WETLAND DETERMINATION DATA FORM - Midwest Region WETTHIND !!

M-840-07/212-03

Project/Site: ACD JUA-KING	City/County:	していらか	CLCLUM Sampling Date: 0712.12	
Applicant/Owner: AEP		State: 04	State: 04 Sampling Point: 02	
0	Section, Township, Range:	,		
DE-PRESSIONAL, TOE	2の分む Local relief (conc.	ave, convex, none): _	CONCANE	
Slope (%): Lat: 40,012776	Long: -82, 652-549 Datum	549	Datum	
		NWI classifica	NWI classification: DA	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🔀 No (If no, explain in Remarks.)	an Yes 🔏 No	(If no, explain in Re	marks.)	
Are Vegetation Soil or Hydrology significantly disturbed?		al Circumstances" pr	Are "Normal Circumstances" present? Yes No X	
Are Vegetation Soil or Hydrology naturally problematic?		(If needed, explain any answers in Remarks.)	s in Remarks.)	

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r realures,		אוח חולכ	
es, importar	Yes X No	Istem C	
nis, tidiləte		Septic 3	
common of the property of the map showing some plant point occasions, transactes, important regardless, etc.	is the Sampled Area within a Wetland?	Penylpss cocareo with Existing Row, with Apprilow or signer Aprilam with weather	
dune Sumo		1 ROW. 1	
out make	Yes X No Yes X No	EXISTING	
		weo who	
1	Hydrophytic Vegetation Present? Hydric Soil Present? Welland Hydrology Present?	207 550	
	Hydrophytic Vegetatio Hydric Soil Present? Welland Hydrology Pr	Remarks: PCAL/	

VEGETATION – Use scientific names of plants.

Tone Observed (Dies since	Absolute		Dominance Test worksheet:
Tree Stratum (Prot size:	N COVE	Speciel Status	Number of Dominant Species That Are OBL. FACW. or FAC:
2			1
X			Species Across All Strate:
1			
8.			Percent of Dominant Species
		= Total Cover	
Sapling/Shrub Stratum (Pict size:	,	100	rksneet:
1. Per 02 willow	ζ,	185 OBC	Total % Cover of: Multiply by:
2.			OBL species 60 x1= 60
.6			FACW species OYD x2= 180
4.			FAC species /O x3= 3.0
10			FACU species x4=
	25	= Total Cover	UPL species x5=
Herb Stratum (Plot size:			001
1. Acro Chunnay GMBS	ah	VRS CACL	1 / 5
2. Jewel were	30	Ver FACW	Prevalence Index = B/A = 1. 6 7
3. Babiset	000	las DB(	Hydrophytic Vegetation Indicators:
4. MARROW LORF CATTAIL	0/	No 086	1 - Rapid Test for Hydrophytic Vegetation
5. Chrex LUMBA	h	790 ou	X 2 - Dominance Test is >50%
6. Chack Dutpinologie	0/	No GACL	∠ 3 - Prevalence Index is s3.0¹
7. GOLDENKOD SP.	Q	Nº FAC	4 - Morphological Adaptations' (Provide supporting
8. JONSHIVE FERN	9	NO FACE	data in Remarks or on a separate sheet)
9. TENSEL		MI(UPL)	Problematic Hydrophytic Vegetation' (Explain)
10.			
Woody Vine Stratum (Plot size:	35	= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	-	1.	Hadromhatio
2			Χ
/		= Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	theet.)		
		-	

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Midwest Region - Version 2.0

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(inches) Color (moist) % Color (moist) % Twee	Loca Texture Remarks.
Type: C=Concentraton, D=Deptetion, RM=Reduced Matrix, MS=Masked Sand Grains	Grains. ?Location: PL=Pore Lining, M=Marrix.
Hydric Soil Indicators:	-
I	() Coast Prairie Redox (A16)
Histic Epipedon (AZ) Sandy Nedax (SS)	Iron-Manganese Masses (F12)
(A4)	
	2) Other (Explain in Remarks)
ł	
Depleted Below Dark Surface (A11) Redox Dark Surface (F5)	) Pindicalors of hydrophytic vegetation and
5 cm Mucky Peator Peat (S3)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Type:	Hydric Soil Present? Yes No
Depth (inches):	- 1
Remarks: SOILS ASSUMED DUE TO	
APPER WAS IMPROTED W/ LIFT STRIPON OR	TION OR 3 TICK SEPTIC.
Since the second	Section Newsons
* 1049 CIGO 100 MAIN	
HYDROLOGY	
Wetland Hydrology Indicators:	Savondary lodicatore (minimum of busy required)
Courtee Water (A1)	
1	14
1	I
1	
(B2)	Living Roots (C3) saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced from (C4)	1)
Agail Mat of Crust (54) This Muck Surface (C7)	
on Aerial Imagery (B7)	
Yes Ser	
Nes No	
(includes capillary fringe)	ogy Present Tes
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous Inspections), if available	Inspections), if available:

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WETTHIND !

