u> BAD STORTON (POL AZA: 5. 2015 OF 1000 COVER-2013 DOI 1457 VIS E SAILOSTVIS E SAILOSTVICANUM DI CAMARATOR DI CA SYMPORIA MULANUM ADOR C. OUNING C 50% of idal cover. Ingestrute Stratum (Piot siza: 15 50% of total cover. Murteur CATAGUS Lean la Virgirin Cat Desidente Catalitata Europotiem Virgerateur NHAGO GIGANTCA Stratum (Plot size: 30

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Sampling Point: SP-7 Texture streams of trainators of trainators of trainators of trainators of trainators of the second	4.0cellon: PL-Pore Linne, M-Mélik, indicelors for Problematic Hydric Solis ¹ ; 2 cm Muck (A10) (AlLEA 147) (AlLEA 147) (AlLEA 147) (AlLEA 147, 148) (AlLEA 147, 148) (AlLEA 147, 148) (AlLEA 147, 148) (AlLEA 147, 148) (AlLEA 147, 147) (AlLEA 147, 148) (AlLEA 147, 148) (AlLEA 147, 147) (AlLEA 147, 148) (AlLEA 147,	Hydric Soll Present? Yes 1 No
COLL Profile Description: (Describe to the depth needed to document the indicator of confirm the absence of indicators.) Depth (and the second method is a constrained by the second of the indicators.) Depth (and the second method is a constrained by the second of	Yope C-Concertienten Q-Depeteten RM-Retried Sand Grains 4.0 Hydroc Sull Indicators: Dark Surface (S1) Histocol (A1) 4.0 Histocol (A1) Dark Surface (S1) Min.RA 147, 148) Histocol (A1) Dark Surface (S1) 4.0 Hydrogen Suffac (A2) Dony Sull Beach Histor (S2) 4.0 Histocol (A1) Dark Surface (S1) 4.0 Hydrogen Suffac (A3) Dony Sullace (A17, 148) 4.0 Stordled Layers (A3) Dony Graphold Matrix (T2) 4.0 Depleted Below Dark Surface (A11) Depleted Dark Surface (F3) 4.147, 148) Depleted Below Dark Surface (A12) Redox Depressions (F3) 4.0 Sandy Houry Mineral (S1) (LRR N MLRA 137, 148) 4.0 Sandy Below Dark Surface (F3) Depleted Dark Surface (F3) 4.0 Sandy Below Dark Surface (A12) Redox Depressions (F3) 4.0 Sandy Below CS3 MLRA 136, 147, 148, 147, 148) 4.0 Sandy Below Dark Surface (F3) Unther Surface (F3) 4.0 Sandy Below Dark Surface (A12) Redox Depressions (F3) 4.0 Sandy Below Dark (S3) MLRA 136, 147, 148, 147, 148) 4.0 Sandy Below Dark (S4) Unther Surface (F3) 4.0 Sandy Below CS3 Unther Surface (F3)	
Soll Profile Description: (Describe to the dep Depth (10 2) 2) 4) 1 40 (1-2 1) 10 2 3/2 4/2 40 2-12 2.57 4) 1 40	Type: C-Concentration, D-Depleton, RM Hydric soli hadrokors: Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Condentors: Starty Hath Condentors: Sandy Hout's Sumbora (S1) CRR M Sandy Redox (S2) Sandy Redox (S3) Strippoel Matrix (S4) Strippoel Matrix (S4)	Depth (Accies).

	Mumber of Dominant Species 7 That Are OBL, FACW, or FACS (A) That Are OBL, FACW, or FACS (A) That Are OBL, FACW, or FACS (A) Percent of Dominant Species (B) That Are OBL, FACW, or FACS (B)	Multisk by:	Prevalence Index = BIA - Hydrophylic Vegetation Evaluation	0.0.0. Transmission in yorking and welland hydrology must POINT helicitors of hydric soil and welland hydrology must be present, uness statistical or problemalic. Definitions of Four Vegatation Strata. The - Woody Mans, accurding vires, 3 h. (A cm) or height.	SeptingShrub- vloody plants, excluding vloes, less SeptingShrub- vloody plants, excluding vloes, less mi) tall mi) tall mi) tall Model Model vloes l cover Present? Yes X No 20% of total cover	
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Sampling Poln: <u>11</u> ine absence of indicators.) Terbue Restauts LC	1.0001001. EL-Pere LINK, M-MBIDX.		unless disturbed of proceanalls. Hydric Soli Present? Yes <u>X</u> No	
SOIL Frontile Description: (Describe to the depth meeted to document the indicators or confirm the absence of indicators). Depth Matrix & Color (moleil) * Type 100 Indres) Const (moleil) * Color (moleil) * Type 100 Indres) 101/124/12 100 In1/12 100 101/124/12 20 0.00 100/124/14 20 0.00 0.00 0.00	Type: C.Connination, D=Diopletion, RM=Reduced Madrix, MS=Macked Stand Grains	 Dark Surface (S7) Polyvatue Below Surface (S9) (MLRA 147, 148) Tahi Dark Surface (S9) (MLRA 147, 148) Lloamy Gleyed Matik (F2) Zoamy Gleyed Matik (F2) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Dark Surface (F3) Icon-Manganese Masses (F12) (LRR M, MLRA 136, 122) Lunkus Surface (F3) (MLRA 136, 122) Unnkus Surface (F3) (MLRA 136, 132) 		
SOIL From Description: Describe to the dep Depth Mainty & Dech Case (most) & Dech Dy V/2 4/2 (DD 0-10 101/2 4/2 (DD	Type: C.Concentration, D=Dependent, RM	hydric soll indicators: Histic Explexion (x2) Histic Explexion (x2) Black Histic (x3) Black Histic (x3) Black Histic (x4) Trick Totak Sufface (x11) Trick Totak Sufface (x11) Trick Totak Sufface (x11) Trick Totak Sufface (x12) Trick Totak Sufface (x12) Trick Totak Sufface (x13) Trick Totak Sufface (x13) Sufface (x13) Trick Totak Sufface (x13) Trick Totak	Supped Martik (So) Restrictive Layer (if observed): Type: Depth (inches):	Kemarks:

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WETLAND DETERMINATION DATA FORM – Eastern Mountains and Pledmont Region جدالمیں Creek Tup/

g Date: 5 4 15 ling Point 23			Datum: LUGSRY		\$	Yes A No	arks.)
ycllow Creek Two? <u>columbanka Co</u> Sampling Date: 5/4/15 state: OH _ sampling Pon6223	Section, Township, Range: 530, 79N, R2W	e, convex, none):	Long: -80,715321	soil Map unit Name: GC Coshocton Site Login , 6 to 15 percent sloped. NWI classification:	Are climatic / hydrologic conditions on the site hypical for this time of year? Yes Z No (if no. explain in Remarks.)	Are "Normal Circumstances" present? Yes No	(If necded, explain any answers in Remarks.)
	Section, Townsh	Local relief (concave, convex, none):	Lat: 40-640799	LOOM, 16 to 15 percent .	al for this time of year? Yes Y	Are Vegetskon Soli or Hydrokogy significantly diskubed?	Are Vegetation Soil, or Hydrology naturally problematic?
Energy Intercon	ayre	etc.):	LEP NI24	Joshachin Silt	ltions on the site typic	or Hydrology.	, or Hydrology
Projecusite: <u>Suth Tielk Energy</u> Aralicantrownet: Tetra Tech	Investigator(s): LOUNG SAYVE	Landform (hillslope, terrace, etc.):	ON (LRR ON MLRA):	p Unit Name: QC (halle / hydrologic cond	peterkon Soli	jetation Soil_
Project Armica	Invesili	Landio	Subreg	Soli Ma	Are clin	Are Ve	Are Ve

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

Hydrophylic Vegetation Present? Hydric Soll Present? Wetland Hydrology Present?	Yes No	Is the Sampled Area within a Wetland?	Area Yes No X
Remarks pasture / Lown	Ит		
L-EdS S7			
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (Trihimum of one is required: check all Ihai apply)	s required: check all that apoly		Secondary Indications (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Vlants (B14)	Sparsely Vegetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C1)	ide Odor (C1)	I
 Saturation (A3) Water Marks (B1) 	Presence of R	Oxidized Rhizospheres on Living Kools (C3) Presence of Reduced Iron (C4)	is (c.3) Moss IIIm Lines to lo? Dry-Season Water Table (C2)
Sedament Deposits (B2)	Recent Iron R	Recent Iron Reduction in Titled Solis (C6)	
Drift Deposits (83) Merid Markor Cruist (84)	Thin Muck Surface (C7) Chinar 15 votatio in Remarket	face (C7) vin Stematre)	— Saturation Visible on Aerial Imagery (C9) Structured or Stressed Plants (D1)
kon Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	ery (B7)		Shallow Aquitard (D3)
 Water-Stained Leaves (B9) Acualtic Fauna (B13) 			— Microlopographic Relief (D4) FAC-Neutral Test (D5)
Fletd Observations:			
Surface Water Present? Yes	No X Depth (Inches):		
Water Table Present? Yes	1.		
Saturation Present? Yes	No X Depth (Inchas):	s): We	Welland Hydrology Present? Yes No 🔨
Describe Recorded Data (stream gauge, monitoring werl, aerlat pholos, previous inspections). If available	ge, monitoring well, aerlat phoi	os, previous inspections), H available.
Remarks;			

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Sampling Point: 23	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)	Total Number of Dominant Species Actors All Strata: (B)	Percent of Dominant Species That Are OBL, FACW, or FAC: (AB)	Prevalence Index worksheet: Tadel % Cover of: Multhy br OBL species 1 x1= 0 FACN spottes 2 x13= 1	FACU spectes $3T = x_4 = 396$ UPL spectes $0 = x_5 = 397$ column Totas: 100 (N) 397 (B) Prevelence Index = B(A = 3.97	Hydrophydro Vegetalion Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Drominance Test is 50%.	 3 - Prevalence Index Is <3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 	data in Remarks of on a separate sheet) Problematic Hydrophylic Vegetation ¹ (Explain)	Indeators of hyperc soil and weltand hydrobgy must be present, unless disturbed or problematic.	commune or row regression status. Thes - Woody plants, excituling views, Sin, (7.6 cm) or more in diameter at breast height (DBH), regardess of height.	Sapling/Shrub – Woody plans, excluding vines, loss than 3 m. DBH and greater than or equal to 3.28 ft (1 m) tail.	Herb – Al herbaceous (non-wood) plants, regardless of size, and woody plants less than 3.28 ft ian. Woody thne – Al woody wirds greeter than 3.28 ft in height.		Present? Yes No A	
olants.	Dominari Indicator Species2 Status			- Tolal Cover 20% of total cover			= Total Covor	V FINU	Z Z RILL	N		00 * Total Cover 20% of lotal cover. 20		= Total Cover 20% of total cover	
: names of p	Absolute % Cover			20% of				10	50	n					le sheel.)
VEGETATION (Four Strata) – Use scientific names of piants.	Tree Strattern (Plot size: 30 ¹)	3		7		۰ ۲		Herb Stratum (Plot size: 5 ¹)	7-10-12	laytonia	8	11SCALUM (Piol size: 200)	2.5 	ଟି୯% ଖୀପାଣା ଯ୍ୟାଙ୍କ	Remarks: (Indude pholo Numbors here of on a separate sheet).

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Sampling Point: 23 The absence of indicators) LCC LC	1. controls PL -Pore think M-Mabrix	Indicators for Problematic Hydric Solls ¹ . 2 cm kwck (A10) (Au RA 417) (Au RA 147, 149) (Au RA 147, 149) Pedmont Floodelin Solls (F19) (MLRA 136, 147) Urer Shallow Dark Sudtoe (F112) Urer Shallow Dark Sudtoe (F12)		Hydric Soli Preseni? Yes No χ	
$\frac{1}{1000}$ Coll. Solution: Describe to the depth needed to document the indicators, we continue the absence of indicators. Depth $\frac{1}{1000}$ $$	Trope: C-Concentration, D-Dependention, RNA-Restructed Matrix, MSMasskee Sand Grainia.	Deik Surdsoc (S1) Polyvalue Bobos Surdsoc (S3) (MLRA 117, 148) Thin Dark Surdsoc (S3) (MLRA 147, 148) Loomy Oct Surdsoc (S1) Cospetent Marth (F2) Cospetent Dark Surdsoc (F7) Deptend Dark Surdsoc (F7)	Redox Depressions (FB) Inv.Manganew Masses (F12) (LRR N, MLRA 136) Unbuc Surface (F13) (MLRA 136, 122) Plection Floodpain Suis (F19) (MLRA 148) Redo Perent Melerial (F21) (MLRA 127, 147)		
SOIL Profile Description: Cossertbo to the de- period Mattix Color Indian <u>2-1</u> 104/L 5/2 <u>10</u>	Trop: C-Concentration, D-Dedetition, RM	Hydric Soil Indicators: Hydric Soil Indicators: Hydrose (A1) Hydrogen Stepedon (A2) Hydrogen Suffice (A4) Stratifice Layers (A5) 2 com Muck (A10) (HzR M) 2 com Muck (A10) (HzR M) Depeted Bolow Dark Surface (A11)	Thick Dark Surface (A1 2) Sandy Muccy Mineral (S1) (LI-RR N, MLRA 147, 148) Sandy Steyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5)	restrictiva Layer (ir ooserveo): Type: Deptitr (inches):	Remarks

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

SUMMARY OF FINDNGS - Attach site map showing sampling point locations, transects, important fastures, etc.

-	Hydrophylic Vegetalion Present?	Yes X	۱ ۶	Yes X NO Is the Sampled	:		_
	Hydria Soil Present?	X ^{ee}	Yes X No	Artes within a		_	_
	Welland Hydrology Present?	92 × 58,	2 2	Welland?	W-17		
	Remarks:						_
							_
							_

PEM. Original name 85day28P2

HYDROLOGY Wetland Hvdrology Indicators:		Secondary indicators (minimum of two required)
Primary indications (minimum of one is required; check of that apply)	all (that apply)	Surface Soil Gracia (B8)
X Surfece Water (A1)	1 1	Spartely Vegelated Conceve Surface (BS)
High Water Table (A2)	1	
Submitten (A3)	X Oddized Rhizoscherns on Lining Room (Ca)	
Weler Marka (81)	Presentant Reductor Inc. (vs) Devestmen Reductor in Tilled Staff (DB)	Crevitat Burrows (C8)
Definition of the second se	Then Muck Surface (CT)	Seturation Visible on Aerial Imagery (C8)
Abel Met or Creet (B4)	Others (Exploint in Planmattes)	Sturted or Stressed Plants (D1)
(ron Deposite (BS)	ł	X Geomorphic Position (D2)
X Interduction Visible on Nordal Imagery (B7)		Stallow Aquited (D3)
Weler-Stained Leares (BS)		X Mircotopographic Relief (D4)
Aquetic Faura (813)		FAC-Nectral Test (D5)
	No Chardt (incluss): 0.5	
 <u>-</u>	Profit firsteet	Wettand Hvelrotoov Present?
2	ļ	
Saturation Present? Yes	No Depth (incres):	
Describe Recorded Data (sheam gauge, monito	Describe Recorded Date (stream gauge, monitoring well aerial photos, previous inspections), it evailable:	
Rentarto:		
_		
_		
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VEGETATION (Five Strata) - Use scientific names of plants.	ic names of plants.	Sampling Poht	24
<u>тен Şıғақы</u> п (Рюі ейез: <u>30</u>) 1.	Absolute Dominant Indicator %.Cover Species? Status	tor Dominance Test worksheet: Number of Dominant Species That Are OBI, FACW, or FAC:	2
		Total Number of Dominant Species Across All Strats:	2 (8)
6.9.2	İİİ	Percent of Dominant Species That Are OBL, FACW, or FAC:	100,00% (AVE)
Sapino Statum. (Pior Sza: 15') (1.	0 == 100a Cover	ndex worksheet: % Cover of:	Multiply by:
		B 0 X 1 =	00
		0 0 0	
	0 = Total Cover	Column Tolets: 0 (A) Prevelence Index = B/A = #	(E) 0 10//10#
		Hydrophylic Vegetation Indicators: 1 - Rapki Test (or Hydrophytic Vegetation	
		X 2 - Domituaces freet as >5/1% 3 - Providences mode: a s10° 4 - Monthedgeal Mode sites (Provide supporting data is Pressive)	Soa Durjaoddin
Hath Strathom (Shel eize : 5	0 = Total Cover	Problematic Hydrophytic Vegelation ⁴ (Explain)	chain)
issue	70 Y FACW	W ¹ Indicators of hydric soli and wettend hydrobgy must be occurrent unless determined or configuration	y must
 Carest vulgeholdez Lucha onumeticite 		[[
5. By			diass of height.
		(8 m) or more in height and less than 3 (n. (7.6 cm) OBH.	s, aprovinguay zv n cm) OBH.
		Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 ft (1 to 6 m) in height.	, aproximately 3 to 20
10.		Herth - All herthaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tail	erchoss
12.	150 = Total Cover	Woody Vines • All woody vines greater than 3.28 ft in height	.28 ft.in height.
Woody Vine Stratum: (Pixt size: 30')	I		
2. 		Hydrophytic	
		Present? Yes X.	Ko
	0 = Total Cover		
Romarks: (Include photo numbers hare or on a separate sheet.)	rais sheet.)		2
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SOIL Provide Descriptions. (Describes to the Association in Accounter) this indicator or confirm this abatives of Indicators.)	the data	medad to docum	ant the last	licator or co	offirm the	Sampling Point: 24 absance of Indicators.)
Depth Matrix			Redox Features	Auros of the		
(inches) Color (moist)	*	Color (moist)	*	Type	2007	Texture Remarks
0-1 10YR 2/1	ğ		ļ		ļ	poat
1-4 10YR 3/1	8	10YR 2/2	2		ļ	mucky peak
4-7 Gleyrl 3/10Y	8	7.5YR 4/6	5	0	₹	barvclay
7-10 Gley1 4/10Y	18	7.5VR 416	-	5	2	bamiday
10-13 Glay1 5/10Y	8	10YR 4/6	-		×	loam/day
			ļļ			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	RM=Redu	oed Matrix, MS≖Mask	ed Sand Gra			¹ Location: PL= Pore Lining, M=Matrix
Hydrife Solt Indicators:						Indicators for Problemubb Hydric Soils ¹ :
Histosol (A1) Units Extended (A2)		Dark Surface (S7)	7) Surface (28	1 / JUL 04 147	1481	2 cm Muck (A10) (MLRA 147) Count Protyle Rodow (A16)
Biack Histor (A3)		Thin Dark Surface (S9) (MLRA147, 148)	201 (1911) (6S) 60	RA147, 148)	Ē	(MLRA 147, 148)
Hydrogen Sufficie (A4)		X Loamy Glayed Matrix (F2)	Aatrix (F2) /E3)			Pladmont Floodplain Solis (F19) MM RA 136, 1471
2 cm Muck (A10) (LRR N)		Redox Dark Surface (FB)	(* 4) (ace (FB)			Very Shalow Derk Surface (1F12)
Depleted Below Dark Surface (A11)	-	Depieted Dark Surface (F7)	turlace (F7)			Other (Explain in Remarks)
Thick Dark Surface (A12) Sardy Mucky Mineral (S1) (LRR N,		redox Depressions (FB) Iron-Manganese Massee (F12) (LRR N,	iona (F8) h Massea (F1	(2) (LRR N,		
MLRA 147, 148)		MLRA 136)				
Sandy Gleyed Malrix (S4) Sandy Redox (S5)	-	Umbric Surface (F13) (MLRA 136, 122) Piertmont Floodbain Solis (F19) (MLRA 148)	(F13) (MLR ^u Main Solis (F	A 136, (22) 19) (MJ-RA 14	8	Indicators of hydrophytic vegelaption and welland hydrobogy must be present.
Surpped Matrix (S6)	,	Red Parent Material (F21) (MLRA 127, 147)	arial (F2.1) (N	ALRA 127, 14:		unless disturbed or problematic.
Restrictive Layer (If observed):						
Type:						
Clepth (inches):						Hydric Soil Present? Yes X No
Remarks:						
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WETLAND DETERMINATION DATA FORM • Eastern Mountains and Piedmont

Project/Site: S	outh Flaid Energy In	South Flaid Energy Interconnection Facilities City/County: Vetow Creek Twp., Columbiana Co. Sampling Date: April 30, 2015	5	yCounty: Yellon	V Creek T	ND. Colu	mbiana Co.	Sampling Da	te: Ap	ril 30, 2015
Appleant/Owner.		Tetra Tech	-5			50	lale: OH	State: OH Sampling Point: SP-25	ht: SP-2!	
(rivesligator(s):		B. Slaby		Section,	Section, Township, Range:	Range:		\$30°.	S30, T8N, R2W	
Landform (hillstope, terrace, etc.);	a, alta je	mound		Local Relief (conceve, convex, none):	NCEYNE, CON	Vex, none		CONVEX	Slope (%):	%):
Subregion (LRR or MLRA):	1	LRRN	3	40.84035	:Buoj		-80.708538	Detum:	Ë	WGS84
Soil Map Unit Name:	HKA - Hofly silt	HkA - Holly sill toam, 0 to 2 percent stopes, frequently flooded	lopes, fre	guantly Rooded			NWI cla	NWI classification:	PEM1A	41A
imatic/hydrologie.c	anditure tri tre she	Are constronger conditions to the the typical for this time of year?	'year?	Ŷ	×	<u>ş</u>	li s	'f as X No (If no, explain in Retractua.)	2	
Are Vegetation	× 8 8	. Soil X . or Hydrology X significantly disturbed?	3	httoantly disturbed		1 I ON - BT	al Circumsta	Are "Normal Circumstances" present?		
-	2					ž	Yess X No	£	L	
Are Vegelation	1000	, soil , or Hydrology	g	naturally problematic?		f needed,	explain any ar	(If needed, explain any answers in Remarks.)	_	

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

Hydrophytic Vegelation Present? Hydric Scil Present? Walland Hydriobgy Present?	Yes	× × × * *	Is the Sampled Area within a Wettand?	Yes	X W	
Remarks:						
Maintained Lawn. Trash appears to be buried at this sample plot tocalion, which is the probable cause of the upend mound in botween two boles of the wolland. Original	s plot focation,	which is the pr	bable cause of the u	pland mound in betw	een two jobes of lh	o wetland. Original

HYDROLOGY		
Wettand Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all theil apply)	sck al that apply;	Surface Soil Cracks (BS)
Surface Water (A1)	True Aquatic Plants (B14)	Spersely Vogelated Concerve Surface (B8)
High Weter Table (A2)	Hydrogen Suffide Odor (C1)	Dratuage Patiants (B10)
Seturation (A3)	Oddized Rhitcospheres on LMmg Roots (C3)	the (C3) Most Trim Linese (B16)
Water Marka (B1)	Presence of Reduced Iron (C4)	Dry-Season Waler Table (C2)
Sediment Deposits (32)	Recent Iron Reduction in Tiled Solis (CB)	C6) Crayfish Burrows (C8)
Orift Deposits (B3)	Thin Muck Surface (C7)	Saturation Vable on Aerial Imagery (C3)
Agel Mail or Churt (B4)	Other (Explein In Remarks)	Slunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Prakion (D2)
Interdetion Visible on Aarlel Imagery (B7)		Shallow Aquilard (D3)
Weler-Stained Leaves (B9)		Adrostopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (05)
Field Observations:		
Surface Water Present? Yes	No Depth (Inches):	
Water Table Present? Yes	No Depth (inches):	Wettand Hydrology Present?
Saluration Present? Yes	No Depth (inches):	Yes No X
nge)		
Describe Recorded Data (stream geuge, mon	Describe Recorded Data (atream gauge, montroing veil, aeriel photos, previous trapections), if available.	ff evelable:
Remarks:		

T 1

VEGETATION (Five Strate) - Use scientific names of plants.

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Sempling Pohl:

	Absolute	Dominant	Indicator Clather	Dominance Test worksheet:
	1000	ND#C#RL	SUBUS	
				That Are OBL, FACW, or FAC: 0 (A)
				Total Nimber of Dominant
			[Species Across Al Strata: 1 (8)
5.				
.8				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 0.00% (A/B)
	▫	= Total Cover	_	Provetence Index workshaet:
Sapino Siratum. (Plot Szo: 15'	~			
				Γ
*				0 X 3=
				a 105 x 4 c 4
······	•	Total Control of		 ≩
Shruch Straitum: (Plot Size: 15'		= 10101 COV8		Prevalence Index = 8/A = 4
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Hydrophydic Vegetation Indicators:
				t - Rapid Test for Phytrophytic Vegetation
4				2 - Dominance Test is >50%
				3 - Prevalence Index is \$3.01
3				4 - Morphological Adaptations ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
	0	= Total Cover		Problemetic Hydrophylic Vegelation ¹ (Explain)
Herb Stratum; (Pixi size: 5'	_			
	۶	7	FACU	¹ Indicators of hydric soil and welland hydrobogy must
2. Trifoltum repens	20	z	FACU	be present, unless disturbed or problematic.
3. Plantago major	₽	z	FACU	Definitions of Four Vegetation Strats:
4. Taraxacum officinate	ŝ	z	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
	3	z	z	more in diameter at breast height (DBH), regardless of height.
				Supling - Woody plants, excluding woody whee, aproximately 20 ft
7.				(6 m) or more in height and fess than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 e.r. k.m. heleht
<u>.</u>				
10.				Herb - All herbeceus (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12				Woods Vintes - Al woods whes greater than 3.28 ft in height.
	ŝ	= Total Cover		
Woody Vine Statum: (Piol size: 30'				
3				
2.				Hydrophytic
ri -				
4.0				Present? Yes No X
, , , , , , , , , , , , , , , , , , ,	0	= Total Cover		
Remarks: (include photo numbers here or on a separate sheet)	parate sheet)			

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Remerts	1.contom Pt= Peon Linng, Air toisith. Indications for Probamistic twitte Solis";	2 alon for Probamatic hydro Solls" 2 alon Muck (40) [HLA 147] Coast Paula Redox (416) Coast Paula Redox (416) Pedenou Pocopain Solas (F19) Pedenou Pocopain Solas (F19) (HLA 134, 147) Very Shalow Duck Surface (FF12) Very Shalow Duck Surface	Indeators of hydrophytic vegolation and vertand hydrophytic vegolation and unless disturbed or problematic. Hydric Soil Present? Yes No X	
Texture foam	Locabon: PL	Inductors for Problem 2 cm Mutck (Av10) 2 cm Mutck (Av10) (MULRA 142) Predmout Proopting (MULRA 138, 147) (MULRA 138, 147) (MULRA 138, 147) (MULRA 138, 147) (MULRA 138, 147) (MULRA 138, 147)	³ Indicators of hydroph wettand hydrobogy unless disturbed Hydric Soll Present?	
Color (molal) K Type ¹ Lod	Type: C-Committee, D-Oggelice, Rite-Reduced Matrix, NS-Masted Sand Grains.	Dark Surfaces (S7) Perynaus Beben Surface (S8) (ML DA 147,148) Thin Oaks Surface (S8) (ML RA147, 148) Loanny Obyed Marks (F2) Dependen Marks (F2) Dependen Marks (F2) Dependen Oaks Surface (F7) Dependen Oak Surface (F7) Redox Depresedora (F3) Redox Depresedora (F3) ML A 149 ML A 149	Umbric Surfsee (F13) (ALRA 134, 122) Pectronet Facolysian Sals (F19) (ALRA 145) Faco Parant Matshal (F21) (ALRA 127, 147)	
Matrix Cober (motes) / // // // // // // // // // // // //	oc. D=Copelior. RM=Rec	Histocol (A1) Histocol (A1) Histocol (A2) Histocol (A2) Hydrocon (A2) Hydrocon (A1) Shartfor (Layter (A) Depleted BAR (A) Depleted BAR (A) Thiak Dark Surface (A12) Histo Dark Surface (A12) Histo Lark Surface (A12) Histor (A4)	strix (S4) 59) 58) observad): trash and tochy (11	
Depth (Instant)	Type: C-Concentration	hydro Sol Indicators: Historio (41) Historio (41) Historio (41) Black Historio (42) Black Historio (42) Black Historio (42) Stanto (412) Stanto (412) Stanto (412) Stanto (412) Stanto (412) Stanto (412) Stanto (412)	Sandy Gayed Matrix (S4) Sandy Radox (S5) Surpped Matrix (S6) Restrictive Larger (ff observed): Type: trash and rr Dayth (actino):	Remarka:

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont Region

WE LEAVE DE LEXMUNATION DATA FOKIN - EASTERT MOUNTAINS AND FREGONT REGION Properties South field Every indecorrection facility - Chylconny: <u>Columpation Colompane</u> <u>1/30/15</u> Applicant/Owner. <u>Tetra Tech</u> Innessignor(s): <u>Jawra 2017</u> <u>2017</u> <u>10</u> Innessignor(s): <u>Jawra 2010</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>2017</u> <u>201</u>	SLIMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophyk Vegetaion Present? Yes No X is the Sampled Area Hydre Soil Present? Yes No X within a Wetland? Yes No X Wetland Hydrology Present? Yes No X Remarks: 0 per field	Add Itheir and/N     Secondary Indicators (mail/manil directors/less)       True Aquatic Plants (B14)     Sparsey Vegetated Concess (B4)       True Aquatic Plants (B14)     Sparsey Vegetated Concess (B4)       Doubled Rhiticoshners on LMmg Roots (C3)     Moss Tim Lines (B16)       Diversentee on LMmg Roots (C3)     Moss Tim Lines (B16)       Presentee of Reduced time (C4)     Sparsey Vegetated (C3)       Diversentee of Reduced time (C4)     Sparsey Vegetated (C3)       Diversentee of Reduced time (C4)     Sparsey Vegetated (C3)       Diversentee of Reduced time (C4)     Sparsey Vegetated (C3)       Diversentee of Reduced time (C4)     Sparsey Vegetated (C3)       Diversentee of Reduced time (C4)     Samatkon Vesible on Adual (C3)       Diversentee of Reduced time (C4)     Samatkon Vesible on Adual (C3)       Diversentee on the case (C4)     Samatkon Vesible on Adual (C3)       Diversentee on the case (C4)     Samatkon Vesible on Adual (C3)       Diversentee on the case (C4)     Microtopograph Relet (C4)       Degrin (Incres):     Microtopograph Relet (C4)       Degrin (Incres):     Microtopograph Relet (C4)       Degrin (Incres):     Degrin (Incres):       Degrin (Incres):     Wethand (Ingres):       Degrin (Incres):     Microtopograph Present 7       Degrin (Incres):     Microtopograph Relet (C4)
WE I LAND UE I EXMINATION DATA FORM - E Projectsies <u>South field Every</u> Interanticon Tacility. City/Cour investigator(s): <u>Landra Sey re</u> . Section. Investigator Anno. <u>L.P. N. 124</u> Lat. <u>U. AthOH77</u> Sou Map Una Name. <u>F.D. Tariptich Asery Lat. U. AthOH77</u> Sou Map Una Name. <u>F.D. Tariptich Asery Lat. U. AthOH77</u> Are vegetation Soil or hydrology seguiterantly distubed Are vegetation Soil or hydrology neturated problematic.	SLIMMARY OF FINDINGS – Attach site map sho Hydrophyke vegetation Present? Yes No. Hydroc Soil Present? Yes No. Weitland Hydrology Present? Yes No. Remarks. 0 De M Re I d	HYDROLOGY     Sets       Wettand Hydrology indicators:     Sets       Ethmar Hydrology indicators:     Sata and the factors       Ethmar Hydrology indicators:     Sata and the factors       Sata and the factors     Sata and the factors       Saturation (A2)     Hydrogen Staffac Gold (C1)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Saturation (A2)     Oxidized Rhitospheres on LMmg Roots (C3)       Mater Statined Leaves (B3)     Thin Muck Surface (C7)       Mater Statined Leaves (B3)     Muck Surface (C7)       Mater Table Present?     Yes       Mater Table Present?     Yes       Mater Table Present?     Yes       Recenter Race Present?     Yes       Mater Table Present?     Yes       Returation Recenter (Descan gauge, monthoring weil, setal p

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Sampling Point: 24 the absence of indicators.) LCC Remarks	<ul> <li>¹, <u>coalitor</u>. P.LPore (Intrg., MMasth.</li> <li>¹, <u>coalitor</u>. P.LPore (Intrg., MMasth.</li> <li>¹, <u>coalitor</u>. F.LPore (Intrg., M Masth.</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, <u>coalitor</u>. Star</li> <li>¹, ¹, ¹, ¹, ¹, ¹, ¹, ¹,</li></ul>	
Coll     Sam       Perfile Description: (pescribe to the depth neeted to document the inductor or continuitive absence of indicators.)     Sam       Depth     Amits     Sam       Depth     Color involution     Sam       Color involution     Sam     Sam       Or-S     71.5 YP YB     IOYE 5/L	Type:     C-Concentration. D-Depletellon. RM-Requeed Martin, MS-Masked Sand Grains       Mydric Soil Indicators:     Dark Sufface (S7)       Histosoil (A1)     Pobyaule Balow Surface (S7)       Histosoil (A1)     Pobyaule Balow Surface (S7)       Histosoil (A1)     Pobyaule Balow Surface (S7)       Histosoil (A1)     Pobyaule Balow Surface (S7)       Histosoil (A1)     Pobyaule Balow Surface (S7)       Histosoil (A1)     Pobyaule Balow Surface (F7)       Stanting Lages (A5)     Depleted Martin (F2)       Tack Mark (A10)     Depleted Martin (F2)       Sandy Mutcy Mineal (S1)     Informed Park Surface (F7)       Sandy Marck (S4)     Umbric Surface (F1)       Sandy Marck (S3)     Umbric Surface (F1)       Sandy Marck (S3)     Umbric Surface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S3)     Umbric Surface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S4)     Umbric Surface (F1)       Sandy Marck (S3)     Podemolar Sourface (F1)       Sandy Marck (S4)     Umbric Surface (F1)       Sandy Marck (S4)     Podemolar Sourface (F1)       Sandy Marck (S4) <t< td=""><td></td></t<>	
SOIL Profile Description: (Describe to the dep Depth Antistic State (mask) 0-8 1.5 \P 4 \B 20	Type:     C-concentration:       Hydric Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Histor Soil Indicators:       Sandy Elevel Beiror Data Sufficie (A11)       Take Data Solution (A12)       Sandy Elevel Matrix (S4)       Sandy Elevel Matrix (S4)       Sandy Elevel Matrix (S4)       Type:       Fightor (A12)       Depth (Inches):       Depth (Inches):	

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BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE of total cover. 2 BOSE o
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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:	South Fleid	South Field Energy Interconnection Facilities City/County Yetow Creek Twp, Columbiana Co. Sempling Date: April 30, 2015	SS CLV	County: Ya	flow Creek	Twp, Colun	nblana Co.	_ Sempling Date:	April 30, 2015	
Appleant/Owner:		Tetra Tech	ę			8	ste: OH	State: OH Samping Point: SP-27	SP-27	
Investigator(s):		<ol><li>Slaby, L. Sayre</li></ol>		Sectio	n, Townsh	Section, Township, Range:		\$32, T10N, R2W	I, R2W	
Landform (Mislope, Iamoe, etc.):	larmoo, olc.):	slope/depression		Local Reief (concave, convex, none):	(conceive, o	Onvex, none)		concave	Slope (%):	
Subregion (LRR or MLRA):	MLRA):	LRRN	Løt:	1at: 40.640399 Long:	Long:		-80.702983	Delum:	WGS84	
Soil Map Unit Name:		GnB - Gipin sift loam, 2 to 6 percent stopes	t slopes				NWI clas	NWI classification:	euou	
Are câmelic/hydrol	ogic conditions c	Are camelodinydrobgic conclions on the site typical for this time of year?	of year?		(es X	Ŷ	(I no.e	Yes X No (II no, explain in Remarks.)		
Are Vegelation	. Sol	Are Vegelation	Signi	icantly disturbe	ž	Are Norm	al Circumstal	Are "Normal Circumstances" present?		
Are Vegelation	[8]	, Soli , or Hydrobogy	natur	naturally problematic?	5	Ye: (If needed, e	a X Xalain any and	Yes X No (If neecled, explain any answers in Remarks.)		

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

Hydrophytic Vegetallion Present?	Yes X	ž			
Hydric Soil Present?	Yes X	No	ts the sampled Area within a	Yees X No	Na
Welland Hydrology Present?	Yes X	Ŋ,	Wetand?	W-18	
Remarks:					
PEM. Originsi name bsday2SP4.					

нургогосу			
Wettend Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary indicators (minimum of one is required; check all that apply)	ck all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1)	True Aqu	frue Aquatic Planta (B14)	Sparach Vegelated Concave Surface (B8)
High Water Table (A2)	Hydroge	Hydrogen Suitide Octor (C1)	X Drainage Patierns (B10)
Saturation (A3)	X Childred	Oxidized Rhitospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (81)	Preseno	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent I	Recent Iron Reduction in Tilled Solls (CB)	Crayfish Burrown (CB)
Drift Deposits (83)	Thin Muc	Thèn Muck Surface (CT)	Saturation Visible on Aarial Imagery (C9)
Algel Mat or Chest (B4)	Other (E	Other (Explain in Remarks)	Stirrted or Stressed Plants (D1)
kron Deposite (BS)			X Geomorphic Position (D2)
inunciation Visible on Aerial Imagery (B7)			Shallow Aquilard (D3)
Water-Stathed Leaves (B9)			Micotopographic Refet (D4)
Aquetic Fauna (B13)			FAC-Neutral Test (DS)
Field Observations:			
Surface Water Present? Yes X	N	Depth (inches): 1	
Water Table Present? Yes	No.	Depth (inches):	Wetland Rydrology Present?
Saluration Present? Yes	 ₽	Depth (inches);	Yes X No
(incuoes capitary tringe)			
Describe Recorded Data (atream gauge, monitoring well, aarial photos, previous inspections), if available	ittoring welt, aerial photo	is, previous inspections), if available:	
Remarks:		2	

•••

### VEGETATION (Five Strata) - Use scientific names of plants.

27

Sampling Point:

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Eastern Mountains and Pledmont - Version 2.0 5 Yes X No Sampling Point: Indicators for Problematic Hydric Solis¹: Remarks Piedmoni Phochen Solis (F19) (MLRA 134, 44) Very Shatkm Dark Surface (TF12) Other (Explain in Rennarka) ³Indicators of hydrophytic vegetation and welfand hydrobgy must be present, unless disturbed or problematic. ²Location: PL= Pore Lining, M=MaMx 2 cm Muck (A10) (MLRA 147) Caast Prairie Redox (A16) (MLRA 147, 148) Profile Description: (Describe to the depth needed to document the industor or confirm the absence of indicatore,) Hydric Soll Present? MPL clayfoam Texture MPL dayloam Loc² Dark Surface (37) — Dark Surface (37) — Thin Dark Surface (59) (MLRA147, 148) — Learny Garree (59) (MLRA147, 148) — Learny Garree (57) — Reaco Eark Surface (57) — Depiated Clark Surface (57) — Reaco Eark Surface (57) — (100-Munganese Massee (57) — (100-Munganese (51) (MLRA 130, 123) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 138) — MLRA 137, 141) — MLRA 137, 141) — MLRA 137, 141) — MLRA 137, 141) — MLRA 137, 141) — MLRA 137, 142) — MLRA 137, 142, 143 — MLRA 137, 142, 143 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 137 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 138 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 138 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 — MLRA 137 Type 0 30 ٥ Redox Features ype: C=Concentration, 0=Depiation, RM=Reduced Matrix, MS=Mesked Sand Grains. <u>"</u>] Color (maist) 10YR 7/B 80 10YR 7/6 8 * 2 cm Music More (More N Debeled Boldon Dark Sunface (A11) Dhoke Dark Sunface (A12) Sundy Music (A12) MuLRA 147, 149 Sundy Rowa (Ss) Sundy Rowa (Ss) **₽** Malrix Color (moist) ХĊ С 10YR 5/1 10YR 6/1 thictive Layer (if observed): Halcoo (A1) Hasic Epipedon (A2) Bleck Histc (A3) Hydrogen Suifide (A4) Stratified Layers (A5) Type: Depth (inches); ydric Soll Indicators: 1 B-10 8 Depth (Inches) Type: narkar SOIL

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

South Field Energy Interconnection Facilities City/County. Yellow Creek Twp., Columbiana Co. Sempling Date: April 30, 2015 WGS84 Slope (%): PEMIC State: UH Sampling Point: SP-28 S24, TBN, R2W -80.696253 Datum: year? Yes X No (if no axplain in Remarks.) significantly disturbed? Are "Normal Circumstances" present? Yes X No (K neoded, anglein any answere in Remarks.) Section, Township, Range: S24 Local Refer (concave, comex, come): none **NWI classification:** 40,840196 Long: BPF - Bethesda very channery sil bern, 25 to 70 percent sopes Lai: Are dimatic/hydrobopic conditions on the site hypical for this time of year? Telna Tech , or Hydroixgy floodplain B. Slaby IRRN Landform (hitstope, terrace, etc.): Subregion (LRR or MLRA): Are Vegetation Sof Mep Unit Name: Applicant/Owner: Are Vegelation Investigator(s): Project/Site:

SUMMARY OF FINDRYGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophylic Vegetation Present?	Yes X	2 2	is the Samular			_
Hydric Soli Present?	Yes X	ž	Area within a	Yes X		_
Welland Hydrokygy Present?	¥88 X	768 X 160	Wetland?	W-19	ļ	_
Remarks:						
PEM. Original name BSdøy2SP5.						_

Surface Water (KI)     Tran Acretis (Faile (K)     Tran Acretis (Faile (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres Stated Hyrtywar Tale (K)     Servery Vogeteriol Correres (K)     Dependent (K)       Adata Korrel Forent (K)     Adata Korrel Forent (K)     Servery (K)     Servery (K)     Servery (K)       Adata Korrel Forent (K)     Yos     Dependent (K)     Notatin Hyrtyk)     Notatin Hyrtyk)       Adata Korrel Forent (K)     Yos     Dependent (K)     Notatin Hyrtyk)     Notatin Hyrtyk)       Adata Korrel Forent (K)     Yos     Dependent (K)     Notatin Hyrtyk)     Notatin Hyrtyk)       Adata Korrel Forent (K)     Yos     Dependent (K)     Notatin Hyrtyk)     Notatin Hyrtyk)       Adata Korrel Forent (K)     Yos     Notatin Hyrtyk)     Notatin Hyrtyk)     No.       Adata Korrel Forent (K)     Yos	Surfaces Weaker (k1) Hany Weaker (k1) Saturation (k3) Saturation (k3) Saturation (k3) Saturation (k3) Matheware (k3) Dath Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Marcu Chanal (k3) Math Math Marcu Chanal (k3) Math Math Marcu Chanal (k3) Math Math Math Math Math Math Math Math		Spensely Vegetored Concerne Statecte (BS) Dreinege Patreme (B10)
We have a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	High Woter Table (X2) Materiator (X3) Water Macor (X3) Sedeman (Decrete (R2) Ont Decrete (R2) Ont Decrete (R2) Ont Decrete (R3) Intrastructures (R3) Woley Stated Lances (R3)	Hydrogen Suffke Odor (C1) Oxidized Rhitzuphenes on Living Rooks (C2) Preserves of Reduced Yon (C4)	Dreinage Patiems (B10)
Mental Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andre	Statution (Ja) Mane Marcel (B1) Sectional (Decode (B2) Onth Deposate (B2) Analyther of Const (B4) Control Deposate (B2) Analyther of Andrel Imagery (B7) Weiser State of Lemone (B3)	Obdited Rhizaspheres on Living Roots (C3) Preserves of Reduced Iron (C4)	
Vestime High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High and High	Weiter Manca (61) Work Manca (62) Onth Dooptis (63) Again Manca Crua (34) Manca (14) Intrustation (14) Intrustation (14) Weiter Statened (14) Weiter Statened (14)	Presence of Reduced Iron (CA)	Mote Trim Lines (B16)
We have a set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the s	Softmer Dopodia (82) Onti Dopodia (82) Onti Dopodia (83) Japani Marc Cortoni (84) Iron Dopodia (83) Iron Dopodia (84) Ironodition Yalinia on Aerial Inageny (87) Wolew Stateol Laurea (86)	Beau has Badridon in The Cold (CC)	Dry-Sesson Weler Table (C2)
Weethand	Offi Depotils (83) Agath Marr of Can (84) Intrastreement (84) Intrastreement (84) Weier Staten (Lannas (84)		Carylish Burrowa (CB)
X Assertion of Hydrodo	Agent Mart or Cruel (B4) Iron Deposate (B5) irunsdaten Vielloa on Aerist Imagery (B7) irunsdaten Vielloa on Aerist Imagery (B7) Week-Shand Jammas (B5)	Thin Muck Surface (C7)	Saturation Vielbie on Asstal Imagery (CB)
Value of Hydroso	Iron Deposate (85) inundation Valitie on Aerial Imagery (87) Weine-Stando Lawas (89)	Other (Explein in Remarks)	Sturfed or Stressed Plunts (D1)
Wettand Hydrolo	/rundation Visible on Aetist Imagery (B7) WeiserStained Leaves (B9)		X Geomorphic Position (D2)
Wettand Hydrodo	Weier-Stained Leares (B9)		Shallow Aquitard (D3)
Wetland Hydrolo			Microtopographic Relet (D4)
	Aqueor Fauna (513)		FAC-Neutral Test (DS)
	Field Observations:		
	Yes	X Depth (Inches):	
Yes	Yes	X Depth (inctes):	Welland Hydrology Present?
(pusivies appliany firingeo) Describe Recorded Data (Presam gauge, monitoring wal, eartal phoits, previous Inspections), if available:	Yes No	1	×
Oesofe Recorded Daia (stream gauge, monitoring we), aantal pholoa, previous Inspections), if avaitable:			
	Describe Recorded Data (stream gauge, monitoring well, a	earlal photos, previous inspections), if avaitable:	

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VEGETATION (Five Strata) - Use scientific names of plants.	lic names (	of plants.		Sampling Point: 22
Tree Straitum (Phot size: 30' ) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance T est worksheet: Number of Dominant Species That Aar OBL, FACM, or FAC: 4 (A)
				,   ,
				Species Across Al Statis: (5)
	•	= Total Cover		That Are OBL, FACW, or FAC: 57.14% (A/B)
Saping Stratum: (Piol Size: 15') 1.				Pravalence index worksheet: Total % Cover of: Muliphy by:
3				s 0 × 1 × 2 1
				FAC species 0 x 3= 0 FACU species 0 x 4 = 0 UPL wonches 0 x 5 = 0
	.			(X)
Shruh Stratum: (Plot Size: 15°)	• ₽	= Total Cover v	(L)	Prevelence Index = B/A = #DIV/01
	2   <del>2</del>	<b>,</b> .		Hydrophytic Vegetation Indicators:
	2	>	FACW	1 - Rapid Test for Hydrophytic Vegelation
		Ì		X 2 - Dominance Test is >50%
2		ÌÌ		<ul> <li>- Prevenence incox s &gt;&gt;&gt;</li> <li>4 - Morphological Adaptations⁴ (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
	25	# Total Cover		Problematic Hydrophytic Vegelation ¹ (Explain)
Herb Stratum: (Plot size: 5 ) 1. Pheteris anunchaces	52	۲	FACW	¹ locitorions of hurder sold and weighted hurderbook must
	<b>3</b> 0	۲	BI	be present, unless disturbed or problematic.
3. Unica doica 4. f. aceris connistan	ຊ	, ,	FACU	Definitions of Four Vegetation Strata: Terra - Mondor Jacob - and offer strates 2 in 77.6 and of
	₽₽	Z	a a	res a troody panes excurred trees, o m, (), o m/ or more in diameter at breast height (DBH), regardless of height.
6. Rose multihors	2	z	FACU	Sapling - Woody piants, excluding woody vines, aproximately 20 ft. (6 m) or more in height and less than 3 m. (7,6 cm) DBH.
				Shrub - Woody pients, excluding woody vines, aproximately 3 to 20 11 (1 to 6 m) in helpht.
10.		ÌÌ		Herb - Alt herbaceous (non-woody) plants, regardless of size, and woody plants, less than 3,28 ft tail
12				Woody Vines - Al woody vines greater than 3.28 ft in height.
Woody Vine Sigguins (Plot size:30')	8	= Tolal Cover		
				Hydrophytic
				Vegetation Present? Yes X No
6.	6	= Tolal Cover		
Remarks: (indude photo numbes here or on a separate sheet.)	srale sheet.)			

SOIL

Sampling Point: 22

Profile Descr	Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators)	ie depth	i needed to docume	int the Indix	ator or cor	firm the a	bsence of indicators.)
Depth	Matrix	Ì		Redox Features	88		
(inches)	Color (moist)	*	Color (mols!)	*	Type ¹	Loc ²	Texture Remarks
0-2 0	10YR 3/3	ŝ					bam
2-8	10YR 5/2	2	7.5YR 4/6	30	υ	MPL	koam
B-12	Gley1 4/10Y	75	2.5YR 3/6	26	υ	MPL	bam/clay
12-14	2.5Y 5/2	8	5YR 4/6	20	υ	MPL	bam/day
Type: C=Conc	Type: C=Concentration, D=Deptellion, RM=Reduced Matrix, MS=Masted Sand Gains	M=Reduc	ood Mabrix, MS=Maske	of Sand Grain	8		³ Location: PL= Pore Lining, M=Matrix.
Hydric Soll Indications:	li cartors:						Indicators for Problematic Hydric Solis ³ :
Histosol (A1)	Histosol (A1) uteta Enhandrar (A2)		Dark Surface (S7)	) Europaa (CB) (	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1		2 cm Muck (A10) (MLRA 147)
Black Histic (A3)	c (N3)		Thin Dark Surface (S9) (MLRA147, 148)	8(S9) (MLRA	147, 148)	ĩ	(MLRA 147, 148)
Hydrogen	Hydrogen Sulfide (A4) Stratificad Loncer (A6)		X Loamy Gleyed Matrix (F2) X Deviated Matrix (F2)	atrix (F2) E3)			Predmont Floodplain Soils (F19)
2 cm Muck	2 cm Muck (A10) (LRR N)		Redox Dark Surface (F6)	ee (F6)			Very Shallow Dark Surface (TF12)
Depletod E Thick Dark Searty Huy	Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Seads Husber History (S1) & PB N		Depleted Dark Surface (F7) Redox Depressions (F8) Iron, Mancresse Marcra, (F10), 17 00 M	nface (F7) ns (F8) Massee (E12	N 60 17		Other (Explain In Remarks)
MLRA1	MLRA 147, 148)	•	MLRA 136)				
Suripped Matrix (S6)	oamoy useyead matrix (o≠) Sandy Redox (SS) Stripped Matrix (S6)		— Untront: Surgeou (F1:5) (AMLRA 1.5), 122, Piedmont Floodphin Solls (F19) (AULRA 143) Red Parent Melerial (F21) (ALLRA 127, 147)	tio) (MLRA bin Solls (F11 del (F21) (ML	140, 122) 9) (MLRA 147 RA 127, 147	÷ -	increasions on inyorcoprove vegewation and wetland hydrobogy must be present, unless disturbed or problematic.
Restrictive Lay	Restrictive Layer (if observed):						
Type: Depth (Inches):	(68)						Hydric Soll Prasent? Yes X No
Remarks:							

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WETLAND DETERMINATION DATA FORM – Eastern Mountains and Pledmont Region 것, 이에 오랫 주도가 Tup?

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

									_	_								
Yes No X			Secondery Indicators (Intrimum of two reauted) Surface Soil Cracks (Bb)	Sparsely Vegetated Concave Surface (B8)	Moss Trim Lines (B16)	Dry-Season Water Table (C2)	<ul> <li>Creyfish Burrows (U8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>	Stunted or Stressed Plants (D1)	Geomorphic Position (D2)	Shallow Aquitard (U3)	— Microropographic resid (U-4) FAC-Neutral Test (D5)				Wetland Hydrology Present? Yes No </td <td>ilable:</td> <td></td> <td></td>	ilable:		
is the Sompled Area within a Welland?				(B14) (c1)	Oxidized Rhizospheres on Living Roots (C3)	d Iron (C4)	Recent Iron Reduction in Tilled Solis (C6) Thin Murk Surface (C7)	marks)							Saturation Present? Yes Depith (Inches): Wettland Hydroi (Inchudes capillary frhige)	evious Inspections), If ava		
No X on			ieck all inal appivit	True Aqualic Plants (B14)	Oxidized Rhizospher	<ul> <li>Presence of Reduced Iron (C4)</li> </ul>	Recent Iron Reduction i Thin Muck Studace (C2)	Other (Explain in Remarks)					Depih (inchos):	Depth (Inches);	Depth (inches):	ig well, aerial photos, pre		
88 X 88 X 89 X 89 X 89 X 89 X 89 X			required; c)	•			'			iry (B7)			ş	1	Ŷ	je, monitarir		
talion Present? n17 iy Present7	1 Freid LSP2-2		weltand Hydrology Indicators: Primary indicators (minimum of one is required: check all Inail 2020)	er (A1)	3) 3)	(B1)	posits (B2) : (B2)	Crust (B4)	: (B5)	Inundation Visible on Acrial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	DIS:			richige) Yes	ed Dala (siream gauc		
Hydrophylic Vegetailon Preseni? Hydric Soil Preseni? Wetland Hydrology Preseni?	Remarks: 010	<b>YDROLOGY</b>	Welland Hydrology Indicators: Primery indicators (minimum of c	Surface Water (A1)	— rigit water 1 doer (A2) — Saturation (A3)	water Marks (B1)	<ul> <li>Sediment Daposits (B2)</li> <li>Drift Demetic (B2)</li> </ul>	<ul> <li>Algal Mat or Crust (B4)</li> </ul>	Iran Deposits (B5)	Inundation Vi	— Water-Stained Leave Aquatic Fauna (B13)	Field Observations:	Surface Water Present?	Water Table Present?	Saturation Present? (includes capillary fr	Describe Records	Remerks:	

• •

6     100     - Total Cover     Vegention       50% of total cover     20% of total cover     No       Remarks:     (Include photo numbers fiele of on a separate sheet.)     No
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Hydric Soli Present? Yes No X Sampling Point: 29 ⁴Indicators of trydrophyth: vegetation and wetland hydrokogy must be present, unless disturbed or problematic. ⁴Location: PL*Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils¹. 2 cm Muck (A110) (MLRA 147) 2 cm Muck (A110) (MLRA 147) 2 cm Muck 147, 148) 2 cm Muck 147, 148) 2 cm Muck 146, 147 2 cm Muck 146, 147 2 cm Muck 146, 147 2 cm Muck 146, 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm Muck 147 2 cm M Remarks Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Texture Dark Surface (57) — Polyvalue Bolow Surface (59) (ALEA 147, 146) — Thin Dark Surface (59) (ALEA 147, 148) — Loamy Greget Math, (72) — Darpeled Math, (72) — Depleted Dark Surface (7) — Depleted Dark Surface (7) — Redor Dark Surface (7) — Depleted Dark Surface (7) — MLRA 136) — MLRA 136) — MLRA 136) — Platfront: Fundeer (71) (ALLRA 13, 147) — Red Parent Material (721) (ALLRA 148) — Red Parent Material (721) (ALLRA 127, 147) Ľ Rectox Features 1 2.0 C 7/1 Type: C=Concentration, 0-Depletion, RM-Reduced Matrix, MS-Mesked Sand Greins, Hydric Soll Indicators; 2.54 4/2 Histoeol (xr) Histoeol (xr) Back Histo (xg) Back Histo (xg) Hydrogen Suffke (xd) Strongen Suffke (xd) Strongen Suffke (xd) Coopleted Below Dark Surface (x11) Thick Curk Sufface (xd) Sandy Redox (55) Mind (xg) Sandy Redox (55) Sandy Redox (55) Sandy Redox (55) Sandy Redox (55) Poptin (notexin) Deptin (notexin)  $\begin{array}{c|c} \mbox{Depth} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{Matrix} & \mbox{$ Remarks: SOIL

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Project/Site: South	r Fleid Energy	South Fleid Energy interconnection Facilities City/County <del>r Yalow Creek Twp., Columbiane Co.</del> Sampling Date: April 30, 2015	ç	y/County:	Yalow Cre	ek Twp., Co	humbiana Co.	Sampling Dal	Apri	130, 201	ŝ
۱ Ę		Tetra Tech	5				State: OH Sampling Point: SP-30	Sampling Pole	A: SP-30		
Investigator(s)-		E, Kennedy		Š	otion, Tow	Section, Township, Range:		S24, T	S24, TBN, R2W		
Landform (hasteen, termen, etc.):	13	gentie sloope		Local Re	lief (concer	Local Relief (concave, convex, none):	÷	e ou	Stope ()	Slope (%): 5	<u>_</u>
Subrection (LER or MURA):	ļ	LRRN	Ë	40.640187 Long:	יי גי	.:Bu	-80.691189	Datum:		WGS4	
Soli Mao Unit Name:		BkD - Berks channery silt loam, 15 to 25 percent stopes	25 200	ent slopes	ļ		NWI class	NWI classification:	non		
Are constructional conditions on the site traical for this little of year?	lines of the	site troical for this time of	See.		Yes	Yes X No		()f no, explain in Remerica.)	_		
Are Vecetation X Soil or Hydrology significantly disturbed?	les.	, ar Hydrology	, Ge	nificantly disti	urbed?	A-94	Are "Normal Circumstances" present?	kces" present?			
	l	ļ					Yes X	₹	1		
Are Vegetation	13	, Soll , ar Hydrology	Į	naturally problematic?	netic?	(if neede	(If needed, exptain any answers in Remarks.)	were in Romerica.)			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	GS - Attac!	h site map showing s	ulidmes	g point loc	ations, t	ransects,	important fea	itures, etc.			
Hydrophytic Vegetation Present?	sent?	Key		× 2		ls the Sampled		-			

Hydrophytic Vegelation Present?	ζ ⁸⁹	× 2	In the Samoled	
Hydric Soil Present?		× ₽	Area within a	Yes No X
Wettend Hydrobogy Present?	(to	× ž	Weband?	
Remerka:				

maintained new field. Original name EKsp12.

HYDROLOGY		
Watland Hydrology Indicators:		Secondary indicators (minimum of two (equired)
Primery indicators (minimum of one is required; check all that apply	ell thet appty)	Surface Soil Crecks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulikie Odor (C1)	Drainege Pallerns (810)
Seturation (A3)	Chiddred Rhizoephenes on Living Roots (C3)	Mosts Thim Lines (316)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Depoelle (B2)	Recent Irren Reduction in Taed Soles (DS)	Creyfish Burnows (C8)
Drft Deposits (B3)	Thin Muck Surface (C7)	Seturation Visible on Aerial Imagery (G8)
Algel Met or Crust (B4)	Other (Explain In Romerka)	Sturted or Stressed Planta (D1)
Iron Deposits (B5)		Geomorphic Position (DZ)
(nundetion Visititie on Aerial Imagery (B7)		Stration: Aquitard (D3)
Water-Stained Leeves (B9)		hecotopographic Relief (D4)
Aquatic Fauna (213)		FAC-Neudral Test (DS)
Field Observations:		
Surtace Water Present? Yes	No X Depth (increa);	
Water Table Present? Yes	No X Depth (Inches):	nd Hydrology Present
Saturation Present? Yes	No X Depth (Inches):	Yea No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monit	Describe Recorded Data (stream geuge, monitoring weil, serial photos, previous inspections), if available	
Remarke		

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Sampling Point: 30

Dominance 1 est worksheet: Number of Dominant Speckes That Are OBL, FACW, or FAC: 0 (A)	Total Number of Combant Species Acres M Strats: 2 (8) Percent of Combant Species	That has OBL. FACW, or FAC: 0.00%, (AB) Preventence index worksheet: 648) Total % Covers: Multiply by:		Hydrogenydd y Gwendanon nolosabune: 	Definitions of Four Wegetation Strate: Tree - YVGody planks, acutaling views, 3 nr. (2 em) of more of diemedra at haneal height, rageotass of height. Septing - WVGody planks, acutaling woody views, sprostrataby 20 ft (6 m) or more in height, acutaling woody views, sprostrataby 20 ft (1 in 0 rm) in height. Starts - All height, excluding woody views, agrandmeley 3 to 20 ft (1 in 6 m) in height. Marts - All height woody views greater fran 7.28 ft, in height. Woody Unse - Al woody views greater fran 7.28 ft, in height.	Hydrophydc Vagetation Yea No	
Absourte Dominant Indicator % Oxyer Species? Status		0 = Total Cover	0 = Total Coviet	23 T FAQU	= 1000 Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control		arate sheet)
Tree Sheium (Pbt size: <u>30'</u> ) 1.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	7. Saudino Strahum: (Piot Stee: 15') 1.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	3. <u>Tenzacern cottanela</u> 4. <u>Plantopo luncocolas</u> 5. <u>Actilles millenburn</u> 6. <u>Actilles millenburn</u> 7. 7 10. 11. 11. 12.	Miccock Vitree Streaturn: (Pout etce:30;) 1 1 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Remarks: (Individe photo humbers here or on a separate sheat).

(notes)         Cabr (nots)         %         Cabr (mots)         %         Topol         Loc ² Texture         Rem           -0.2         100         100         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240<
Dark Surface (S7)2 cm Muck (A10) (MLRA 147) Potsvotus Batew Surface (S8) (MLRA 147, 148)Coast Prairie Redox (A16)
İ
Loany Gleyed Matrix (F2) Piedrwort Floodplain Solls (F18) Dunteked Matrix (F3) ML24 136, 1471
1
Depholied Dark Surfaces (F7)Other (Explain in Rentarks) Redex Depressions (F8) Tron-Mangamese Masses (F12) (LRR M,
MLPA 138) Unbric Surface (F13) (AULRA 136, 122) Prestrond Trick Dorphinn Sole (F19) (MLPA 149) verbland Trick obger must be aped Penetri Mandard (F21) (MLPA 147, 147) unites destructed or problematio.
Hydric Soll Present?

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:	South Fleid Energy	South Fleid Energy Interconnection Fedities CityCounty. Yetow Creek Twp., Columbiana Co. Sampling Date: April 30, 2015	City/County: Yelk	w Creek Twp., Colu	inblana Co.	Sampling Date:	April 30, 2015	
Applicant/Owner:		Tetra Tech		s	State: OH		SP-31	
Investigator(a):		E. Kennedy	Section	Section, Township, Range:	S24, T9N, R2W	W2W		
Landform (hestope, hence, etc.);	09, etc.);	gentle stoope	Local Refet (	Local Relief (conceres, convex, none):	): concave		Slope (%): 5	
Subregion (LRR or MLRA);	3	LRRN	Lat: 40.640252 Long:		-80.691095	Detum:	WGSB4	
Soll Map Unit Name:	BkD - Berka	BkD - Berks chernery sitt loam, 15 to 25 percent slopes	percent slopes		NWI class/fication:	alion:	none	
Are climatic/hydrologic	conditions on the a	Are cimalic/hydrologic conditions on the site typical for this time of year?		Yes X No (If no, axplain in Remerca.)	(if no, expla	dn in Remerka.)		
Are Vegelation	X Sel	Are Vegelation X , Soil , or Hydrobgy significantly disturbed?	significantly disturbed	7 Are "Norm	Are "Normal Circumstances" present?	s" present?		
				ž	Yes X No	Ŷ		
Are Vegelation	 §	, Soll, or Hydrology	naturally problematic?		(if needed, explain any answers in Remarks.)	a in Romarka.)		

SUMMARY OF FINDNGS - Attach site map showing sempling point locations, transects, important features, etc.

Hydrophylic Vegedation Present? Hydric Soil Present? Wettand Hydrocgy Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wettand?	Yes X No
Rômarks:			
maintained watand (PEA). Orininal name FKso11.			

naintained wettand (PEM). Original name EKsp11.

HYDROLOGY				
Wattand Hydrology Indicators:				Secondary Indicators (minimum of two required)
Primery indicators (minimum of one is required; check al thei apply)	ie is required, check	c al thei apply)		Surface Soil Crecks (B6)
Surface Water (A1)		, E	True Aquatic Plants (B14)	Spersoly Vegeted Concare Sarteca (B3)
Hgh Water Table (A2)		Ē	Hydrogen Suffice Octor (C1)	X Chainege Pallents (810)
X Seturation (A3)		X Oxide	Oxidized Rhizcopheres on Living Roots (C3)	Mous Trim Lines (B16)
Watter Marks (B1)		Prote	Presence of Reduced Iron (C4)	Dry-Season Water Yable (C2)
Sediment Deposits (B2)		Race	Recent Iron Reduction in Tilled Solis (D6)	Crayfleh Burrows (CB)
Drift Cepcells (B3)		Ϋ́Ψ.	Thin Muck Surface (C7)	Seturation Visble on Aarial Imagery (C3)
Algel Mat or Crust (B4)		Other	Other (Explain in Romarks)	Sturted or Stressed Plants (D1)
(Inn Deposits (B5)				Geomorphic Position (D2)
Invindetion Visible on Aerial Imagery (37)	Imagery (37)			Shellow Azultard (D3)
Water-Stained Leaves (B9)				Mircotopographic Relief (D4)
Aquatio Faurta (B13)				FAC-Neutral Test (05)
Field Observations:				
Surface Water Present?	Yes	No	Depth (Inches):	
Water Table Present?	Yes	×	Depth (inches);	Wetland Hydrology Present?
Seturation Present?	Yes X	No	Cepth (inches): 0	Yes X No
(includes capitlery fringe)				
Describe Recorded Data (sire	am gauge, moni	loring well, aerial ph	Dascribe Recorded Data (stream gauge, monitoring weit, series photos, previous inspections), if available:	
Remarka:				
- example of				

### VEGETATION (Five Strata) - Use scientific names of plants.

31

Sampling Point

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Statum (Plot size:30')	* Cover	Species?	Stehus	Number of Dominant Species
- -				That Are OBL, FACW, or FAC: 2 (A)
2				
3.				
			1	Species Across Al Strata: 3 (B)
D.			1	
6				
7				That Are OBL, FACW, or FAC: 66.67% (AB)
	•	= Tolal Cover		Prevalence Instar workshee(:
Sabirito Straium: (Pitol Size: 15	_			
1, <u></u>	1	ĺ		A LOVER OF
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3				sx 2=
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5.				
ie				×5=
7.				Column Totals: 65 (A) 270 (B)
	0	= Total Cover		
Shrub Stratum; (Plot Size: 15')	_			Prevalence (ndex = 6/A = 4.153848154
				Hvdrophytic Vaevtation Indicators:
			}	1 - Rapid Test for Evchootvilo Vecelation
				X 2 - Domhance Test is >50%
				٩.
	Ì			4 - Monbobokal Adeptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
	•	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5'				]
11212	8	۲	FACW	¹ Indicators of thetric solit and welland hydrobook must
	52	7	FACW	be present, unless disturbed or problematic.
•	8	۶	FACU	Definitions of Four Vegetation Strats:
4. Juncus tanuís	5	z	FAC	Tree - Woody piants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of height.
di la constante da la constante da la constante da la constante da la constante da la constante da la constante				Sapling - Woody parts, excluding woody vines, aproximately 20 ft
			Ì	Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 # (1 to 8 m) in health.
Ď.	Ì			
10.				Instructure reproduction (non-woody) parting, reguratess of strop, and woody plants less than 3.28 ft tall.
\$				Woody Vines - All woody vines creater than 3.28 ft in heichl.
	₿	= Total Cover		
Woody Vine Stratum; (Plot size: 30'				
				Hydrophytic
				Vegetation Present? Yes X
		= Tolal Cover		
Dematrie: (locinte aboti sumbar here or on a seperate share)	Versto +hand			

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| ≇ Sampling Point: 31 2 cm Muck (A10) (MUCA 147) Coast Fraiter Rodox (A19) (MULA 147, 148) Prefmont Pood/sian Solar (F18) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, 143) (MULA 134, Ytt X Indicators for Problematic Hydric Solis¹; Indicators of hydrophytic vegetation and wetand hydrobgy must be present, unless disturbed or problematic. ²Location: PL= Pore Uning, M=Mat/Ix. rollie Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Hydric Soil Present? ciayñoam daytoam Color (molst) % Type¹ Loc² Texture × Σ Dark Surface (S7) Folywatue Babas (S7) Thin Dark Surface (S9) (MLRAI 117, (148) Thin Dark Surface (S9) (MLRAI 11, 148) Thin Dark Surface (S7) Peptode Mark (FS) Theore (FS) Theore (FS) MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 130 MLRA 10YR6/1 90 SYR5/1 10 C 20 20 Redox Features ype: C=Concentration, D=Depietion, RM=Reduced Matrix, MS=Masked Sand Grains 80 SYR5/8 * Malt Color (moist) trictive Layer (if observed): 2.5Y6/1 Histosol (A1) Histic Epipedon (A2) Black Histic (A3) hydric Soll Indicators: Type: Depth (inches): 1 ş (inches) 3-12 Cepth anks. SOIL

## WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Luccal Rete # (concaue, currex, nore): noore Skopa (%; 5 40.64051 6 Long: -80.688876 Datum: WGS84 South Field Energy Interconnection Fedilities ChylCourty: Yellow Creek Twp., Columbiana Co. Sampling Date: April 50, 2015 9000 State: OH Sampling Point: SP-32 S18, T9N, R2W Yes X No (If no, explain in Remarka.) thed? Are "Normal Circumstances" present? NWI classification: Section, Township, Hange: Local Relist (concave, convex, none): Yes Section, Township, Range: significantly disturbed? LRRN Leit GoC - Gilpin sitt kenn, 6 to 15 percent skopes Telm Tech gentle sbope LRR N E. Kennedy 1 Landform (hastope, tornece, etc.): Subregion (LFR or MLRA): Soll Map Unit Name: Applcant/Owner: Investigator(s): Project/Site:

Hydrophytic Vegetation Present?	Yes	No X	In the Commed		
Hydric Soil Present?	Yes	fes No X	Area within a	Yes No X	
Wetand Hydrology Present?	Yos	× N	Wettend?		
Remarks:					

successional forest. Original name EKsp10.

Wetland Hydroloov Indicators:				Secondary Indicators (minimum of two required)
Primary indextors (minimum of one Is required; check of Urel sophy)	are la required, ched	« af thet apply)		Surface Scill Cracks (BB)
Surface Water (A1)			frue Aquatic Plants (814)	Sparsely Vegelated Concare Surface (B8)
High Water Table (A2)		Hyde	Hydrogen Suffde Odor (C1)	Drainage Patterns (510)
Saturation (A3)		Odd	Oxistrad Rhitcospheres on Living Roots (C3)	Hose Trim Lines (B16)
Water Marts (B1)		Pres B	Presence of Reduced Iron (C4)	Dry-Season Weter Table (C2)
Sediment Deposits (B2)		B	Racant Iron Raduction in Tilled Solis (C8)	Cray(Mit Burrows (C8)
Drff Deposits (B3)		Ē	Thin Modt Surface (C7)	Saluration Visible on Aarial Imegery (CB)
Agai Mat or Crust (B4)		ð	Other (Explain in Remarks)	Sturried or Stressed Plants (D1)
tron Deposits (B5)				Geomorphic Poetlon (DZ)
Inurdation Visible on Aerter Imagery (B7)	d Imagery (B7)			Shallow Aquitard (D3)
Water-Stained Leaves (B9)				Mircotopographic Relief (D4)
Aquatic Faune (813)				FAC-Neutral Test (DS)
Field Observations:				
Surface Water Present?	Yes	No X	Depth (inches):	
Waler Teble Present?	Yes	×	Depth (inches):	Welland Hydrology Present?
Saturation Present? (includes capitary fringe)	Yes	×	Depth (inches);	Yes No X
Describe Recorded Data (str	ream gauge, mon	toring well, zerial p	Describe Recorded Data (stream gauge, montoring west, series protos, provious trapections). It available:	
Remarks:				

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VEGETATION (Five Strata) - Use adjentific names of plants.	names of plants.	Sampling Pohit: 32
Treat Strainth (Pbd skine: 30') N	Absolute Dominant Indicator % Cover Spectes? Status 50 Y FACU	Doministree Test worksheet: Number of Dominant Species That Are OBL, FACM, or FAC: 3 (A)
2. Acertrebum 3. Overaus rubre 4.	× ×	Total Number of Domisant Species Arcess Arcess Al Strate: 9
	100 = Total Cover	Percent of Domhant Species That And OBL, FACM, or FAC: 33,33% (AB) Prevalence Index Exceptions:
Station Stratum: (PN See: 15 ) 2		Total Sk Conn fr         Multiply br.           OBL speckes         0         x 1 = 0           FACW speckes         10         x 2 = 20           FACW speckes         80         x 3 = 350           FACW speckes         82         x 3 = 350
	- Total Cover	5         x 5 =           157         (A)           157         (A)           velence index = B/A =         3.5859
1 Untua empenenia 2 Promus sercitine 3. Rose muktione	10 T FAUN 20 Y FACU 2 N FACU	Hydrophydic Vegetation Indicatore: 1 - Rupid Teat for Hydrophydic Vegetation 2 - Dominion Teat I = 50% - Dominion Dev Le 50%
· · · 日		<ul> <li>- Transmon purchas</li> <li>- Vinoysko-potski Alagabritoniti (Provide supporting dela 1: Remarks or on a separate sheet)</li> <li>Problematic Hysterphytic Vegelation (Explain)</li> </ul>
1. cuertome regiment 2. cuertome regiment 3. Affreets peopletiele 5.		
۵. 		Septing - Vicory plans, excluding woody view, sprotinalely 20 ft (6 m) or most in height and lease Nam 3 ki, (7.5 cm) DBH. Strub - Vicory plants, excluding woody views, apovinately 3 to 20 ft (1.6 m) in height.
11. 12. Missolu Vine Straturd: (Pool akao: 30°)	40 = Tolsi Cover	visuas, nov moving parate seas uan o oo ruou. Woody Yinee - Al woody vines greater than 3.28 ft in helph t
	0 = Told Cover	Hydroshrydc Vegestalon Present? Yes No <u>X</u>
Ramakes: (Include photo numbers hare or on a separate about	[ iooda	
US Army Corps of Engineers		Eastern Mountains and Piedmont - Version 2.0

	Depth	puon: (Lessinge to t	indep eu:	allinaad oo babaau	Redox Features		гтогие Descriptions: (Lessance to the deput needed to pocument the provertion or current interaction of Deput Watck.	
100     Ben       100     100     Gehnem       100     Gehnem     Gehnem       100     Gehnem     Gehnem       100     Bender     Genem       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       100     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis       101     Bender     Canis	(Inches)	Color (moist)	*		% Type ¹	Loc ²	Texture Ren	arks
100     California       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100     100       100	63	10YE3/2	100				mech.	
Bitter, RM-Starbas Sand Ganins, ¹ - costitor: Fr = Preve Linforg, M+140Fit. Bitter, RM-Starbas of Sand Ganins,       Bitter, RM-Starbas of Sand Ganins, ¹ - costitor: Fr = Preve Linforg, M+140Fit. Bitter, RM-Starbas of Singlesor (S1)       Dark Surface (S2)        Control for Problematic Hydric Sand: Control for Problematic Hydric Sand: Control for Sanface (S2) (RULAN 117, 143)       Dark Surface (S2)        Control for Problematic Hydric Sand: Control for Sanface (S2) (RULAN 117, 143)       Dark Surface (S2)        Control for Problematic Hydric Sand: Control for Sanface (S2) (RULAN 117, 143)       Dark Surface (S2)        Control for Problematic Hydric Sand: Control for Sanface (S2) (RULAN 143, 143)       Dayabac (Dark Surface (F2))        Control for Problematic Hydric Sand: Control for Sanface (F2) (RULAN 143, 143)       RAN, Muchangarase (F2) (LIRE N, MLEN 173)        Control for Properties (S2) (RULAN 143, 143)       RAN, Muchangarase (F2) (LIRE N, MLEN 173)        Control for Properties (S2) (RULAN 143, 143)       RAN, Muchangarase (F2) (RULAN 143, 143)        Control for Propeosition and Control for Propeosition and Control for Propeosition and Control for Problematic.       A        Muchangarase (F2) (RULAN 143, 143)	3-6	10YR5/8	100				clayhoam	
Bits     1.2.001     2.001 (Mit-Percenter Metric, Mitchelised Sand Centur, Bits-Recover Metric, Mitchelised Sand Centur, Device Metric, Mitchelised Sand Centur, Poysward Metric (P3)     1.2.001     2.001 (Mitchelised Sand Centur, Device Metric, (Mitchelised Sand Centur, Poysward Metric (P3)       Davk Surface (S7)     2.001 (Mitchelised Sand Centur, Poysward Metric (P3)     2.001 (Mitchelised Sand Centur, Mitchelised Sand Sand Sand Sand Sand Sand Sand San	æ	refusal						
Bits	İİ							
Biter, RM-Recorded Matter, Mis-Massed Sand Geales.     2. coeffice: Fr = Pree Liniting Michatric dealers.       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (S)     Cash Surface (S)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Number (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F)     Cash Surface (F)       Dark Surface (F) <td></td> <td></td> <td>1</td> <td>ļ</td> <td></td> <td></td> <td></td> <td></td>			1	ļ				
Bit Marker, Micharakad Sand Grains.     1.000fbcr. Fr. = Prov Linking, Micharis.       Dark Surface (S7)     Zan Muck (A10) (MLRA 147)       Provisional Biolow Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A10)       Dark Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A11)       Dark Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A11)       Dark Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A11)       Dark Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A11)       Dark Surface (S8) (MLRA 147, 148)     Zan Praini Redox (A11)       Deviced Dark Surface (F8) (MLRA 147, 148)     Zan Praini Redox (A11)       Deviced Dark Surface (F8)     Deviced Dark 24.       Deviced Dark Surface (F8)     Deviced Dark 24.       Deviced Dark Surface (F8)     Deviced Dark 24.       Deviced Dark 24.     Deviced Dark 24.       Deviced Dark 24.     Deviced Dark 24.       Deviced Dark 24.     Deviced Dark 24.       Deviced Dark 24.     Deviced Dark 24.       Deviced Dark 24.     Deviced Dark 24.       Umbor 25.     Deviced Dark 24.       Dark 24.     Deviced Dark 24.       Dark 24.     Deviced Dark 24.       Dark 24.     Deviced Dark 24.       Dark 24.     Dark 24.       Dark 24.     Dark 24.       Dark 24.     Dark 24.       Dark 24.     Dark 24.			İ					
elice. RH-Prochood Matrix, MSS-Masterd Sand Grains. Dank Surface (S7) Dank Surface (S7) Think Dank Sarfarea (S8) (MLRA 147, 143) Think Dank Sarfarea (S8) (MLRA 147, 143) Think Dank Sarfarea (S8) (MLRA 147, 143) Depended Matrix (72) Depended Matrix (72) Depended Matrix (72) Depended Matrix (72) Depended Matrix (72) Depended Matrix (72) DAK N, Matrix (72) DAK N, Matrix (72) DAK 143) DAK 143 MALA 143, 143) DAK 143 MALA 143, 143) DAK 143 MALA 143, 143) DAK 143 MALA 143, 143) DAK 143 MALA 143, 143) MALA 143, 143) MALA 143, 143) MALA 143, 143) MALA 143, 143) MALA 143, 143) MALA 143, 143) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 144, 144) MALA 147, 147, 147, 147, 147, 147, 147, 147,								
Dark Surface (S7)     Indicators for Problematic Hydre solut: <ul> <li>Dark Surface (S7)</li> <li>Dark Surface (S7)</li> <li>Dark Surface (S7)</li> <li>Dark Surface (S7)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine Reson (A18)</li> <li>Dark Paine R</li></ul>	Ture Cacono	entration De Naciation	RM=Reduction	wi Malifix MS=Maeke	d Sand Gaine		² Location: PL= Pore Linino. M=Matrix	
Derf Surface (S7)     2 on fluck (A10) (ALL/A 147, 143)       Thin Dark Surfaces (S7)     2 on fluck (A10) (ALL/A 147, 143)       Thin Dark Surfaces (S8) (ALL/A 147, 144)     2 on fluck (A10) (ALL/A 147, 143)       Learny Cleyead Mark (P2)     (ALL/A 147, 144)       Device Surfaces (S8) (ALL/A 147, 144)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 147, 144)       Device All fract (P3)     (ALL/A 142, 144)       Device All fract (P3)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 142)       Underformed (Fa) (ALL A14)     (ALL/A 143)       Underformed (Fa) (ALL A14)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 144, 144)       Underformed (Fa) (ALL A14)     (ALL/A 143, 144)       Underformed (Fa) (ALL A14)     (ALL/A 144)       Underformed (Fa) (ALL A14, 144)     (ALL/A 144)       Underformed (Fa) (ALL A14, 144)     (ALL/A 144)       Underformed (Fa) (ALL A14)     (ALL/A 144) <td>hydric Soil Indi</td> <td>cators:</td> <td></td> <td></td> <td></td> <td></td> <td>Indicators for Problematic Hydric S.</td> <td>Als¹:</td>	hydric Soil Indi	cators:					Indicators for Problematic Hydric S.	Als ¹ :
Coast Primie Redort (x16)     Coast Primie Redort (x16)       Thin Damy Geyen Matrix (72)     Livrany Carlow (15) (NLXA114)     Coast Primie Redort (x16)       Deviced Matrix (73)     Padrant Exoplant Solids (71)     Padrant Exoplant Solids (71)       Deviced Matrix (73)     Const (12,144)     Padrant (12,147)       RX N,     Papalad Data Suttine (F9)     Very Statian (F12)       RX N,     Papalad Data Suttine (F9)     Very Statian (F12)       RX N,     Industrix (73)     Very Suttine (F1)       RA N,     MLXA113     Very Suttine (F1)       RA N,     Industrix (73)     Very Suttine (F1)       RA N,     MLXA123 ¹ Indisater of trytopytytic vegatation and Primeria Data Solid Tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tratt 143, tra3, tratt 144, tratt 143, tratt 143, tra3, tratt 144, tratt	Histosol (A:	()		Dark Surface (S7,	(		2 cm Muck (A10) (MLRA 147)	
Thi On Statewe (55) (NLRA(47, 144)     (NLLA 147, 144)       I.Learry (Seyeal Mark (72)     Perional Exciptant (52)       Deviced Mark (72)     Perional Exciptant (53)       Deviced Mark (72)     Perional Exciptant (53)       Deviced Mark (72)     Perional Exciptant (53)       Deviced Mark (72)     Perional Exciptant (51)       Deviced Mark (72)     Period (71)       Deviced Mark (72)     Period (71)       Deviced Mark (72)     Period (71)       Deviced Mark (72)     Period (71)       Deviced Mark (72)     Period (71)       Deviced Mark (71)     Period (71)       Deviced Mark (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)       Device (71)     Period (71)	Histic Epipe	edon (A2)	, 1	Polyvalue Balow (	Surface (S8) (MLRA 147.1	<b>(</b> 8 <b>)</b>	Coast Prairie Redox (A18)	
Loamy Gale Matrix (72)     — Polymoral Matrix (72)       — Dopriod Matrix (72)     — Polymoral Matrix (72)       • (A11)     — Dopriod Matrix (72)       • (A12)     — Polymoral Solar Sources (75)       • (A12)     — Polymoral Sources (75)       • (A12)     — Polymoral Sources (75)       • (A12)     — Polymoral Sources (75)       • (A12)     — Cohen (50 points Sources (75)       • (A12)     — Cohen (50 points Sources (75)       • (A12)     — Cohen (50 points Sources (75)       • (A12)     — Cohen (50 points Sources (75)       • (A12)     — Cohen (50 points Sources (75)       • (A12)     — Cohen (75 points (75)       • (A12)     — Cohen (75 points (75)       • (A12)     — Matrix (75)       • (A12)     — Matrix (75)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12)     • (A12)       • (A12	Black Histo	(FM) 0	'	Thin Dark Surface	e (S9) (MLRA147, 148)		(MLRA 147, 148)	
(1)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (2)     Texpeter (17)       (3)     Texpeter (17)       (4)     Texpet	Hydrogen S	Sulide (A4)	ŗ	Loamy Gleyed Ma	strb: (F2) 5:01		Pladmont Floodplain Solis (F18)	
<ul> <li>B. M.Y.) Topological (Jack Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li> <li>Cahan (Stock Surfamer VI)</li></ul>	Straumed L	ayers (Ab) (Addy fi De Lû	ı	Padov Cade Suids	(-3) see (E8)		Very Sheline Date Surface (TE12	_
AR N. (Redox Cepressions (F12) (LFR N, ILLM 123) LIN 1293 LIN 1293 LIN 1293 LIN 1293 Profinicial Fronting (F13) (HLRA 133, 122) Profinic Surface (F13) (HLRA 123, 124) Redox Profile Sol (Front I) Profile Sol Present 1 Kall Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1 Note: Sol Present 1	Depleted B	elow Dark Surface (A11)	' ~	Depleted Dark Su	rtaca (F7)		Other (Explain In Remarks)	
AR N. Incr-Manasos (F12) (LRR N, LRR, A. 100-Manasos (F12) (LRR N, UrmAn Surface (F13) (AL RA 138, 122) 'Indiasiene of hydrophyfic vegalation and Personal Disologian Sols (F19) (AL LAA 138) 'wellach fly folder and the fractional (F21) (AL LAA 138) 'wellach fly folder and the fractional (F21) (AL LAA 137, 147) 'wellach fly folder and the fractional (F21) (AL LAA 137, 147) 'wellach fly folder and the fractional (F21) (AL LAA 138, 122) 'hydrof and an and the fractional (F21) (AL LAA 138, 122) 'hydrof and an and the fractional (F21) (AL LAA 138, 122) 'hydrof and an and the fractional (F21) (AL LAA 138, 122) 'hydrof an and an an an an an an an an an an an an an	Thick Dark	Surface (A12)		Redox Depressio	ns (F8)			
Alloch 1.30     -Undication 50.00     -Undication software and the strate of the second by the software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software software	Sandy Muc	ky Mineral (S1) (LRR N,	'	Iron-Manganese /	Masses (F12) (LFR N,			
Additional Floorgian Sole, (F1B), (al.EA.145)     welland hydrobyr must to present.       Real Parent Material (F21) (al.LEA.127, 147)     unesa dilaurada or problematic.       Add     Hydrobyr Sol Present?	South Glevi	07, 148) eri Malrix (S.4)		MLKA 136) Limbde Surface (F	713) (MCRA 136, 122)		¹ indicators of indecentific vecelation :	por
Road Parent Material (P21) (MLRA, 127, 147) urfees distarbad or problematic.	Sandy Red	ox (S5)	, ,	Piedmont Floodpt	tein Solis (F19) (MLRA 148	~	welland hydrology must be present	
K Ilydric Soil Freend? Yes	Stripped Ma	atrix (56)	1	Red Parent Mater	rial (F21) (MLRA 127, 147)		uniess disturbed or problematic.	
6 Flydrio Soll Freenri	estrictive Lay	er (Hiobserved):				Γ		
hydric Soil Fraent? Yea	Type:	bedrock						
	Depth (inch							× N
	emerks:					1		

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11

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Sile:	SOULD FIER EVEN			VIDIO ANNIO	I WD., LAURING		- Inter Sunda	sourn Fried Erheigy Intercommection Facilities Unity County Yellow Creek Two, Countriente Co. Sampling Date: April 30, 2015
Applcant/Owner.		Teira Tech			State:	State: OH Samping Point: SP-33	ping Point:	SP-33
Investigator(s):		E. Kannady	~	Section, Township, Range:	p, Range:		S18, T9N, R2W	R2W
Landform (hillstope, terrace, etc.);	nace, etc.):	alopa	Local	Local Refet (conceve, convex, none):	stress, none):	CONCRVB		Slope (%): 10
Subregion (LRR or MLRA):	(FRA):	LRRN LI	Lat: 40.63994	M Long:		-80.681529	Datum:	WGS84
Soli Map Unit Name:		BkE - Berks channery silt loam, 25 to 40 percent slopes	Dercent slopes			NWI classification:	Ë	DONE
ve climatic/hydroiogi	d conditions on the	Are climatic/hydroiogic concilions on the site typical for this time of year?	ar?	Yess X	£	Yes X No (If no, explain in Remarks.)	Remarks.}	
Are Vegetation	, Soil	. Soil, or Hydrobgy	significantly disturbed?	terhed?	Are "Normal Cl	Are "Normal Circumstances" present?	resent?	
					Yes	Yes X	ę	
Are Vegetation	, Soil	, Soil , or Hydrology	netwally problematic?		(if needed, explain	(If needed, explain any anewers in Remarks.)	Temarks.)	