WBA0-071912-02

Date: のテルプ

Rater(s): 1940, UC

WETURNO 11

ORAM v. 5.0 Field Form Quantitative Rating Site: AEP JUG-KIRK

W-8100-07010-03

			anno d		نيسال،	1		. 1		.)			1 .		,				j					,				
JAN STATE OF	Date: 67/2/2					Metric 6. Plant communities, interspersion, microtopography.	ommunity Cover Scale Absent or remeriese of the 1/1 3471 series and	Present and either comprises small part of wetland's	vegetation and is of moderate quality, or comprises a significant part but is of low quality	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small	part and is of high quality Present and comprese ejorificant and or more of melloude	s of high quality	ation Quality	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species	Native spp are dominant component of the vegetation, although nonnative and/or distribution places to her and the second	can also be present, and species diversity moderate to	moderately righ, but generally w/o presence of rare threatened or endangered spp	A predominance of native species, with nonnative spp	absent, and high spp diversity and offen, but not always,	are presente ou rare, unecersion, or erioargered spp	.247 acres)	Low 0.1 to <1ha (0.247 to 2.47 acres)	Moderate 1 to <4ha (2.47 to 9.88 acres) High 4ha (9.88 acres) or more			Present very small amounts or if more common of marginal quality	Present in moderate amounts, but not of highest quality or in small amounts of highest quality	Present in moderate or greater amounts
1	1540,JC			vydrology (10) Irology (5)	Known occurrence state/federal threatened or endangered species (10) Significant migratory songbirdwater fow habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10)	nterspersion	Vegetation Community Cover Scale	Present and either	vegetation and it	Present and either vegetation and is	part and is of hig	vegetation and is of high quality	Narrative Description of Vegetation Quality		Z	can also be pres		Α	absent, and high	Mudfiet and Ones Water Clare Ouelite	Absent <0.1ha (0.247 acres)	Low 0.1 to <1ha (0	Moderate 1 to <4ha (2.47 to 9. High 4ha (9.88 acres) or more	Microtopography Cover Scale	Absent	Present very small a of marginal quality	Present in modera	Present in modera
1	Rater(s): B	Vetlands.	dicated.	Mature forestable whethord (10)  Mature forestable whethord (10)  Jake Erie coastabl/Publishy wetland-unrestricted hydrology (10)  Jake Erie coastabl/Publishy wetland-restricted hydrology (5)  Jake Plant Sand Praines (Dak Operlings) (10)	Known occurrence state/federal threatened or endangered spe Significant migratory songbird/water fow habitat or usage (10) Category 1 Wetland. See Question 1 Qualitative Rating (-10)	nmunities, ir				2	-	ion.	Narrative	low	pow	of the same of the		high	(6)		0		sucks 2 cm (6in) 3	n) dbh		-	2	60
Rating V		Metric 5. Special Wetlands.	Check all that apply and score as indicated.  3og (10) Fen (10) Old growth forest (10)	Mature forested wetland (5) Lake Eric constitutiously wetland-unrestricted Lake Eric constitutiously wetland-unrestricted is Lake Plain Sand Prairies (Oak Openings) (10) Relicd Wet Prairies (10)	wn occurrence state/fi hificant migratory song egory 1 Wetland. See	6. Plant con	Some all present using 0 to 3 scale	Aquatic bed	Emergent Shrub	Forest Mudflats	Open water	horizontal (plan view) Interspersion.	y one. High (5)	Moderately high(4) Moderate (3)	Moderately low (2) Low (1)	None (0)	to Table 1 ORAM long form for list. Add	or deduct points for coverage	Moderate 25-75% cover (-3)	Nearly absent <5% cover (0)	graphy.	Score all present using 0 to 3 scale.	Vegetated hummucks/fussucks Coarse woody debris >15cm (6in)	Standing dead >25cm (10in) dbh Amphibian breeding pools	;			
ORAM v. 5.0 Field Form Quantitative Rating	ACPKIRK-JUM	19 biolist frest peage 10, Metric !	sobiotal Check all that Bog	Mat Lak	Sat Sgr		subletal Ea. Wetland \	Non I	Shrub		Open	6b. horizontal	Select only one.	Mod	Modera (1)		to Table 10R	or deduct poin	\$ / S	Nea Nea	6d. Microtopography.	Score all prese	Coa		]			
ORAM v. 5.0	Site: A	0	max 10 pts.			7	max 20 pts.																					

End of Quantitative Rating. Complete Categorization Worksheets.

| Sources of Water. Score all that apply. | Sh. Cornectivity. | Sh. Cornectivity 2a. Calculate average buffer width. Select only one and assign score. Do not double check.

WIDE. Buffers sweape Som (1440) or ones activity welland powned to permitter (1)

MEDIAN Buffers average 22mt los -55mt (28 to -1544) around welland perimeter (4)

MARROW. Buffers average 10mt los -55mt (28 to -1544) around welland perimeter (1)

Za. presently of surrounding land tess. Select one of oblighe check and everage.

LOW. Cold safe (10 years), struch land, young second growth forest (5)

MODERVIET VIEW. Rose and perimeter of second growth forest (5)

METIAN Buffers (10 years), struch land, young second growth forest (5)

METIAN Buffers (10 years), struch land, young second growth forest (5)

MINISTRUCTURE. Residential, fenced posture, park, conservation illings, new fallow field (-10).

Metric 3. Hydrology. point source (nonstormwater)
filling/grading
road bed/RR track Metric 2. Upland buffers and surrounding land use. Metric 4. Habitat Alteration and Development. 4a. Substrate disturbance. Score one or double check and average Acceptably good (4)

Fair (2)

Poor (1)

As, Habitat alteration. Sone one or double check and average.

None or none sperent (3)

Recovered (6)

Recovered (6)

Recovered (6)

Recovering (1) | Recovering (3) | Recovering (2) | Recovering (3) | Recovering (4) | Recovering (4) | Recovering (4) | Recovering (5) | Recovering (5) | Recovering (5) | Recovering (6) | Reco Metric 1. Wetland Area (size). Select one size class and assign score.

-56 acres -20.20 fast (0.1 to <20.20 fast) (0.2 to < None or none apparent (12) C
Recovered (7)
Recovering (3)
X Recent or no recovery (1) = 2 3 1 Ø

last revised 1 February 2001 jjm

Check all disturbances observed from which are a charactering chearching chearching selective cuting selections.

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INETLAND B

W. BRO-0412-01

	t Region
	Midwest
	FORM-
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	IINATIO
	WETLAND DETERMINATION DATA FORM
	TLAND
X	Š

AEP-JUG-KIRK

Sampling Date: OF/2/2		Jare J.	NA	Yes X No	nrks.) ant features, etc.	The state of the s	NORUMAL SC		§	S (B)	/ 60 / (AB)	11.	080	= 108	200	1-	1. 7.>	Vegetation	*		(Provide supporting sparale sheet)	etation¹ (Explain)		nd hydrology must
	ange:	30e,0		No (If no, explain in Remarks.)  Are "Normal Circumstances" present? Yes,	(frneeded, explain any answers in Remarks.) int locations, transects, important	d Area	Row		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	Total Number of Dominant Species Across All Strata:	Percent of Dominani Species That Are OBL, FACW, or FAC:	Prevalence Index worksheet:	PAC	FAC species 3.5 x3=	100	Column totals: 17.7 (A)	Prevalence Index = B/A =	1 - Rapid Test for Hydrophytic Vegetation		3 - Prevalence Index is 53.0	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		Indicators of hydric soil and welland hydrology must
City/County:	Section, Township, Range:	Long:	3	×	naturally problematic? (If n up showing sampling point	No	J 674/57/1		Absolute Dominant Indicator % Cover Species? Status			= Total Cover	15 Vec 19C		4/0 = Total Cover 10/1	7	30 150 037	10 000 01	15 Nº FAC	ί.	S No THC	5 10 Cal		137 = Total Cover
ediste: NEP JUH-KIRK	alcantowner: Act C	drom (hillstope, terrace, etc.): TDE・06・5-9/4- pe (%): Lat: 中の ひの子子	Map Unit Name: (2 D	ogic conditions on the site typical soil, or Hydrology	Vegetation PL Soil or Hydrologynaturally problematic? (If needed, explain any anevers in Remarks.)  MMARY OF FINDINGS – Attach site, map showing sampling point locations, transects, important features, etc.	Adophylic Vegetation Present?  Yes X  rdic Soil Present?  Yes X  Reland Hydrology Present?  Yes X  marks:	35/prw wereave THATIS "	GETATION - Use scientific names of plants	ee Stratum (Plot size:)			pling/Shrub Stratum (Plot size:	1 -41 >1		rb Stratum (Plot size:	4 ELANS	DARK FREED BURDSH (4)	1 1	Stationfoo Sp.	Fox Subter	Potris AVE	WOOLGANDS	Carex indumericas	