SUMMARY OF FINDRNCS - Attach site map showing sampling point locations, transacts, important features, etc.

ion Present?	Yes X No	£	Is the Sampled			
Hydric Soll Present?	Yee	£	Area within a	× sex	Xee X Set	ł
Wettand Hydrology Present?	Yes X	No.	Wetland?		W-21	ł
Remarks:						
: pem wettand. Original name EKsp7						

НҮДКОГОӨҮ		
Wettand Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary indicators (minimum of one is required; check all (hell apply)	al thei apply	Surface Soil Cracks (86)
Surface Water (A1)	True Aquatic Plants (B14)	Spanady Vogetated Concerve Surface (BS)
High Water Table (A2)	Hydrogen Sulide Odor (C1)	X Drahage Patierna (B10)
Saturation (A.3)	X Oxidized Rhibospheres on LMing Roots (C3)	Mose Trim Links (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Record from Reduction in Tiled Solis (C8)	Crayfish Burrows (C8)
Orth Deposits (B3)	Thin Muck Surface (C7)	Seturation Veble on Aerial Imagery (O8)
Agai Mai or Crusi (B4)	Other (Explain In Remerks)	Sturted or Stressed Plants (D1)
Iron Deposts (\$5)		Geomorphic Position (D2)
Immdation Visible on Aerial Imagery (B7)		Shallow Aquited (D3)
Water-Stained Leaves (39)		X Mircotopographic Resear (D4)
Aquetic Fauna (B13)		FAC-Neutral Tissi (05)
Field Observations:		
Surface Water Present? Yes	No X Depth (Inches):	
Weter Table Present? Yes	No X Depth (inches);	Weldend Hydrology Present?
Saturation Present? Yes	No X Depth (Inches):	Yes X No
199)		
Describe Recorded Data (stream gauge, monito	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks:		

### VEGETATION (Five Strats) - Use scientific names of plants.

8

Sampling Pohl:

•				
	Absolute	Dominant	Indicator	Dominance Teat worksheet:
Irres Statum (Prot stos: 30 )	K Cover	Species?	Status	Number of Dominani Species
1. Prunus sarolina	\$	>	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant
				Sherdes Acrose all Strals* 3 (B)
			ļ	
		ļ		
g				
				That Are UBL, FACW, or FAC: 33.33% (A/B)
	\$	= Tolal Cover		
Sapting Stratum: (Plot Size: 15 )	~			Prevalence (ndex worksheet:
				Total % Cover of: Mulsply by:
			l	22 X 7=
4.				FAC species 20 x 3 = 60
				FACU species 15 x 4 = 80
7.			Į	Column Tolses: 70 (A) 180 (B)
	٥	<ul> <li>Tolal Cover</li> </ul>	_	
Shrub Stratum: (Plat Size: 15')				Prevelence Index = 8.4 = 2.571428571
	15	۲	2	
				Hvdrophytic Vegetation Indicators:
				1 - Ranki Tael for Hudsonbolic Vecentation
				۰ı
				data in Remarks or on a seconda shad)
7.				
	15	= Tolal Cover		Problematic Hydrophylic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5'	~			
1. Dichanthalium clandoslinum	25	۲	FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Persicerte segittate	10	N	OBL	be present, unless disturbed or problematio.
3. Juncus ellusus	10	z	FAC	Defaultons of Four Vegetation Strata:
•	₽	N	FAC	Tree - Woody stants, excluding whes, 3 in. (7.6 cm) or
E definition referention	ŧ	1	EACIT	more in diameter at breast height (DBH), regardless of height.
•				Castless - Monda and and all and all a second and all and a
<ol> <li>Symportanim sp.</li> </ol>	0	2		estima = moory pants, excending woory mass, aproximatery zo m (6 m) or more in haicht and leas than 3 ln. (7.6 cm) DBH.
			ļ	
			ļ	entur - ***********************************
B			l	
10				Herb - All herbaceous (non-woody) plants, regardless
11				
12.				Woody Vines - Al woody vinits greater than 3.28 ft in height
	R	= Total Correct		
Woody Vine Stratum: (Plot size: 30')	~			
2				
				Mydrophytic Vicential
				Present? Yes X
				( ]
······································	-	= Total Courar		
	,   			
Remarks: (Include photo numbers here or on a separate sheel.)	paratø sheel.)			

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Obstitution         Octor         IC         Control         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC         IC <th>0.         Case (metal)         8         Cohe (metal)         8         Teams         Teams         Teams         Teams           007042         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00</th> <th>0.1         Cabe (motel)         %         Type¹         Loc²           10076222         100         10076222         100         1007622         100           10076422         100         1007642         100         1007642         100         1007642           10076422         100         1007642         100         1007642         100         1007642           1007642         100         1007642         100         1007642         100         100           1007642         100         1007642         100         1007644         100         1007644         100           1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007</th> <th>Tockne         Remarks           bern         bern           bern         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom</th>	0.         Case (metal)         8         Cohe (metal)         8         Teams         Teams         Teams         Teams           007042         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00	0.1         Cabe (motel)         %         Type ¹ Loc ² 10076222         100         10076222         100         1007622         100           10076422         100         1007642         100         1007642         100         1007642           10076422         100         1007642         100         1007642         100         1007642           1007642         100         1007642         100         1007642         100         100           1007642         100         1007642         100         1007644         100         1007644         100           1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007644         1007	Tockne         Remarks           bern         bern           bern         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           clayhom         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom           dlaucar sta         clayhom
IDPR/2         100         bern           0705/02         100         0705/01         100           0705/02         100         0705/01         100           0705/02         100         0705/01         100           0705/02         100         0705/01         100           0705/01         100         0705/01         100           0705/01         100         0705/01         100           0705/01         100         0705/01         100           0705/01         100         0705/01         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100           0705/01         100         100         100	IDPR/2         100         beam         beam           070242         100         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	IDPRI27         100           IDPRI27         100           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27         IDPPRI27           IDPPRI27	bem Servina Gerynam Gerynam Gerynam Carlon for Problamute hydre Solle ² : Carl Muck (x10) (MLRA (47) Carlon Throughan Sola (41) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA
IDPR02         100         00m         00m           IDPR02         B0         IDDPR04         IDDPR04         IDDPR04           IDDPR04         B0         IDDPR04         IDDPR04         IDDPR04           IDDPR04         B0         IDDPR04         IDDPR04         IDDPR04           IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04           IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04           IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04           IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04         IDDPR04	IDPRIME         IDP         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME         IDPRIME <thidprime< th=""> <thidprim< th=""> <thidprim< td=""><td>OPFRAZZ         100         100         0         0           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           10000000000000         1000000000000000000000000000000000000</td><td>bem deryfoern cearforn: Pin- Proe Lufrig, M-Møtrik. Coarton for Probannalic hydrie Solat": 2 an Muck (A10) (MLRA 147, 2 an Muck A17, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLR</td></thidprim<></thidprim<></thidprime<>	OPFRAZZ         100         100         0         0           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           100764/2         80         500762/1         10         0         M           10000000000000         1000000000000000000000000000000000000	bem deryfoern cearforn: Pin- Proe Lufrig, M-Møtrik. Coarton for Probannalic hydrie Solat": 2 an Muck (A10) (MLRA 147, 2 an Muck A17, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLRA 147, 148) (MLR
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    IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRUZ         IDDRU	OPPort         60         Feature         60         Feature           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International           International         International         International         International         International	107764/2         50         107762/1         10         C         M           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0  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(TE)     Mucic Machine (TE)       Dath Machine (TE)     Mucic Machine (TE)     Mucic Machine (TE)       Dath Machine (TE)     Mucic Machine (TE)     Mucic Machine (TE)       Dath Machine (TE)     Mucic Machine (TE)     Mucic Machine (TE)       Dath Machine (TE)     Mucic Machine (TE)     Mucic Machine (TE)	Mucic (M10) (LRK N,       Reacon Dath Surface (Tr)       Vory Shaferon (Dath Surface (Lat)         And Shart (LT)       Xurban (H12)       Vory Shaferon (Dath Surface (Lat)         Dath Sart (Lat)       Xurban (H12)       Other (Explain In Remarks)         Dath X, Sart (Lat)       Dath Name       Dath Name         Mucic Shart (Lat)       Dath Name       Other (Explain In Remarks)         Mucic Shart (Sa)       University Shart (Sa)       Dath Name         Mucic Shart (Sa)       University Shart (Sa)       University Shart (Sa)         Mucic Shart (Sa)       University Shart (Sa)       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       Product (Sa)         Mucic Shart (Sa)       Dath Name       Product (Sa)         Mucic Shart (Sa)       Dath Name       Product (Sa)         Product (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name       University Shart (Sa)         Mucic Shart (Sa)       Dath Name <t< td=""><td>Muck (A10) (LBR N) and Baby Districts (A11) <u>X</u> Becon: Der Suntan (Fe) and Baby Districts (A11) <u>X</u> Becon: Der Suntan (Fe) and Baby District (FE) (LBR N, <u>Inch Andrea (Fe)</u> (LBR N, LBA 131, 142, 143) <u>Inch Andrea (Fe)</u> (MLBA 145) Andre Suntan (S2) <u>Pleatron (Fe)</u> (MLBA 145) Secon (S5) <u>Pleatron (Fe)</u> (MLBA 145) pod Matic (S5) <u>Pleatron (Fe)</u> (MLBA 145) (MLBA 147, 147) pod Matic (S5) <u>Pleatron (Fe)</u> (MLBA 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 147, 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) (MLBA 145) 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Other Dark Surface (A11)     X     Deplete Out Surface (F1)     Other (Expette In Remarks)       Conf Surface (A11)     Resco Domesion (F3)     Other (Expette In Remarks)       Other Surface (A12)     Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States (F2) (LRN N, Immediate States 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Dark Surface (A11) X Deplated Out Surface (F7) Cark Surface (F12) (LER N, Redox Depression (F2) (Dark Surface) (F12) (LER N, Inc.Adargemes Alasses (F12) (LER N, Inc.Adargemes Alasses (F12) (LER N, Inc.Adargemes Alasses (F12) (ILEA 143) DA 141 (F2) (ILEA 143) Deplation (F2) (ILEA 143) Placin (F2) (ILEA 143) Deplation (F2) (ILEA 143) Place (I observed): Face Parent Material (F2) (ILEA 127, 147) (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A (Inclue): Deplation (F2) (ILEA 127, 147) A 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(F2)	Other (Explain in Remarks)
Calif Standard (k12) Calif Standard (k12) Calif Standard (k12) Calif Standard (k12) Calif Standard (k12) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Standard (k13) Calif Calif Calif Calif Calif Standard (k13) Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif Calif	Call Startions (K12)	Coaff Sufface (12) Coaff Sufface (12) Coaff Sufface (12) Coaff Sufface (12) Coaff Sufface (12) Cuart (14) Cuart (14) Cuart (14) Cuart (14) Cuart (14) Cuart (14) Cuart (15) Cuart (14) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuart (15) Cuar	
An Arriver     Increases acress     Full (Lick N, Lick Arriver)       An Arriver     Unable of the second and the second acress     Full (Lick N, Lick Arriver)       Present (Ss)     Unable of the second acress     Full (Lick 1, 12, 12, 12, 12, 12, 12, 12, 12, 12,	An Antrine I. (Luck N, Increments ensures for 21 (Luck N, Increments) ¹ Indicators of hydrophytic wegatistion and ILBA 131, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142, ILBA 142,	Variancy means (12), (Lott R,	
Productions     Thronications of Myturphytic vegotation und Witherations     Thronications of Myturphytic vegotation und withen thyronosign mat to present.       y Recox (55)     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Withen thyronosign mat to present.       you for the second matrix (58)     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Withen thyronosign mat to present.       you for the second matrix (58)     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Withen the present.       you for the second matrix (58)     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Withen the present.       you for the second matrix (58)     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Withen the present.       a Layer (f1 observed):     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Yes       n (profine):     Peadmont Ebooption Sole (F3) (ALLAA, 14)     Yes	Production of ty Record (55)     Throng (F13)     Throng (F13)       Predomoti Solid (18.14.14)     Throng (18.14.14)     Throng (19.14.14)       Vietation of Matrix (53)     Read (F23)     Throng (18.14.14)       Death (12.11)     Read (F23)     Throng (12.11)       Death (12.11)     Read (F23)     Throng (12.11)       Death (12.11)     Read (F23)     Throng (12.11)       Death (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Throng (12.11)       Read (12.11)     Read (12.11)     Through (12.11)       Read (12.11)     Read (12.11)       Read (12.11)     Read (12.11)       Read (12.11)     Through (12.11)       Read (12.11)     Through (12.11)       Read (12.11)     Through (12.11)       Read (12.11)     Through (12.11)       Read (12.11)     Through (12.11)       Read (12.11)     Through (12.11)       Re	y Garoon Marker (S4) Umbro Straton (F12) (MLRA 136, 122) y Record (S5) Teadmont Poncipality Sola (F12) (MLRA 145) pod Marker (S5) Record Poncipality (F21) (MLRA 145) re Layer (f1 Observed):	
N Redox (S5)     Padmont Poordpain Sole (F is) (NLEA 145)     welland hydrokyy minst be present, welland hydrokyy minst be present.       Ped matrix (S6)     Red Pament Maleria (P21) (JuLEA 127, 147)     writera disurbug or problematic.       R Large (ff observed):     Hydrok Sell Present?     Yes       A (Ordine):     Hydrok Sell Present?     Yes	Ki Rekku (SS)     Pluefinoni Poordpinin Suls (Fi 3) (NL RA 145)     welland hydrodgy mind to present.       Ded Matic (SS)     Read Parent Malerial (P2 1) (NL RA 127, 147)     unless distribut or problematic.       Read Parent:     Read Parent Malerial (P2 1) (NL RA 127, 147)     unless distribut or problematic.       Read Parent:     Read Parent Malerial (P2 1) (NL RA 127, 147)     unless distribut or problematic.       Read Parent:     Read Parent Malerial (P2 1) (NL RA 127, 147)     unless distribut or problematic.       An Unless:     Indexe:     Hydrife Sell Present:     frame	y Reiou (SS)Pedmont Foodpain Sole (F (s) (MLRA 148)Rod haint: (SS)Rod Panent Material (F2 1) (MLRA 147)R	ndicators of hydrophytic veoetation and
pod Mark (SS)Rad Parent Malerial (P21) (MLRA 127, 147) Unless disurbag or problamatic.	pod Matrik (SS)Rad Parent Maleria (P21) (MLRA 127, 147) urdesa disurbad or problematik. re Layer (If observed): f (podnes): f (podnes): f (podnes):	poor Marik (SG)Read Parent Maleria (T21) (MLEA 127, 147)H4	welland hydrology must be present,
ne Layre (If observed):	ne Layre (If observed):	h (indicates):	uniess disturbed or problematic.
N (of close): Hydrice Soul Present: Yes X			
	<b>16</b>	191	Xes X

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Project/Site:	South Fleld Ener	South Flekt Energy Interconnection Facilities City/County: Velicent Creek Twp., Columbiana Co. SamPhing Date: April 30, 2015	City/County	Yellow C	reek Twp.,	Columbiana C	20. Saripling [	Date:	April 30, 2015	
Applcant/Owner:		Tetra Tech				State: OI	State: OH Samping Point: SP-34	olat:	SP-34	
(mestigator(s):		E. Kennedy		Section, Township, Range:	wriship, Ra		Yellow Creek Township	ą		
Landform (nilisiope, terrace, etc.):	srece, etc.):	stope	Local	Local Relief (concave, convex, none):	áve, corvex,	:(eucu	nonê		Slope (%): 10	
Subregion (LRR or MLRA):	MLRA):	LRRN	Lat: 40.639897 Long:	1 <u> </u>	:Buo	-80.681609	09 Datum:	stum:	WGS84	
Soil Map Unit Name:		BkE - Berks channery sit kxem, 25 lo 40 percent skopes	10 percent slopes			IMAN	NWI classification:		nore	
Are climatic/hydroto	gic conditions on the	Are climatic/hydrologic conditions on the site typical for this time of year?	rear?	Yes	×	تر   	Yes X No (If no, explain in Remarks.)	Ţa.)		
Are Vegelation	, Soll	Are Vegelation Soll , or Hydrology significantly disturbed?	significantly di	flecture	ş	Normal Circum	Are "Normal Circumstances" present?	57		
1						¥es	Yes X No	1		
Are Vegetation	Soil	, Soil or Hydrology	naturally problematic?	emetic?	) (Tree	odod, explain any	(If needed, explain any answers in Remarks.)	6		
	MUNICE A	SUURSEADY AE GINDINGS - Maash bija muu ahaajina uminin majat katalinus transachs jimnarjari faatuwas ofo	i talan salat j	cations	traneart	- imnortani	fasturae. Afc.			

יווופע פווויקווויסע אוווי 1 SUMMARY OF FINDINGS - Attach

Hydrophytic Vegelation Present?	Yes	× ¥		
Hydric Soil Present?	Yes No X	Xo No	Area within a Yes No X	
Wettand Hydrology Present?	Yes	Xo M	Weltand?	
Remarks:				
shrub. Originaf name EKsp8.				

HYDROLOGY		İ	Ì
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primery indicators (minimum of one is required; check all their apply)	k al thet apply	ļ	Surface Sol Cencia (36)
Surface Water (A1)	( i 1	True Aquatic Plents (B14)	Sparsely Vegelated Concave Surface (B8)
High Water Table (A2)	Hydroge	Hydrogen Sutitie Orbir (C1)	Creinage Patterna (810)
Seturation (A3)	Ordfaed	Oxidized Rhizospheres on Living Roots (C3)	Moss Trits Lines (316)
Weler Marks (B1)	Presence	Presence of Reduced Iron (C4)	Dry-Settion Water Table (C2)
Sedment Deposits (B2)	Record	Recent Iron Reduction in Tilled Solts (OB)	Chayteth Burrows (CB)
Drift Deposits (83)	ow vit	Thin Muck Surface (C7)	Seluration Visible on Aerial Imagery (C8)
Algel Mei or Cruet (B4)	Oner	Other (Explain in Remarks)	Sturged or Stressed Plants (D1)
Iron Departs (85)			Georecrythic Position (D2)
Inundation Visible on Aertal Imagery (B7)			Shukow Aquitard (D3)
Water-Stained Leeves (B3)			Macolopographic Relief (D4)
Aquallo Faume (813)			FAC-Neutral Test (D5)
Field Observations:			
Surface Weter Present? Yes	X ov	Depth (inches):	
Water Table Present? Yes	× %	Depth (Inches):	Wettand Hydrology Present?
Saturation Present? Yes	No X	Depth (inches):	Yes No X
processo comes runger, Describe Recorded Data (stream gauge, monitoring well, aerial priotos, previous inspections). If available	itioring well, serial phote	os, previous inspections), if avaitable:	
Remarks:			

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VEGETATION (Five Strata) - Use scientific names of plants	lic names of plants.	Same@ing Point: 34
Tree Stratur (Pht strat: 30')	Absolute Dominant inditation % Covier Specials? Status 5 Y FACU	Dominance Test worksheet: Number of Contriant Species That Are OBL, FACW, or FAC: 0 (A)
		Total Number of Dominant Species Across At Strate: 4 (8)
R	= Total Cover	Percent of Donitant Species That Am OBL, FACW, or FAC: Prevelence Index worksheet:
		Total % Cover cf.         Multipy by:           Cell species         0         x 1=         0           PACW species         0         x 2=         0           FAC species         0         x 3=         0           FAC species         2         3=         0
6. 7. 2	0 = Total Cover 75 Y ND	UPL species 0 x 5= 0 Coumm Tostus: 7 (A) 28 (9) Prevelences Index = 51A 4
		Hydrophytic Vegeusion Indications: 1 - Rapid Test for Hydrophydic Vegelation 2 - Doministro Test 5-505 3 - Emerikation Indick 6-5 01
	75 = Total Cover	<ul> <li>4. Monthageal Mapbalans¹ (Provide supporting data In Narrauko or on a saparata sheet)</li> <li>Problematic Hydrophylic Vegelation (Explain)</li> </ul>
(1- Post and a construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the constructio	25 Y ND 15 Y ND 2 N FACU	¹ Indications of thy of the soil and willings in hydrology must be present, upliess deturbed or problematic. Definitions of Fourt Vagertation Stratas: (3 cm) of Tares - WOOD patiest, sectory of thes, (7 cm) non-others of Andriv monois in distrondance at instant (1 paties). Incorrelates of Andriv
		Septing - Woody parts, sustained, woody vives, spoorinality 20 ft (6 m) or more in height and less than 3 lin. (7.6 cm) DBH. (7.16 strub - Woody Mais, avoluting woody vires, aproximately 3 to 20 8.4.1.16 bits.
	47 = Tolal Cover	w/w cm/mmagnt. Herro - All macheosona (non-wooth) plants, ngardless of size, and woody plants less ban 3.28 ft all halphl. Woody Vines - Al woody vires greater than 3.28 ft in halphl.
Microcit Vitre SiteRupm: (Fold store:0/)	0 = 1046 Cover	Hydophylic Vegetalon Present? Yes No
Remarks: (include phote numbers have or on a soperate sheet)	( invest)	
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(incres) Coor (moist)	*	Redox Features Color (motst) % Type ¹ Loc ²	Depth         Match         Redoct Features           (nochos)         Coder (model)         %         Typel         Loc ² Texture
	ş		koam
			chybam
ype: C=Concentration, D=Depletio	n, RiMaReduc	Type: C=Concentration, D=Depletion, Rith=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL= Pore Lining, M=Matrix.
Hydric Soil Indicators:			Indicators for Problematic Hydric Solis":
Histosol (A1)	•	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2) Shot Listic (A3)	•	Polyvalue Sepw Surface (S8) (MLRA 147,146) This Dark Surface (So) (M1 2447,148)	COAST PTAILING RECOX (A10)
Hydrogen Suffice (A4)	·	Loamy Gleved Matrix (F2)	Pledmont Floodplain Solls (F19)
Stratified Layers (A5)	- •	Depieted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	'	Redox Dark Surface (F8)	Very Shallow Dark Surface (TF12)
Depieted Below Dark Surface (A11) Thisk Dark Surface (A12)	E	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Sandy Mucky Mineral (S1) (LRR N,	, v	from Manganese Masses (F12) (LRR N,	
MLRA 147, 148) Sandy Geved Maltix (S4)		MLRA 136) Umbric Surface (F13) (MLRA 136, 122)	³ indicators of hydrophylic vegelellon and
Sendy Redox (S5) Stringed Marine (S8)		Piedmont Floodpialin Sofis (F19) (MLRA 149) Red Parent Material (F21) (MLRA 147)	weltand hydrobgy must be present. Unders disturbed of problematio.
	•		
Restrictive Layer (if observed): Tune:			
Depth (inches):			Hydric Soll Present? Yes No X
Remarks			

• *

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WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

		Creak Imp., Coll	mbiana Co.	Sampling Date:	South Fletc Energy Interconnection Facilities City/County: Yetow Creek Twp., Columbiana Co. Sampling Date: April 30, 2015	
Tetra Tech	l	s	ale: OH	State: OH Samping Point: SP-35	SP-35	
E. Kennedy	Section.	Section, Township, Range:		S18, 78N, R2W	R2W	
slope	Local Relef (co	Local Relief (concave, convex, none);		concave	Slope (%): 10	
LRR N Lat		Long:	-80.681818	Datum:	WGS84	
nnery siit koam, 6 to 15 p	ercent sippes		NWI classi	fication:	none	
Are climatic/hydrologic conditions on the sile typical for this time of year?		X No	(If mo, ex	plain in Remarku.)		
, or Hydrology	significantly disturbed?		al Circumstanc	se" present?		
		ž	×	Ŷ		
. or Hydrobogy	naturally problematic?	(K needed,	explain any answ	ers in Romarka.}		
비원용이 이	RN Lat. V sit keen, 6 to 15 pr Mydratogy Hydrobgy	40.639778 ant sbpes gnificanity disturt sturally problema	40.639778 ant sbpes gnificanity disturt sturally problema	40.639778 ant sbpes gnificanity disturt sturally problema	40.53977.6         Long:         -90, 691.91.8         Datum ant stypes         Datum           ant stypes         MY1 datastiftaation:         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	40.53977.6         Long:         -90, 691.91.8         Datum ant stypes         Datum           ant stypes         MY1 datastiftaation:         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -

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

Hydrophytic Vegetation Present?	Yes X	QN N	1. 41- Constra		
Hydric Soil Present?	Yes X	No	Area within a	Yes X No	
Welland Hydrokogy Present?		ا ع	Wedand?	W-22	
Remarks:					
pem wettend. Original name EKsp6.					

Welland Hydrotogy Indicators: Prinaw Indicator Indicators:	act of the sector		Secondary Indicators (minimum of two required) Services Set Cractes (RB)	
Surface Water (A1) Moto Water T-V. 452	ì r	True Aquato Plants (814)	Sparsed vegating Concern Surface (B8)	
X Saluration (A3)	X	ouddred Anizosphenes on Living Roots (C3)	Moss Trim Lives (B16)	
Water Marks (B1)	Presence	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)	_
Sediment Deposits (B2) Drift Decosits (B3)	Recent I	Rucent Inter Reduction in Tilled Solis (C8) Thin Muck Surface (C7)	Crayfah Burrows (C8) Sahration Visble on Aarial Imaeery (C3)	_
Agel Met or Crust (84)	Other	Other (Explain in Remarks)	Sturred or Steered Plants (D1)	
Iron Depasts (BS)	ľ		Germorphic Position (D2)	_
Inundation Visible on Aerial Imagery (B7)	-		Stratiow Aquitard (D3)	
Websr-Sistned Learves (B9)			X Mircolopographic Restart (D4)	
Aquelic Fauna (813)			FAC-Neutral Test (DS)	_
Field Observations:				T -
Surface Water Present? Yes	No X	Depth (inches):		_
Water Table Present? Yes	ž	Depth (inches):	Wettand Hydrology Present?	
Saluration Present? Yes X	400 M	Depth (Inches): 0	Yes X No	
Describe Recorded Data (stream gauge, monitoring wer, asrial Pholos, previous inspections). If a valitable	ontroring welt, gerial photo	os, previous inspections), if a vallable:		
Remarks:	.			T_
	-			
				_
				-

VEGETATION (Five Strats) - Use scientific names of plants.

S

Sampling Point:

Domisance Test workeheet:

Indicator

Absolute Dominant

Tree.Strajum (Ptot size:37"]	% Cover	Species?	Slatus	Number of Dominant Species There are ON FACW or FAC 2 (A)
		ļ		
				Total Number of Benjarat
				Species Across All Strata: 3 (B)
		ļ		Parcent of Dominant Species
				That Am OBL, FACW, or FAC: 68.67% (A/B)
	-	< Total Cover		
Sapling Stratum: (Plot She: 15')			•	Prevalence Index worksheet:
 ,				Total % Cover of: Multiply by:
				OBL species x 1= 0
3				
				× 3=
	ļ			
	•	≓ Total Cover	ļ	
Shrub Stratum: (Plot Ske: 15')				Provalence Index = B/A = #DIV/01
	ŝ	۲	2	
2				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegelation
				X 2 - Dominance Test is >50%
				4 - Mombological Adeotations ⁴ (Provide supporting
				data in Remarks or on a separate sheet
		e Total Covar		Perkismetic Harlmohulic Vacatetion ¹ (Explain)
Herth Stratum: (Plot size: 5	,		-	
secifiate	5	ŀ	081	listic states and the state and some first find by the states
	ę	\ \ \	FACW	ingreated of hydrox sou and wellow 45 moves more be needed, unless disturbed or cooblematic.
	50	z	EACW	Definitions of Four Ventation Strate:
•	,	2	9	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
•	.		EACIT	more in diameter at breast height (DBH), regardless of height.
		,	1010	Surface - Woods should and effect when a speeding of ft
				(6 m) or more in height and less (han 3 in. (7.6 cm) DBH.
				Shuith - Woedv niants, excluding woodv vines, aproximately 3 to 20
				ft (f to 6 m) in height.
10.				Harb - All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.26 fi talk
12.				Woody Vines - Al woody vines greater than 3.28 ft in height.
	2	= Total Cover		
Woody Vine Stratum; (Plot size: 30')				
2			ļ	
				Hydrophydic Manteriae
			ļ	Present? Yes X ND
í e		ļ		
	-	* Yolal Cover		
Kemarks: (include photo numbers here or on a separate sheet.)	Brate Sheel.)			
-				

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Eastern Mountains and Piedmont - Version 2.0 ₽ 3 Samping Point: Indications for Problematic Hydric Solia³: 2 cm Mus. (1/10) (MLEA 147) Coust Phathe Fladda (147) (MLEA 147, 148, 148) (MLEA 143, 148) (MLEA 143, 143) Photomet Excellant Surface (F12) Very Shallow CarA Surface (F12) Other (Explain in Remarks) Remarks ³indicators of hydrophydo vegetation and wetland hydrology must be present, unless disturbed or problematic. Yes X ²t ocetion: PL= Pore Uning, M=Matrix. Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators,) Hydric Soll Present? elayhoam Texture clayfloam Redox Features % Type¹ Loc² Dark Surface (S7) — Poyvala book Surface (S9) (MLPA (47,149) — Thin Dark Surface (S9) (MLPA(47, 143) — Loany Gayed Matrix (F2) — Depleted Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface (F7) — Redox Dark Surface ( z 40 C Types. C=Concentration. D=Depetion, RM=Reduced Matrix, MS=Masted Sand Grains Hydric Soll Indicatore: % Color (molet) 85 5YR4/8 60 10YR5A Hadrool (A1) Helle Epolodon (A2) Bhris Hilde (A3) Bhris Hilde (A3) Bhris Hilde (A3) Bhris Bhris Surfao (A1) 2 com Music (A10) (LPR A) 2 com Music (A10) (LPR A) 2 com Music (A10) (LPR A) 2 com Music (A10) (LPR A) 2 com Music (A2) Bardy Music (A1) Sandy Bhris (A1, 143) Sandy Bhris (A1, 143) Sandy Bhris (A1, 143) Sandy Bhris (A1) 2.5Y6/2 Color (molst) Matrix 10YR4/2 strictive Layer (if observed): Type: Depth (inches): 3-12 3 Depth (inches) merks: SOIL

### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Pledmont

Project/Site:	South Field Energy	South Flekt Energy Interconnection Facilities City/County, Yellow Creek Twp. Columbiana Co. Sampling Date: April 30, 2015	City/County	Yelow Creel	k Twp. Columbiana	Co. Sampling	Date:	April 30, 2	15
Apploant/Owner:		Tetra Tech			State: 0	State: OH Samping Point: SP.36	Point:	SP.36	ĺ
Investigation(s):		E. Konnedy	8	Section, Township, Range:	hlp, Range:	Yaltow	Creek	Yabow Creek Township	ĺ
Lundform (Miskope, terrace, etc.);	trace, etc.);	et ope	Local R	ieliei (concene, i	Local Relief (concerve, convex, none):	CONCAVE		Slope (%): 10	Ę
Subregion (LRR or MLFA):	ALEA):	LLRRN	Lat: 40.639441 Long:	1 Long	-80.681552		Caltum:	WGS84	
Soli Map Unit Name:		BKE - Barks Channery sit loam, 25 to 40 percent slopes	0 percent slopes		¥	NWI classification:		eue	Ì
Are climelic/hydroiog	ic conditions on the a	Are climelicitydrologic conditions on the site typical for this time of year?	9417	Yes, X	ş	(if no, explain in Remarks.)	uta.)		
Are Vegetation	Soll	or Hydrology	significantly disturbed?	Wrbedh	Are Normal Circl	Are "Normal Ckroumstances" present?	ç		
					Yes	Yes Xes	1		
Are Vegetation		. or Hydrology	naturally problematic?	rivatic?	(if readed, syptem :	(if needed, syptets any answers in Renarks.)	( <b>1</b>		
SUMMARY OF F	INDINGS - Attach	SUMMARY OF FINDINGS - Attach sits map strowing sampling point locations, transects, important features, etc.	mpling point lo	cations, tra	nsects, Importa	ıt features, etc		i	
Stateshold Venetation Present	ine Presant?	, and	Vas Y Mo						

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Hydrie Soll Present? Yee <u>X</u> No dea winte Yee <u>X</u> No Wellend? Yee <u>X</u> No Mellend? <u>Wellend? Wellend? Wellend? Wellend? Wellend? Wellend? Wellend? Wellend? Wellend? Wellend?</u>	Hydrophytic Vegetation Present?	Yea X	No	to the Controlled		
No Welland?		Yes X	£	Artea within a	Yes X No	-
Remarks: pom večka od	Welland Hydroiogy Presant?	Yes X	No.	Welland?	W-23	
benn wedfelod	Remarks:					
	pom wetland					

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Wetland Hydrology Indicators:	tors:			Secondary indicators (minimum of two required)
Primary (ndicators (minimum of one is required; check all that ep.ph)	one is required; check	all that oppy)		Surface Sol Cracks (36)
Surface Water (A1)		True	True Aquatic Pieuta (B14)	Sparsely Yegelaled Conceve Surface (B8)
High Water Teble (A2)		трф Н	Hydrogen Sulfde Odor (CI)	X Dreinage Patterne (810)
X Seturation (A3)		X Coddr	X Oxidized Rhizospheres on LMing Roots (C3)	Mose Trim Lines (B16)
Water Marks (31)		Preser	Presence of Reduced Iron (C4)	Ory-Season Water Texte (C2)
Sedment Deposits (B2)		Recen	Recent Iron Reduction in Tilled Solia (CB)	Crayfish Burrows (C8)
Drift Deposite (B3)			Thin Muck Surface (C7)	Saturation Vietbie on Aeriet Imagery (C3)
Alpel Mail or Churk (B4)		Oher	Other (Explain in Remerica)	Stunded or Stress of Plants (D1)
tron Deposits (B5)				Geomorphic Position (D2)
Instruction Visible on Aerial Imagery (87)	al Imagary (37)			Shallow Aquitard (D3)
Witten-Stathed Leaves (B9)	\$			X Mirrotopographic Refiel (D4)
Aquelic Feune (313)				FAC-Neutral Test (05)
Fletd Observations:				
Surface Water Present?	Yes	No X	Depth (inches):	
Water Table Present?	¥8	×	Depth (inches):	Wettand Hydrology Present?
Saturation Present?	X88 X	ž	Depth (inches): 0	Yes X No.
(includes capitary (ringe)				
Describe Kecorded Dala (si	ream gauge, mont	oring weil, aenal pix	Describe Recorded Dalit (streem gauge, montoring well, aenal pholos, previous inspections), if avalable:	
Remarks:				

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names
scientific
es) -
Strata)
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VEGETATION

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VEGETATION (Five Strata) - Use scientific names of plants.	fic names of plants.	Sampling Point 36
Tree Stratum (Phr) abo: 30 ) 1.	Absolute Commant Indicator % Cover Species? Status	Dominance 7 est worksheet: Number of Dominant Species That Are CBL, FACM, or FAC: 1. (A)
		Tolai Number of Commant Species Across All Strata: 3 (5)
ġ.ġ.ċ.ċ	0 = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 33, <u>33%</u> (MB)
Saudino Straibuni. (Plot Stra: 15. ) 1. 2.	t ii	Prevuance Index worksheet: Tolal % Cover of: OBL spocks
		88 30 × 2 ¹
6. 7. 281nb Statum: [PtM Stor. 15.]	0 = total Cover	UT. species 0 x 5 = 0 Column Toules: 22 (4) 46 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19
		Hydrophyde Vegetation fordicaloxa. 1 Rapki Tast for Hydrophydic Vegetation 2 Doninano: Tast is 50% X - 3 Promissions Invirs 4.50%
	25 = Total Cover	r I (
(Lifor Statuur). (Pol skor. 5'. ) (Junos andrum). 1. Ludwig Bergensworth 3. Ludwigh alternitions 4. Fragenie vrychans	25 Y FACW 20 Y FACU 5 N FACU 2 N FACU	I Inductations of hydric soil and wellsnot hydrology must be present: unlines distruted or problematic. Definitions of Four Vegetation Strats. Thes - Wood paths, successford (strats), moandess of highly, more in diameter at hands heldert (SBE), moandess of highly.
		Sapinag - Woody plants, auchding woody vines, aproximately 20 ft (6 m) or more in height and less lines. 3 in: (7.6 cm) DBH. Thub- Woody blans, ancluding woody vines, aproximately 3 to 20 ft (1 to 6 m) in height.
10111212121212	52 = Total Cover	Heth - Althentseouve, (non-woody) plants, regardless of star, and woody plants less than 2.38 ft sol. Woody Vinne - Al woody vines greater than 3.28 ft in height.
Weedby Vrine Streikum: (Pick stres: 30' ) 1. 2. 3. 5.		Hydrothykk Vegetation Present? Yes X
Remains: (Indude photo numbers here or on a caparato sheet.)	erzio shoet.)	
US Army Corps of Engineers		Eastern Mountains and Pledmont - Version 2.0

Clear (note)         K.         Color (note)           1077643         100         1077643         100           1077643         100         1077643         100           1077643         100         1077643         100           107644         100         1077643         100           107644         100         100         1077643           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100         100         100           101         100	Cepth	ition: (Describe to Malrix	the depth	Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators) Depth	or confirm the a	bsence of indicators.)
IDPAGE         00         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 </th <th>(inches)</th> <th>Color (moist)</th> <th>×</th> <th>×</th> <th></th> <th></th>	(inches)	Color (moist)	×	×		
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Exploration (23)       Dark Surface (51)       Can Must (A10) (JULA 47)         Exploration (23)       Toyot allow Surface (59) (JULA 47, 46)       Canst Prime Reacc (A19)         Fills (A1)       Duran (A12)       Doran Prime Reacc (A19)         Real Davie (A1)       Duran (A12)       Duran (A12)         Real Davie (A1)       Duran (A12)       Duran (A12)         Real Davie (A1)       Duran (A12)       Duran (A12)         Real Davie (A1)       Duran (A12)       Duran (A12)         Real Davie (A11)       Zent Must (A12)       Purpose (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Zent Must (A12)       Purpose (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Duran (A12)         Must (A12)       Duran (A12)       Dura (A12)         Must (A12)	iydric Soll Indic	cators:				Indicators for Problematic Hydric Solis ¹ :
Explored (2)     Province interviewing (3)     Out MA 14, 143)     Out MA 14, 143)       connon failede (AA)     Cuant Operation Below Surface (30) (MLA 147, 143)     Cuant Operation Solid (19)       connon failede (AA)     Cuant Operation Below Surface (30)     Cuant Operation Below Surface (30)     Province (17)       Most (A) (1) (LR N)     Reported Matrix (73)     Cuant Operation Below Surface (75)     Province (17)       Most (A) (1) (LR N)     Reported Matrix (73)     Cuant Operation Below Surface (75)     Province (17)       Most (A) (1) (LR N)     Reported Matrix (73)     Color (75)     Province (17)       Most (A) (1) (LR N)     Report Operation Below Surface (73)     Color (75)     Province (17)       Most (A) (1) (LR N)     Must (2)     Unit A13, 123     Other (15)     Other (15)       Most (A) (1) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (20)       Most (A) (2) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (20)       Most (A) (2) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (20)       Most (A) (2) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (20)       Most (A) (2) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (20)       Most (A) (2) (LR N)     Must (2)     Must (2)     Unit A13, 123     Ving (2)	Histosol (A1)		'	Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
Control     Control     Control     Control     Foreboard     Solar (F16)       Red K, King (Ka)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red K, King (Ka)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red K, King (Ka)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red K, King (Ka)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)     Red Kan Sufferer (F3)       Re	Histic Epipec	5on (A2) (A3)	•	Polyvalue Below Surface (SB) (MLRA This Dark Surface (S9) (MI RA147 14	. 147, 148 <u>)</u> (31)	Coast Preirie Redox (A16) ruin pta. 142, 148)
Ind Layers (ks) Content Mutric (73) (MLLA 131, 127) (MLLA 134, 134, 134, 134, 134, 134, 134, 134,	Hydrogen Su	lfide (A4)	, 1	Loarny Gieyred Matrix (F2)	ī	Pledmont Floodplain Solls (F19)
Mark (MU) (JUKN M Mark (MU) (JUKN M Mark Serifae) (A1) Clark Serifae) (A1) Clark Serifae) (A1) Clark Serifae) (A1) Clark Serifae) (A1) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) Clark (S) C	Strettfied Lay	yers (A5)	1	Depleted Matrix (F3)		(MLRA 138, 147)
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y depend Mark (S4) Unbric Suffsee (F13) (MLRA 134, 122) "Indextand of hydrophyde vegetallion and by present and by the constraint (hydrobyde registallion and by the constraint (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde (hydrobyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophyde registallion and hydrophydrophyde registallon and hydrophydrophydrophydrophyde registallon a	Sandy Muck MLRA 147	y Mineral (S1) (LRR h 7, 148)		Iron-Menganese Masses (F12) (LRR MLRA 136)	ź	
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a Luyer (fr Obseaved): hydros Soll Present 1 Yes X	Sandy Redo: Stricond Mat	x (S5) htx (S6)	•	Piedmont Floodplain Solts (F19) (ML3 Red Parent Material (F23) (MLRA 12)	RA 148) 7. 147)	weitand hydrology must be present. unless disturbed or problematic.
e Lare († observel): h (izðas):			'			
hydros): hydros ol Paeant'r Yes X	entrictive Layer Type:	r (if observed):				
untikks.	Depth (inche	:(8)				Yes X
	emarka:					

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Eastern Mountains and Piedmont - Version 2.0

US Army Corps of Engineers

Background Information	
Name: Brian Slaby	
Date: 04/29/2015	
Amilation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: BSIaby@EnviroScienceInc.com	
Name of Wetland: W-1	
Vegetation Communit(ies): PEM/PFO	
HGM Class(et): Depression	
Location of Wetland: Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	_
oordinate 40.649235.	
luad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
c Unit Code	#05030101
Sile Visit	04/29/2015
National Westand Inventory Map	×
Ohio Wettand Inventory Map	
Soil Survey	×
Delineation report/mep	×
	-

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Appendix D:

**Ohio Rapid Assessment Method for** Wetlands v. 5.0 Rating Forms

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Vanna of Wolfand	
Wetland Size (acres, hectares): 0.587 acres onsite	
sketch: include north arrow, relationship with other surface waters, vegetation zones, etc.	nes, etc.
Please refer to site wetlands and water resources map.	
	_
Comments, Narrative Discussion, Justification of Calegory Changes:	
	_
	_
	-
Final score: 47.5	Category: 2

#### Scoring Boundary Worksheet

INSTRUCTIONS. The indial step in completing the ORAM is to identify the "scoring boundaries" of the welland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "ytteristicational boundaries". For example, the scoring boundaries of the welland middle of a farm field will likely be the same as that welland's jurisdictional boundaries. In other instances, howver, the scoring boundary will on the same as that welland's alter are stall are stall are stall to weret, the scoring boundary will not be as a same as that welland's that are small or isolated from other surface waters often form large contignous areas or heterogeneous complexes of whethal and upland. In separating wetlands for scoring pupous or contected wellands should be established where the volume, fur separating wetlands for scoring pupous or contected wellands should be established where the wolumd. In separating boundaris: between contigouus or contected wellands abould be establish the scoring boundary of water moving through the wetland. In determining a wetland's scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetland being rated. These problem situations include wetlands that accoring boundary for the wetland being rated. These problem situations include wetlands the scoring boundaries of the ording the scoring aboundary for a constal wetlands. These situations are discussed below, however, it is recommended that Rate contact Olito PA, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	2 euop	not applicable
Step 1	Identify the welland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidences that hydrology changes region. Such redicers includes both returnal and human- induced changes including, constitctions caused by berms or dives, points where significant inflows cozura it the confluence of rivels, points where significant inflows cozura it the confluence of rivers, or other factors that may restrict hydrologic interaction between the welfands or parts of a single weltand.	×	
Step 3	Delineate the boundary of the wetland to be raied such that all areas of interest that are complouse to and within the areas where the hydrology does not change significanity. (i.e. areas that have a high degree of hydrologic prierraction are included within the scoring boundary.	×	
Step 4	Determine & artificial boundarias, such as property lines, stelle lines, roads, princed embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrobogic regime changes.	×	
Step 5	In all instances, the Rolor may enlarge fro minimum scoring toundaries discussed here to score together wellands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by attrictual boundaries, contiguous to streams, lakes or thens, or for dual dassifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heinage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43224, 442-855-453 (phone), 614-255-3406 (fax), http://www.dur.state.ohue/data.The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Eudangered Species Act and is the geographic are constituing physicial or biological features essential to the conservation of a listed species or as an area har any require special management considerations or the to conservation of a listed species or as an area har any require special management considerations of the updates as to whether critical habitat has been designated for other federally listed threakened or endangered species. "Documented" means the wetland is tigted in the special more than the special of the the street special meansagement considerations or updates as to whether critical habitat has been designated for other federally listed threakened or endangered species. "Documented" means the wetland is listed in the approximate State of Ohio database.

Outestion Critical Habitat. Is the welland in a township, section, or subsection of Critical Habitat. Is the welland in a township, section, or subsection of a United States Geodgical Survey 7.5 mitute Guadrangle that has been degraped by the List and vollatifie Sorvices as 'ordical habitat' for any threatened or endangened plant or animal species? Next: set of anaway 1, 2007, with the fordamy list habitation busics are dargened (sor CFR 17.56(c)) and the piping plover habitat critical habitat ploused (Sor CFR 17.56(c)) and the piping plover habitationed or Fridangened Species. Is the weight drown to contain threatened or Fridangened Species. Is the weight drown to contain threatened or or fordangened board or ordinangened contain threatened or or fordangened Species. Is the weight drown to contain threatened or or fordangened board or animal species' or ordian	Circle one YES	
at. Is the welland in a township, section, or subsection of cell optimizations of 35 minute Quadrational point has boby the U.S. Fish and Watline Sources as "original furtherational or centangrend or wary 1, 2001, of the federally listed and/argened or solar designated (50 CFR 17, 55(d)) and 15, 56(d) and 16, full designated (50 CFR 17, 55(d)) and 17, 56(d) and cell and the point of the full of the full and the distribution possed (55 FR 41212, July 6, 2000). Insulting proposed (55 FR 41212, July 6, 2000) or of animal species, is the weitand known to contain Fendangened Species. Is the weitand known to contain and angened plant or animal species.	YES	
2 servityors and Wallin Service as "original pulsitions of by the U.S. Fish and Wallin Service as "original phase as "original phases" of the fractional original species" (Mark Resignator Control Phase and and and and and and and and and and		
Whrealenned carendrayend plant or aminal spaces? way 1, 2001, or the federally listed and/argend or cells which can be found in Ohio, the findiana Bat has fuld designated (50 CFR 1, 25(d)) and the piping plover (1)bubbits proposed (55 FR 4, 41212, July, 6, 2000). Insubits proposed (55 FR 4, 41212, July, 6, 2000). Tendangened Species. Is the weitand known to contain or of contained scourtees of federal or state-blated stridangened plant or animal species.	Wetland should be	Go to Question 2
scies which can be found in chub, the findiane Bet has blatt designated (SO CFR 17: SC(a)) and the piping plover (1habits) proposed (SS FR 41917, July 6, 2000) Endangemed Specifies, is the weitand known to contain (, or documented occurrences of feederal or state-listed stridangemed plant or animal species?	evaluated for possible Category 3 status	
11111111111111111111111111111111111111	Ge to Ouestion 2	
r Endangered Species. Is the wettand known to contrain f, or documented occurrences of federal or state-lated endangered plant or animal species?		(
endangered plant or animal species?	YES	ON
1	Wetland is a Category 3 wetland.	Go to Question 3
	Go to Question 3	(
Documented High Quality Wetland. Is the wetland on record in Natural Heritane Database as a blob maily wetland?	YES	ON
	Wetland is a Category 3 wetland	Go to Question 4
	Go to Question 4	(
Significant Breeding or Concentration Area. Dots the wetland	YES	ON
with the second region of shore in the second second second seas?	Wet/and is a Category 3 wet/and	Go to Question 5
	Go to Question 5	(
Category 1 Wetlands. Is the wetland loss than 0.5 hectares (1 acre) In stra and hwitelonies[lv [solisted and sither 1) commised of	YES	
vegetation that is dominated (greater than eighty per cent aread cover) by Phalans anundinacea, Lythrum setcarta, or Phragmites australis, or	Wetfand is a Category 1 wetland	Go to Question 6
2) an actoric porto creatien or excavated on mined large that has little or no vegetation?	Go to Question 6	(
Bogs. Is the weband a peat-accumulating weband that 1) has no	YES	(ON)
symmetric many provide the addopting addopting moves, particularly Softwarm spp., 3) the addopting moves have >30% of cover, 4) at least one species from Table 1 is present, and 5) the	Wetland is a Category 3 wetland	Go to Question 7
cover of Invasive species (see Table 1) is <25%?	Go to Question 7	(
Fens. Is the welland a carbon accumulating (peat, muck) welland that	YES	(on)
is saturated during most or the year, primarity by a discrizinge of nee flowing, mineral rich, ground water with a circumneutral ph (5.5-8.0) and with one or more part, speake listed in Table 1 and the cover of nueska seconds fisted in Table 1 & <2522.0	Welland is a Category 3 wetland	Go to Question 8a
	Go to Question 8a	(
Old Growth Forest." Is the weiland a forested weiland and is the longet characterized by, the collowing characteristics: constroy cancey treas of great gal exceeding at least 50% of a projected maximum attainable age for a speciest. Ittle or no evidence	YES Wetland is a Category 3 wetland.	NO So to Question Bb
ot human-caused understory disurbance during the past 80 to 100 years; an all-aged structure and multitayered canoples; aggregations of canopy trees inforement with caropy gaps; and significant numbers is chaodico.cod anone and Anumed lowe?	Go to Question 8b	
1 5 8 5 8 6 6 6 6	- Out curvent reverts: In sum wealant a morestow wearand can as the intest characterized by, but find infield to, the following characteristics: overstory carrowy these of peak gale (association) at latest carrow projected maximum attainable ape for a specielas; life or no widence of human-caused understory distribunce during the past 80 to 100 years, an all anged structures and multilayered carropies; aggrogations of cancory trees interspread with carropy gaps; and significant numbers of standing dead sings; and downed logs?	

			C
qg	Mature forested wetlands. Is the welland a forested wetland with 2 50% or more of the cover of unner forest cancor consisting of	YES	2
	decidence from the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	Wettand should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	(
R8	Lake Erie constal and tributary wetlands. Is the wetland located at an elevable rises than 557 elevable on the USCS map, adjacent to this elevation. or along a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
a B	Does the resultand's hydrology result from measures designed to prevent version and the topics of aquabit abush, to the weitand is partially hydrologically resincted from Lake Erle due to lakeward or tandward dikes or other hydrological controls?	YES Wetland should be evaluated for possible Category 3 status	NO Go to Question 9c
		Go to Question 10	
96	Are Lake Effer water invest the welland's primary hydrotogobie influence. I.e. the wetland is hydrotogically unreshifted (no iskeward or upland border afferations), or the welland can be characterized as an "estuartno" welland with lake and river influenced hydrobcgy. These include estates droposition, wellands, estuarina wellands, niver mouth wellands, or those dominated by submessed attable wellands, niver mouth wellands, or those dominated by submessed attable.	YES Go to Question 9d	NO Go to Question 10
3	Does the weltand have a predominance of native species within its venetation communities atthued mon-mative or distindance tolerant	YES	ON
	nairve species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Ge to Question 10	
æ	Does the wettand have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES	ON
		Wetland should be evaluated for possible Category 3 status	Go to Cuestion 10
		Go to Question 10	(
10	Laske Plant shard Praintas (Dirk Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Countries and can the wetland be characterized by the Scienching description: the wetland has a succept substrate and his interpreter our optimum relation. The wetland has a succept several inches of the surfaces, and offer with a continents of the	YES Wetland is a Category 3 wetland.	Go to Question 11
	graminecus vogelation isted in Table 1 (woody species may also be present). The Chino Department of Natural Resources Division of Natural Areas and Presenes can provide assistance in confirming this Prope of webstand and its outlity.	Go to Question 11	(
Ē	Relict Wet Prairies. Is the welland a raix wet prairie community downared by some or all of the energies in TaNe 1. Extension prairies	YES	9
	were formerly located in the Darby Plains (Madison and Union Vision Sandy located in the Darby Plains (Madison and Union Counties). Sandytsky Plains (Wyandot). Crawford, and Marion	Wetland should be evaluated for possible	Complete Ouantitative
	Counties), northwest Ohto (e.g. Erie, Huron, Lucas, Wood Counties), and participant of the Counties (a.g. Darko, Mener, Mitani	Category 3 status	Rating
	and partons of western one occurred (a.g. parton, meanin,	Complete Quantitative Rating	

					2					
Table 1. Characteristic plant species.	ic plant species.				Site: ⁸	South Field En	South Field Energy Interconnection Facilities	Rater(s): B. Slaby		4/29/2015
Invasive/exotic spp	fen species	bog species	0ak Opening species	wet prairie species						
Lythrum salicaria Municolnilium enicetum	Zygaderius elegans var. glaucus	Calin polustris	Carex cryptolepis	Calamagrostis canadensis	2	2	Metric 1. Wetland Area (size).	a (size).		
Natae minor	Course from	Converting of the capital of	Carex fasiocarpa	Calamogrostis stricta	and a star	],	Select one size class and assign score			
Phalaris anualnacea	Carex sterilis	Carex olieosperma	Cladium maritecoidee	Carer burbarmii Carer burbarmii		_	>50 acres (>20.2ha) (6 ots)			
Phragmites australis	Carex stricta	Carex trisperma	Calamagnostis stricta	Carex pellita		<u> </u>	Seasona/Intermitient surface water (3)	water (3)		
Potamogeton crispus	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwelli		1	10 to <25 acres (4 to <10.1 ha) (4 pts)	a) (4 pts)		
Ranunculus ficaria	Eleocharts rostellata	Decodon verticillants	Quercus palustris	Gentiana andrewsii		L	3 to <10 acres (1.2 to <4 ha) (3 ots)	(3 Ob)		
Rhammus frangula	Eriophorum viridicarinatum	Eriophorum virginicum	I	Helianthus grosseserratus		1	X 0.3 to < 3 acres (012 to <1.2ha) (2 pt)	a) (2 ols)		
Typha angustijolta	Gentianopsis spp.	Larix laricina		Liatris spicata		T	0 1 ho <0 3 acms (0 hd ko <0 12hd (3 d)			
i)phia xgiauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriftora		T				
	Pamassia glauca	Schechzeria palustris		Lythrum alarum		┦	(and of failure of source and			
	Potentitla fruticosa	Sphagnum spp.		Pycnanthemum virginiarum	α	10	letric 2 Unland buffe	Metric 2 Italand huffers and surrounding land use	nd lies	
	Phenotes any only	Vaccinium macrocarpon		Silphum terebinthinaceum		٦				
	solir candida Salir candida	Vaccinium corymbosum		Sorghastrum mitans	max 14 pts.	subble 2a.	L Catculate average butter width. Sels	2a. Catculate average butter width. Select only one and assign score. Do not double check	bie check.	
	Softe municoldan	Puccinium ouycoccos		oparting pectingle			WIDE. Buffers average 50m	WILLE. Butters average 50m (164 ft) or more around wedand perimeter (7)	1(I)	
	Solir variesina	Proto Autorata Virginica		Solidago riddellii			X MEDIUM. Buffers average 2	MEDIUM. Buffers everage 25m to <50m (82 to <164f) around welland pertmeter (4)	f perimeter (4)	
	Solidana okiaoneie	Ayrs aggornus					NARROW. Buffers average	NARROW. Buffers average 10m to <25m (32ft to <82ft) around welland perimeter (1)	d perimeter (1)	
	Toffeldia alutinea						VERY NARROW. Buffers av	VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)	teter (0)	
	Trielochin maritimum					₩)	. Intensity of surrounding land use. Se	Intensity of surrounding land use. Select one or double check and evenage.		
	Triglochin palustre						VERY LOW. 2nd growth or c	VERY LOW. 2nd growth or older forest, prairie, sevennah, wildlife area, etc. (7)	B, elc. (7)	
							X LOW. Old field (>10 years).	LOW. Old field (>10 years), shrubland, young second growth forest. (5)		
	. 19 - 10	: : : : : : : : :	•			1	X MODERATELY RIGH, Resk HIGH TIMAN INVIRTIAL COM	MCUERATELY NGH. Residential, fanced pasture, park, conservation tillage, new fallow field. (3) HIGH: Mithan invitential mean metime meromotion minime construction (4)	t tillage, new fallow field. (3) boo (1)	
	End of Narrauve Katti	End of warrauve Raung. Begin Quantitative Rating on next page.	ating on next page.			╞				
					2	31 M	Metric 3. Hydrology.			
						٦				
					max 30 pta.		3a. Sources of water. Score an mar apply. High nH any industry (5)	×	30. Connectivity. Score all that apply.	
						1				
						1	V Description (a)			ner numæri use (1)
						1				ioresu, winpasi (1) 
							A December in the second surface with the processing of the second surface second surface second surface second surface second surface second surface second surface second surface second surface second surface second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	mauri (a) se sharan (E)	A Fast of inpatial of opposite conder (v)	
									۶ſ	
					SC. MAXIMUN				A Denie to permanentry numbered sourced (4)	arecuszczinarea (4)
						1	0.1 to 0.7m (45.7 th 0.7 fbm) (2)			(e) 04
						1	0.4 00.700 (15.7 00 27.500) (	-	Seasonary mundated (2)	
						_	Х 40.4m (<15./m) (1)	•	Seasonally saturated in upper 30cm (12in) (1)	er 30cm (12in) (1)
						<b>ສ</b> [	. Mooncations to natural hydrologic re-	Modifications to natural hydrologic regume. Score one or double check and average.	inage.	
							None or none apparent (12)	Check all disturbances observed		
							X Recovered (7)	ditch	point source (nonstommater)	~
						1	Recovering (3)	<u>s</u>	Bulbac/Sugg	
						_	Recent or no recovery (1)	dite	X road bed/RR track	
								wor	diedging	
								stormwater input	Other: dearing	
										•

last revised 1 February 2001 Jm

41.5

uatic bed

rutrient enrichmen Dudged

toxic pollutants

shrub/sapling nemoval

10.5 41.5 Metric 4. Habitat Alteration and Development. (autopic action and Development. Autopication and Development. (b) Habita divisors score are or double check and average. (c) Autopication action appearent (c) (c) Habitat Alteration and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Development. (c) Habitat Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and Autopication and

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**T** 2

**ORAM Summary Worksheet** 

Result

circle answer or insert

If yes, Category 3. If yes, Category 3.

YES NO

0 41.5 Metric 5. Special Wetlands.				
Bog (10)			Narrative Rating   Question 1 Critical Habitat	bitat
Fen (10)			Question 7 Threatened is Endanced	or Endonand
			Species	
Meture forested welfand (5)			Question 3. High Quality Natural Wetlan	lity Natural Wet
Lake Erfe Cossiatrabulary wetland -unrestricted hydrology (10)   ake Erfe cossiatrabulary wetland-metricred hydrolow (3)	rided hydrology (10) ed hydrology (5)		Question 4. Significant bird habitat	t bird habitat
Lake Brain South Bruden ( Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Cold Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and Channel and C				- May - 1
Lake Flake Saru Flakes (Use Openings) Rake Wat Preferes (10)	(AL)		Question 5. Category 1 Wettands	1 Wettands
Known cocumence statefielderei threatened or endangered species (10)	3 or endangered species (10)		Question 6. Bogs	
Significant migratory songbird/water fowl habitat or usage (10)	ebitat or usage (10)		Question 7. Fens	
Category 1 Weltand. See Question 1 Qualitative Reting (-10)	jialive Reting (-10)		Question 8a. Old Growth Forest	wth Forest
6 47.5 Metric 6. Plant communities, interspersion, microtopography.	interspersion, mi	crotopography.		
pis. subintal	Vegatation Community Cover Scale	er Scale 1255entior comptisses <u [0.2471="" acres]="" area<="" configurous="" td="" the=""><td>Question 8b. Mature Forested Wetland</td><td>Forested Wetla</td></u>	Question 8b. Mature Forested Wetland	Forested Wetla
Aquatic bed		Present and either comprises small part of wetland's vegelation and is	Question Of 1 24	o Matlande
ТТ	-	of moderate quality, or comprises a significant part but is of low quality	kuleskon vo. Lake Erie weuanus - Restricted	ie wetanus -
0 struct	3	Pressuit and either comprises significant part of wetland's vegetation and is of moderate quality, or comprises a small part and is of high	Question 9d. Lake Er	e Wetlands -
Т		quality. Descent and comotess shorificteri part of more of wetland's	Unrestricted with native plants	e plants
Con Water	Ð	vegetakön and is of high quality.	urestron se. Lake Ene weuerun Unrestricted with Invasive plants	le vreuarius - sive plants
Other			Question 10. Oak Openings	spings
6b. Horizontal (plan view) Intersperator. Scenne over one	Narrative Description of Vegetation Quality	etation Quality	Ounstine 11 Baliet Mat Braitias	of Brairies
	low	Low spp diversity and/or predominance or norsagree or disturbance Informit native species		
Moderately Nigh (4)	mod	Native spp are dominent component of the vegetation, atthough	Ouantitative Metric 1. Size	
Moderate (3)		rate apockes diversity moderate to moderately high, but generally with	Rating	
X Modenstely low (2)		presence of rare, threatened, or endangered sop	Metric 2. Buffers and surrounding land u	surrounding lan
Low (1)	Ngh	A prodominance of heitive species, with nonnative spe and/or desturbance tolerant native sop absent or virtually absent, and hish	Metric 3. Hydrology	
Norse (0)		spp diversity and often, but not always, the presence of rare,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
bo. Coverage of Invasive plants. Keler to Table 1 CPAM long from for set Add or	Undflat and Oren Weter Clere Duel	Incertained, or encorrigered spp	MUBRIC 4. LIADWAI	
deduct points for coverage.		Absent <0.1he (0.247 ecres)	Metric 5. Special Wettand Communities	land Communit
Eddensive >75% cover (-5)	  - 	Low 0.1 to <1ha (0.247 to 2.47 acres)	Matric 6 Dam communities information	unition interes
Moderale 25-75% cover (-3)	2	Moderale 1 to <4/r to 9.88 ecres)	microtopography	
X Sparse 5-25% cover (-1)	6	High the (9.88 acres) or more	TOTAL SCORE	
Nearly absent <5% cover (0)	Microtopography Cover Scale			
Absent (1)	0	Absert		
Gd. Mécrotopography. Scoris ଶଞ୍ଚ present using 0 to 3 scale.	-	Prosent in very small amounts or if more common of marginal quality		
Vogetated hummucks/tussucks	7	Present in moderate amounts, but not of highest quality or in small		
Т		amounts of highest quality	Complete Wetland Categori	tiand Categ
1 Standing dead > 25cm (10h) dbh 0 Amphiblian breading pools	9	Present in moderate or graeter amounts and of highest quality		1

If yes, evaluate for Category 3; may also be 1 or 2. (1 yes, evaluate for Category 3; may also be 1 or 2.

If yes, Category 1.

If yes, Category 3. If yes, Category 3.

YES NO

If yes, Category 3.

If yes, Category 3.

VES CONCENTRAL

If yes, Category 3.

YES NO VES NO YES NO If yes, evaluate for Category 3; may also be 1 or 2.

YES NO

If yes, Calegory 3

VES NO

If yes, Category 3

If yes, evaluate for Category 3; may also be 

Refer to live most recent OFAM score calibration report for live scoring breakpoints between categories at the following address: http://ispa.steto.ch.us/dow/401401.html

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### **Complete Wetland Categorization Worksheet**

Reserved and an acceleration of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec

47.5

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Metric 6. Plant communities, interspersion, microtopography TOTAL SCORE

5

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Metric 2. Buffers and surrounding land use

	Alicie one		EVAIUATION OF CAREGONZADON NEGUL OF UNAM
Did you answer "Yes" to any	YES	CON	Is quantitative rating score less than the Category 2 scoring
of the following questions:	Welland is	)	timeshold (excluding gray zone)? If yes, reevaluate the
Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	categorized as a Category 3 wetland		Caregory of the metany doing up transvery currents in occurs. Rule 3745-1-54(C) and biological and/or functional assessments to determine if the weiland has been over- catevorized by the CDAM
Old you answer "Yes" to any	YES	(ON	Evaluate the wetland using the 1) namative criteria in OAC
of the following questions:		)	Rule 3745-1-54(C) and 2) the quantitative rating score. If
Narrative Rating Nos. 1, 8b.	evaluated for		the weltand is determined to be a Category 3 webtand using either of these, it should be category is a Category 3
9b, 9e, 11	possible Category 3 status	(	wettand. Detailed biological and/or functional assessments may also be used to determine the wettand's catactory
Did you answer "Yes" to	YES	92)	Is quantitative rating score greater than the Category 2 scorior threshold <i>(Including and category 2 scorior)</i> . If vas
Narrative Rating No. 5	Weltand is		neevaluate the category of the wetland using the narrative
	categorized as a Category 1 weltand	1	ortisria in OAC Rule 3145-1-54(C) and biological and/or functional assessments to refearmine if the welland has hean understeardeordread ho the ORAM
Does the quantitative score	YES		If the score of the wetland is located within the scoring
fall within the scoring range		)	range for a particular category, the wetland should be
or a category 1, 2, 01 3 welland?	essigned to the		assigned to wat category. In all instances nowever, the namative criteria described in OAC Rule 3745-1-54(C) can
	appropriate category based on	_	be used to clarify or change a categorization based on a quantitative score.
Does the quantilative score		ON	Rater has the option of assigning the wetland to the higher
tall with the "gray zone" for	Motor		of the two categories or to assign a category based on the
2 or 3 wellands?	higher of the two categories of		results of a hydrogram events assessment interactor, e.g. functional assessment, priorogical assessment, etc. and a consideration of the narrative criteria in OAC rule 3745-1- 54(C).
	assigned to a category based on detailed		
	the narrative criteria	(	
Does the wetland otherwise	YES	) P	A weltand may be undercategorized using this method, but
hydrologic OR habitat, OR	Wetland was	Wetland Is	biolic communities may be degraded by human activities,
recreational functions AND the wettand was not	undercategorized by this method. A	assigned to category as	but the wetland may still exhibit superfor hydrologic functions because of its type, landscape position, size, local
categorized as a Category 2	written justification	determined	or regional significance, etc. In this circumstance, the
weuand (in the case of moderate functions) or a	Tor recategorization should be provided	DV THE ORAM	narrative critena in OAC Fuile 3/45-1-54(c)(2) and (3) are controlling, and the under-categorization should be
Category 3 wetland (in the case of superior functions) by	on Background Information Form		corrected. A written justification with supporting reasons or information for this determination should be provided.
this method?			

	Category 3
al Category	Category 2
Fina	Category 1
	Choose one

# End of Ohio Rapid Assessment Method for Wetlands.

### Background Information

Name: Emma Kennedy	
Date: 04/29/2015	
Attiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
•-mail address: EKennedy@EnviroScienceInc.com	
Name of Wetland: W-2, W-3, W-4, W-5	
Vegetation Communit(es): pEM	
HGM Class(es): Depression	
Location of Wetland: Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
422 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000	74980.72703: -
LavLong or UIM Contariale 40.648624, -80.727004, 40.648395, -80.726964	3395, -80.726964
USGS Quad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
Site Visit	04/29/2015
National Wetland Inventory Map	×
Ohio Wetland Inventory Map	
Soil Survey	×
Delineation reportmap	×
	1

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												Modified 2
	zones, etc.											Category:
and control	a waters, vegetation:	sources map.									Changes:	
4; W-3	hip with other surface	ds and water re									tification of Category	
VV-Z, VV-J, VV-	orth arrow, relations	r to site wetlan	acres onsite acres onsite acres onsite	acres onsite							tive Discussion, Jus	: 40
Wetland Size fact	Sketch: Include n	Please refe	W-2: 0.018 ( W-3: 0.002 ( W-4: 0.001 (	W-5: 0.038 ¢							Connents, tarra	Final score :
	Weiland Stra factas, hertaneer Trining Ord non-construction	VV-2; VV-3; VV-3; VV-5 Wetland Size (acres, hectares): Total of 0.060 acres onsite Sterch: include north arrow, relationship with other surface waters, vegetation zones, etc.	Wetland Size factes, hectares): Total of 0.060 acres onsite Stetch: Include north arrow, relationship with other surface waters, vegelation zones, etc. Please refer to site wetlands and water resources map.	Wetland Size (acres, hocares): Total of 0.060 acres onsite Stetch: Include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.0018 acres onsite W-4: 0.001 acres onsite W-4: 0.001 acres onsite	Wetland Size (acres, hocares): Total of 0.060 acres onsite Stetch: include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-3: 0.003 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Wetland Star (acres, hocares): Total of 0.060 acres onsite Sterch: Include north arrow, relationship with other suface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-3: 0.003 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Watland Size (acres, hocares): Total of 0.060 acres onsite Retch: Include north arrew, restronship with other suface waters, vegetation sones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-4: 0.001 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Wetland Size (acres, hocknes): Total of 0.060 acres onsite Sketch: Include north arrow, relationship with other suface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-3: 0.0038 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Watiand Size (acres, hocknes): Total of 0.060 acres onsite Sketch: Include north arrow, relationship with other suface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-3: 0.0038 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Watland Star darters, Mu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Wu-2, Dital of 0.060 acres onsite Sketch: Include north arrow, relationship with other suface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. Wu-2: 0.018 acres onsite Wu-4: 0.001 acres onsite Wu-4: 0.0038 acres onsite Wu-5: 0.038 acres onsite	Wetland Star (acres, herdines): Total of 0.060 acres onsite Reach: Include north arrow; reationship with other unface waters; vegetation zones, etc. Please refer to site wetlands and water resources map. W-2: 0.018 acres onsite W-3: 0.008 acres onsite W-5: 0.038 acres onsite W-5: 0.038 acres onsite	Waitard Sare for the Neural Nucl. Wind, Word, Sare Sonsifie Status: Insulation intravir, realizability will online aufrace water, segment nows, ac. Please refer to site wettlands and water resources map. W.2: 0.003 acres onsite W.3: 0.003 acres onsite W.5: 0.003 acres onsite W.5: 0.003 acres onsite Contents, Neurative Discussion of Category Cannage:

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#### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the welland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "fursidistional boundaries." For example, the scoring boundary of an isolated catali marsh located in the middle of a farm field will likely be the same as that welland. Wetlands that are small or isolated from other surface wersts often form farge configuous areas on bactorgenous complicates of welland and uptand. In separating wellands for scoring purposes, the hydrologic regime of the welland is the main cicticon who wellands for scoring purposes, the hydrologic regime of the welland is the main cicticon who wellands for scoring purposes, the hydrologic regime of the welland is the main cicticon who wellands for scoring purposes, the hydrologic regime of the welland is the main cicticon who wellands for scoring purposes, the hydrologic regime of the welland is the main cicticon who wellands for a single are ontiguous areas or hat that the scoring boundaries in the ORAM Manual Section 5.0. In certain instances, it may be difficult to established where the yoldelines in the ORAM Manual Section 5.0. In certain statemest in the storing boundaries, use the guidelines in the ORAM Manual Section 5.0. In certain statemest in the storing boundaries, section 5.0. In certain statemest in the statemest in the state ondia that form a patchwork on the lands that are contiguous with streams, lakes, or rivers, and estarine or coastal wellands. These situations are discussed below, however, it is recommended that fact condario tool bio EFA Jurision of Surface Water, 401.Weltands Section 7.0. In certain and the are ontiguous with streams, lakes, or rivers, and estarine or coastal wellands. These situations are discussed below, however, it is recommended that fact condario too bio EFA Jurision of Surface Water, 401.Weltands Section 7.0.

#	Staps in property establishing scoring boundaries	done?	not applicable
Step 1	i tidentify the wetiging ang of initerest. This may be the sile of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidences that hydrotopy charges readen. Such addrevo includes both neutral and human- induced changes including, constitctions caused by berns of chas, points where the water uncelly changes repulyit at range or fells, points where significant inflows cour at the couffuence of heres, or points where significant inflows occur at the couffuence of heres, or other factors that may restrict hydrotopic interaction botween the welfands or parts of a single welfand.	×	
Step 3	Defineste the boundary of the wettand to be rated such that all areas of interest that are complexed to and which the areas where the hydrobcy does not change significantly. (.e. areas that have a high degree of hydrobgic interaction are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, mass, relixed embankments, etc., are presert. These should not be used to establish scoring boundaries unless they coincide with areas where the hydroboic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wellands that could be scored separately.	×	
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries of wetlends that form a patchwort on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for of tail deselfactions.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

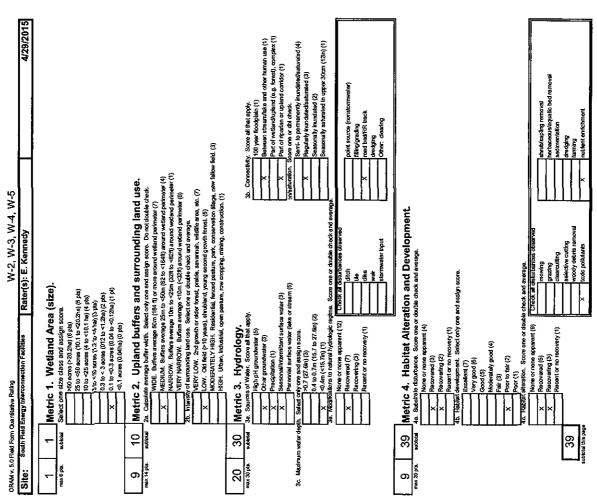
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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Foundatin Square Court, Pluding F-1, Columbus, Ohio 43224, 4412 (Sch 4517, Dhone), 614-265-4519 (Eax), bittyl²/www.dux State.ohus.yubutting to the 265-6451 phone), 614-265-5306 (Eax), bittyl²/www.dux State.ohus.yubutting the 4250-4517 (Dhone), 614-265-5306 (Eax), bittyl²/www.dux State.ohus/durang. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Asia and for descriptions of these weltand types. Note: "Critical habitatt" is legally defined in the Endangered Species Asia and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area hard nayr require special or to subterface for softee for updates as to whether critical habitat has been designated for other federally listed threatend or endangered Species. The Refer to the user the wetland is listed in the appropriate State of Obio database.

	Question	Circle one	(
ſ	Critical Habitat. Is the wetland in a township, section, or subsection of	YES	
	been designated by the U.S. Fish and Wildlife Service as "critical	Weitand should be	Go to Question 2
	natinat for any tradement of enderigeneo plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or	evaluated for possible Category 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has		
1	nad critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (55 FR 41812 July 6, 2000).	Go to Question 2	(
	<ul> <li>Threatened or Endangered Species. Is the wetland known to contain an individual of, or documented occurrences of federal or state-listed</li> </ul>	YES	2 2
	threatened or endangered plant or animal species?	Wetland is a Category 3 wetland.	Go ta Question 3
		Go to Question 3	(
	Documented High Cualify Wettand. Is the welland on record in Natural Heritage Database as a high quality wetland?	YES	2
		Welland Is a Category 3 welland	Go to Question 4
		Go to Question 4	
_	Significant Breeding or Concentration Area. Does the welland	YES	(ON)
_	witerfow, neotropical songhird, of shore/rid concentration areas?	Wettand is a Category 3 wettand	Go to Question 5
		Go to Question 5	(
	Category 1 Wettands. Is the wetland less than 0.5 hectares (1 acre) in size and hydrologically (solated and either 1) comprised of	YES	۲
	vegetation that is dominated (greater than eighty per cent areal cover) by Phataris arundinaces, Lythnum seitcaria, or Phragmites australis, or	Wetland is a Category 1 wetland	Go to Question 6
	2) an actoric point created or excertated on mined rands that has here or no vegetation?	Go to Question 6	(
	Bogs. Is the wettand a peat-accumutating wettand that 1) has no significant inflows or outflows. 2) supports acidophilic mosses.	YES	92
	particularly Sphegnum spp., 3) the scidophilic mosses have >30% cover, 4) at least one species from Table 1 is present, and 5) the	Wetland is a Category 3 wetland	Go to Question 7
	cover of frivasive species (see Table 1) is ≺25%?	Go to Question 7	(
1	Fens. Is the welland a carbon accumulating (peat, muck) welland that	YES	ON
_	is actuation during incost to use yoor, particing to a cost angle of income flowing, mineral rich, ground water with a circummentral ph (5-5-0.0) and with one or more altant suscess listed in Table 1 and the cover of	Wetland is a Calegory 3 wetland	Go to Question 8a
	Invasive species listed in Table 1 is <25%?	Go to Cristion Re	
Т	"Old Growth Forest" is the welland a forested welland and is the	YES	(ON
	forest characterized by, but not limited to, the following characteristics: overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category	Go to Question 8b
	projected maximum attainable age for a species); attle or no evidence of human-reused understow disturbance during the neet 80 to 100	3 welland,	
	years, at ell-aged structure and multiverend canopies; aggregations of process, at ell-aged structure and multiverend canopies; aggregations of canority these intervented with communications and simplicant multiplexes	Go to Question 8b	

			(
<b>8</b> 8	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest cancor consisting of	YES	<b>P</b>
	deciduous frees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7m) dbh?	Wettand should be evaluated for possible Category 3 status.	Go to Question 9a
	i	Go to Question 9a	Ċ
8	<ul> <li>Lake Erie coastal and tributary wettands. Is the welland located at an elevation tess than 576 elect on the USGS map, adjacent to this elevation or afoun a tributary for Lake Frie that its arreastible to fish?</li> </ul>	YES Go to Ouestion 9b	Go to Duestion 10
å	Does the welland's hydrology result from measures designed to	YES	NO
	prevent encoion and the loca of aquatic plants, i.e. the welfand is patishly hydrologically restricted from Lake End due to lakeward or lanoward dikes or other hydrokogical controls?	Wetland should be evoluated for possible Category 3 status	Go to Question 9c
i		Go to Question 10	
о <del>р</del>	Are Lake Erfa water levels fre waternos primary hydrological Influence, La the workand is hydrologically unsetshood (no lakeward on rupland porder alfenshores), no the wetland can be charatedrized as an "estuarine-wetland with lake and river influenced hydrology. These "include saturation wetlands, autorian enderski, inver mouth wetlands, or those dorphiled by submersed autoric wetlands, inver mouth wetlands.	YES Go to Question 9d	NO Ga to Question 10
<b>B</b> 6	Does the wetland have a predominance of native species within its veostation communities attrough non-pative or disturbance tolerability	YES	NO
	native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	i
9e	Does the weiland have a predominance of non-mative or disturbance toterant native plant spectes within its vegetation communities?	YES Wetland should be	NO Go to Question 10
		evaluated for possible Category 3 status Go to Question 10	(
þ	Lake Plain Sand Prairies (Oak Openings) is the wetland located in	YES	
	Lucas, Fulton, Henry, or Wood Counties and can the weltand be characterized by the following description: the weltand has a sandy usubsteale with Interspersed organic matter, a valeri table often within several inches of the surface, and dhen with a charinance of the	Wettand is a Category 3 wetland.	Go to Question 11
	gramineous vegetation tisted in Table 1 (woody species may also be present). The Ohio Department or Natural Resources Division of Matural Areas and Presense can provide assistance in confirming this bose of waitand and its mustly.	Go to Question 11	(
1	Relict Wet Prairies. Is the welland a relict wet prairie community	YES	(ov)
	townrated by some or all of the Species in 1 adde 1. EXMENSIVE plaines were formenty located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marion Counties), northwest Ohio (e.g. Erle, Huron, Lucas, Wood Counties),	evaluated for possible Category 3 status	Quantitative Rating
	f and portions of western Otio Counties (e.g. Darke, Mercer, Miami, Monigomery, Van Wert etc.).	Complete Quantitative Ration	