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= Total Cover

to any time to the second of t

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(77)	
3	ł

SOIL

### W-1840-041218-0 (

Profile Description: (Describe to the deput needed to document the Indicator of confirm the absence of indicators.)	pul needed to comment the margan of commi	
Matrix	edox Features	
(moist)	70	Texture Remarks
0-12 104R 4/1 95	7-51/25/6 5 RM M	Sity and Few / bistica
,		
e: C=Concentration, D=Depletion, Rh	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	*Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	<ul> <li>Depleted Dark Surface (F7)</li> </ul>	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (FB)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes X No
Remarks:		

HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	A Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
∠ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	ots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (83) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	(C6) X.Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (87) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	,
Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	is), if available:
Remarks:	

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ORAM v. 5.0 Field Form Qu	Site: Acp KIRIL.	23	average is at a second as a s	max 10 pts. suchotal Chec.			Me CC C	Score	78	7. 19 alaba		- 6	to Tak to Tak or dec	ph	Sons	_	4	
Site: Act during Aster(s): Bao, de Date: OFIS	Motric 1 Wetland Area (cize)		Set 0 areas (2.0.2.ms) (6.ps) . ⊋ u  25 to 4.50 acres (1.0.1 to 4.0.2.ms) (4.ps) . ⊋ u  10 to 4.50 acres (1.0.1 to 4.0.1.ms) (4.ps)  3 to 4.10 acres (1.2 to 4.0.1.ms) (5.ps)	(0.3 to ~ 3 area (0.12 to ~ 4.2 ma) (20st) (0.1 to ~ 4.3 areas (0.0 Me ~ 4.0.12 ma) (1 pt) (0.1 to ~ 6.0 me (0.0 Me a) (0 pts)	3 Wetric 2. Upland buffers and surrounding land use.	max 14 35. sational 2a, Calculate average buffer width. Select only one and assign score. Do not double check.    WIDE. Buffers average 50m (feldy on more awound veitand perimeter (1)   MEDIUM. Buffers average 55m (eds.) or c50m f62 to r 184th around weitand perimeter (4)   MEDIUM. Buffers average 52m to -50m f62 to r 184th around weitand perimeter (1)   MEDIUM. Buffers average 72m to -50m f62 to r 184th around weitand perimeter (1)   VERY NARROW. Eulfers average -10m (-22th around weitand perimeter (0)   2b. inlessity of surrounding land see. Select one or double check and average.	PERY LOW. And grawfn or odder resust, persus, expansing, wither enes, etc. (7)  Spanson and the Piloy and the Pilo	/ アン ション Source of Water, Score all that apply. (名) 投資が適けが、Score all that apply.	er (3)		ral hydrologic regime. Score one or double check apparent (12) Check all disturbances observed ditch	Recovering (-1)   Itele   Itele   Itelegrading   Itelegrading	8 33 Metric 4. Habitat Alteration and Development.	mxx2 pts. watcast 4.a. <u>Stabst</u> rate disturbance. Score one or double check and everage.    Whose or not one operator (4)	Recovering (2)     Record or no recovery (1)     Ab. <u>Habile</u> development. Select only one and assign some.  Excellent (7)     New road (1)	2	on. Score one or double check and average.  Check all disturbances observed  Check all disturbances observed  Check all disturbances observed	Recent or no recovery (1) grazing sedimentation sedimentation