					ORMM v. 5.0 Flood Form Quantitative Raiting W-2, W-3, W-4, W-5	မှု
Table 1. Characteristic plant species.	tic plant species.				Site: South Floid Energy interconnection Facilities Rater(s): E. Kennedy	
Invasive/exotic spp	fen species	bog species	Oak Opening species	wet prairie species		
Lythrum salicaria Murionbollum micatum	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis	1 1 1 Metric 1. Wetland Area (size).	
Naies minor	Carer Bava	Correct autornical war. capitude at Correct sochingto	Cares insiocarpa	Calamogrostis stricta	max 6 mb with Salard one size class and assim acrona	
Phalaris arundinacea	<i>c</i> .	Carex oligosperma	Cladium mariscoides	Carex macroaes Carex buxbaumii		
Phragmiles australis		Carex trisperma	Calamagnostis stricta	Carex pellita	25 to <50 acres (10.1 to <20.2ha) (5 pis)	
Potamogeton crispus Ramarulur ficania	Deschampsia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii	10 to <25 acres (4 to <10.1 he) (4 ps)	
Rhammus frangula	thatteth	Eriophorum virginiums	Chescers paraters	Helionthus and a second submerial	3/10 <10 act act (1.2 10 <4 has) (3 pts)	
Typha angustifolia		Larix laricina		Liatris spicate	U.3 10 < 3 excrets (U12 to <1.2ma) (2 pts)	
Typha xglauca		Nemopanthus mucronatus		Lysimachia quadriftora	X 0.1 10 0.0 5 8 9 9 0 1 9 0 0 1 9 0 0 0 0 0 0 0 0 0 0 0	
	r arnassia gizuca Potentilla fruticosa	Scheonum cun		Lythrum alatum		
	Rhamnus alnikolia	ортадиат эрр. Vaccinium macrocarnon		Pychanthemum virginianum Silnhium terebinthinaceum	9 1 10 Metric 2. Upland buffers and surrounding land us	ä
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghasirum mitans	max 14 pts. subtural 2a. Calculate average buffer width. Select only one and assion score. Do not (outlie check	hed
	Salix candida	Vaccinium expectees		Spartina pectinata		
	Salix myricoldes	Woodwardia virginica		Solidago riddellii	X MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wettand parimet	met
	Solidare of issues	Ayrus aufformus			NARROW. Buffers average 10m to <25m (32ft to <82ft) anound wedrand perime	i i i
	Toffeldia abuttoea				VERY NARROW. Buffers average <10m (<22ft) strond wetland partmeter (0)	ê
	Trielochin marilimum				2b. Intensity of surrounding land use. Select one or double check and average.	
	Triglochin palustre				VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)	ç
					X [LOW. Old field (>10 years), strubishd, yeung second growth forest. (5)	
					MODERATELY HIGH. Residential, ferced pasture, park, conservation tage, r	ġ.
	End of Narrative Rating.	ng. Begin Quantitative Rating on next page.	ating on next page.		HIGH. Urbery, Educited, open pesture, row cropping, mining, construction. (1)	ε
					20 30 Metric 3. Hvdrology.	
					apply.	Ŕ
					(2)	L
					X Other groundwater (3)	
					X Precipitation (1)	
					Q	_1



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last revised 1 February 2001 Jm

**ORAM Summary Worksheet** 

		circle	
		answer or	:
		insert	Result
	A 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	sι	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Narrative Rating	Question 7 Chucal Habitat		li yes, category 3.
	Question 2. Threatened or Endangered Species	YES MO	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.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fans	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (10)	If yes, Category 3.
	Question 8b. Mature Forested Wetland	VES (IO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b, Lake Erie Wetlands - Restricted	AES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands Unrestricted with native plants	YES NO	· If yes, Category 3
	Question 9e. Lake Erie Wetlands - Umestricted 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
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	-	
	Metric 2. Buffers and surrounding land use	6	
	Metric 3. Hydrology	20	
	Metric 4. Habitat	0	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography		
	TOTAL SCORE	40	Category based on score breakpoints Modified 2

Worksheet
Categorization
Wetland
Complete

Absent or compress 41,11a (0,24,11 acces) contropous ansa Present and either contertess small part of wettand's vegetation and is of moderate quality, or comprises a significant part but is of low quality 4/29/2015 resent in very small amounts or if more common of marginal quality ark component of the vegetation, athrough urbance tolerant rathe spp can also be present moderate to moderately high, but penarally wis Present and either comprises significant part of weltand's vegelation and is of moderate quelity, or comprises & small part and is of high revolutionerse of nettro spacies, with normative styp and/or tubeness diversit nettine spo absent or virtually placent, and high diversity and othen, but not always, the presence of rare, adioned, or endargered spo r esent in ritoderate amounts, but not of highest quality or in small mounts of highest quality Narrative Description of Vegatation Questry Tow syn diverset and/or predominative of normative or disturbance reservin moderate or greater amounts and of highest quality Present and comprises significant part, or more, of wetland's regetation and is of high quality. d species diversity moderate to moderately hig sence of rare, threatiened, or endangered spp Moderate 1 to ~4he (2.47 to 9.98 acres) Low 0.1 to <1ha (0.247 to 2.47 acres) sop are dominant com tve and/or disturbance High 4ha (9.86 acres) or more oserit <0.1ha (0.247 acres) Metric 6. Plant communities, interspersion, microtopography. 6a. WatedVogasion Communities. Score all present using 0 to 3 scale. clerant native species u aity. Mudflat and Open Weter Class Quality Absent pography Cower Scale nown occurrence state/fecteral threatened or endangered species (10) Rater(s): E. Kennedy take Erie coastat/ributary wetland -unrestricted hydrology (10) Significant migratory songoint/water fowl habitat or usage (10) 19 Ę ŝ Category 1 Wetland. See Question 1 Qualitative Rating (-10) e ğ N -61 e • ake Erie coastal/inčulary wetland-restricted hydrology (5) W-2, W-3, W-4, W-5 Lake Plain Sand Prairies (Oak Openings) (10) 39 Metric 5. Special Wetlands. Coarse woody debris >15cm (8in) Check all that apply and score as indicated. Standing dead > 25cm (10in) dbh Vegetated hummucks/tussucks None (1) BC. Coverage of investive plants. Refer to Table 1 ORAM long form for fist. Add or deduct pednits for coverage. Nearly absent <5% cover (0) 40 GRAND TOTAL (max 100 pts) Mature forested wettend (5) koderate 25-75% cover (-3) b. Horizontal (plan view) Interspersion. Extensive >75% cover (-5) 0 Amphiblan breeding pools Sparse 5-25% cover (-1) Microlopography, core all present using 0 to 3 scale. Relict Wet Praines (10) ion Facilities Old growth focest (10) ioderately faigh (4) Abdenstely low (2) Abdenate (3) Aquatic bed Open Water Absent (1) Emergent Bog (10) Fan (10) High (5) (1) (1) Muchats Shrub Forest <u>Other</u> ORAM v. 5.0 Fleid Form Quantitative Rating Site: South Fleid Energy Interconter ano téno ano 0 0 0 × 39 brotal first page 40 1 max 20 pta. 0

Wetland Categorization Worksheet

Did you answer "Yes" to any	YES	CON	Is quantitative rating score less than the Category 2 scoring
of the following questions:	:	)	threshold (excluding gray zone)? If yes, reevaluate the
	Wetland is		category of the welland using the narrative criteria in OAC
Narratve Hating Nos. 2, 3, 4 6 7 85 54 10	Categorized as a		Kule 3745-1-54(C) and biological and/or functional
-1' a' t' oct =0' ia	Calegory o wellark	(	essessments to determine if the watand has been over- categorized by the ORAM
Did you answer 'Yes' to any	YES	ON	Evaluate the wetland using the 1) narrative criteria in OAC
of the following questions:		)	Kule 3745-1-54(C) and 2) the quantitative rating score. If
Namativa Retion Nos 1 8h	wetand should be evaluated for		The welland is determined to be a Category 3 welland using either of these if should be categorized as a Detectory 3.
9b. 9a. 11	possible Category		welland. Detailed biological and/or functional assessments
	3 status	(	may also be used to determine the wetland's category.
Did you answer "Yes" to	YES	(ON	Is quantitative rating score greater than the Category 2
		)	scoring threshold (including any gray zone)? If yes,
Narrauve Mating No. 5	wetand is		<ul> <li>reevaluate the category of the wetland using the rarrative</li> </ul>
	Categorized as a		criteria in UAV Rule 3/45-1-54(v) and propical andor frinctional accessments to determine if the wettend bas
		(	been under-categorized by the ORAM
Does the quantitative score	YES	(ON	If the score of the wetland is located within the scoring
fall within the scoring range		)	range for a particular category, the wettand should be
of a Category 1, 2, or 3	Wetland is		assigned to that category. In all instances however, the
welland?	assigned to the		narrative criteria described in OAC Rule 3745-1-54(C) can
	appropriate		be used to clarify or change a calegorization based on a
	category based on		quantitative score.
Does the quantitative score	YES)	NO	Rater has the option of assigning the welland to the higher
fall with the gray zone for	)		of the two categories or to assign a category based on the
Category 1 or 2 or Category	Wettand is		results of a nonrapid wettand assessment method, e.g.
2 or 3 wetlands?	assigned to the		functional assassment, biological assassment, etc, and a
	higher of the two		consideration of the narrative criteria in OAC rule 3745-1-
	calegories or		54(C).
	assigned to a		
	category based on		
	delaiied		
	assessments and		
	criteria criteria	(	
Does the welland otherwise	YES		A wettand may be undercategorized using this method, but
exhibit moderate OR supertor		)	still exhibit one or more superior functions, e.g. a wetland's
hydrologic OR habitat, OR	Wetland was	Wetland is	biolic communities may be degraded by human activities.
recreational functions AND	undercategorized	assigned to	but the wetland may still exhibit superior hydrologic
the welland was not	by this memod. A	category as	runctions because of its type, tandscape position, size, locat
categorized as a category z	whiten justification	determined	or regional significance, etc. In this circumstance, the
mediante fination) er e	Interaction in the provided		italiauve diteria in Orto rule of 45-1-54(v)(z) and (o) are controlling, and the index extraorization obout he
Cotencer 3, welland (in the	on Beckninind		contracted A written instituation with supportion reasons or
case of superior functions) by	Information Form		information for this determination should be provided.
this method?			_

Choose one Category 1 Category 2 Category 3

Final Cate

End of Ohio Rapid Assessment Method for Wetlands.

#### Background Information

Name: Ann Gilmore/Mary Gilmore	
Date: 11/24/2015	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: agiltmore@EnviroScienceInc.com	
Name of Wetland: W-6	
Vegotation Communit(les): PEM	
HGM Class(es); Depression	
Location of Wetland: Include map, addrass, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	-80.726646
USGS Quad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrotogic Unit Code	#05030101
Site Visit	11/24/2015
National Wetland Inventory Map	×
Ohlo Weltand Inventory Map	
Soll Survey	×
Delineation reportmap	×

11

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Name of Wetland: W.6	
Wetland Size (acres, hactares): 0.406 acres onsite	
Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	1 zones, etc.
Please refer to site wetlands and water resources map.	
Comments, Narrative Discussion, Justification of Category Changes:	
Final score : 47	Category: 2

### Scoring Boundary Worksheet

 INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurnisticonal boundaries." For example, the scoring boundaries the other instances, middle of a farm field will likely be the same as that wetland's juristicitional boundaries. In other instances, however, the scoring poundary will not be as easily determined. Wetlands that and related, in the surface waters often form linge to the same as that wetland 's juristicitional boundaries. In other instances, however, the scoring poundary will not be as easily determined. Wetlands that are only more than the other surface waters often form linge configuous areas or heterogeneous complexes of wetland and upland. In sparating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaris between configuous or contected wetlands should be established where the volumn, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland 's scoring boundaries, the to Rodel Manual Section 50. In certain instances, it may be difficult to establish the scoring boundary for the wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by strifficial boundaries like properiy fences, roads, or raiload cribaidisments, wetlands that are configuous recommended that Rater contact Olice RAA, Divide the stream, laker, or rivers, and estuarie or cosstal wetlands. These situations are discussed below, however, it is recommended that Rater contact Olice RAA, Divide ON and areas of the subtros scoring boundaries of a particular questions or a need for further clarification of the appropriate sociity boundaries of a particular withan questions or a need for further clarifi

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Télentify the welland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology charges region. Such addreve includes both nather and human- induced charges including, constitctions caused by berns of dues, points where the water veckory changes mobily at the points of dis points where significant inflows court at the conflaence of relevs, points where significant inflows ecourt at the conflaence of hows, of other factors that may restrict hydrologic interaction between the wettends or pairs of a single weitband.	×	
Step 3	Defines the boundary of the weltand to be rated such that all areas of interest that are complexus to and which the unsex where the hydroxopy does not change storificantly. Le, areas that have a high degree of hydrologic interaction are included within the sooring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, noads, rainced embankments, etc., are present. Three should not be used to establish scoring boundaries unless they coincide with areas where the hydrobotic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wellands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wetlands that form a patchwork on the landscape, divided by auficial boundaries, contiguous to streams, lakes or rivers, or for of rolal dassifications.		×

11

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literanture *and* by submitting a Data Services Request to the Ohio Department of Natural Resources. Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountial Square Court, Building F-1, Columbus, Ohio 43234, 614-265-4637 (bbrone), 614-265-4056 (fax), http://www.dnt.state.ohu.sdurga. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangenet Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an areal many require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Obio database.

#	Question	Circle one	
-	Critical Habitat. Is the welland in a township, section, or subsection of a United States Geological Survey. IS and Waldins Services as "onitate bean designated by the U.S. Fab, and Waldins Services as "onitate institut" for any timestaned or entangened plant or animal species? Note: see 30 ansurgry 1, 2001, of the federal will be for indrageted of threatined species which can be found in Ohio, the indiana Sent has bear directed habitat roomset (50 chund the Ohio, the indiana Sent has the directed habitat roomset of KE FB 41 81?) in No. 6. 2001.	YES Weilland should be evaluated for possible Calegory 3 status Go to Question 2	Go to Question 2
~	Threatened or Entangened Species. Is the wetland known to contain an individual of, or documented occumences of federal or state-listed threatened or endangered plant or entmal species?	YES Wetfand is a Category 3 wetland. Co to Outestion 3	Go to Question 3
e	Documented High Quality Wotland. Is the welland on record in Natural Hentlage Database as a ligh quality welland?	YES Vetland is a Category 3 wetland Ge to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the wetland contain documented regionally significant theeding or nonbreeding watertowi, neotropical songbird, or shorebird concentration areas?	YES Welland is a Category 3 welland Ge to Question 5	Go to Question 5
ю	Category 1 Wetlands. Is the wetland less than 0.5 hoctares (1 acre) In size and hydrologically tealand and either 1') confristed of vegostation that is dominated (greater than eight) per contareat con- by Philetis anundinacces. Lyfithum seticaria, or Philegindres australis, or 2) an stollepoid created of excavaled on mined lands that has filled or no vegetedion?	YES Watland is a Category 1 webland Go to Question 6	Go to Question 6
3	Bogs. Is the welland a peet-accumulating welland that 1) has no alpatificant inflows or coupone, 3 support sedoptilits particularly Synagurur sptv. 3) the acdiophilic masses have. >30% cover, 4) at least one speckes from Table 1 is present, and 5) the cover of trwastve species (see Table 1) is <25%?	YES Wetland is a Category 3 wetland Ge to Question 7	Go to Question 7
7	Fars. Is the wetland a carbon accumulating (peat, muck) wetland that is saturated during most the year, prainthy by a dotainage of the flowing, mineral rich, ground wetler with a circumentral ph (5.5.90) and with one or more plant species listed in Table 1 and the cover of invasive species listed in Table 1 § <25%?	YES Wetland is a Category 3 wotland Go to Question Ba	Go to Question &
88 	Tod Growth Forest: Is the weighted is forestear weighted and is the forest characterized by. Just not limited to, the following characteristics: overstory cancer life the soft great degle (konseling at least GD% of a projection maximum statishie also for a species); life the maximum statishie also for a species, life the part of the maximum statishie also for a species; life the part of the maximum statishie also for a species; life the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of t	YES Welland is a Category 3 welland. Go to Question 8b	Go to Question &

a	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest cancory consisting of	YES	ON ON
	dectuous frees with large diameters at breast height (dbh), generally diameters greater than 45cm (17.7in) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question Sa
		Go to Question 9a	(
86	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS man, adjoind to this character to the character of the the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the character of the chara	YES Coto Americo Bh	Coto Constan 10
ļ	BIEVERIORI, OF BIONID & UTIOUTERY TO CARE ETER WHILE BOOKSIDHE TO TISH		CO IO CORRECTO IO
8	Does by extransit's hytorogy result mon massures eachend to prevent envision and the loss of squalsc plants, i.e. the welland is partially hydroxypically restricted from Lake Eria due to lakeward or landward dikes or other hydroxypical controls?	YES Wetland should be evaluated for possible Category 3 status	Go ta Question 9c
		Go to Question 10	
SC	Are Lake Erie water levels the welland's primary hydrological influence,	YES	ON
	I.e. the weathouts in yorknotocisily waterschad (no lakeward or up)and border alterations), or the welland can be characterized as an "estuarine "welland with lake and river influenced hydrokcy. These includes astarbar edoposition, wellands, estuarine wellands, inver mouth wellands, or those dorinated by submersed autuce wellands. Inver mouth, or those dorinated by submersed autuce wellands. Inverted mouth, or those dorinated by submersed autuce wellands.	Go to Question 9d	Go to Question 10
5	Does the wetland have a predominance of nailye species within its venetation communities although non-nailye or disturbance inlegant	YES	ON
	native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
8	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	YES	ON
		Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	(
10	Late Plain Sand Prairies (Dat Openings) is the welland located in Lucas, Fullon, Henry or Wood Counties and can the welland be characterized by the following description: the welland has a sandy substrate, with interspersed organic matter, a wellar ballon (then within substrate, with interspersed organic matter, a wellar ballon (the within	YES Wet/and is a Category 3 wetland.	Go to Question 11
	seriel intervention of the states, an uver mute a vormanze or tree gramineous vegotation listed in Table 1 (woody species may size be present). The Ohio Department of Natural Resources Division of Natural Areas and Presense can provide assistance in confirming this type of webstord and is cuality.	Go to Question 11	(
F.	Relict Wet Prairies. Is the wetland a relict wet prairie community down-and humon or all of the snectes in Table 1. Extension craities	YES	2
	were formerly located in the Data Plains (Madixon and Union Counterly located in the Data Plains (Madixon and Union Counterly Space (Maranda) Creation and Anion	Wet/and should be evaluated for possible	Complete
	Counties), mathematic triples (right and the Huron, Lucas, Wood Countles),	Category 3 status	Rating
	and portions of westign Units Counties (e.g. Uarke, Mercer, Miami, Montgomery, Van Wert etc.).	Complete Quantitative	
		Kating	_

 Table 1. Characteuritic plott spoeles
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 Wet Prairie species

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End of Narrative Rating. Begin Quantitative Rating on next page.

6 illmore [11/242015	<ol> <li>Wetland Area (size). disc class and assign score. disc class and assign score. disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (5) (5) disc of scores ((1) to -2024b) (1) (5) disc of scores ((1) to -2024b) (1) (5) disc of scores ((1) to -2024b) (1) (5) disc of scores ((1) to -2024b) (1) (2) disc of scores ((1) to -2024b) (1) (2) disc of scores ((2) to -2024b) (1) (2) disc of scores ((2) to -2024b) (1) (2) disc of scores ((2) to -2024b) (1) (2) disc of scores ((2) to -2024b) (2) disc of (2) to -2024b) (1) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc of (2) to -2024b) (2) disc -2024b) (2)</li></ol>	ansection (1) 32. 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W-6 Ann Gilmore/Mary Gilmore	<ol> <li>Wetland Area (size).</li> <li>Lie Wetland Area (size).</li> <li>size class and assign score.</li> <li>size class (12) is -3023(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)</li></ol>	Hith, Uman, routstrat, open learue, now cropping, mining, conservation, U) 3. 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Score are or double check and average. 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ORAM v. 5.0 Fled Forn Ournfuche Raing Sife: South Fled Envery Interconnection Facilities	2 Metric Selections	16 132 Metric 3. Hydrology. max 30 pt. aetoid 3. Surged ther. Store at that apply. max 30 pt. aetoid 3. Surged the figuration control and the apply. The physical store at the apply of the store at the apply. The physical store at the apply of the store at the apply. The physical store at the apply of the store at the apply. The physical store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at the store at th	Recordence (1) Recordence (2) Recordence (3) Recordence (4)	15     A7     Metric 4. Habitat Alteration and Develore. Soon one of duble check and average distribution. Soon one of duble check and average.       As. Substate distribution. Soon one of duble check and average account (a)     As. Substate distribution. Soon one of duble check and average.       As. Pactoreching (2)     Paccoreching (2)       Ab. Habit (downlopment)     Substate distribution and average.       Ab. Habit (downlopment)     Substate distribution (1)       Ab. Habit (downlopment)     Substate distribution (2)       Cool (6)     Substate distribution (3)       Ac. Habit (downlopment)     Scone one of (4)       Ac. Habit (downlopment)     Scone one (6)	X         Nume of none appendint (9)           Reaconding (3)         Reaconding (3)           Reaconding (3)         Reaconding (3)

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last revised 1 February 2001 Jm

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imary Worksheet

Result If yes, Category 3. If yes, Category 3.

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AUDIONA KITA DADO				
0 47 Metric 5. Special Wetlands.	ands.			
	.ma.			
Fen (10)			Narrative Rating	Luestion 1 Critical Habitat
Old growth forest (10)				Question 2. Threatened or Endangened
Mature forested welland (5)				Species Outselvin 3 Hinh Ouslinv Naturel Wetland
Lake Erie coasta/r@utary v	Lake Erie coastat/ritbutary wettand -urrestricted hydrology (10)			
Lake Erie coastat/hibutary	Lake Erie coastat/hibu/ary wetlend-restricted hydrology (5)			Question 4. Significant bird habitat
Lake Plain Sand Prairies (Oak Openings) [10]	ak Openings) (10)			Question 5. Category 1 Wetlands
Relict Wet Prairies (10)				
Kinown occurrence stateffe	Known occurrence state/fedural threatened or endangened species (10)			
Significant migratory songo	Significani migratory songoindwater fowi trabitat or usage (10)			Question 7. Fans
Catagory 1 Wetland. See Ques	uestion 1 Qualitative Rating (-10)			Question 8a. Old Growth Forest
0 47 Metric 6. Plant commun	Inities, interspersion, microtopography.	srotopography.		
pis, autholia	Vegatation Community Cover Scal	Scale		Question 8b. Mature Forested Wetland
Score all present using 0 to 3 scale.	0	Absent or comprises <0. Tha (0.24/11 acres) configurous area		
Aquatic bed	-	Present and ether compress small part of weaton's vegolation and is of moderate quality, or comprises a significant part but is of low quality		Question 9b. Lake Erie Wettands - Restricted
4-42		Presert and either comprises significant part of welland's vegetation		
	8	jand is of moderate quality, or comprises a small part and is of high Interior		Question 9d. Lake Erie Wetlands -
) As with also		Present and comprises significant part, or more, of welland's		Ouestion 9e. Lake Erie Wetlands -
Open Waler	ю	vegetation and is of high quality.		Unrestricted with invasive plants
Other				Question 10. Oak Openings
<u>6b. Hortcontal (plan view) Interspersion.</u>	Nerrative Description of Vegetation Quality	tation Quality		
Score only one.	ð	Low spp diversity and/or predominance of nonnative or disturbance toterant native species		Question 11, Relict Wet Prairies
	Į	Nettive son are dominant component of the vecetation, although		
Moderately Agn (4)		normality and disturbance tolerant rative spin can also be present	Quantitative	Metric 1. Size
Modelate (J)		and species diversity moderate to moderately tagh, but generary wo presence of rare, threatened, or endergered spp	Kaung	Metric 2. Buffers and surrounding land use
moderatesy low (2)	10 10 10	14 medionihance of native statelies, with nonnative and stoller		
1) (1)		the prevention of the provided provided the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the provided of the pr		Metric 3. Hydrology
X None (0) <u>For Craterior of Investion Inter</u> ts		(sup diversity and often, but not aways, the presence of rare, threesened incordionneed and		Matric 4 Habitat
Table 1 ORAM long form for fish	Mudflat and Open Water Class Quality			
deduct points for covarage.	.0	Abseint =0, tha (0.247 acres)		Metric 5. Special Wetland Communities
Extensive >75% cover (-5)	4	Low 0.1 to <1ha (0.247 to 2.47 acres)		Matric 6. Diant communities interension
Moderate 25-75% cover (-3)	2	Moderate 1 to <4tra (2.47 to 9.88 acres)		microtopography
X Sparse 5-25% cover (-1)	3	Hight the (9.88 acres) or more		TOTAL SCORE
Nearly absent <5% cover (0)	MICrofopography Cover Scale			
Absaul (1)	-			
6d. Macrotopography.				
Score all present using 0 to 3 scale.		Present in very small amounts or if more continuon of marginal quality		
0 Vegelated hummuckahussucks	<b>X</b> S 2	Present in moderale amounts, but not of highest quality or in small		
Τ	(ma)			Complete Wetland Categorizatio
7-	en	Present in moderate or or stater announts and of highest que ity		
٦				

If yes, evaluate for Category 3; may also be 1 or 2, or 1 yes, evaluate for Gategory 3; may also be 1 or 2, If yes, Category 3

YES NO

If yes, Category 3. If yes, Category 3.

If yes, Category 3.

If yes, Category 3. If yes, Category 3. If yes, Category 1.

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It yes, evaluate for Category 3; may also be 1 or 2. If yes, Category 3

YES NO

lf yes, evaluate for Category 3; may also be A CONTRACTOR

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Refer to the most resent ORAM acces cally above our for the the scoring breakpoints between categories at the togowing access. http:/feps.aste.ch.us/dev420;MD1.html

### Categorization Worksheet.

Category based on score breakpoints 2

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Date: 11/24/2015	
Attiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
•-mail address: AGilmore@EnviroScienceInc.com	
Name of Wetland: W-7, W-8	
Vegetation Communit(ies): PEM	
HGM Class(es): Depression	
Location of Wetland: Include map, address, north arrow, landmarks, distances, roads, etc.	
โลยีเดียด ดับไท้ เวอดต์แหน่อ เป็นมีเดียด ดับไท้ เวอดต์แหน่อ	A46036 - 20 726583
USOS Quad Nama	
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
Stie Visit	11/24/2015
National Wetland Inventory Map	×
Ohio Wetland Inventory Map	
Soli Survey	×
Delineation report/map	

Wetland Categorization Worksheet

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Vetand is category 3 welland Eategory 3 welland YES Vetand should be weatuated for revaluated for revaluated for revaluated for stallas stallas reveatuated is wetand is wetand is welland is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand is wetand	enterpold (encluing para yoon) If tyse, reacting in OAC category of the welfand using the narrative criteria in OAC Rue 3745-146(1) and biological and/or functional assessments to determine it the welfand has been over- categorized by the OACM Evaluate the welfand using the 1) narrative criteria in OAC Rue 3745-145(1) and 2) the quartitelevent and score Rue as 2745-145(1) and 2) the quartitelevent and score Rue as 2745-145(1) and 2) the quartitelevent and score Rue welfand is determined to be a Category 3 welland. Datalete biological and as category 3 welland. Datalete biological and 2 category Is quartitelevent as a for dongenial and assessments may allob used to determine the welland's category Is conditional assessment.
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by Information Form	information for this determination should be provided.

End of Ohio Rapid Assessment Method for Wetlands.

Category 3

Final Category

Category 1

Choose one

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Name of Wetland: W-7. W-R	Wetland Size (acres, hectares):	Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map.	22			Comments, Namative Discussion, Justification of Calegory Changes:	Final score -
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#### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wethand being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "jurkiticinal boundaries." For example, the scoring boundaries (II other instat) boarded in the middle of a farm field will likely be the same as that wetland's jurkiticional boundaries. In other instances, howver, the scoring poundary will not be a scalify determined. Wetlands that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous areas or heterogeneous complexes of wetland and upland. In separating water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland's storing boundary for the wetland being trated. These problem situations include wetlands that form a patchwork on the landscription fared. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundary between constiguous areads, oradisod on a hand single wetland being treams, lakes, or rivers, and estuarine or coastal wetlands. These situations are discussed below, however, it is recommended that Rater coates Othol PAA, Dividendo or Santes and the aread questions or a need for further clariffection of Surface Water, 401/Wetlands Surfaced by artificial boundary is artificial or orastal wetlands. These situations are discussed below, however, it is recommended that Rater coates Othols of Starface Water, 401/Wetlands Section if there are additional questions or a need for further clariffection of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology charges reliably. Such address chardes that and known- induced changes including, constraines reaued by berns or disas, points where he water workhy changes publicly at heads or fails, points where significant inflows occur at the confluence of heads, points where significant inflows occur at the confluence of heads, or other factors that may restrict hydrologic interaction between the vetlands or parts of a single weitand.	×	
Step 3	Delineate the boundary of the weltend to be rated such that all areas or interest are comploused to and which the areas where the hydrotogy does not change significanity, i.e. areas that have a high degree of hydrotogic interaction are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, such and emainters, act, and present. These should not be used to estabilish scoring boundaries unless they coincide with arbas where the hydrologic regime changes.	×	   
Stop 5	In all instances, the feater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring toomdates for wetlands that form a patchwork on the landscape, divided by antificial boundaries, configuous to streams, lakes or rivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. J, 2, 3 and 4 should be mawered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Namral Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fourtain Square Court, Building F-1, Columbus, Ohio 43234, 614-265-453 (phone), 614-265-4906 (fax), http://www.dur.gate.oh.us/dng. The remaining questions are designed to be answeed primarily by the results of the site visit. Refet to the Use Shamal for descriptions of these wetland types. Note: "Critical Itabilitat" is legally defined in the Endangered Species Act and is the goographic area containing physical or biological features essential to the constration or distructions at mary equitor sprise or the Columbus Ecological features essential provection. The Rater should contact the Region 3 Headquarters or the Columbus Ecological Services of for other designated for other federally listed threatened or endangered species.

*	Question	Cincle one	
F	Critical Habitat. Is the weiland in a lownship, section, or subsection of a Unied States Geological Survey 7.5 mue? A canadra Quadration that has been designated by the U.S. Fish and Wrallife Sarved as "critical habitat" for any threatened or endangered plant or animal species? Note: as of January 1. 2007, of the indexing Visted andrangered or threatened species which can be fourd in Chio. Use holiana Bat has bad critical habitat designated (50 CFR 17.56(a)) and the piping plover had critical habitat.	YES Wettand should be evaluated for possible Calegory 3 status Go to Question 2	Go to Question 2
5	Threatened on training tryposections to the work of the welland frown to contain threatened or Endangered Spockes. Is the welland frown to contain an individual of or documented occurrences of federal or state-listed threatened or endangered plant or animal species?	YES Wetland is a Category 3 wetland.	Go to Question 3
5	Decumented High Quaity Wattand. Is the wetland on record in Natural Herifage Database as a high quality wetland?	YES Vetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Doss the weiland contain documented regionally significant breeding or nonbreeding waterfow, neotropical conguird, or shorebird concentration areas?	YES Welfand is a Category 3 welfand Go to Question 5	Go to Question 5
ю.	Category 1 Wetlends. Is the wetland less than 0.5 hectares (1 acre) in the analysis of the postered and an effert (1) comprised of vegetation that is dominated (greater than eighty per sent anal over) by Phatans enundinated (greater than eighty per sent anal by Phatans enundinated, untimated and the sent anal by Phatans enundinated or excavated on mined lands that has fully or no vegetation?	YES Welland Is a Category 1 welland Go to Question 6	So to Question 6
ι νο	Bogs. Is the weltand a peet-accumulating weltand that 1) has no periphicant intone or outtoons. 2) support actionhits masses, peribularly Sphegrum spp., 3) the addophits masses have 500% cover. 4) at least one speckes from Table 1 is present, and 5) the cover of invasive species (see Table 1) is ~25%?	YES Welland is a Category 3 welland Co to Question 7	Go to Question 7
	Fens. Is the welland a carbon accumulating (peat, muck) welland that is suturated outing most of the year, primariby by a discarge of free freeing, mineral rich, ground water with a circumentral ph (5.5-9.0) and with one or more plant species listed in Table 1 and the cover of Invasive species listed in Table 1 is <.55%?	YES Wettand is a Category 3 wettand Go to Question 8a	Go to Question &
8	Old Growth Forest," Is the welland a foreaded welling and sub- forest characterized by, the thinked to, the following characteristics: oversiony canopy trease of great age (exceeding at least 0% of a projected manum attainable age for a peakels), life to past 80, 100 of human-caused understory disturbance during the past 80, 100 of human-caused understory disturbance during the past 80, 100 canopy these intersported with canopy gaps, and significant numbers of standing dead structure and downed logs?	YES Wetland is a Category 3 wetland. Go to Question 8b	Go to Question Bb

			C
ą	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of income forest cancov consisting of	YES	ON
	our with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	(
88	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation tess than 575 feet on the USGS map, adjacent to this	YES	2
	elevation, or atong a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
	Does the valuants hyrofology result form measures adelpoot to provent envaluent and the loss of autuatic plants, i.e. the welfand is partially hydrologically restricted from Lake Erie due to lakeward or landward dives or other hydrological controls?	YES Wettand should be evaluated for possible Category 3 status	NO Go ta Question 9c
		Go to Question 10	
8 8	Are Lake Erle vator levels the veltand's primary hydrological influence. i.e. the velopand is hydrologically unrested no isfoard on typland border alterations), or the veltand can be characterized as an estuartier weltand with take and river influenced hydrology. These	YES Go to Question 9d	NO Go to Question 10
	Include sandbar deposition wetlands, estuarine wetlands, river mouth wetlands, or those dominated by submersed aquatic vegetation.		
99	Does the welland have a predominance of native species within its usualation communities atthenuch connation or distructance this rant	YES	ON
	regeneration components autorup internation a distribution of the present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
96	Does the wetland have a predominance of non-native or disturbance tolerant native plant species within its vegelation communities?	YES	Ņ
		Welland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	(
<del>1</del> 0	Lake Plain Sand Prairies (Oak Openings) is the welland located in Lucas, Fullon, Henry, or Wood Courties and can the welland be Lucas for the forth of the statements of the second	YES Wallandia a Catanoou	Ge to Direction 11
	cularaterial by the lowering description. The reliance a series substrate with the reliance of the within substrate with the surface and offen with a dominance of the surface and offen with a dominance of the	3 wetand.	
	events arrays of the process, was very arrays of the array socialized in Table 1 (woody, speciels first also be present). The Ohio Dopartment of Natural Resources Division of a Natural Areas and Presences can provide assistance in confirming this two of weitand and fit multive	Go to Question 11	(
Ē	Relict Wet Prairies. Is the welland a relict wet prairie community	YES	(on)
	I dominated by some or all of the species in Table 1. Extensive praines were formenty located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky PlaIns (Wyandol, Crawford, and Marion Counties), northwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties),	evaluated for possible Calegory 3 status	Quantitative Rating
	and portions of western Chio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Complete Quantitative Ratino	

 Table 1. Characteristic plant species.
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End of Narrative Rating. Begin Quantitative Rating on next page.

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W-7; W-8 Ann Gilmore/Mary Gilmore	Metric 1. Wetland Area (size). Select one size class and assign score. Select one size class and assign score. Select one size class and assign score. Select one size class (10-16-20.2mb) (5-16) Select one size class (10-16-20.2mb) (5-16) 310-55 sense (10-16-20.2mb) (5-16) 310-55 sense (10-16) (2-16) 310-55 sense (10-16) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16-41) (2-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) sense (12-16) sense (12-16) 311-50 sense (12-16) sense (12-16) sense (12-16) sense	<pre>transmission 1990 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</pre>	Habitat Afteration and Development. trons. Some ore of duels check and avenge. trons approvint (a) werd (b) trons approvint (a) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) trons approvint (b) tr
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Habitat Alteration and Develor and analysis at the solution and Develor at the solution and Develor at the solution and Develor at the solution and Develor at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the solution at the

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Result

If yes, Category 3. If yes, Category 3. If yes, Category 1. If yes, Category 3.

If yes, Category 3. If yes, Category 3.

If yes, Category 3.

If yes, Category 3.

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	45						circle	
	45 Met	Metric 5. Special Wetlands. Check at the uppy and score as indicated.					answer of insert	
	L	Bog (10)			Narrative Rating	Question 1 Critical Habitat	YES NO	Ē-
		Old growth forest (10)				Question 2. Threatened or Endangered	YES NO	
		Mature forested wettand (5)				opecies Question 3. High Quality Natural Wetland	YES NO	
		Lake Erie cosstat/moutary wetland -un estinded nydrology (5)	resurces ayarology (1.0) tricled hydrology (5)		<u> </u>	Ouestion 4. Significant bird habitat	YES (NO)	╞
		Lake Flain Sand Prairies (Oak Openings) (10)	gs)(10)			Question 5. Category 1 Wetlands	YES NO	╞
	<u> </u> _	Rekd Wet Praties (10) Known cosurtence stale/fedieral threatened or endencered	ened or encancered species (10)			Question 6. Bogs	YES NO	1=
		Significant migratory songbirdwater form hebitat or usage (10)	with the following the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			Question 7. Fens	YES NO	
	+	Celegory 1 Weltard. See Question 1 Qualitative Reiling (-10) Matrice & Blant communitions intersections microtomocuranism	Gualitative Rating (-10) e interessory in min			Question 8a. Old Growth Forest	YES NO	5
max 20 pts.	40 62. W	6a. Wetland Vegetation Communities. Score all present reliand to 3 scale.	vegatation Community Cover Scale	rocopographity. Scale Scale formolise 35.11a.10.14.14 actes molitomic and	··	Question 8b. Mature Forested Wetland	YES NO	<u> </u>
		Aquetic bed		ressons of surfaces variants (variants a source) and a source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the sou		Orrestion 9h Lake Erie Wetlands -	YES NO	-
		Emergent	-	or moderate querry, or comprises a significant per Loui is on two queary. Present and either contrations starificant cont of writand's workation		Restricted		_0-
	<u> </u>	Struct	8	and so in moderate quality, or comprises a small part and is of high quality.		Question 9d. Lake Erie Wetlands -	YES NO	<b>[*</b> -
		Mudflats	3	Present and comprises significant part, or more, of welland's vegetation and is of high quality.		Question 9e. Lake Erle Wetlands - Unrestricted with invasive plants	YES NO	50
		Other Other				Question 10. Oak Openings	YES NO	
	Score C	5b. Horizontal (plan view) Intersperaton. Score only one.	Narrative Deacription of Vegetation Quality [Low son diver	etton Quality Low soo divensity and/or predominance of normative or distuctance		Question 11. Relict Wet Prairies	VES (NO)	╞
	Ľ	Hagh (5)	low	tideatai natha specias				<u> </u>
		Moderately high (4) Moderate (3)	700	രുവൗര് ഭൂറ്റ ഒരു രാമ്പാക്ക് മാന്വാര്ക്കും. വേനും ശാളാകുന്നത. ജനാവുന നോന്മത്രേം തംഗ്രം നീട്ടവുംബം വാം വാം നേരം ശാളാം നെല്ലാം ടുറ്റ മേണ്ട് കൂര് വാം താംബം. മാന് ടുറ്റെല്ലോം മാശ്നോള്ക്ക് മാം നോട്ടില്ലെ നെന്നത്തില്ലെ സംസം മാം തംബം പ്രംബം പ്രംബം പ്രംബം പ്രംബം പ്രംബം പ്ര	Quartitative Ratino	Metric 1. Size	0	
		Moderately low (2)		presence of rare, threatened, or endargered spp	9	Metric 2. Buffers and surrounding land use	14	
	×		464	A predominiance of native species, with normalive size analog disturbance tolenant native spo absort for virtualist elsent, a nd Mgh constructive nor different that normalizes than normal on a normal		Metric 3. Hydrology	16	
	5 9 9	66. Coverage of invasive plants. Refer to Table 1 / Date have form for fiel Add ac	El urbitate and Charles (Matter 6)	the prevention of the most provide and top		Metric 4. Habitat	15	
	dectuct	deduct points for coverage.		0 Absent <0.1na (0.247 acres)		Metric 5. Special Wetland Communities	0	
		Extensive >75% cover {-5}		tow 0.1 to <1ha (0.247 to 2.47 acres)	_	Metric 6. Plant communities, interspension,		調整
		Moderate 25-75% cover (-3)	8	Moderale 1 to 44ha (2.47 to 9.88 acres)		microtopography		S C
	×	Sparse 5-23% cover (-1)	Microtonoorandev Cover Scale	100 411 ( 10 20 20 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10			46	<u> </u>
	Ĺ	Т	0	Absent				-
	Ed. Ma Scores	64. Microfopography. Score all present using 0 la 3 scale.		Present in very small amounds or if more common of manginghai question				
	• •	Vegetated hummucks/hussucks	ч	Present in modeate amounts, but not of highest quarky or in amail amounts of ighest quarky				
	<u> </u> -					Complete weuand Categorization workspeet	HOH W OFKSDE	5
46				Present in moderate or greater amounts and of highest quality				
	· · · · · · · · · · · · · · · · · · ·							

Refer to the most recent ORVM score calibration report to the acording breatipe hild between callegories at the following address: http://apa.atate.otu.uz/dav.4014.0014.html

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### ation Worksheet

Category based on score breakpoints 2

If yes, evaluate for Category 3; may also be 1 or 2.

If yes, evaluate for Category 3; may also be 1 or 2. 1 f yes, Category 3

If yes, evaluate for Category 3; may also be 1 or 2. Fir yes, evaluate for Category 3; may also be 1 or 2. If yes, Category 3

Wetland Categorization Worksheet

Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions:	YES	9	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the
Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	Wetland is categorized as a Category 3 wetland	(	category of the veritand using the narrative critieria in OAC Rue 3745-1-54(C) and biological and/or functional assessments to determine if the welland has been over- cateororized by the ORAM
Did you answer "Yes" to any of the following questions:	YES	ON	Evaluate the wettand using the 1) narrative criteria in OAC Rute 3745-1-54(C) and 2) the quantitative rating score. If
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wettand should be evaluated for possible Category		the wetland is determined to be a Category 3 wetland using either of those, it should be calegorized as a Category 3 wetland. Detailed biological and the fundicinal assessments
Did you answer "Yes" to	YES	ß	instructure and the second management of the constructure and the constructure and the constructure and the constructure and the constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure and the second constructure
Narrative Rating No. 5	Wettand is categorized as a Category 1 wettand		reserve automotion the weiland, weiland weiland weiland weiland weiland weiland weiland weiland weiland weiland of the mattive ortifarta in OAC Rule 3745-1-54(C) and biological anci/or functional assessments to determine if the weiland has been under-statecortext by the ORAM.
Does the quantitative score fail within the scoring rance	YES	9	If the score of the weitand is located within the scoring ranna for a nationiar catework the weitand should be
of a Category 1, 2, of 3 welland?	Wetland is assigned to the appropriate category based on bre scoring range		assigned to that calegory. In a mean a how use assigned to that calegory. In all iteratores however, the narrative ortienta described in OAC Rule 3745-1-54(C) can be used to clarify or change a calegorization based on a quantitative score.
Doos the qualitative score fail with the "gray zone" for Category 1 of 2 or Category 2 or 3 wellands? 2 or 3 wellands? 1 note the wellary category.	Vettand is Wettand is higher of the two calegories of calegory based on assessments and the Aarative the Aarative the Aarative the Aarative	ON	of the two size four of sasity as well of the works of the highling of the two calegories of the assign, a classcore yeased on the results of a nonrapid welland assessment method, e.g. functional assessment, biological assessment, etc. and a consideration of the startative orienta in OAC rule 3745-1- 54(C).
cover any event of remains a shift incidente OFF support hydrologic OFF habital, OFF recreation functions AND the welland was not casegorized as a calegory 2 welland (in the case of moderate incidens) or a moderate incidens) or a case of superior functions) by this method?	Present and was Wethand was by this method. A write institution institution for recatingorfization should be provided on Background information Form	Wetland is assigned to category as datarmined ORAM.	versary rins by the unsuctanguity in the intervent out still achibit one or more superior functions, e.g. a wellands, blobb communities may be derived by thirmen activities, blobb because of its type, landsteaped by thirmen activities, thirdfons because of its type, landsteape position, size, local composition activities of this superior the provinsition, the namative chieft in OAC fulle 3745-1-54(C)(2) and (3) are correlling, and the under-calegorization should be correlling, and the under-calegorization should be correlled. A written justification with supporting reasons or information for this determination should be provided.

Category 3	
Category 2	
Category 1	
Choose one	

Final Category

# End of Ohio Rapid Assessment Method for Wetlands.

#### Background Information

•	
Name: Brian Slaby	
Date: 04/29/2015	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: BS(aby@EnviroScienceInc.com	
Name of Wetland: W-9	
Vegetation Communit(les): PEM	
HGM Class(es): Depression	
Location of Weiland: Include map, address, north arrow, landmarks, distances, roads, ekc.	
Please refer to site wetlands and water resources map.	
pordinate	-80.720569
USGS Qued Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
Silo Visit	04/29/2015
National Wetland Inventory Map	×
Ohio Wetland Inventory Map	
Sail Survey	×
Delineation report/map	×
	_

				<b>y</b> : 2
	irs, végetation zones, etc.	ces map.		Category:
	0.040 acres onsite nship with other surface wate	nds and water resou	ustfication of Category Chan	
Name of Wettand: W-9	Wettand Size (acres, hectares): 0.040 acres on Sife Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc.	Please refer to site wetlands and water resources map.	Comments, Narrative Discussion, Justification of Category Changes:	Final score : 46

### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wealand being rated. In many instances this determination will be relatively easy and the sooring boundaries will coincide with the "jurisdictional boundaries." For example, the scoring boundaries to an areash located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be assure as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be assare as that wetland's jurisdictional boundaries. In other instances, however, the scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. Wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that should be used. We are rowing through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be scored as a single wetland. In determining a wetland 's scoring boundaries, the polucicition should be scored as a single wetland's and form a patchwork on the landscape, wetland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetland being rated. These problem situations or coastal wetlands. These situations are discussed bolow, however, it is freenumised that Rater carter coastal wetlands. These situations are discussed bolow, however, it is recommended that Rater carter coastal wetlands. These situations are discussed bolow, however, it is recommended that Rater carter coastal wetlands. These sintations are discussed bolow, however, it is recommende

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	I identify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locators where there is physical evidence that hydrology clarges ranges modulence includes both natural and human- induced damages including, constrictions caused by berns or dises, points where the water vectory changes rapidly at rapids or fails, points where significant inflows court at the confluence of releas, points where significant inflows court at the confluence of releas, points where significant inflows court at the confluence of releas, points where significant inflows court at the confluence of releas, points where significant inflows court at the confluence of releas, we denote factors that may restrict hydrologic interaction between the welfands or parts of a single welfand.	×	
Step 3	Defineato the boundary of the wellard to be rated such that all areas of interest that are conductors to and which the areas where the hydrology does not change significantly. (Le. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	×	
Stap 4	Determine if artificial boundarias, such as property lines, state lines, noads, railocad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	In all instances, the Rater may eniatige the minimum scoring boundaries discussed here to score (ogether wellands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wellands that form a patchwork on the landscape, divided by artificial boundaries, configuous to streams, lakes or rivers, or for dual desetfications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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	Question	Circle one	(
┝	Critical Habitat. Is the wetland in a township, section, or subsection of	YES	(ON)
	a United States Geological Survey 7.5 minute Quadrangle that has		; ; ; ; ;
	been designated by the U.S. Fish and Wilding Service as children hobital for any threatened or endancered block or enimal sheckers?	eveloand should be evaluated for noscible	
	Note: as of January 1, 2001, of the federally listed endangered or	Category 3 status	_
	threatened species which can be found in Ohlo, the Indiana Bat has		
	had critical habitat designated (50 CFR 17.95(a)) and the plping plover has had critical habitat accorded (65 CB 41313 to 0.8 2000)	Go to Question 2	1
~	Threatened or Endangered Sheries 1s the weiterd known to contain	YES	(ON
r	an individual of, or documented occurrences of federal or state-listed	ł	D
	threatened or endangered plant or animal species?	Wetland is a Category	Go to Question 3
		Go to Question 3	(
en i	Documented High Quality Wetland. Is the wetland on record in Natural Haritzae Database as a Mah and its unstand?	YES	(or)
	ו יומווות רדמו הפטר כשנמוטסט מס מ ווקוו קטמוגין אימטאיתיי	Wetland is a Category	Go to Question 4
		3 wetland	
		Go to Question 4	ļ
4	Significant Breeding or Concentration Area. Does the welland	_ YES	
	contain occurriented regionary significant preventing or nonvierging underfixed morecologi consisted on shore the sum contration created	Maland is a Colocon	Coto Ountibu E
		3 wetland	
		Go to Question 5	(
2	Category 1 Wellands. Is the welland less than 0.5 hectares (1 acre)	YES	(ON)
	vegetation that is dominated (greater than excite our cent area) cover)	Wetland is a Category	Go to Question 6
	by Phalans anundinacea. Lythrum salicaria, or Phragmikas australis, or	1 welland	
	2) an addic pond created or excavated on mined lands that has little or	0 00	
	No vegetation?	Go to Question 6	
9	Bogs. is the weitand a peat-accumulating weitand that 1) has no significant inflows or n inflows. 2) supports arbitrability mosses.	YES	<u>)</u>
	particularly Sofiagrum spp., 3) the acidophilic mosses have >30%	Wetland is a Category	Go to Question 7
	cover. 4) at least one species from Table 1 is present, and 5) the	3 wetland	
	7%22> SI (1 BIOR 1 SPECIES (288 1 2006 1)) S <25%	Ga to Ouestion 7	(
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	YES	(on)
	. Is saturated during most of the year, primarily by a discharge of tree flowfnor mineral rich, croning water with a cincimpetitral ph (5.5-9.0)	Welland is a Category	Go to Question Ba
	and with one or more plant species listed in Table 1 and the cover of	3 welland	
	Invasive species listed in Table 1 is <25%?		
	100 100 100 100 100 100 100 100 100 100	Go to Question Ba	
	<ul> <li>Und Growm Forest." Is the welland a porested welland and is the forest characterized by but not limited to, the following characteristics:</li> </ul>	2	<u>)</u>
	overstory canopy trees of great age (exceeding at least 50% of a	Welland is a Category	Go to Question 8b
	<ul> <li>projected maximum attainable age for a species); little or no evidence of human caused indication distributions during the cast 80 to 100.</li> </ul>	3 welland.	
	vi runter reased diversion runter and multitayered canopies; aggregations of	Go to Question 8b	
	canopy trees interspersed with canopy gaps; and significant numbers		

<b>48</b>	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest renoov consisting of	I YES	2
	decknows thread with the and even on the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the per	Wetland should be evaluated for possible Category 3 status.	Go to Question 9a
		Go to Question 9a	(
9.8	Lake Erfo coastal and tributary wetlands. Is the wetland located at an elevation teas than 575 feet on the USC35 may, adjacent to this elevation. or eleven a tibutary to Lake Erie that is accessible to fair?	YES Go to Question 9b	Go to Question 10
	Does the weltand's hydrology result from measures designed to prevent orders mar the loss of equatic plates, i.e. the weltand is partelly hydrologically restricted from Lake Eria due to lakeward or landward dikes or other hydrological coortrols?	YES Wetland should be evaluated for possible Category 3 status Co to Direction 10	NO Go to Question 9c
96	Are Lake Eth vater levels the wetland's primary hydrological influence, 1.s. the wetlands hydrologically unreaded (no likely and of the analysis of the wetland can be characterized are ob- bed alreadions) or the wetland can be characterized are a "estuartine viewallan" of the analysis of the analysis and the analysis though a solution with lake and their influenced hydrology. These includes as base deposition wetlands, as usuaries wetlands, new mouth wetlands, or those dominated by suthmersed arunkis wetlands. The mouth wetlands, or those dominated by suthmersed arunkis wetlands.	YES Go to Question 3d	NO Ga to Question 10
	Does the weltand have a predominance of native species within its vegetation communities, uttraugh non-rative or distwhance twerant native species can also bo present?	YES Wettand is a Category 3 wettand Go to Question 10	NO Go to Question 9e
3 	Does the welland have a precompance of non-mative or disturbance tolerand native plant species within IS vegatation communities?	YES Wattand should be avaluated for possible Category 3 status Go to Question 10	NO Go to Question 10
9	Lucker Final Shart Particle (Deta Opending) is the welliard focalized in Lucks: Fulkon, Henry, or Wood Countlies and can the welliard back obstantiarized by the (Johnky description: the welliard has a sandy substate with interpreter of openin: rates, a weak lobe often within soviest increase of openin: rates, a weak lobe often within soviest increase of openin: rates, a weak lobe often within soviest increase of the surfaces, and other with a convention of partitiones of the surfaces and other with a conventiones of the partitiones and Present of Tablet in Tablet a (wood) reposition of tratarial Asses and Present can provide assistance in confirming this type of veditand and lis quality.	YES Wetband is a Category 3 wetland. Go to Question 11	Go to Question 11
÷	Rollet Wort Prairies. Is the welland a relieu wet praine community dominated by same or all of the specials in Table 1. Extensive Prairies were formerly located in the Darty Plains (Madkon and Union Counties), stratistic Plains (Wandou). Cawford, and Marion Counties), northweat Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of meetian Table Counties (e.g. Darke, Marcer, Miami, Montgomery, Van Wert etc.).	YES Wetland should be evaluated for possible Category 3 status Complete Quantitadive Rating	NO Complete Quantitative Rating

**ORAM Summary Worksheet** 

circle	insert Result	YES (NO) If yes, Category 3.	YES (NO) If yes, Category 3.	YES NO If yes, Category 3.	YES NO If yes, Category 3.	YES NO If yes, Category 1.	YES (NO If yes, Category 3.	YES (NO) If yes, Catagory 3.	YES NO If yes, Category 3.	YES NO If yes, evaluate for Category 3; may also be 1 or 2.	YES (NO) If yes, evaluate for Category 3; may also be 1 or 2.	2	YES NO If yes, evaluate for Category 3; may also be 1 or 2.	YES (NO If yes, Category 3	YES NO If yes, evaluate for Category 3; mey also be 1 or 2.			21 21 21	13	0		
		Namative Rating   Question 1 Critical Habitat	Question 2. Threatened or Endangered	Question 3. High Quality Natural Wetland	Question 4. Significant bird habitat	Question 5. Category 1 Wetlands	Question 6. Bogs	Question 7. Fans	Question 8a. Old Growth Forest	Question 85. Mature Forested Wetland	Question 95. Lake Erie Weitands - Restricted	Question 9d. Lake Erje Wetlands – Unrestricted with native plants	Question 9e. Lake Erie Wettands - Unrestricted with invasive plants	Question 10. Oak Openings	Question 11. Relict Wet Prairies	Guantitative Metric 1. Size Rating	<u> </u>	Metric 3. Hydrology	Metric 4. Habitat	Methic 5. Special Wetland Communities	Metric 6. Plant communities, interspersion,	

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Complete Wettand Categorization Worksheet.

Ajrihum asticutina "Zogedman degens wur glaueus Calla phalvita- blychum asticutina "Zogedman degens wur glaueus Calla phalvita Meita minor "Consult phantagenet Canex erlehnis Andra minor "Canex Arriva" Canex erlehnis Phalarta summanaces Canex astricta "Canex erlehnis Phalarta summanaces Canex astricta "Canex erlehnis Phalarta summanaces "Canex astricta "Canex erlehnis Phalarta summanaces "Canex astricta "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis "Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis Phalarta summanaces "Canex astricta" "Canex erlehnis "Phalarta summanaces" "Canex erlehnis "Canex erlehnis" "Phalarta summanaces "Canex astricta" "Canex erlehnis" "Phalarta summanaces "Canex astricta" "Canex erlehnis" "Phalarta summanaces "Canex astricta" "Canex erlehnis" "Phalarta summanaces" "Phalarta summanaces "Phalarta summanaces" "Solution volocutis" "Canex astricta" "Canex erlehnis" "Soluta on odor astricta" "Canex erlehnis" "Canex erlehnis" "Soluta on odor astricta" "Canex erlehnis" "Soluta on odor astricta" "Canex erlehnis" "Canex erlehnis" "Soluta on odor astricta" "Canex erlehnis" "Corex erlehnis" "Soluta on odor and "Canex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Soluta on odor erlehnis" "Canex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Soluta on odor erlehnis" "Canex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Soluta on odor erlehnis" "Canex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex erlehnis" "Corex	bog species	<b>0ak Opening species</b>	wet prairie species
Cavalta plantagaea Cavalta plantagaea Carax Rans Carax sterilis Carax sterilis Carax sterilis Perchanis routellata Develta planta Parmasti a pluca Parmasti a pluca Parmasti a pluca Ratra rontona Saltx ornitorea Saltx ornitorea Saltx ornitorea Saltx ornitorea	Calla palustris	Carex cryptolepis	Calamagrostis canadensis
Carrex Servic Carrex service Carrex atricta Carrex atricta Carrex atricta Carres atricta Develation Proventia atrinut Promosta atrivita Promosta atrivita Promosta atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita Provensu atrivita	Carex atlantica var. capiliacea	Carex lasiocarpa	Calamogrostis stricta
Carrex sterilis Carrex stricts Carrex stricts Deckhampin completes Deckhampin completes Dechamin viridication Briogener wiridication Carritanopais ego. Parmeus altifolia Rommus altifolia Rommus altifolia Rommus altifolia Salitx reprisiones Salitx reprisiones Salitx reprisiones	Carex echinata	Cares stricta	Carex alherodes
Care arista Develanção aceptada Elecchar a valejta Elecchar a valejta Contanopris ap. Contanopris ap. Farnessa favora Romans a hibitita Roynchargora a cultacea Salix myricoldes Salix myricoldes Salix myricoldes Salix myricoldes	Carex oligosperma	Cladium mariscoides	Carex buxbaumil
<ul> <li>Development consequences</li> <li>Blockbargin trattellates</li> <li>Blockbargin trattellates</li> <li>Broghnerm winkleartmatum</li> <li>Broghnerm winkleartmatum</li> <li>Brownsking Block</li> <li>Brownsking Blockbargin</li> <li>Brownsking Bloch</li> <li>Blockbargin and blockbargin</li> <li>Salitz myricoldes</li> <li>Salitz myricoldes</li> <li>Salitz myricoldes</li> <li>Salitz myricoldes</li> </ul>	Carex Irisperno	Calamagnostis stricta	Carex pellita
Elecchar's revellata Elecchar's revellata Elecchar's revellata Gentilagyste spp. Permassia glouco Permassia glouco Rommus a hijolata Rommus a hijolata Saltx revisione Saltx revisione Saltx revisione	Chamaedaphne calvculata	Calamagnostis canadensis	Carex sameelli
Evolution virilicationen Genitaopais app. Lobella kulmi Parmasia gineca Parmasia gineca Romanua dingolia Romanua dingolia Salix ensista Salix ensista Salix ensista	Decodon verticillatus	Ottencius palustris	Gentiana andrewsit
Corritouoperis 29., Lobella Jahual Parmassi Altuca Parmassi Altuca Rommus anglulacea Rommus anglulacea Salix rensiones Salix rensiones Salix rensiones	Sriophorum virginicum		Helianbus grosseserratus
Parmassia gancar Parmassia gancar Potentila franticoar Rippelopora copilacea Rippelopora copilacea Salta myricodas Salta revisiona	laricina		Liatris spicala
a osa apillacea s	Nemoparthus mucronatus		Lysimachia quadrifiona
osa Nia spillacea set	Schechwerig pulustris		Lyhtrum alalum
lia apillacea P s sei	num spp.		Pycnanthemum virginianum
apillacea s sis	accinium macrocarpon		Silphium terebinthinaceum
	Vaccinium convintosium		Sorgiastrum mutans
s Seit	accinium oxycoccas		Spartina pectinata
Seit	Voodwardia virginica		Solidago riddellii
seif	difformis		
	ł		
Tofieldia glutinosa			
Triglochin maritimum			

End of Narrative Rating. Begin Quantitative Rating on next page.

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forksheet	
orization <b>W</b>	
nd Catego	
Wetlan	

	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any	YES	ON	Is quantitative rating score less than the Category 2 scoring
of the following questions:	Wattand is	)	threshold (excluding gray zone)? If yes, reevaluate the referenced the uniford unless the correction officients Office
Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	category 3 wetland		exception for the recent balling of the land of the content of the order of the 3745-1-54 (C) and biological and/or functional assessments to deformine if the welland has been over- categorized by the CPAM
Did you answer "Yes" to any	YES		Evaluate the wetland using the 1) narrative criteria in OAC
or the tokowing questions:	Wattand should be	)	Fule 3/40-1-54(C) and 2) the quantitative rating score. If the unitary is determined to be a Colonom 2 welland usion
Namative Rating Nos. 1, 8b,	evaluated for		either of these, it should be categorized as a Category 3
90, 96, 11	possible Category 3 status	(	welland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to	YES	2	<ul> <li>Is quantitative rating score greater than the Category 2 scoring threshold (including any gray zone)? If yes.</li> </ul>
Namative Rating No. 5	Wetland is		reevaluate the category of the watand using the narrative
	categorized as a		criteria in OAC Rute 3745-1-54(C) and biological and/or functional assessments to determine if the welland has both undercenterationation to the OAM
Does the quantitative score	VES	ON .	If the score of the wetland is located within the scoring
fall within the scoring range	)		range for a particular category, the wetland should be
of a Category 1, 2, or 3 weitand?	Wetland is assigned to the		assigned to that category. In all instances however, the narrative criteria described in OAC Rute 3745-1-54(C) can
	appropriate		be used to clarify or change a categorization based on a
	category based on the scoring range	(	quantitative score.
Does the quantitative score	YES		Rater has the option of assigning the wetland to the higher
Category 1 or 2 or Category	Wattand ie	)	<ul> <li>Of the two categories or to assign a category based on the mentile of a promovial unitand accommon method on</li> </ul>
2 or 3 wetlands?	assigned to the higher of the two categories or		functional assessment, biological assessment, etc. and a consideration of the narrative criteria in DAC rule 3745-1- 54(C).
	assigned to a category based on		
	assessments and the narrative		
Does the wetland otherwise	YES		A wetland may be undercategorized using this method, but
hydrologic OR habitat, OR	Welland was	Wetland is	sui extiloit one or more superior runctions, e.g. a weitand s blotic communities may be desnaded by human activities.
necreational functions AND the wettand was not	<ul> <li>undercategorized hv this method</li> </ul>	assigned to	but the wattand may still extibit superior hydrologic functions because of its time funderane moniton size forei
calegorized as a Category 2	written Justification	determined	or regional significance, etc. In this circumstance, the
wettand (in the case of	for recategorization	by the	nametive criteria in OAC Rule 3745-1-54(C)(2) and (3) are
modenate runcuons) or a Category 3 wetland (in the	snould be provided on Background	OKAM.	controlling, and the under-categorization should be corrected. A written justification with supporting reasons or
case of superior functions) by his method?	Information Form		information for this determination should be provided.

	Category 3
ial Cateoory	Category 2
Fin	Category 1
	Choose one

# End of Ohio Rapid Assessment Method for Wetlands.

#### Background Information

Name: Brian Slaby	
Date: 04/29/2015	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: BS(aby@EnviroScienceInc.com	
Name of Wetland: W-10, W-11	
Vegetation Continuitities): pFO	
HGM Class(6s): Depression	
Location of Wetland: Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
LaitLong of UTM Coordinate 40.648807, -80,719299; 40,648857, -	-80.718814
USOS Quad Name	West Point
County	Columbiana
Township	Madison
Section and Subsection	
Hydrologic Unit Code	#05030101
Stie Visit	04/29/2015
National Wetland Inventory Map	×
Ohio Wedtand Inventory Map	
Soil Survey	×
Defineation report/map	×

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	Total 0.610 acres onsite Ishib with other surface writers, veestation zones, etc.	water resources map.			r Gategory Changes:	
÷	Wetland Size (acres, hectares): Total 0.610 acres onsite Sketch: include north arrow, rebalonshib with other surface waters, vecelation zones, etc.	Please refer to site wetlands and water resources map. W-10: 0.101 acres onsite	W-11: 0.510 acres onsite	 	Continents, Narrative Discussion, Justification of Category Changes:	

### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "yurkiductional boundaries". For example, the scoring boundaries the other instances of middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring purposes, the hydrologic nearmost of the wetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland is the train criterion that should be used. Boundaries between configuouss or conceted wetlands boundaries, in other instances. Boundaries between configuous areas or betcogeneous complexes of whetland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the wetland and where the volume, flow, or velocity of water moving through the wetland changes significantly. Areas with a high degree of hydrologic interaction should be exceed as a right evaluat. In determining a wetland is scoring boundary for the wetland boing wited. These problem situations include wetlands that are configuous in the ORAM Manual Section 5.0. In certain instances, it may be difficult to establish the scoring boundary for the wetland boing rated. These problem situations include wetlands that are configuous interaction should be accord as a right evaluation include wetlands that are configuous interaction stated. These problem situations include wetlands that form a patchwork on the landscape, wetland boing rated. These problem situations include wetlands in the continguous with arteficial boundaries like properiy fences, nads, or rational enhaltonics, wetlands that are contiguous and the area of rivers, and estuarine or costal wetlands. These situations are discussed below, however, it is recommended that Rater coace Oldon EAP, Division of Surface Water, 401/Wetlands Section if there are additional questions or a need for fur

*	Staps in properly establishing scoring boundaries	done?	not applicable
Step 1	I identify the wetland anea of inferest. This may be the sile of a proposed impact, a reference sile, conservation site, etc.	×	
Step 2	I dentify the locations where there is physical evidence that hydralogy changes reliably. Such evidence includes both reutal and furman- induced changes including, constractions caused by berns or dises, points where significant inflows cozur at the confluence of thes, points where significant inflows cozur at the confluence of thes, points where significant inflows occur at the confluence of thes, or ather factors that may restrict hydrologio interaction between the welfands or parts of a shigh welfand.	×	 
5 days	Delineate the boundary of the welland to be rated such that all areas of interant are conclosues to and which the areas where the hydrology does not change significanity. (i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, railroad embankments, etc., are present. Three should not be used to establish scoring boundaries unless they coincide with areas where the hydrokogic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score together wetlands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundared or wetlands that form a patchwork on the landscape, childed by attificial boundaries, configuous to streams, lakes or pivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services Request to the Ohio Department of Natural Resources, Divisions of Natural Acreas and Preserves, Natural Hieriage Data Services, 1889 Foundatin Square Court, Building F-1, Columbus, Ohio 4324, 614-265 453 (phoue), 614-265-4956 (fax), http://www.dhr.satte.ohu.sd(ang). The treatming questions are designed to be answered primarily by the results of the site visit. Refer to the User's Manual for descriptions of these welland types. Note: "Critical habitat" is logally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an areal and many require special management considerations or protection. The Rater should contact the Region 3 Headquarters or the Columbus Edological Services Office for updates as to whether critical habitat has been designated for other federally listed threatened or endangered species, "Documented" means the wetland is listed in the appropriate State of Obio database.

		(
100	YES	
		)
been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Question 2
-	evaluated for possible Caterrory 3 statute	
	anima a fundame	
had critical habitat designated (50 CFR 17.95(a)) and the piping plover that had critical habitat proceed (65 EP ±1312) (inv. 8, 2000).	Go to Question 2	1
l <u>e</u>	YES	
an Individual of, or documented occurrences of federal or state-fisted	information of the state	
_	welland, 3 welland,	
_	Go to Question 3	(
Documented High Quality Wetland. is the wetland on record in Natural Haritane Database as a Mort musity workend?	YES	ON
_	Wetland is a Category 3 wetland	Go to Question 4
	Go to Question 4	(
-	YES	(ON)
commun occaringnee regionary signingary to earling or nonorearing waterfow, neotropical sorgbird, or shorabird concentration areas? V	Wettand is a Category 3 wettand	Go to Question 5
<u> </u>	Go to Ouestion 5	(
acre)	YES	(ON)
	Welland is a Category	Go to Question 6
	1 wetland	
-	Go to Question 6	C
Bogs. Is the wedland a peat-accumulating wetland that 1) has no sionificant inflows or outflows 2) supports activity more set	YES	ON
30%	Wetland is a Category	Go to Question 7
cover, 4) at least one species from Table 1 is present, and 5) the 3 cover of Invasive species (see Table 1) is <25%?	wetland	
_	Go to Question 7	(
Ter	YES	(NO
_	Wettand is a Category	Go to Question &a
and with one or more plant species listed in Table 1 and the cover of 1 is invasive species listed in Table 1 is <25%?	3 welland	
	Go to Question Ba	
e ;;;	YES	<u>)</u>
overstory caropy trees of great age (exceeding at least 50% of a protected maximum attainable age for a sciencies). With or we extend	Wetland is a Category 3 wetland.	Go ta Question 8b
-		
 ~	Go to Question 8b	
canopy trees interspersed with canopy gaps; and significant numbers of standing dead snags and downed logs?	siedmun	

		i	Ċ
48 8	Mature forested wetlands, is the wetland a forested wetland with 50% or more of the cover of unner forest cencory consisting of	YES	ON ON
	<ul> <li>decidious trees with large (smears at breast height (dbh), generally diameters greater than 45cm (17.7m) dbh?</li> </ul>	Wetland should be evaluated for possible Calegory 3 status.	Go to Question 9a
		Go to Question 9a	(
ş	Lake Erie coastal and tributary wellands. Is the welland located at an elevation tess than 575 feet on the USGS map, adjacent to this	YES	
	elevation, or along a tributary to Lake Erle that is accessible to fish?	Go to Question 9b	Go to Cluestion 10
æ	Dess the wolland's hydrology result from measures designed to prevent eccelors and the loss of aqualic paths, i.e. the wolland is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrobogical controls?	YES Welland should be evelvated for possible Category 3 status	NO Go to Question 9c
Ì		Go to Question 10	
36	Are larse Eine water evolus the velland's primary hydrological influence. Le, the welland is hydrologically unsel/inded (no lakeward or valland border allevations), for the wolland can be charactedrad as an "estuartine "welland with lake and river influenced hydrology. These include statber deposition wellands, estudiante waters, river mouth wellands, or those dominated by submared at autobar wellands.	YES Go to Question 9d	ND Go to Question 10
æ	Does the welland have a predominance of halfve species within its versition rommunities although non-name or distrumence thereof	YES	ON
	rative species can also be present?	Wetland is a Category 3 wetland	Go to Question Se
		Go to Question 10	
<b>a</b>	Dese the welland have a predomizance of non-nalive or disturbance tokerant nalive plant species within its vegelation communities?	YES Wetland should be evaluated for possible Category 3 status	NO Ge to Question 10
		Go to Question 10	(
ę	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be Anarcharked by the following description: the wetland has a sandy tubersek with intercensed or manic marker a weak follow within tubersek with intercensed or manic marker a weak follow.	YES Wetland is a Category 3 wetland	Go to Question 11
	serieral incluse of the surface, and often with a dominance of the gramineous regelation ratial of ratial of theory spectra of the pressurt. The Chick Department of Hatural Resources Division of Natural Yeas and Presence can provide assistance in confirming this prove of vacineous and sources.	Go to Question 11	(
ŧ	Relict Wet Prairies. Is the wetland a relict wet prairie community domination by common or all of the conditions in Takin 1. Extension prairies	YES	ON
	) were formerly located in the Darby Plains (Madison and Union Committee, Sandhistor Plains (Waaroort, Crewford, and Marion	Wetland should be evaluated for possible	Complete Ourantitative
	Courtles), northwest Ohio (e.g. Erle, Huron, Lucas, Wood Counties),	Category 3 status	Rating
	and pounts of western only counties (e.g. Oans, merce), main, Montgomery, Van Wert etc.).	Complete Quantitative Rating	

Table 1. Characteristic plant species.	c plant species.				2016	
Invasive/exotic spp	fan species	bog species	<b>Dak Opening species</b>	wet prairie species		_
Lythrum solicaria	Zygadenus elegans var. glaucus	Calla palustris	Carex cryptolepis	Calamagrostis canadensis	0	Matric 1 Watland Area (s
Myrtophyllum spicatum	Cacalia plantaginea	Cares atlantics var. capillaces	Carex lasiocarpo	Calamograstis stricta	4	
Najas nunor	Carex flava	Cares echinata	Carex stricta	Carex alterodes	max 6 pts. subtotal	Select one size class and assign score.
Pholaris arundinacea	Carex sterilis	Cares oligosperma	Cladium mariscoldes	Corex busbaumli		>50 acres (>20.2ha) (6 pls)
Phragmites australis	Carex stricta	Cares trisperma	Calamagrostis spicta	Carex pellita		25 to <50 acres (10.1 to <20.2ha) (5
Polamogeton crispus	Deschamusia caespitosa	Chamaedaphne calyculata	Calamagrostis canadensis	Carex sartwellii		10 to <25 acres (4 to <10.1 ha) (4 o
Ranwoulus ficaria	Eleocharis rostellata	Decodon verticiliatus	Quercus palustris	Genslana andrewsii		3 lo <10 &rres (1.2 lo <4 ha) (3 ots)
Rhammus franguia	Eriophorum viridicarinatum	Eriophorum virginicum	•	Helianthus grosseeeratus		0 3 hr 2 3 more (012 ln 51 2 hr) (0 r
Typha angustifolia	Gentianopsis spp.	Larix laricina		Liatris sploata		
Typha xglauca	Lobelia kalmil	Nemoponthus mucronatus		Lysimachia quadriflora		
	Pamassia glouca	Schechzeria palustris		Lythrum alatum		
	Potentilla fraticosa	Sphagnum spp.		Pycnanthemum virginianum	_	
	Rhammus ainifolia	Vaccinium macrocarpon		Silphium terebirthinaceum		metric 2. Upland putters
	Rhynchospora capilizoea	Vaccinium corymburum		Sorghastrum nutaris	max 14 pls. subbda	2a. Calculate average buffer width. Select only
	Salix candida	Vaccinium oxycoccas		Sparting pectinata		WIDE. Buffers average 50m (1641
	Salix myricoldes	Woodwordia virginica		Solidago riddellii		MEDIUM. Buffars average 25m to
	Salte seriesima	Xyrtis difformis		1		NARROW Ruffers average 10m to
	Solidago ohioensis					
	Tofieldia glutinosa					2h httenthof sumucine land use. Select on
	Triglochin maritimum					T T VERY I'V and monthly or older for
	Triglochin palustre		i     			
						LOW. Old held (>10 years), smubil
						MODERATELY HIGH, Residential,
	End of Narrative Ratin	End of Narrative Rating. Begin Quantitative Rating on next page.	ating on next page.			1 HIGH. Urban, Industrial, open pasti
					19.5 29.5	19.5   Z9.5  Metric 3. Hydrology.
					max 30 ats. subtated	whiteled 3a. Sources of Walar. Score all that sooth.

1.5.0 Field Form Quantitative Redung South Field Energy Internom
2         2         Metric 1. Wetland Area (size).           mare pix         senses         Select one size class and uselyn score.
8         10         Metric 2. Upland buffers and surrounding land use.           mail 4 pla.         2.4. Colorlan everyeo form value assign score. Jo not double theck.           mail 4 pla.         AMDE Buffers average Sim (54.8) or more around valued permeater.(1)           C         WURDE Buffers average Sim (54.8) or more around valued permeater.(1)           A         WURDE Muthers average Sim (52.8) or control and saring score. Jo not double theck.           A         WURDE Muthers average Sim (52.8) or control valued permeater.(1)           C         MURDEM. Buffers average Sim (52.8) around valued permeater.(1)           2.5. Triabally or arrounding land to score (22.8) around valued permeater.(1)           2.6. Triabally or arrounding land to score (10.6) control related permeater.(1)           2.6. Triabally or arrounding land to score (10.6) control related permeater.(1)           2.6. Triabally or arrounding land to code for score, parket, stream sk, walden zes, 46 (7)           COM.         2.6 for take (10.9) score) shrubiter, jourge scored permit, stream sk, walden zes, 46 (7)           F. T         Hildt. Usch. valuether, now corespond permetar.(1)           T         T         Hildt. Usch. valuether, now corespond permetar.(1)
र्ड हैंद्र हैं।
13     42.5     Metric 4. Habitat Alteration and Development.       mar 2064. weekad     4a. Substrate distribution. Score over or doutly chose and average.       Bacoronia (3)     Reacoronia (3)       Abreaction (4)     (4)       Abreaction (2)     Reacoronia (3)       Abreaction (2)     Reacoronia (13)       Abreaction (2)     Reacoronia (13)       Abreaction (2)     Reacoronia (13)       Abreaction (2)     Reacoronia (13)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (2)       Abreaction (2)     Reaction (3)       Abreaction (2)     Reaction (3)       Abreaction (2)     Reaction (3)       Abreaction (3)     Reaction (4)       Abreaction (4)     Reaction (4)       Abreaction (5)     Reaction (4)       Abreaction (5)     Reaction (4)       Abreaction (5)     Reaction (5)       Abreaction (6)     Reaction (6)       Abreaction (6)     Reaction (6)
None or not. some opperant (9)

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tast revised 1 February 2001 Jm

**ORAM Summary Worksheet** 

Metric 5. Spocial Vectants           Concent and says are not an enderic.           Concent and says are not an enderic.           Concent and says are not an enderic.           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)           Exp (1)
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

		circle answer or	
		insert score	Result
Narrative Rating 0	Question 1 Critical Habitat	VES NO	If yes, Calegory 3.
	Question 2. Threatened or Endangered Snacies	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
<u>a</u>	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
<u>la</u> –	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
la Ta	Question 6. Bogs	YES NO	If yes, Category 3.
<u>a</u>	Question 7. Fans	YES NO	If yes, Category 3,
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
<u>a</u>	Question 8b. Mature Forested Wetland		If yes, evalvate for Category 3; may also be 1 or 2.
<u> 9</u> 2	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
لم م	Question 9d. Lake Erie Wetlands ~ Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
<u>a</u>	Question 10, Oak Openings	YES NO	If yes, Category 3
la	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative M Rating	Metric 1. Size	2	
L	Metric 2. Buffers and surrounding land use	ø	
≥	Metric 3. Hydrology	19.5	
_≥	Metric 4. Habitat	13	
<u>₩</u>	Metric 5. Special Wetland Communities	0	
≥ <u>E</u>	Metric 6. Plant communities, interspersion, microtopography	5	
F	TOTAL SCORE	47.5	Category based on score breakpoints 2

13

Complete Wetland Categorization Worksheet.

Evaluation of Categorization Result of ORAM Is quantifiable reing acore lass bein the Category 2 scoring category of the weltard, using the arrative clangapy 2 scoring category of the weltard, using the arrative clangap of a sessense to obtain LAC. Rule 3745-1-54(1) and blocgical and/or functional actegorized by the ORAM. The wettard using the marative reing are been over- categorized by the ORAM. Take 3745-1-54(1) and blocgical and/or functional assessments is determined in the welland tas been over- categorized by the ORAM. Take 3745-1-54(1) and blocgical and/or functional assessments is determined and and taken welland of these, it strutuid be category and and/or turned on the exist of the welland is a season of welland of these it strutuids and and/or functional assessments is of determine if the welland is welland for the welland using the marative criteria in OAC. Rule 3745-1-54(1) and blocgical and/or turned ontal assessments to determine if the welland is and/or turned and a set and/or turned and a set and/or turned and a set assigned to the and/or take of the welland a should be array fits be scored the welland a should be array fits a particular category of the welland a should be array fits are array by the ortilogory based on the array fits are array to a categorized and the the array fits are array to a categorized and with the scoring array fits array is a particular category the welland a should be array fits of a carray of the welland a should be array fits array is a strutuid as assessment, the array fits array is a strutuid to the higher array fits array is a strutuid as assessment, the array array array is a strutuid to the higher function to arrow a seasessment, the day array for the work category the array is a dore array fit array be undercategorized using this method, but further welland mary is a degraficant or as a array array is and and a strutuid and the array is a function because of the strutuid category based on the array for the more arrow area area of the strutuid of the array fu	Circle one YES YES YES Vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is vettand Is
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Wetland Categorization Worksheet

End of Ohio Rapid Assessment Method for Wetlands.

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#### tackground Information

Name: ( avra Covra	
Tate outcomments	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: LSayre@EnviroScienceInc.com	
Name of Wetland: W-12	
Vegetation Communit(les): PEM	
HGM Class(ee): Depressional	
Location of Wetland: include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
bordinate	-80.717561
USOS Quad Name	West Point
County	Columbiana
Township	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
Skia Visit	04/30/2015
National Wedland Inventory Map	×
Chilo Wetland Inventory Map	
Soli Survey	×
Delineation report/map	×
	-

44

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	es onsite	er surrace waters, vegetation zones, etc. vater resources map.		Catingory Changes:	Category: 1
Name of Wetland: W-12	Wetland Size (acres, hectares): 0.012 acres onsite	search: include notion arrow, readonsing with other surface, waters, vegeation zones, etc. Please refer to site wetlands and water resources map.		Commants, Narrative Discussion, Justification of Category Changes:	Final score : 29.5

#### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "functional boundaries." For example, the scoring boundary of an ionlated cattali marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring purposes, the hold be as a scalar determined. Wetlands that are small or isolated from ober surface waters often form large contiguous areas or heterogeneous complexes of wetland upland. In separating wetlands for scoring purposes, the hydrobgic regime of the wetland is har and in the the wold and set waters of the wetland is a high *degree of hydrobgic interaction should* be scored as a single wetland. In determining a wetland is the main criterion that should be used. Mannal Section 50. In certain instances with a high *degree of hydrobgic interaction should* be scored as a single wetland. In determining a wetland is the scoring boundary for the wetland being rated. These problem site property fences, posls, or rational moutanics, use the guidelines in the ORAM Mannal Section 50. In certain instances wetlands, that form a pathwork on the landscape, wetlands divided by artificial boundary fences, posls, or rational moutanes, wetlands divided by artificial boundaries like property fences, pads, or rational moutanes, wetlands divided by artean jakes or rivers, and estarrine or coastal wellands. These stitutions are discussed below, however, it is recommended that Rater contact olds the appropriate scoring boundaries of a particular welland, questions or a need for further clarification of the appropriate scoring boundaries of a particular welland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the welland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where here is physical evidence that hydrology dentify the locations where here is physical evidence that hydrology induced changes including, constitutions coused by herms of deas, photis where the weak vociby changes rapidly at the points where photis where significant inflows occur at the continence of points where significant inflows occur at the continence of the factors that may restrict hydrologic interaction between the welfands or parts of a single welfand.	×	
Step 3	Delineate the boundary of the waland to be raied such that all areas of interest that are conjouse to and with the areas where the hydrology does not change significantly, i.e. areas that have a high users of hydrologic theradion are included within the soching boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roads, regiread embankments, etc., are present. These strougd roc be used to establish scoring boundaries unless they coincide with areas where the hydrobogic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scaring boundaries discussed there to score together weldands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring buoindarias for weitands that torm a parchwork on the landscape, alwood by artificial boundaries, configuous to streams, lakes or rivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fountain Square Court, Building Fr1, Columbus, Ohio 43234, (1+265-4545) (ftax), http://www.dnr.stlate.ohio.gov.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.stlate.ohio.gnr.

	Question	Circle one	
-	<ul> <li>Critical Habitat To the welland in a township section or subsection of</li> </ul>	VEC	
-	a United States Geological Survey 7.5 minute Quadrange that has	31	<u>)</u>
	been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Cuestion 2
	Note: as of January 1. 2001. of the federally listed endemonent of	evaluated for possible Category 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has		
	had critical habitat designated (50 CFR 17.95(a)) and the piping plover has had critical habitat proposed (65 FR 41812 July 6, 2000).	Go to Question 2	(
~	Threatened or Endangered Species. Is the welland known to contain on individual of or downood of province of technol or should be	YES	(ON)
	threatened or endangered plant or animal species?	Wetland is a Category	Go to Question 3
		3 wetland.	
	Description of the Area Havilled and the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contr	Go to Orlestion 3	
÷	) uccumented man varianty rectand. Is the weuend on record in Natural Hentisge Database as a high quality welland?	YES	<u>)</u>
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	(
4	Significant Breeding or Concentration Area. Does the welland	YES	(ON)
	waterform, re-out optical sought'd, or shorebird concentration areas?	Welland is a Category	Go to Question 5
		o weatin	
ŀ			
	Category 1 Wethands. Is the wethand less than 0.5 hectares (1 acre) is size and hydrologically isolated and either 1) comprised of	YES	2
	vegetation that is dominated (greater than eighty per cent areal cover) thy Phyleds annoingroed. J Whom setreds or Phrammaes anotatis or	Wettand is a Category 1 wettand	Go to Question 6
	2) an acklic pond created or excavated on mined lands that has little or		
		Go to Question 6	
	Bogs. Is the weltand a peat-accumulating weltand that 1) has no stantificant infinue or nutflower 2) supports actionability modes.	YES	ON
	particularly Sphagnum spor, 3) the acidophilic mosses have >30%	Wetland is a Category	Go to Guestion 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wettand	
		Go to Question 7	(
2	Fens. Is the welfand a carbon accumulating (peat, muck) welfand that is estimated during accept of the user estimation by a classical of the	YES	(or)
	f a securation during most of any year, particulty of a usual and the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the factor of the fa	Wettand is a Category	Go to Question 8a
	and with one or more plant species listed in Table 1 and the cover of i invasive species listed in Table 1 is <25%?	3 wetland	
		Go to Question 8a	-
83	"Old Growth Forest" is the weitland a forested weitland and is the forest characterized by but not ilmited to the following characteristics"	YES	2
	overstory canopy trees of great age (exceeding at least 50% of a	Wetland is a Category	Go to Cuestion 8b
	projected maximum attainable age for a species); little or no evidence of human-caused undersion disturbance during the past 80 to 100	3 wetland.	_
	years; an all-aged structure and multilayered canoples; aggregations of	Go to Question 8b	
	of standing deed snaps and downed logs?		

କ୍ଷ	Maturia forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	2
	deciduous trees with large diamelers at breast height (dbh), generally diameters greater than 45cm (17.7m) dbh?	Wettend should be evaluated for possible Category 3 status.	Go to Question Sa
		Go to Question 9a	(
8	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	2
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
8	Does the wetland's hydrology result from measures designed to prevent erosion and the loss of aquatic plants, i.e. the wetland is	YES	ON
	partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wettand should be evaluated for possible	Go to Question Sc
_		Category 5 status	
9	Are I also Erie under leviels the verificand's rotation huminorinal infinence	VES.	
	the tens care mater reverse the would be presented in the providence intrudence.		
	border allerations), or the welland can be ensized/state as an estuarine welland with take and ther influenced rhytrology. These include sandber deposition wetlends, estuarine wetlands, ivier mouth	Go to Question 9d	Go to Guestion 10
	wettands, or those dominated by submersed aquatic vegetation.		
8	Does the wetland have a predominance of native species within its vecetation communities atthough non-native or disturbance Interant	YES	ON
	native species can also be present?	Wetland is a Calegory 3 wetland	Go to Question 9e
		Ga to Question 10	
5	Does the welfand have a predominance of non-native or disturbance	YES	NO
	tolerant native plant species within its vegetation communities?	Wettand should be evaluated for roresting	Go to Question 10
		Category 3 status	
		Go to Question 10	0
ę	Lake Plain Sand Prairies (Oak Openings) Is the wetland located in Lucas, Fulton, Henry, or Wood Counties and can the wetland be	YES	Ð
	characterized by the following description: the wetland has a sandy substrate with interspersed organic matter, a water table often within	Wettand is a Category 3 wetland.	Go to Question 11
	several increas or one sumace, allo orient wurt a dominiance or trie gramineous vegetation listed in Table 1 (woody species may also be	Go to Question 11	
	present). The Ohio Department of Natural Resources Division of Natural Resources to Civision of Natural Areas and Presentes can provide assistance in confineire this trune for weitand and its rutality.	_	(
F	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	
	were formerly located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marton Counties) porthwest Ohio (a o Fria Harron Luces, Wood Counties)	evaluated for possible Cateword status	Cuantitative Rating
	and portions of western Chio Counties (e.g. Darke, Mercer, Mismu, Montenner, Vian Arch 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Complete Orignitizative	8 
		Rating	

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 Tobb 1. Characteristic plant species
 Description
 Out Opening species
 Wet Nmith species

 Investigation
 Segments of species
 Out Opening species
 Wet Nmith species

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End of Narrative Rating. Begin Quantitative Rating on next page.

W-12	n Facility Rater(s): L.Sayre Date: 4/30/2015	Metric 1. Wetdand Area (size). Selection air class and sesign score. Selection air class and sesign score. State scores (41 to 4-10.1 ha) (4pd) (10 to 4-5 score (12 to 4 ha) (5 pd) (1 to 4-3 score (12 to 4 ha) (5 pd) (1 to 4-3 score (12 to 4 ha) (5 pd) (1 to 4-3 score (12 to 4 ha) (5 pd) (1 to 4-3 score (12 to 4 ha) (5 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (1 to 4-3 score (12 to 4 ha) (7 pd) (2 to 4 ha) (7 to 4 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 pd) (1 to 4-3 score (12 to 4 ha) (1 to 4-3 score (12 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4 ha) (1 to 4-3 to 4-3 to 4-3 to 4 ha) (1 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-3 to 4-	a. 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**ORAM Summary Worksheet** 

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High Quality Natural Wetland YES (NO Significant blird habitat YES (NO Category 1 Wetlands YES (NO Fens Old Growth Forest VFES (NO Mature Forested Wetland YES (NO Uake Erie Wetlands - YES (NO Uake Erie Wetlands - YES (NO Uake Erie Wetlands - YES (NO With native plants With native plants Oak Openings YES (NO Relict Wet Prainfes YES (NO Relict Wetland communities fres and surrounding tand use 5 diology 10 bitat Oak Communities, interspersion, 3 with communities, interspersion, 3 with communities interspersion, 3	High Quality Natural Wetland YES (NO Significant bird habitat YES (NO Category 1 Wetlands YES (NO Bogs YES (NO Mature Forested Wetland YES (NO Mature Forested Wetland YES (NO Lake Erie Wetlands - YES (NO Lake Erie Wetlands - YES (NO Unit nature Plants - YES (NO Relict Wet Pranfes YES (NO Relict Wet Pranfes - YES (NO Relict Wet Pranfes - YES (NO Boat Openings YES (NO Relict Wet Pranfes - YES (NO Bitat 10.5 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO Bitat Communities 0 (NO B	answer or insert score Question 1 Orticel Habitat	If yes, Category 3.	-	Question 2. Threatened or Endangered Species
Threatened or Endangered YES (NO High Quality Natural Wetland YES (NO Significant bird habitat YES (NO Category 1 Wetlands YES (NO Eens Fens Mature Forested Wetland YES (NO Mature Forested Wetland YES (NO Lake Erie Wetlands - YES (NO ULake Erie Wetlands - YES (NO ULake Erie Wetlands - YES (NO ULake Erie Wetlands - YES (NO ULake Erie Wetlands - YES (NO Mature Prantes YES (NO Relict Wetlands - YES (NO Mature Prantes YES (NO Bitat 10.5 Mature 5 Gat Openings (NO Relict Wetland Communities, interspersion, 3 Mature Communities, interspersion, 3 Mature Communities, interspersion, 3 Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communities (No Mature Communit	Threatened or Endangered YES (NO High Quality Natural Wetland YES (NO Significant bird habitat YES (NO Category 1 Wetlands YES (NO Eeres Old Growth Forest YES (NO Mature Forested Wetland YES (NO Uato Erie Wetlands - YES (NO Uato Erie Wetlands - YES (NO With nature Jants Uate Erie Wetlands - YES (NO With nature Jants Uate Erie Wetlands - YES (NO Mature Prairies YES (NO Relict Wet Prairies YES (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO Bilat 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (NO BILAT 10.5 (	answer or insert score	If yes, Category 3.	-	Question 1 Critical Habitat
Question 1 Critical Habitat     YES (NO)       Question 2. Threattened or Endangered     YES (NO)       Question 3. High Quality Natural Wedland     YES (NO)       Question 5. Experiment or Endangered     YES (NO)       Question 5. Category 1 Wetlands     YES (NO)       Question 6. Bogs     YES (NO)       Question 6. Bogs     YES (NO)       Question 6. Bogs     YES (NO)       Question 8. Duestion 6. Bogs     YES (NO)       Question 8. Duestion 8. Mature Forested Wetland     YES (NO)       Question 8. Mature Forested Wetland     YES (NO)       Question 8. Lake Erie Wetlands -     YES (NO)       Question 9. Lake Erie Wetlands -     YES (NO)       Question 9. Lake Erie Wetlands -     YES (NO)       Question 9. Lake Erie Wetlands -     YES (NO)       Question 9. Lake Erie Wetlands -     YES (NO)       Question 10. Oak Openings     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 31. Relict Wetfand use     5       Metric 1. Size     10.5       Metric 2. Buffers and surrounding land use     5       Metric 4. Habitat     10.5       Metric 5. Special Wetfand Communities, interspection, 3	Question 1 Critical Habitat     YES (NO)       Question 2. Threattened or Endangered     YES (NO)       Question 3. High Quality Natural Wedland     YES (NO)       Question 5. Category 1 Wateral Wedland     YES (NO)       Question 5. Category 1 Wateral Wedland     YES (NO)       Question 6. Bogs     YES (NO)       Question 6. Bogs     YES (NO)       Question 8. Mature Forested Wetland     YES (NO)       Question 8b. Mature Forested Wetland     YES (NO)       Question 8b. Lake Erie Wetlands -     YES (NO)       Question 9b. Lake Erie Wetlands -     YES (NO)       Question 9b. Lake Erie Wetlands -     YES (NO)       Question 9b. Lake Erie Wetlands -     YES (NO)       Question 9b. Lake Erie Wetlands -     YES (NO)       Question 9b. Lake Erie Wetlands -     YES (NO)       Question 10. Oak Openings     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Question 11. Relict Wet Prairies     YES (NO)       Metric 1. Size     1       Metric 2. Buffers and surrounding land use     5       Metric 5. Special Wetland Communities     1	-		score	
Significant bird Habitat     Score       Threatened or Endangered     YES       High Quality Natural Wetland     YES       Significant bird habitat     YES       Category 1 Wetlands     YES       Bogs     YES       Category 1 Wetlands     YES       Bogs     YES       Category 1 Wetlands     YES       Bogs     YES       Cold Growth Foxest     YES       Mature Forested Wetland     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Mature Forested Wetlands     YES       Matur	Guestion 1. Critical Habitat     YES     NO       Question 2. Threatened or Endangered     YES     NO       Question 3. High Quality Natural Wetland     YES     NO       Question 6. Lastoprov 1 Wetlands     YES     NO       Question 6. Bogs     Vetlands     YES     NO       Question 6. Lake Erie Wetlands     YES     NO       Question 8. Dogs     Question 8. Old Growth Forest     YES     NO       Question 8. Dogs     Undestion 8. Dogs     YES     NO       Question 8. Dogs     Question 8. Dogs     YES     NO       Question 8. Dogs     Question 8. Lake Erie Wetlands -     YES     NO       Question 9. Lake Erie Wetlands -     YES     NO       Question 9. Lake Erie Wetlands -     YES     NO       Question 10. Oak Openings     Question 11. Relict Wetlands -     YES     NO       Question 11. Relict Wet Prairies     YES     NO       Question 11. Relict Wet Prairies     YES     NO       Question 11. Relict Wet Prairies     YES     NO       Metric 1. Size     Metric 2. Buffers and surrounding land use     5       Metric 5. Special Wetland     Metric 6. Special Wetland Communities     0		Result	insert	
Aussition 1 Critical Habitat     Score       Question 2. Threatoned or Endangered     YES       Question 3. High Quality Natural Wetland     YES       Question 3. High Quality Natural     YES       Question 4. Significant bird habitat     YES       Question 5. Category 1 Wetlands     YES       Question 6. Bogs     YES       Question 8. Lake Erie Wetland     YES       Question 8. Lake Erie Wetlands     YES       Question 8. Lake Erie Wetlands     YES       Question 8. Lake Erie Wetlands     YES       Question 8. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 8. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 9. Lake Erie Wetlands     YES       Question 10. Oak Openings     YES       Question 11. RelictWet Prantes     YES       Question 12. Size     YES       Metric 2. Buffers and surrounding tand use     5       Metric 3. Habitat     10 <t< td=""><td>Ausetion 1     Critical Habitat     Score       Ausetion 1     Critical Habitat     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 4     Significant blid habitat     YES     NO       Ausetion 5     Category 1 Wetlands     YES     NO       Ausetion 6     Bogs     YES     NO       Ausetion 8     Mature Forested Wetland     YES     NO       Ausetion 8b     Lake Erie Wetlands     YES     NO       Ausetion 9b     Lake Erie Wetlands     YES     NO       Ausetion 9b     Lake Erie Wetlands     YES     NO       Ausetion 10.     Oak Openings     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 12.     Oak Openings     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 12.     Oak Openings     YES     NO       Ausetion 13.     Category 1.     YES     NO       Ausetion 14.     Category 1.     YES     NO<!--</td--><td></td><td>:</td><td>answer or</td><td></td></td></t<>	Ausetion 1     Critical Habitat     Score       Ausetion 1     Critical Habitat     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 3     High Quality Natural Wedland     YES     NO       Ausetion 4     Significant blid habitat     YES     NO       Ausetion 5     Category 1 Wetlands     YES     NO       Ausetion 6     Bogs     YES     NO       Ausetion 8     Mature Forested Wetland     YES     NO       Ausetion 8b     Lake Erie Wetlands     YES     NO       Ausetion 9b     Lake Erie Wetlands     YES     NO       Ausetion 9b     Lake Erie Wetlands     YES     NO       Ausetion 10.     Oak Openings     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 12.     Oak Openings     YES     NO       Ausetion 11.     Category 1.     YES     NO       Ausetion 12.     Oak Openings     YES     NO       Ausetion 13.     Category 1.     YES     NO       Ausetion 14.     Category 1.     YES     NO </td <td></td> <td>:</td> <td>answer or</td> <td></td>		:	answer or	

Complete Wetland Categorization Worksheet.

Choices	Circle one		Evaluation of Categorization Result of ORAM	     
Did vou answer "Yas" to anv	VES	No.	is minimitative ration come loss than the Calendry 2 scoring	Name: Laura Savre
of the following questions:		$\mathbf{D}$	threshold (excluding gray zone)? If yes, reevaluate the	Defo: o tracto ta
Narrative Rating Nos. 2, 3,	vveuerro is categorized as a		category of the wettand using the narrative categorie at OAC Rule 3745-1-54(C) and biological and/or functional	umm. 04/30/2015
4, 6, 7, 8a, 9d, 10	Category 3 wetland		assessments to determine if the wetland has been over- referenciaed hurths ODAM	Affiliation:
Did you answer "Yes" to any	YES		Evaluate the wetland using the 1) narrative criteria in OAC	
of the following questions:		)	Rule 3745-1-54(C) and 2) the quantitative rating score. If	Address: 5070 Stow Road, S
Narrative Rating Nos. 1, 8b,	evaluated for		ure weuarid is determined to be a Category 3 weuarid using either of these, it should be categorized as a Category 3	
9b, 9e, 11	possible Category		weiland. Detailed blotogical and/or functional assessments	Prove Number 330-688-0111
Did you answer "Yes" to	YES	[₽	ling also be been to up the material we can grade the second sty. I have be been so the second store and the second store are the beloon 2	e-mall address:
	:	)	scoring threshold (including any gray zone)? If yes,	Leayre@Envir
Narrauve Rating No. 5	Wettand is		reevaluate the category of the wettand using the narrative other is in OAC Dute 2746.1.54201 and Moholical and/or	Name of Wetland Wetland
	Category 1 wetland		functional assessments to determine if the wetland has	
			been under-categorized by the ORAM	Vegetation Communit(les): DEA
Does the quantitative score	(YES)	Q	If the score of the weltand is located within the scoring	
nai wunin una suxunu auge na Cataooor 1 2 or 3	Walland is		r range for a parocular category, the wegarin should be sectored to that reference to all instances bounder. The	HGM Class(es): Riverine
weitand?	assigned to the		essigned to that category. In all mistalices notes to the source of the nametric category in an internative cuttants described in OAC Rule 3745-1-54(C) can	
	appropriate		be used to clarify or change a calegorization based on a	Location of Wetland: Include map, addr
	~		quantitative score.	Diases refer to site methands
Does the quantitative score	VES VES		Rater has the option of assigning the welfand to the higher	
fall with the "gray zone" for		)	of the two categories or to assign a category based on the	
Category 1 or 2 or Category	Wetand is		results of a nonrapid wetland assessment method, e.g.	
	binher of the two		Tuncuonai assessment, picrogicai assessment, ato, ano a consideration of the paratitie oritheds in OAC nule 3746-1-	_
	categories or			
	assigned to a			
	category based on detailed	_		
	assessments and			
_	the narrative			
Does the wetland otherwise	Ch(Brta YES		A welland may be underrotenoothed vision this method. Dut	
exhibit moderate OR superior		)	still exhibit one or more superior functions, e.g. a welland's	
hydrologic OR habitat, OR	Welland was	Welland is	biotic communities may be degraded by human activities.	
fecteational functions AND	Undercategorized	assigned to	but the wettand may still extribit superior flydrologic fundions howings of its time featuress method size forei	
cateoorized as a Catedory 2	written institication	determined	rurcuons pecavos of no type, lanoscapy posicor, arze, incor or recional significance, etc. In this circumstance, the	
wedand (in the case of	for recategorization	by the	namative criteria in OAC Rule 3745-1-54(C)(2) and (3) are	
moderate functions) or a	should be proviced	ORAM.	controlling, and the under-categorization should be	I attend or UTM Coordinate
Category 3 wetland (in the case of superior functions) by	on Background		corrected. A written justification with supporting feasons or Information for this determinetion should be privided	
this method?				USGS Quad Name
		]		County
				Township
ļ		Final Ca		
Choose one	ne Category 1	h	Category 2 Category 3	Section and Subsection
				1. Sectoria   Ind Parts

Wetland Categorization Worksheet

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End of Ohio Rapid Assessment Method for Wetlands.

#### Background Information

_ I	
Name: Laura Sayre	
Date: 04/30/2015	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number: 330-688-0111	
e-mail address: LSayre@EnviroScienceInc.com	
Name of Wetland: W-13	
Vegetation Communit(les): PEM	
HGM Class(es): Riverine	
Location of Wetland: Include map, address, north arrow, fandmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
40.643861,	-80.717147
USES Quad Name	West Point
County	Columbiana
Township	Yellow Creek
Section and Subsection	
Hydrologic Unit Code	#05030101
Sile Vsit	04/30/2015
National Wetand Inventory Map	×
Ohio Wetland Inventory Map	
Soll Survey	×
Delineation reportintize	×

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	Isite	Tesources map.	ory Changes:	( )
Name of Wetland: VV-13	Wetland Sta (acres, heddrea): 0, 192 acres onsite Stetch: Include noth array, readination with other surface writes, weedation zones, etc.	Please refer to site wetlands and water resources map.	Comments, Marrative Discussion, Justification of Category Changes:	

### Scoring Boundary Worksheet

INSTRUCTIONS: The initial step in completing the ORAM is to identify the "scoring boundarics" of the welland being rated. In many instances this determination will be relatively easy and the scoring boundaries will concide with the "furisdictional boundaries." For example, the scoring boundary of an isolated ratali matsh located in the middle of a farm fide will likely the the same as that welland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface ways of the fine many areas or heterogenous complexes of welland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the welland is the main criterion that should be used. Boundaries between configuous areas or heterogenous complexes of welland and upland. In separating wetlands for scoring purposes, the hydrologic regime of the welland side draw or wellow of wetlands for scoring purposes, the hydrologic regime of the welland is device the volume, flow, or velocity of water moving through the welfand. In determining a wethen is storing boundaries, use the guidelines in the ORAM Manal Section S0. In certain instances, in may be difficult to establish the scoring boundary for the welland boing rated. These problem situations include welfands, that form a batchwork on the lands doing rated. These problem situations include welfands that form a patchwork on the lands doing rated. These problem situations forces, reads, we rainova established where due of bolow, however, it is recommended that faster contact those properiy fences, reads, we can and a boundary for ease and questions or a need for further clarification of Surface Water, 401/Weilands Socion if there are additional questions or a need for further clarification of the appropriate scoring boundaries for a particular duestion of a particular to an particular scoring boundary for a particular duestion.

#	Steps in property establishing scoring boundaries	done?	not applicable
Step 1	Tidentify the weltand area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	   
Step 2	Identify the locations where there is physical avidence that hydrology changes registy. Such advector bricked so bricknam and human- induced changes including, constrictions caused by berms or dises, points where site water velocity changes realidy at rapids or fails, points where significant inflows occur at the confluence of rivers, or other factors that may result dynologic interaction between the wellands or parts of a single welland.	×	
Step 3	Defined the boundery of the wetlend to be rated such that all areas of interests where the hydroccycy does not orbange significantly. (a. areas that have a bigh degree of hydrologic tuteraction are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state fines, roads, railroad embankments, etc., are present. These should not be used to establish scorting boundaines unless they colincide with areas where the trydrologic regime changes.	×	
Step 5	In all instances, the fiziter may entarge the millimum scoring boundaries discussed here to score together wetlands that could be scored separately.		×
Step 5	Consult ORAM Manual Section 5.0 for how to establish scoring boundaries for wellands that form a patchwork on the landscape, divided by antificial boundaries, configuous to streams, lakes or rivers, or for dual dassifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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rative R
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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources. Division of Natural Areas and Preserves, Natural Kreitage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43234, 442-655-453 (phone), 614-255-456 (par), futural Kreitage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43234, 442-655-453 (phone), 614-255-456 (par), futural Kreitage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43234, 442-65-453 (phone), 614-255-456 (par), futural Kreitage Data Services, 1889 for site visit. Refer to the User's Manual for descriptions of these welland types. Note: "Critical habitat" is legally defined in the Endangened Species Ast and is the geographic are constinuing physical or biological features essentiat to the conservation of listed species or as an are that may require special management considerations or the conservation of the store should contact the Regensi Heatmay require special management considerations or the considerations or the considerations or updates as to whether critical habitat has been designated for other federally listed throatened or endangered species. "Documented" means the wetland is listed in the appropriate State of Obio database.

#	Question	Circle one	
- -	Critical Habitat. Is the wolland in a township, section, or subsection of a United States Geological Survey 3. Ta minu do cucaragie that has been designated by the U.S. Fish and Walding Service as "thrical Habitat" for any threatened or endangened plant or antimal species? Note: as of January 1, 2001, of the federally listed endangened or threatened pedicise which can be found in Orio, the minare abet had optical habitat designated by OCFS 17 SS(31) and the pixon down beat official habitat designated by OCFS 17 SS(31) and the pixon down beat official habitat designated by OCFS 17 SS(31) and the pixon down	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
2	Thes had critical habitat proposed (15 FR 14)12 July 6, 2000). Threatmend or Endwarped Specifies. It's he weighted frown to contain an indrividual of, or documented occurrences of facteral or state-listed threatened or endangered plant or animal species?	YES Webland is a Category 3 webland.	(NO Go to Question 3
3	Decumented High Quality Weiland. Is the weiserd on record in Natural Heritage Dalabase as a high quality welland?	Go to Question 3 YES Wetland is a Category 3 wetland	Go to Question 4
4	Significant Breating or Concentration Area. Does the welland contain documented regionaly significant treating or nontreating waterfowl, neotropical songbird, or shorebird concentration areas?	YES Vietland is a Category 3 wetland Gn to Dussition 5	Go to Question 5
s S	Category 1 Wetlands. Is the wetland less than 0.5 hecknes (1 acro) In size and hydrologically lositival and alther 11 yorkises di vegetalion that is dominated (greater than eighty per cent area cover) by Phalaris anundracea, Lythum satizenta, or fringmates eutsifis, or by Phalaris anundracea, Lythum satizenta, or fringmates eutsifis, or 2) an action point greated or excavated on mined ranks that has fible or no veolation?	YES Welland is a Category 1 weitland Go to Question 6	RO Go to Question 6
œ	Bogs. Is the weitand a peet-accumulating weltand that () has no spiniteant indows or outpoints, 2) suppose adophills masses, patioularly Synagrum spin, 3) the actioophile mosees have >20% cover, 4) at least one species from Table 1 is present, and 5) the over of invasive species (see Table 1) is <25%?	YES Wettand is a Category 3 wetland Go to Question 7	Go to Question 7
	Fens. Is the welfand a cartoon accumulating (peat, muck) welfand that the searched oving most of the year, primarith by a decination of the flowing, mineral rich, ground welfar with a chroninedural ph (5-5-9.0) and with one or more plart species listed in Table 1 and the cover of hivesive species listed in Table 1 is ~23%?	YES Wetland is a Category 3 wetland Go to Question Ba	Go to Question 8a
a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	•Old Geowith Fernet." Is the welfand in Corseido welfand and & the lootest characterized by but for limited to the following characteristics: coversity cancery these of great agg (exposeding at least, SO% of a projection transform attable age for a species; life for no ordering of human-caused understoy distintatives during two past, 80 th years; an it apped stundars and multiayeed canopies; argregations of canopy these interspected with cancery gaps; and dignificant numbers of standing dead smaps and downed log5?	YES Wettand is a Category 3 wettand. Go to Question 8b	60 to Question &

as as	Mature forested wetlands. Is the weliand a forested wetland with 50% or more of the cover of upper forest canopy consisting of	YES	- M
	deciduous foess with large diameters at treast haloni (don), generally diameters greater than 45cm (17.7m) dbh?	Wettand should be evaluated for possible Category 3 status.	Go lo Question Sa
		Go to Question 9a	C
86 86	Lake Erie coastal and tributary wetlands. Is the wetland located at an elevation leas than 575 react on the USCS map, adjacent to this elevation, or advort a tributary to Lake Erie that is accessible to fish?	YES Go to Question 9b	NO Go to Question 10
8	Does the weltand's hydrology result from measures designed to prevent onsolve and the loss of aqualis plants, i.e. the weltand is partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	YES Wettand should be evaluated for possible	NO Ge to Question 9c
_		Go to Question 10	
ş	Are Lake Erie water levels the welland's primary hydrological influence, to the method is humbooredic unrested of foo laborated or unland	YES	NO
	These are prevented as information of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second processor of the second proce	Go to Question 9d	Go to Question 10
56	Does the wetland have a predominance of native species within its	YES	NO
	vegalation communities, autough non-mative or disturbance tolerant native species can also be present?	Wetland is a Category 3 wetland	Go to Question 9a
		Go to Question 10	
\$	Does the wettand have a predominance of non-native or disturbance tolerant native plant species within its vegetation communities?	L VES	ON
		Welland should be evaluated for possible Category 3 status	Go ta Questian 10
		Go to Question 10	(
10	Lake Ptain Sand Praidee (Dak Openings) is the weiland located in Lucas, Fribin, Henry, or Noco Countes and can the weiland be characterized by the following description: the welland has a sandy substrate with interspersed organic matter, a weler table often within	YES Wetland is a Category 3 wetland.	Go to Question 11
	sevelat increases of the surfaces, and onter wing a commande or the gramineous vegatation listed in Table 1 (woody species may size be present). The Ohlo Department of Natural Resources Division of Natural Aves and Presense can provide assistance in confirming this type of wetland and is quality.	Go to Question 11	(
Ŧ	Relict Wat Prairies. Is the wettand a relict wat prairie community	YES	ON
<u> </u>	oomraado up goorte or un or vice sportuses at ador 1. Experimentary promes Destruction of the Darby Plains (Madison and Union Counties), Bandusky Plains (Wyardot, Grawford, and Martón Counties), northwest Chilo (e.g. Erie, Huron, Lucas, Wood Countles),	Wetland should be evaluated for possible Category 3 status	Complete Guantitative Rating
	and portions of western Chilo Countiles (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Complete Quantitative Rating	

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 Table 1. Characteristic plant apocles.
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 Wet Prairie Spacies

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End of Narrative Rating. Begin Quantitative Rating on next page.

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Habitat After more conserved (a)       more constrained at a submer (b) when a cross agreent (b)     a. Submer (b)       a submer (b)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a submer (c)     a submer (c)       a su

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last revised 1 February 2001 jm

**ORAM Summary Worksheet** 

L.Sayre Date: 4/30/2015					ed hydrology (10)	nydrology (5)		endanceré disectés (10)	(eg or usage (10)	by# Rating (-10)	6. Plant communities, interspersion, microtopography.	Vegatation Community Cover Scale	0 Automatic of comparisons out that (1.24 / 1 acres) comparisons area [Present and either comprises stimal] part of wetland's vecteration and is	1 of moderate quality, or comprises a significent part but is of low quality	Present and either comprises significant part of weitands, vegletaken 2 and is of moderate quality, or comprises a small part and is of high	quality. Descend and commission stanificant set as more of uniformite	rrasonin and compress seguraçãos parte or vince, or moutros vegetation and is of high quality.	Narrichten Description of Veestation Quality	Low spb diversity and/or predominance of normative or disturbance		nout name applies continuent composers, or no vegetation, annough hormathe and/or distributes telerant neithe app can also be present and the second second second second second second second second second second second second second second second	aria spouses curensiny movements or microsterry ingri, but gerra any wo presence of rare, threatened, or enclangered spo	high A predominance of native species, with nonnative spp and/or distinctance reasons and shown or violations are high	top diversity and other built of always, the presence of rate, treatened on a cickinament suc	Mudikitand Open Water Cleas Quality	0 Absort 40.1ha (0.247 acres)	1 Low 0.1 to <1ha (0.247 to 2.47 acres)	- Moderate 1 to -441a (2.4/ to 9.66 acres)	v Cover Scale	0 Absent	T	Present in very small amounts or if more common of marginal quality	2 Present in moderate arrounts, but not of highest quality or in small amounts of highest quality.		3 Present in moderate or greater arrounts and of highest quality	
ORMM v. 6.0 Fried Form Quantitutive Railing Sitte:	42 woom fine poor 0 4.0 Metric 5. Storial Wetlands	Fen (10)	Old growth forest (10)	Mature forested welland (5)	Lake Erie cosstat/rifoutary wetand -unresurcted hydrology (10)	Lake Erle costat/influtary weiland-restricted hydrology (5)	Lake Plain Sand Prairies (Oak Openings) (10)	realica wet r/raives (10) Krowin occurrence state/indensi threatened or endancered sce-dos (10)	Significant migratory songbirdwater towit habited or usage (10)	Category 1 Wetland. See Question 1 Chalitative Rating (-10)	5 47 Metric 6. Plant communities, in	pts. ubbtal 6a. Welland		2 Emergent	0 Starte	Forest		0th Horizonia (hain yiew) (hier scendor) N	-	High (5)	Moodenatory high (4)	Moderate (2)	1 Low (1)	None (I) Sc. Conserver of Invasive Anter to	r list. Add or	dectuct points for coverage.	Extensive >75% cover (-5)		Month afternet 45% muter (0)		6d. Mikinotopography.	Score all present using 0 to 3 scale.	0         Vegelaled hummucks/ussucks           2         Coases woork detries 15cm (8(h)	T	Γ-	47 GRAND TOTAL (max 100 nfs)

If actes app 227 to 2.47 acres) 227 to 2.47 acres) 2.47 to 2.68 acres) a anounts of more common of marginal quality a mounts, but not of highest quality or in small quality to greater amounts and of highest quality or to greater amounts and of highest quality

		circle answer or	
		insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Snecles	YES (U)	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES CO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland		If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	-	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands - Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Umestricted with invasive plants		If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	7	
,	Metric 2. Buffers and surrounding land use	8	
	Matric 3. Hydrology	16	
	Metric 4. Habitat	16	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	5	
	TOTAL SCORE	47	Category based on score breakpoints Category 2

¥1.

Complete Wetland Categorization Worksheet.

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Yellow Creek

Columbiana

West Point

...

40.643601, -80.71642

04/30/2015

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Ohlo Wetland Inventory Map

Delineation report/map Soil Survey

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× ×

#05030101

Wetland Categorization Worksheet

End of Ohio Rapid Assessment Method for Wetlands.

		s, vegetation zones, etc. CeS map.			Category: 2
Name of Wetland: W-14	Wetland Ske (acres, hectares): 0.002 acres onsite	Sketch: Include north arrow, relationship with other surface waters, vegetation Please refer to site wetlands and water resources map.		Comments, Narrative Discussion, Justification of Category Changes:	Final score: 48

### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the "burisdivitional boundaries". For example, the storing boundaries in aiolated drait markin housdoring middle of a farm field will likely be the same as that wetland's jurisdicional boundaries. In other instances, however, the scoring boundaries will not be a scalify determined. Wettaads that are small or isolated from other surface waters often form large contiguous areas or heterogeneous complexes of vertiand and uplicad, in separating wetlands for scoring purposes, the hytologic regime of the wetland is the main criterion that should be used. Boundaries between contiguous areas or heterogeneous complexes of vertiand and uplicad, in separating water moving through the wetland. In determining a wetland is the main criterion that should be used. Manual Section 5.0. In certain instances, it may be ufficult to establish the scoring boundary for the wetland being mated. These problem futures include with an farm and accounds boundary for the wetland being rated. These property farces, roads, or railroad an a patchwork on the handscape, wetland debing artificial boundaries like property farces, or railroad and and to a single descrete bounds. These problem situations of the storing boundary for the wetland being rated. These property farces, and starting an a patchwork on the landscape, wetland a being artificial boundaries like property farces, or railroad or a patchwork on the landscape, wetland being artificial boundaries like property farces, or and, or railroad articular start are configuous with artificial boundaries like arter contact of the start are configuous with artificial boundaries like are contact of the start of the start are additional questions or a need for further clarification of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	1 dentify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrotopy changes readed. Such we have use a service a barbare and human- induced changes including, consultations caused by thems calleds, points where algoriticant inflows cocur at the confluence of inflat, points where algoriticant inflows cocur at the confluence of inflat, points where algoriticant inflows cocur at the confluence of inves, or other factors that may restrict hydrotopic interaction between the wellands or parts of a single welland.	×	
Step 3	Delineate the boundary of the welland to be rated such that all areas of hiterestift are conjouse to and which the users where the hydrology does not change significanity, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, roasts, retroad enteankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrogic regime changes.	×	
Step 5	In all instances, the Rater may enable the minimum scoring boundaries discussed here to score together wellands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring to bundarias for welfands that form a patchwork on the landscape, divided by artificial bundaries, configuous to streams, lakes or rivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

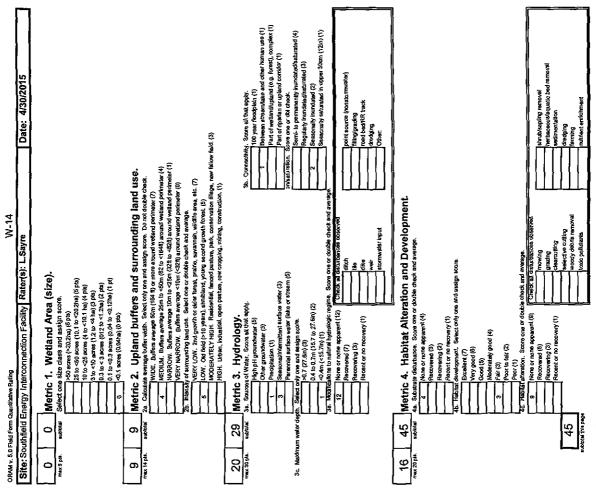
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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature *and* by submitting a Data Services Request to the Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Natural Heritage Data Services, 1889 Fourthin Square Court. Building F-1, Columbus, Ohio 42224, 1942, 1264, 2654, 4627, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014, 2014,

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	Critical Habitat. Is the welland in a township, section, or subsection of	YES	
	been designated by the U.S. Fish and Wildlife Service as "childraft	Wetland should be	Go to Question 2
	habitat" for any threatened or endangered plant or animal species? Note: as of January 1, 2001, of the federally listed endangered or	evaluated for possible Category 3 status	
	threatened species which can be found in Ohio, the Indiana Bat has		
	had chucai naonta( designated (50 UFK 11.35(a)) and the piping ployer has had critical habitat proposed (65 FR 41812 July 6, 2000).	Go to Question 2	(
N	Threatened or Endangered Species. Is the welland known to contain an Individual of. or documented occurrences of federal or state-fisted	YES	<u>)</u>
	threatened or endangered plant or animal species?	Wetland is a Category 3 wetland	Go to Question 3
		Go to Question 3	(
E)	Documented High Quality Wettand. Is the wetland on record in Natural Heritone Patebase as a black music watered?	YES	ON
	נגו האיז האיז הקר האיני האיז אין איני אין איני אין איני אין איני אין איני אין איני אין איני אין איני אין איני	Wettand is a Category 3 wettand	Go to Question 4
		Go to Question 4	(
*	Significant Breeding or Concentration Area. Does the weltand contain docremented rectorally stratificant branding or contraction	YES	ON
	within eventuation regionary again and a round of round and the second strain areas?	Wettand is a Category 3 wettand	Go to Question 5
6	Category 1 Wetlands. Is the wetland less than 0.5 hectares (1 acre)	VES	NON
	in size and hydrologically isolated and either 1) comprised of		
	vegetation utal is durinated (greater tran eighty per cent areal cover) by Phalen's anundinaces, Lythrum seăcarie, or Phragmaes australis, or	werand is a calegory 1 weband	
	2) an acidic pond created or excavated on mined lands that has fittle or		
Ţ	no vegetation?	Go to Question 6	
•	Bogs. Is the wetland a peat-accumulating wetland that 1) has no sionificant inflows or outfinws. 2) supports actionalitic masses	YES	<u>)</u>
	particularly Sphegnum spp., 3) the acidophilic mosses have >30%	Wetland is a Category	Go to Question 7
	cover, 4) at least one species from Table 1 is present, and 5) the cover of Invasive species (see Table 1) is <25%?	3 wethand	
		Go to Question 7	(
7	Fens. Is the wetland a carbon accimulating (peat, muck) wetland that is saturated during most of the year, primarily by a dischame of fee	YES	9
	flowing, mineral rich, ground water with a circumneutral ph (5.6-9.0)	Wetland is a Category	Go to Question &a
	and with one or more plant speckes listed in iable 1 and the cover of invasive species listed in Table 1 is <25%?	3 welfand	
		Go to Question 8a	
8	"Old Growth Forest." Is the welfand a forested welfand and is the forest characterized by, but not familed to, the following characteristics:	YES	2 2
	overstory carropy trees of great age (exceeding at least 50% of a projected maximum attainable age for a species); tittle or no evidence	Wetland is a Category 3 wetland.	Go to Question 30
_	of human-caused understory disturbance during the past 80 to 100 vears: an all-aged structure and multitavened canopies: accretositions of	Go to Question 8b	
	carropy trees interspersed with canopy gaps; and significant numbers		

Amount or constant welfand, with more a flowated with and with S0% or more of the cover of upper forest canopy consisting the addictuous trease with large diameters at broad and consisting addictuous trease with large diameters at broad the diameters greater train 45cm (17.7m) dbh? Live Erie constant and tributary wellands. Is the welland fore prevent enciron tasks than 45cm (17.7m) dbh? Live Erie constant and tributary wellands. Is the welland fore greation, or any attributary wellands. Is the welland fore the section and the loss of aquatic plants, las measure desired on the prevent enciron and the loss of aquatic plants, las measures desired on the prevent enciron and the loss of aquatic plants, las measures desired on the prevent enciron and the loss of aquatic plants, las measures desired on the prevent enciron and the loss of aquatic plants, las measures desired on the law settlands hydrotogically restricted from Lass frant Lask Erie weater formet from measures designed to bodde at learer toor and the structure of the mode of the too to takened or prevent enciron. The weater of encirol of the bodde at learer form the weater of an be characterized as a measures and the structure of the and the mode in the bodde at learer body. The set of a tructure of the structures are drafter dentiher and as a measures encircle. The weater of the mouth weater and a structures of the authree of mouth weater and a structures of the submereed aquatic vegotation. Weater device and the submereed of authreesed aduatic structure of the structures of those of dominated by submereed aquatic vegotation. Weater how weater and the submereed aduatic structures within its vegotation communities a structure mouth weater weater weater weater of the structures and the submereed and the structures and the measures and the structures and the mouth weater the weater of the submereed and the constructures as and the structures and the mouth and the structures and the structure the structures and the mou	YES Weeken should be evaluated for possible carebory 3 status. Go to Question 9a YES Co to Question 9b Wetland for possible Catogory 3 status Cato to Question 10 YES Co to Question 9d YES	NO Go to Question & NO Go to Question 90 Go to Question 90 Go to Question 10
(I) large discributes at treast i height (tabh), generally tran discri (17.7m) dibh? and tributary weilands. Is the weland localed at lar 575 set on the USSS may, adjacent to this a through to Luke Equilatile accessible to fish? a through to Luke Equilatile accessible to fish? at the local of aqualic planes, I.a. the welland is abyroloogy result from masures designed to byroloogy result from masures designed to the hydrology result from masures designed to byroloogy result from masures designed to byroloogy result from masures designed to the hydrological controls? A the local of aqualic planes, I.a. the welland is provide acriment memored in the neuron of the hydrological controls? A the under a drive interneed from these of the wellands, new mouth dominated by authonosed equality, new dominated by authonosed equals.	weekaar should be weeklusted for possible carebory 3 status. Go to Question 9a YES Co to Question 9b YES Calogory 3 status Calogory 3 status Calogory 3 status Calogory 3 status Calogory 3 status Calogory 3 status Calogory 3 status Calo Question 9d YES	Go to Question 3A NO Go to Question 90 NO Go to Question 92 Go to Question 92
and tributary weilands. Is the weland focaled at the 575 feet on the USGS may, adjacent to this at flotopy result from makunes designed to ad the loss of aqualic plants, Lis, the welland is ad the loss of aqualic plants, Lis, the welland is ad the loss of aqualic plants, Lis, the welland is playreshtod from Last field use to lateward or other hydrobogical controls? A other hydrobogical controls? A other and here and wellands, new address and mer mane field use to lateward or other hydrobogical controls? A other and here and wellands, new address and mer mane adjacts, new downland can be characterized as a other and here and mer more adjactorized as a for the welland can be characterized as a differentiated by authonored aqualic, were much dominated by authonored aqualic, were much is as a placominated or adjactorized as within its lister a place and mer of states to wellands, new there are an an an and and a places.	Co to Question 3a YES Go to Question 9b YES Go to Question 9b availuated for possible Galagory 3 status Go to Question 9d Go to Question 9d YES	NO Go to Question 10 NO NO NO Go to Question 92 Go to Question 10
and stributer wellands. Is the welland focaled at the 57 seven on the USCS map, adjacent to this a tyrotogry test if though a socsessible to fish? I though the USCS map, adjacent to this a tyrotogry sevent from makeures adjacent to this ally restricted man. Lake Ente due to lakeward or due house of aqualito plants, i.e. the welland is ally restricted from Lake Ente due to lakeward or other hydrological controls? I of the welland can be characterized as an of whole and the characterized as an of the mediand can be characterized as a differentiated and be characterized as an of the welland can be characterized as a differentiated by submersed Squaleto. Dorito wellands, estharthe wellands, river mouth is a performance of nucles within its histes, atthrough normative or distribution.	YES Co to Question 9b YES wetland for possible wetland for possible Catogory 3 status Cato to Question 3d VES Co to Question 3d YES	NO Go to Question 10 NO NO Go to Question 92 Go to Question 10
It introduces the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint of the constraint o	YES A cureston of Welfand should be welfueled for possible Calugory 3 status Go to Question 30 Go to Question 30 Go to Question 30 YES	NO Go to Question Sc NO Go to Question 10 Go to Question 10
s ryotony result non-measures around a fibro loss of aquato panels. In the welland is ally restricted from Lake Erie due to lakeward or other hydrobogical controls? and the hydrobogical controls? terferels fire welland a primary hydrobogical influence, in the welland is a dynological controls? to the welland can be characterized as an other and be characterized as a dynological y unsettided (no lakeward or upland is of the welland at and new transmary hydrobogy. These operators wetlands, estuartine wellands, five mouth consistence of native species within its histoge, although yourseard aquative or dynological, settiartine wellands. The mouth consistence of native species within its histoge, although yourseard aquative or distribution.	res Wetland should be Wetland for possible Catogory 3 status Go to Question 10 YES Go to Question 9d YES	NO Go to Question & NO Go to Question 10
I fervals file welland's primary hydrological influenca, hydrologically writestriated (no lakeward or upland a for the welland can for antaraterized as an d with lake and meet influenced hydrology. These a position wellands, estharthe wellands, new mouth tormised by subtranesed aquate wegatalston. I of a podomination of native species with its invises, attivough normative or distribution biologicant.	Go to Question 10 YES Go to Question 9d YES	NO Go to Question 10
re frenis its welfands of primary hydrogograf infuence. hydrologically warestrided (no lakeward or upland to file welfand ran by charachtrade as an of with latent and mydrial interanced hydrogy. These prosition wettands, estuarthe welfands, river for commended by submensed aguate within its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or distribution its have a predominative or di	YES Go to Question 9d YES	NO Ga lo Question 10
häve a predominarice of native species within its Indies, although non-native or disturbance tolerant	YES	
		ON
nalive species can also be present?	Welland is a Category 3 wetland	Go to Question 9e
	Go to Question 10	
Does the welland have a predominance of non-malive or disturbance tolerant native plant species within its vegetation communities?	YES Wettand should be	NO Go to Question 10
	evaluated for possible Category 3 status	
	Go to Question 10	0
Lake Plain Sand Pratites (Oak Opening) is the welland located in Lucas, Fullon, Henry or Wood Counties and can the welland be characterized by the following description: the welland has a strong substrate with interspresses of granic matter, a water label offen within several inchese of the stretcos, and when whyn environment of the	YES Wetland is a Category 3 wetland.	Go to Question 11
gramineous vegetation Isted in Table 1 (woody species may also be present). The Ohio Department of Natural Resources Division of kubural Areas and Presence can provide assistance in confirming this two of weitand and at quality.	Go to Question 11	(
Relict Wet Prairies. Is the wetland a relict wet prairie community dominated by some or all of the species in Table 1. Extension oralities	YES	<u>0</u> 2
were formenty located in the Darby Pfains (Madison and Union Countles), Sandusky Plains (Wyandot, Crawford, and Marion	Welland should be evaluated for possible	Complete Quantitative
Counties), rorthwest Ohio (e.g. Erie, Huron, Lucas, Wood Counties), and portions of western Ohio Counties (e.g. Darke, Mercer, Miami,	Category 3 status	Rating
Wert elc.).	Complete Quantitative Rating	
226560598988888		

Table 1. Charactoristic plant species.	ic plant species.				ORAM v. 5.0 Field Form Quantitative Rating Site: Southfield Energy Intercu	VA.V. 5. 0 Field From Quantitative Reting Sifte: Southfield Energy Interconnection Facility Rater(s): L.Sayre
Invasive/exotic spp	fen species	bog species	<b>Oak Opening species</b>	wet prairie species		
Lythrum salicaria	Zygadenus elegans var. glaucus	Calia palustris	Carex cryptolepis	Calamagrostis canadensis		Metric 1. Wetland Area (Size).
Myriophyllum spicatum	Cacalia plantaginea	Carex attantica var. capitlacea	Carex lastocarpa	Calamogrostis stricta	,	
Najas minor	Carex Jiana	Carex echinata	Carex stricta	Carex atherodes	max 5 pts. suchotal	
Phatans anunancea	Carex sterils	Cares oilgosperma	Cladium mansopides	Carex Duzbaumu		
Phragmises australis	Carex stricta	Care: Insperma	Calamagrostis stricta	Carex pellita		25 to <50 acres (10,1 to <20.2na) (5 pts)
Potamogeton Crispus Pomurciue licaria	Deschampsia caespilora	Chandedaphne calyculate Deceder weekstlaste	Calamagrastis canadensis Organis polyettis	Carex surfwellt		10 to <25 acres (4 to <10.1 ha) (4 pls)
Rhamur framula	Eriotherus resents Frietherus siridicariantum	Princhant Versionand	Summer burners	new array much and the state		
Typha aneustifolia	Gentlanoocis sno.	Larix laricina		Lietris spiceto		
Typha xglauca	Lobelia kalmii	Nemopanthus mucronatus		Lysimachia quadriflora		
:	Parnassia glauca	Schechzeria palustris		Lythman alotum		
	Potentilla fruticosa	Sphagnum spp.		Pycnanthemum virginiarum	c	and the function of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	Rhamutus alnifolia	Vaccinium macrocarpon		Silphium terebinkhinaceum		metric z. Upland purrers and surrounding land u
	Rhynchospora capillacea	Vaccinium corymbosum		Sorghastrum mutans	max 14 pls. subblet	2a. Calculate average buffer vidth. Select only one and assign acore. Do not double che
	Saltr candida	Vaccintum oxycoceos		Spanina pectinata	-	WIDE. Buffers average 50m (164 ft) or more around wetland perimeter (7)
	Salix myricoides	Woodwardia virginica		Solidago riddellii		4 WEDIUM. Buffers average 25m to <50m (82 to <164ft) around webland perim
	Salix seriesima	Xyris difformis				NARROW. Buffers average 10m to <25m (32ft to <62ft) around welland perir
	Solidago ohioensis				<b>A</b>	VERY NARROW, Buffers average <10rr (<22ft) around wettand perimeter (0
	Tofieldia glutinosa				<b>.</b>	2h. historik of summing indicate. Select one or double check and average.
	Triglochin maritmum					UFRY I OW 2nd results of electric desires and the second wildling area allo
	Triglochin palustre	     	; ; ;		-4	T
						5 LOW. Old held (>10 years), shruciarid, young second grown rorest. (5)
				-		MODERATELY HIGH. Readenual, tendod pasture, park, conservation tillage
	End of Narrative Rating.	ing. Begin Quantitative Rating on next page.	sting on next page.			HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)
					90 00	Metric 3 Hudrology
					3	
					mex 30 pls. autholial 3	3a. Sources of Water, Score at that apply,
						Hdubh PH Brounowater (a)
						1 Precipitation (1)
						3 Seasonal/Intermittent surface water (3)
					-	Perennial surface water (lake or stream (5)
					3c. Maximum water depti	3c. Maxdmum water depth. Select only one and assign score.



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lest ravised 1 February 2001 Jm

**ORAM Summary Worksheet** 

A         Cuestion 1 Critical Habitat         YES           Question 2. Threatened of Endangered         YES           Question 3. High Quality Natural Wetland         YES           Question 3. High Quality Natural Wetland         YES           Question 5. High Quality Natural Wetland         YES           Question 5. High Quality Natural Wetland         YES           Question 6. Sogs         Y Wetlands         YES           Question 7. Fens         YES         YES           Question 8. Old Growth Forestod Wetland         YES         YES           Question 8. Mature Forestod Wetlands -         YES         YES           Question 90. Lake Erie Wetlands -         YES         YES           Question 90. Lake Erie Wetlands -         YES         YES           Question 90. Lake Erie Wetlands -         YES         YES           Question 10. Oak Openings         YES         YES           Question 11. Relict Wet Prairies         YES         YES           Metric 1. Size         Metric 3. Hubitios         YES           Metric 2. Builers and surrounding land use         Metric 4. Habitat         YES	Insert         Rest           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, Catagori           NO         If yes, catagori           NO         If yes, eatilitie           NO         If yes, eatilitie           NO         If yes, eatilitie           NO         If yes, eatilitie           NO         If yes, eatilitie           NO         If yes, eatilitie
Meuro o. Special wegeng communities Metric 6. Plant communities, interspersion, microtoportachy	3 0 <b>5</b> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
TOTAL SCORE	48 breakpoints

tosent or comprase 30, 11a (U.247) acros) contiguous area Present and ether comprases ameli part of welland's vegetation and is of modorate quality, or comprases a significant part but is of low quality Present and other comprises significant part of wedgend's wegestion and to of modernis quality, or comprises a small part and is of high quality. Present and comprises significant part, or more, of wedgends respectation and is of high quality. tive spp are dominant component, of the wegestion, stithough matthe and/or disturbance tokrant native spp can also be present id species diversity moderate to moderately high, but generally wio Present in very small amounts or if more common of marginal quality ຕະດັດການສຳລັດລ of fruithio ສຸດສະໄສອ, with noi.rauthio ສະກຸລ ສາດປະ ມນ້ອຍແດະ ໃນອາສາດ ແລະອີນອາ ຊຽວ ອີນອອກ for virtuality ລັນອອກ1, and ນິຍູງກ ເດີ້າຄະສາຊັ່ງ ລາວ ເດີ້າຄາ, ມີນາ fand always, the presence of rae, Present in moderate amounts, but not of highest quality or in amail amounts of highest quality Nerative Description of Vogetarion Quality Low app forbarry and/or predominance of norvisitive or destribunce for Present in moderate or greater amounts and of highest quality serve of rare, threatened, or endangened spp Date: 4/30/2015 Low 0.1 to < tha (0.247 to 2.47 ecces) Moderate 1 to <4ha (2.47 to 9.88 ecces) se Quality absent <0.1ha (0.247 acres) High 4ha (9.88 acres) or more Metric 6. Plant communities, interspersion, microtopography. Ahsent Vegatetion Community Cover Scale ficrotopography Cover Scale Known occurrence state/federal (breatened or endangered species (10) Hudflat and Open Water -Lake Erie coastat/ritbutary welland -unrestricted hydrology (10) Significant migratory sourchirdwater fourthabitat or usage (10) 3 -Category 1 Wetland. See Question 1 Qualitative Rating (-10) 2 Ř, ц И ----2 ~ Lake Erie coasta//ributary wetiand-restricted hydroiogy (5) Site:Southfield Energy Interconnection Facility Rater(s): L.Sayre Lake Plain Sand Prairies (Oak Openings) (10) Metric 5. Special Wetlands. W-14 Coarse woody debris >15cm (8in) Standing dead >25cm (10in) dbh check all that apply and score as indicated. Vegelated hummucks/tussucks E.Coverage of invasive plants. Refer to Table 1 ORAM long form for Est. Add or deduct points for coverage. Nearly absent <5% cover (0) Moderate 25-75% cover (-3) Auture forested wetland (5) 48 GRAND TOTAL (max 100 pts) . Horizontal (plan view) Interspersion. Edensive >75% cover (-5) 6a. Wetland Vegetation Communities. Score at present using 0 to 3 scale. Amphibian breeding pools Sparse 5-25% cover (-1) 54. Microtopography. Score all present using 0 to 3 scale. 0 Vegelalad hummuckshus Relict Wet Prairies (10) Old growth forest (10) Aderately high (4) Vođenstely low (2) (3) toderate Aquatic bed Absent (1) Open Water Erriergent Bog (10) Fen (10) High (5) None (0) Mucfilats LOW (1) Corest Strub Р. ORAM v. 5.0 Fleid Form Quantitative Rating core only one. 0 0 0 45 btotal first <u>Page</u> <del>6</del> **48** 3 max 20 pts. NA UDIA 0

categories at the following address: http://epa.state.oh.us/dsw/401401.html Refer to the most recent ORAM score cathration report for the scoring breakpoints bahree σ

## Complete Wetland Categorization Worksheet.

-80.716099
West Point
Columbiana
Yellow Creek
#05030101
04/30/2015
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Wetland Categorization Worksheet

Chaices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer Yes to any of the telewine questions	YES		Is quantitative rating score /ess than the Category 2 scoring through (such after some score)? If use manakering the
Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	Wetand is categorized as a Category 3 wetland	)	<ul> <li>conservery executions yeary survey conservery conservery categoory of the welland using the narrative or foreign in OAC Rufe 3745-1-54(C) and biological and/or functional essessments to identifie if the welland has been over- clatanocized by the ORAM</li> </ul>
Did you answer "Yes" to any of the following questions:	YES	2	Evaluate the weitand using the 1) nametive orienta in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If
Narrative Rating Nos. 1, 8b, 9b, 9e, 11	Wetrand should be evaluated for possible Category 3 status	(	It the welland is determined to be a Category 3 welland using either of these, it should be categorized as a Category 3 welland. Detailed belogical and/or functional assessments rava aiso be used to determine the welland's category.
Did you answer "Yes" to Namalive Rating No. 5	YES Wettand is category 1 wetland	₽	Is quantificative rating score greater than the Categoor 2 scoring threatend (including any gays zone). If year reservations the categoory of the welfand using the manative cation in OAC Rule 3745-1-54(C) and biological and/or functionite assessments to the OAEM the welfand has been under-categoorset for the OAEM
Coes the quentitative score which the scoring range of a Caregory 1, 2, or 3 welland?	YES Wetland is assigned to the appropriate category based on the scorting range	ON (	If the score of the wetland is located with the scoring mange for a particular category, the wetland should be assigned to that reakyon, in all instances howeve, the matricer entities described in OAC fulls 3745-1-54(D) can be used to clarify or change a categorization based on a quantitative score.
Does the quertilerine score fail with the "gray zone" for Calegory 1 or 2 of Calegory 2 or 3 wellands? 2 or 3 wellands?	YES Wetland is assigned to the assigned to the categories or assigned to a category based on eatailed assistements and criteria	2 (	Facer has be option of activity of the ware of the higher of the two categories or to saking a category based on the results of a monicipid weltend assessment method, e.g. functional tessessment, biological assessment, e.g. and a consideration of the nangtive oriental in DAC mile 3745-1- 54(C).
Does the water of the moderate of superform whilk moderate of R superform hydrobaic OR habitat, OR creatainat introdons AVU the welland (an sing ensigning of the case of moderate functions) or a Casegory 3 welland (in the case of superfor functions) by this method?	YES Welland was underadegorized by this mathod. A witten insuffication for recategorization should be provided on background information Form	NO Wetland is assigned to category as determined by the ORAM.	A wealand may be underelegentrated using this method, but still eachibl ome or more superior functions, e.g., a weiland's holds communities may be obgraded by function activities. In the wealand may still a support "proficiogic functions because of its type, handscape position, star), loca functions because of its type, handscape position, star), loca functions because of its un bits circumstance, the another ordinate in OAC Rule 3745-154(C)(2) and (3) are contrading, and the under callegorization should be contrading. An of the under callegorization should be contrading and the under callegorization should be contrading and the under callegorization should be contrading to this delermination should be provided.

)

Final Category

Category

Choose one

End of Ohio Rapid Assessment Method for Wetlands.

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				1
		in zones, etc. I.		Category:
	Wettand Size (acres, hactares): 0.158 acres onsite	ixetch: Include north arrow, retationship with other surface waters, vegetation Please refer to site wetlands and water resources map.	gory Ctranges:	
	0.158 acres c	tionship with other su tlands and wate	Comments, Narrative Discussion, Justification of Catagory Changes:	
± ₩-15	res, hectares):	north arrow, rela er to site we	ative Discussion	: 23
Name of Wetland: W-15	Wetland Size (acres, hectares):	Sketch: Include Please refe	 Comments, Kar	Final score :

### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being ratiod. In many instances this determination will be relatively easy and the scoring boundaries will coincide with the 'jurisdictional boundaries." For example, the scoring boundary of an isolated chall marsh located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other surface waters often find will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring boundary will not be as easily determined. Wetlands that are small or isolated from other wetlands for scoring purposes, the hydrologic regime of the wetland is the main criterion that aloud be used. Boundaries between contiguous areas or betrogeneous complexes of widrologic interaction should wetland for a single wetland. In determining a with a high degree of hydrologic interaction should water moving through the wetland. In determining a with a high degree of hydrologic interaction should water moving through the wetland that form a patchwork on the landscape, wetland being tated. These problem stuations include what form a patchwork on the landscape, wetland being tated. These problem stuations include wetlands how or valors is setting to boundary for the wetland being tated. These or nivers, and estuarine or costal wetlands. These situations are discussed below, however, it is recommended that Rater comake Jonsion of Surface Water, 401.Wetlands Section fi there are additional questions or a need for further clainfibention of the appropriate scoring boundaries of a particular wetland.

#	Steps in properly establishing scoring boundaries	fone?	not applicable
Step 1	I dentify the wetland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology dranges reaction. Such and ensite fueloas both natural and human- induced changes including, constrictions caused by berns or dises, points where significant inflows cocur at the confluence of relis, points where significant inflows cocur at the confluence of relis, or other factors that may restrict hydrologic interaction between the wellands or parts of a single weitend.	×	
Step 3	Delineate the boundary of the welland to be rated such that all arreas of interest that are configuous to and which the users where the hydrology dees not change significanity. I.e. areas that have a high degree of hydrologic triereation are included within the scoring boundary.	×	
Step 4	Determine if artificial boundaries, such as property lines, state lines, troads, relinead embaintrents, etc., are present. These should not be used to setablish scoring, boundaries unless they coincide with areas where the hydrokogic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundaries discussed here to score ingether wetlands that could be scored separately.		×
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundaines for wellands that form a patchwork on the landscape, divided by artificial boundaines, configuous to streams, lakes or rivers, or for dual classifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the literature and by submitting a Data Services. Request to the Ohio Department Resources, Division of Narmal Kressources, Division of Narmal Kressources, Division of Narmal Areas and Preserves, Manual Heitage Data Services, 1889 Foundain Square Court, Building F-1, Columbus, Ohio 43234, 614-265-4545 (phone), 614-265-4506 (fax), http://www.dnr.state.ohugdngs.The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the Use's Manual for descriptions of these wetland types. Note: "Critical habitat" is legally defined in the Endangered Species Act and is the geographic area containing physical or biological features essential to the conservation of a listed species or as an area that may require species physical or biological features essential to the conservation of a listed species or as an event. The Real analogine species Species State and is the geographic area containing physical considerations or updates as to whether critical habitat has been designated for other foolemaly species Office for updates as to whether critical habitat has been designated for other foolemaly bristed or endangered species. The Read and the state of the appropriate State of Ohio bases.

		Uride one	(
-	Critical Habitat. Is the welland in a township, section, or subsection of	YES	
	a United States Geological Survey 7.5 minute Quadrangle that has	1	)
	been designated by the U.S. Fish and Wildlife Service as "critical	Wetland should be	Go to Question 2
	nabitati Toriany ungatened of endangered plant or animal species? Note as of leaving 4, 2004, of the followily listed and enderged or	evaluated tor possible Cetenory 3 statute	
	threatened snartise which can be found in Ohlo the Indiana Bat has	comple a locana	
	had official habitat designated (50 CFR 17.95(a)) and the plping plover	Go to Question 2	
	has had critical habitat proposed (65 FR 41812 July 6, 2000).		(
~	Threatened or Endangered Species. Is the wetland known to cortain	YES	(on)
	an indrawal of, of auguriantee outpurgrass of tegeral of second statements threatened or endenrooted dent or onimal encodes?	Walland is a Calannu	Go to Oriection 3
		3 wetland.	
		C	
3	Documented High Quality Wetland. Is the wetland on record in	YES	(ON
	Natural Heritage Database as e high quality welland?		)
		Wetland is a Category 3 wetland	Go to Question 4
		Go to Question 4	(
4	Significant Breeding or Concentration Area. Does the weltand	YES	
	contain documented regionally significant breading or nonbreading	Motional In a Catagory	
	waterrow, iteoropical surguiru, or storeditu concentration aleas ?	wettand is a category 3 wettand	
		Go to Question 5	(
5	Category 1 Wettands. Is the welland less than 0.5 hectares (1 acre)	YES	(ON)
	in size and nyurologically isolated and either 1) comprised of venetotion that is draminated <i>(meater then sinkly ner cent areal cover)</i>	Wetland is a Category	Go to Question 6
	by Phalaris annoinaces. Lythum selicaria, or Phraomites australis, or	1 wetland	
	2) an acidic pond created or excavated on mined lands that has little or		
	no vegetation?	Go to Question 6	
8	Bogs. Is the wetland a peat-accumulating wetland that 1) has no	YES	(DN
	signinicant intervis of outnows, ∠) supports actuophilic mosses, reaction/adv. Coheconom and 30 the contractilic mosses have >20%	Wattand is a Colonom	Go to Oriection 7
	cover, 4) at least one species from Table 1 is present, and 5) the	3 wotland	
	cover of invasive species (see Table 1) is <25%?	Co to O and - 2	
7	Fens. Is the wetland a carbon accumulating (peat, muck) wetland that	YES	(ON
	is saturated during most of the year, primarily by a discharge of free		)
	flowing, mineral rich, ground water with a circumneutral ph (5.5-9.0)	Wetland is a Category	Go to Question 8a
	<ul> <li>and with one or more plant species listed in Ladie 1 and the cover of invasive species [sted in Table 1 is &lt;25%?</li> </ul>	o welland	
		Go to Question Ba	(
88	"Old Growth Forest." Is the wettand a forested wetland and is the	YES	(on)
	forest characterized by, but not himited to, the following characteristics:	Mediand is a Colocola	
	oversity which we surgion age (account) at least or of a projected maximum attainable age for a species); attle or no evidence	3 welland.	
	of human-caused understory disturbance during the past 80 to 100		
	years; an all-aged structure and mutilayered canopies; aggregations of caroow trees intercorread with caroow name: and similicant numbers	Go to Question Bb	

			(
æ	Mature forested wetlands. Is the wetland a forested wetland with	YES	ON
	50% or more of the cover of upper toriest canopy consisting of deciduous trees with large diameters at breast height (doh), generally	Wettand should be	Go to Question 9a
	diameters greater wan 45cm (17.7m) don 7	evaluated tur possible Category 3 status.	
		Go to Question 9a	
9a	Lake Erle coastal and tributary wettands. Is the wetland located at an elevation less than 575 feet on the USGS map, adjacent to this	YES	2
	elevation, or along a tributary to Lake Erie that is accessible to fish?	Go to Question 9b	Go to Question 10
96 7	Does the weltand's hydrology result from measures designed to prevent emster and the loss of anisatic plants. Let the weltand is	YES	ON
	partially hydrologically restricted from Lake Friedrich of lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible	Go to Question 9c
		Category 3 status	
		Go to Question 10	
96	Are Lake Erie water levels the wettand's primary hydrological influence, i.e. the wettand is hydrologically unrestricted (no lakeward or upland	YES Go to Constitute Of	NO So to Overdian 10
	bortest attentions), or the weatand can be charactended as an "estuanie" wetland with lake and river influenced hydrokogy. These Include scardbar deposition weatands, extrantion wetlands, river mouth wetlands, car these doministed by summersed animite weakelisho.		
96	Does the wettand have a predominance of native species within its uncertained communities although occurations of distributions followed	YES	ON
	radive species can also be present?	Wetland is a Category 3 wetland	Go to Question 9e
		Go to Question 10	
8	Does the wetland have a predominance of non-native or disturbance trianant white marke within its vacatation communities?	YES	Q
	- serving inter interaction of the served straid entry we have	Wetland should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	(
10	Lake Plain Sand Prairies (Oak Openings) is the wetland located in Lucas. Fulton, Henry, or Wood Counties and can the wetland be	YES	2
	characterized by the (oflowing description: the wetland has a sandy substrate with interspersed organic matter, a water (able often within	Wetland is a Category 3 wetland.	Go to Question 11
_	several inches of the surface, and often with a dominance of the gramineous vegeletion shelp in Table 1 (woody species may also be	Go to Question 11	
	preserve, Trie Chic Departurism of reacue as resources Division of Natural Areas and Preserves can provide assistance in confirming this troes of weiland and its quality.		(
ŧ	Relict Wet Pratries. Is the wetland a relict wet prairie community	YES	ON
	were formenty located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Counties), Sandusky Plains (Wyandot, Crawford, and Marton Counties), northwest Ohio (e.g. Erle, Huron, Lucas, Wood Counties),	evaluated for possible Category 3 status	Rating
	and portions of western Chilo Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Complete Quantitative Ration	

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k Opening specie tx cryptologis tx scryptologis tx stratus anagrastics particits true palatitis g on next päge	Dog apedes         Jax Opening species           Carla paturar         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Carra contraction         Carra contraction           Speciation         Contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Speciation         Carra contraction           Specininn         Carra contretion	s and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	Site: Southfield Energy Interconnection Facility Rater(s): L.Sayre Date: 4/30/2015	a         wet print is special           Calangyosis stricts         Calangyosis stricts           Cara advocatis         Calangyosis stricts           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Cara advocatis         Cara advocatis           Likitara advocatis         Cara advocatis           Solidago ridaditi         Cara advocatis           Solidago ridaditi         Cara advocatis           Solidago ridaditi         Cara advocatis           Solidago ridaditis         Cara advocatis           Solidago ridaditis         Cara advocatis           Solidago ridaditis         Cara advocatis <t< th=""><th>3. Meximum water depth. Select on</th><th>Processed (1)     Concerts a datificances observed 3     Recovered (1)     Concerts a datificances observed alleb Recovering (2)     Tend (12)     Concerts and alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb</th><th></th></t<>	3. Meximum water depth. Select on	Processed (1)     Concerts a datificances observed 3     Recovered (1)     Concerts a datificances observed alleb Recovering (2)     Tend (12)     Concerts and alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb alleb	
	Dog species     O       Calls paiwars     Calls paiwars       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Carse risperent     Carse celinates       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Carse celinates     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella painstris     Carse celinates       Manuella paint Quanutitative Rat	ectos bog spesdes bog spesdes bog spesdes area var. glancar Cara patatria. Cara adatatria a cara patatria cara cara cara cara cara cara cara c		inclees wet to Cala to the fyera Stiph	g on next page.		

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الالفانية المالية العطال	Metric 5. Special WetGands.         Wet           Cose of INM reprised for the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of	ORAM Summary Worksheet	Circle		Narrative Rating Question 1 Critical Habitat YES NO If yes, Category 3.	Question 2. Threatened or Endangered YES (NO) If yes, Category 3. Species	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.	Question 6. Bogs YES NO If yes, Category 3.	Question 7. Fens YES NO If yes, Category 3.	Question 8a. Old Growth Forest YES	Question 8b. Mature Forested Wetland YES NO If yes, evaluate for Catogory 3; may also be	Question 9b. Lake Erie Weilands - YES NO Restricted	Question 9d. Lake Erie Wetlands - YES NO Unrestricted with netwe plants	Question 9e. Lake Erie Wetlands - YES (NO) If yes, evaluate for Unrestricted with invasive plants		Question 11. Relict Wet Prairies VES NO 1	Quantitative Metric 1. Size 0 1. 1012. Baltino	Metric 2. Buffers and surrounding land use 5	Metric 3. Hydrology 12 2000	Metric 4. Habitat	Metric 5. Special Wetland Communities 0 2	ommunities, interspersion,	T	DUAL SCORE 23   breakpoints	
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Refer to the must recent ORMM score collaration report for the scoring breakpoints between categories at the following addinant: http://apa.atale.on.us/stwa4ct1401.html

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Choleas	Circle and		<u>Eventuation of Cetanorization Beault of OBAN</u>	Dack
Did the sector Not Is not				Name: Brian Slahv
of the following questions:	2	Ð	is quarterative routy source reso user vie censury z source threshold (excluding gray zone)? If yes, reevaluate the	
Narrative Rating Nos. 2, 3,	weiano is categorized as a		category of the wettand using the narrative ontena in CAC Rule 3745-1-54(C) and biological anti/or functional	04/29/2015
4, 6, 7, 8a, 9d, 10	Category 3 wetland	(	assessments to determine if the welland has been over- categorized by the ORAM	Affiliation: EnviroScience Inc.
Did you answer "Yes" to any of the following questions:	YES	2	Evaluate the welfand using the 1) narrative criteria in OAC Prie 3745-1-54(C) and 2) the guantifiative rating score. If	Addrass: rowo of the
	Wettand should be		the wettand is determined to be a Category 3 wettand using	DU/U STOW HORD, STOW,
Narratve Kating Nos. 1, 85, 95, 96, 11	evaluated tor possible Category		either of these, it should be calegorized as a Category 3 wetland. Detailed biological and/or functional assessments	Phone Number: 330-688-0111
Did vion assesses Wash in	3 status		may also be used to determine the wetland's category.	addeese.
UID YOU BUSWER "Y 65" TO	YES	<u>?</u> )	is quantitative rating score greater than the Category z scoring threshold ( <i>including</i> any gray zone)? If yes,	BSlaby@EnviroScie
Narrative Rating No. 5	Wetland is		reevaluate the category of the welland using the narrative	Name of Wotland' with with
	Categorized as a Category 1 wetland		critena in CMC rule 3/42-1-24(c) and plocogical arrayor functional assessments to determine if the wetland has	Maine of Maina W-10, W-11
			been under-categorized by the ORAM	Vegetation Communit(les): PEM
Does the quantitative score fall within the eroring range	(ER	Ŷ	If the score of the weltand is located within the scoring score for a mark-tion retained the weltand storted be	
of a Category 1, 2, or 3	Wetand is		assigned to that category. In all instances however, the	HGM Class(es): Depression
welland?	assigned to the		narrative criteria described In OAC Rule 3745-1-54(C) can	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
-	appropriate		be used to clarify of change a categorization based on a 	LOCAUON OF WELLING MORE INCOME IN MICH.
	the scoring range	(		Please refer to site wetlands and
Does the quantitative score fail with the "oney zone" for	YES	2	<ul> <li>Reter has the option of assigning the wetland to the higher of the two categories or to assign a calegory based on the</li> </ul>	
Category 1 or 2 or Category	Wetland Is		results of a nonrapid wetland assessment method, e.g.	
2 or 3 wetlands?	assigned to the hinher of the two		functional assessment, bidlogical assessment, etc, and a consideration of the namelive criteria in OAC rule 3745-1-	
	categories or		54(C).	
	assigned to a			
	detailed			
	assessments and			
	the narrative criteria	(		
Does the wetland otherwise exhibit moderate OR superior	YES	2	A wettand may be undercategorized using this method, but still exhibit one or more sumerior functions e or a wetland's	
hydrologic OR habitat. OR	Wetand was	Wettand Is	build communities may be degraded by human activities.	
recreational functions AND	undercategonized	assigned to	but the wetland may still exhibit superior hydrologic	
the welland was <i>n</i> ot retervited as a Calacory 2	by this method. A	category as determined	tunctions because of its type, landscape position, size, local or motional strokthence afrond the circumstance that	
welfand (in the case of	for recategorization	by the	or regional signmeating, eux, in uns virunitating, une nametive criteria in OAC Rule 3745-1-54(C)(2) and (3) are	
moderate functions) or a	should be provided	ÓRAM.	controlling, and the under-categorization should be	Lat/Long or UTM Coordinate
Category 3 wetland (in the rase of eurodor functions) but	on Background		corrected. A written justification with supporting reasons of information for this datamination should be onwided	
this method?				USGS Quad Name
				Caunty
		Elas Catagoria		Township
Choose one	ne Category 1		category 2 Category 3	Section and Subsection
				Hydrologic Unit Code

Wetland Categorization Worksheet

Background Information

Brian Slaby	
Date: 04/29/2015	
Affiliation: EnviroScience Inc.	
Address: 5070 Stow Road, Stow, Ohio 44224	
Phone Number 330-688-0111	
e-mail address: BSIaby@EnviroScienceInc.com	
Name of Wetland: W-16, W-17	
Vegetation Communit([es): PEM	
HGM Class(se): Depression	
Location of Wetland: Include map, address, north arrow, landmarks, distances, roads, etc.	
Please refer to site wetlands and water resources map.	
	-
LavLords or UTA Coordinate 40.640604, 40.640604, 40.640604,	-80.70874
USOS Quad Name	West Point
County	Columbiana
Township	Yellow Creek
Section and Subsection	
Hydratoglic Unit Code	#05030101
Site Visit	04/29/2015
National Wetland Inventory Map	×
Chio Wetland Inventory Map	
Soil Survey	×
Delineation report/imap	×

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End of Ohio Rapid Assessment Method for Wetlands.

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Ĺ								Modified 2
	zones, etc.							Category:
is onsite	e waters, vegetation	ssources map.					r Changes:	
otal 0.844 acre	hip with other surfac	us and water re e					tification of Category	
as, hectares): T	orth arrow, relations to eitotions	o sue weuan 39 acres onsit 06 acres onsit					ive Discussion, Jus	43
Wetland Size (acre	Sketch: Include ne	W-16: 0.1: W-17: 0.7					Commants, Narrai	Final score :
	Wetland Size (acres, hectares): Total 0.844 acres onsite	Wetland Size (acres, hectares): Total 0.844 acrees onsite Sketch: include north arrow, relationship with other surface waters, vegetation zones, etc. Di anone schoolist	Wetland Size (acres, hectares): Total 0.844 acres onsite Statch: include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite	Wetland Size (acres, hectares): Total 0.844 acres onsite Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite	Weiland Size (acres, hectares): Total 0.844 acres onsite Sketch: Include north arrow, relationship with other surface waters, vegetation zones, etc. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite W-17: 0.706 acres onsite	Wetland Size (acres, heclares). Sketch: Include north arrow, relationship with other surface waters, vegetation zones, els. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite	Welland Sile (acres, Instances): Total 0.844 acres onsite Settin: Inslude north arrw, relationsip with other aufrace water, vegatifion zones, etc. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite	Wutand Skee (corres. Inclumes): Total 0.244 acres onsite Succir include north arrow, reationship with other ar infere watan, vegetation zones, etc. Please refer to site wetlands and water resources map. W-16: 0.139 acres onsite W-17: 0.706 acres onsite W-17: 0.706 acres onsite Current, Annelve Discussion, Justification of Category Clanges:

### Scoring Boundary Worksheet

INSTRUCTIONS. The initial step in completing the ORAM is to identify the "scoring boundaries" of the wetland being rated. In many instances this determination will be relatively easy and the scoring boundaries." For example, the scoring boundaries of mark located in the with the "junisticitoral boundaries." For example, the scoring boundaries of an interactional boundaries. The relatively exist of mark located in the middle of a farm field will likely be the same as that wetland's jurisdictional boundaries. In other instances, however, the scoring poundary will not be as easily determined. Wetlands that are small or isolated from other sufface waters often form large contignous areas or heterogeneous complexes of vetland and upland. In separating wetlands for scoring punposes, the hydrologic regime of the wetland is the main criterion that should be used. Boundaries here contignous or constetly wetlands should be established where the volume, flow, or velocity of water moving through the wetland changes significantly. *Areas with a high degree of hydrologic interaction should be accord as a signed waterd*. In determining a wetland's spond bedrawes, it may be according to a the graveland being rated. These problem situations include wetlands that form a patchwork on the landscape, wetlands divided by artificial boundaries like properiy fences, rads, or arithoad enbalandens, wetlands balands being reteams, lakes, or rivers, and estuarine or costal wetlands that are contiguous areas that recommended that Rater contact Ohlo EAA, Divide by artificial boundaries in the DNA.

#	Steps in properly establishing scoring boundaries	done?	not applicable
Step 1	Identify the webland area of interest. This may be the site of a proposed impact, a reference site, conservation site, etc.	×	
Step 2	Identify the locations where there is physical evidence that hydrology changes relicity. Such advence bychackes both national and human- induced changes including, constrictions caused by berms or dises, points where be water wockly changes moduly at partice or falls, points where be water wockly changes moduly at partice or falls, points where significant inflows cour at the confluence of three, or other factors that may restrict hydrologic interaction between the wellands or parts of a single welland.	×	
Step 3	Derineate the boundary of the welfand to be reted such that all aroas of intensa that are contigueus to and which the access where the hydrology does not change significantly, i.e. areas that have a high degree of hydrologic interaction are included within the scoring boundary.	×	
Step 4	Determine if antificial boundaries, such as property lines, state times, roads, railroad embankments, etc., are present. These should not be used to establish scoring boundaries unless they coincide with areas where the hydrologic regime changes.	×	
Step 5	In all instances, the Rater may enlarge the minimum scoring boundates discussed here to score together wellands that could be scored separately.	×	
Step 6	Consult ORAM Manual Section 5.0 for how to establish scoring boundation wetlends that form a patchwork on the landscape, divided by artificial boundaries, contiguous to streams, lakes or rivers, or for dual dassifications.		×

End of Scoring Boundary Determination. Begin Narrative Rating on next page.

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INSTRUCTIONS. Answer each of the following questions. Questions 1, 2, 3 and 4 should be answered based on information obtained from the site visit or the likerature and Preserves, Natural Heitage Data Services, 1889 Department of Natural Resources, Division of Natural Arreas and Preserves, Natural Heitage Data Services, 1889 Fountain Square Court, Building F-1, Columbus, Ohio 43244, 614-265-4563; Ohone), 614-265-4563 http://www.dmr.gatte.ohus/dmg. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the USF. The remaining questions are designed to be answered primarily by the results of the site visit. Refer to the USF Amaual for descriptions of these weitand types. Note: "Critical habitat" is legally defined in the Endangered Species Art and is the geographic area containing physical or biological features essential to the conservation of listed species or as an area that may require special management considerations or protection. The Rater should contact the Regio 3 Headquarters or the Columbus Ecological Services Office for updates as to whether critical habitat has been designated for other federally listed Intratenet or endangered species. "Documented" means the wetland is listed in the appropriate State of Obio database.

¥	Question	Circle one	(
<b>-</b>	Critical Habitat. Is the veoland in a township, section, or subsection of a United States Georgical Survey 7.5 minue Coustangle frainsas been designated by the U.S. Fish and Wirdlife Service as "ortical habitat" for any threatened or endangered plant or animal species? Note: as of around y 1, 2001, of the federally listed endangened or threationed species which can be found in CMID, the Indiana Bat has the dividing the species which can be found in CMID, the Indiana Bat has the dividing the species which can be found in CMID, the Indiana Bat has the dividing the species which can be found in CMID, the Indiana Bat has the dividing the species which can be found to CMID.	YES Wetland should be evaluated for possible Category 3 status Go to Question 2	Go to Question 2
2	Threatened or Endangered Species. Is the weitand Known to contain an Individual of, or documented occurrencess of federal or state-tsted threatened or endangered plant or animal species?	YES Category Wetland is a Category 3 wetland. Gn tn Diuestion 3	Go to Crestion 3
5	Documented High Quality Wetland. Is the welland on record in Natural Herifage Database as a light quality welland?	YES Wetland is a Category 3 wetland Go to Question 4	Go to Question 4
4	Significant Breeding or Concentration Area. Does the welland contain documented regionally significant breeding or nonbreeding waterfowi, neotropical songbird, or shorebird concentration areas?	YES Wetland is a Category 3 wetland Go to Question 5	Ge to Question 5
'n	Category 1 Wedlands. Is the welland and either 1. Checkares (1 acre) In size and hydrologicality kolated and either 1. Jonnthesk of vegetalion that is dominated (greater than eighty por cont ansel by Phatains aunchmaces, Lythurm saferaria, or Phrogontes australis, or 22 an acidic pond created or excaveled on mined lands that has fille or no vegetation?	YES Wetland is a Category 1 wetland Go to Question 6	Go to Question 6
9	Bogs. Is the welland a post-accumulating welland that 1) has no significant inflows or outdows, 3 supports addopting messes, particularly Synaguurs spo., 3) the addophila misses have >30% cover, 4) at least one species from Table 1 is present, and 5) the cover of invasive species (see Table 1) is <20%?	YES Wetland is a Category 3 wetland Go to Question 7	Co to Question 7
1	Fene. Is the welland a carbon accumulating (peet, muck) welland that is searulated during most of the year, primariby by a carborage of free flowing, mineral (rds, ground weller with a chromeurar ph (5-84.0) and with one or more plant species listed in Table 1 and the cover of invasive species fisted in Table 1 is <25%?	YES Wetland Is a Category 3 wetland Go to Question 8a	Ge to Question 8a
ю 80	<b>Cod Gowink Forestr.</b> Is the valuated is forestast valuated and 5 the forest characterized by but not limited to, the following characteristics: oversity cancer for the adjustication of the following characteristics: oversity cancer for the valuest construction and the set of the properties of the adjustication of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of th	YES Watand is a Category 3 weltand. Go to Question 8b	Go to Question B

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<b>9</b> 8	Mature forested wetlands. Is the wetland a forested wetland with 50% or more of the cover of uccer forest canopy consisting of	YES	
	deciduous trees with large clamelers at breast height (dbh), generally diameters greater than 45cm (17.7m) dbh?	Wetland should be evaluated for possible Category 3 status.	Go to Question Sa
		Go to Question 9a	(
69 0	Lake Erfe coasital and tributary wetlands. Is the wetland located at an elevation leas than 575 feat on the USS3 map, adjaven to this variation or alcord a tributary to Lake Erfe that is accessible to fish?	YES Go to Question 9b	Ge to Question 10
đ	Does the welland's hydrology result from measures designed to prevent eroskon and the loss of aquatic plants, I.e. the welland is	YES	ON
	partially hydrologically restricted from Lake Erie due to lakeward or landward dikes or other hydrological controls?	Wetland should be evaluated for possible Category 3 status	Go to Cluestion Sc
		Go to Question 10	
Зc	Are Lake Erie water levels the wetland's primary hydrological influence.	YES	ON
	i.e. the weater is hydroxically uncleaded in the second on updatod border alterations), or the weaterd can be charactedrated as an "estuartine" weaterd with lake and river influenced hydrokogy. These include sample: deposition weaterds, as submine weater, invertigent, new mouth weiterds, or these dominated by submersed auxilies have mouth.	Go to Question 9d	Go to Question 10
<b>P6</b>	Does the wetland have a predominance of native species within its	YES	NO
	vegetation communication and present?	Wetland Is a Category 3 welfand	Go to Question 3e
		Go to Question 10	
96	Does the wetland have a predominance of non-native or disturbance tolerant native night species within its versian communities?	YES	ON
		Wettand should be evaluated for possible Category 3 status	Go to Question 10
		Go to Question 10	(
10	Lake Plain Sand Prairies (Oak Openings) Is the welland located in Lucas, Fulton, Hanry, or Wood Counties and can the wetland be	YES	
	characterized by the totewing description: the welland has a same substratio with interspersed organic matter, a water table often within substrate interves of the surface and often with a Aroninance of the	vreuand is a category 3 weltand.	11 10 10 Minestron 11
	arental intervolve or to occur our control of the of two of species may also be gramineous vegotably laked in Table 1 (woody species may also be present). The Orito Department of Natural Resources Division of Natural Areas and Presence can provide assistance in confirming this two of writend and its quality.	Go to Question 11	(
ŧ	Relict Wet Prairies. Is the wetland a relict wet prairie community	YES	
	c dominated by some or all of the species in Table 1. Extensive prairies were formenty located in the Darby Plains (Madison and Union	Wetland should be	Complete
	Countles), Sandusky Plains (Wyandot, Crawford, and Marion Countles), northwest Ohio (e.g. Erfe, Huron, Lucas, Wood Countles),	evaluated for possible Category 3 status	Quantitative Rating
	and portions of western Chio Counties (e.g. Darke, Mercer, Miami, Montgomery, Van Wert etc.).	Complete Quantitative Rating	
		D. 100.1	

4