W-BRO. OX18/2-0

WETLANDID

ORAM v. 5.0 Field Form Quantitative Rating

10-81818-01818-01 Narrative Description of Vegetation Quality

Iow spot investity and/or perchanance of normative or disturbance loderard native sponesis

mod Mative spo are dominant component of the vegetation, although normalive and/or disturbance loderar native sponen and/or obe present, and species offensity moderate to moderately high, but generally wife presence of rare threatened or endongered sponen and/or disturbance loderard make sponen and/or disturbance loderard make sponen and/or disturbance loderard make sponen or farth and individually and offer, but not always, the presence of rare, threatened; or endangered spo | Vegetation Community Cover Scale | Absent for comprises < 0.1 | Absent to comprise small part of wellands or comprises a significant part but is of they quality, or comprises a significant part but is of they quality or comprises a serial research and either comprises significant part of wellands | Present and either comprises significant part of wellands | Present and either comprises significant part of wellands | Present and either comprises a small | Present and either comprises | Present and either part and is of high quality Present and comprises significant part, or more, of wetland's vegetation and is of high quality Date: 07/2/2 Present very small amounts or if more common of marginal quality or present in moderate amounts, but not of highest quality or in small amounts of highest quality or in small amounts or highest amounts. Mudflat and Open Water Class Quality

| Absent 40, the (0.247 acres) | Low 0.11 to 14h (0.247 acres) | 1 Low 0.11 to 14h (0.247 acres) | 2 Moderate 1 to -4ha (2.41 to 9.88 acres) | 3 High 4ha (6.88 acres) or more filcrotopography Cover Scale Rater(s): 840, JC WETTANDID tric 5. Special Wetlands. debut points for coverage

| Action | A None (0) Coverage of invasive plants. Refer ble 1 ORAM long form for list. Add orizontal (plan view) Interspersion Vetland Vegetation Communities.

B all present using 0 to 3 scale.

Aquatic bed Moderately high(4)
Moderate (3)
Moderately low (2) antitative Rating High (5) 200

End of Quantitative Rating. Complete Categorization Worksheets.

last revised 1 February 2001 jim

# WETLAMD PSTERMINATION DATA FORM—MICHOSET Region $\beta_{10}$ $7/\mu/12$ (6)

City/County: Licking Co. Sampling Date: O7/11/2.	Section, Township, Range:	Local relief (concave, convex, none):	Long: -82,65402, Datum:	NWI classification: U.S.	No (If no, explain in Remarks.)	Are "Normal Circumstances" present? Yes X No	(If needed, explain any answers in Remarks.)
Projectistic: ASP JUT-KIRK City/County Applicant/Owner.	Investigator(s): BMD, Mr, &C. Section, To		. Long:		Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🐇 No (if no, explain in Remarks.)	Are Vegetation 2. Soil 2. or Hydrology 2 significantly disturbed?	Are Vingetation Soil or Hydrology naturally problematic?

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

			,				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	Yes X No	1	Is the Sampled Area			
Wetand Hydrology Present?	Yes	Yes X No		within a Wetland?		Yes No	No
PEM WETHIND of NOW & ABUTTINH HH-BNO-071112-05	cylin	Row	-w	ABUTTIMA	STREET HH	ST1170	50

VEGETATION - Use scientific names of plants.

1	2   2   2   2   2   2   2   2   2   2	Demination Tests vorksheet:  Number of Deminant Species That Are Oell, FACK, or FACC.  Total Number of Deminant Species That Are Oell, FACK, or FACC.  Total Summar Species That Are Oell, FACK, or FACC.  Oell species \$\frac{5}{2} \sum \text{ x.t.} = \frac{7}{2} \sum \text{ AMISIN by:} \text{ PACK species}  FACK species \$\frac{1}{2} \sum \text{ x.t.} = \frac{7}{2} \sum \text{ AVIS Species}  FACK species \$\frac{1}{2} \sum \text{ x.t.} = \frac{7}{2} \sum \text{ AVIS Species}  FACK species \$\frac{1}{2} \sum \text{ x.t.} = \frac{7}{2} \sum \text{ AVIS Species}  FACK species \$\frac{1}{2} \sum \frac{1}{2} \sum \frac{1}	
7	= Total Cover	Hydrophytic Vegetation Present? Yes No	
Remarks: (Include photo numbers here or on a separate sheet.)			

US Army Carps of Engineers Midwest Region – Ven

W- BAD 071112-6

SOIL

WETWO 13

Sampling Point:

Antraion, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, cations:  (A2)  (A2)  (A3)  Sandy Glayed Matrix (S4)  Sandy Retox (S5)  (A3)  Single (A4)  Sandy Clayed Matrix (S6)  Single (A4)  Singl	
ellon, RM-Feduced Matrix, MS-Masked Sand Grains.  Sandy Glayed Matrix (S4)  Sandy Glayed Matrix (S5)  Loamy Muccy Mineral (F1)  Loamy Muccy Mineral (F1)  Loamy Muccy Hartix (F2)  Loamy Muccy Edysed Matrix (F2)  Loamy Muccy Cayed Matrix (F2)  Depleted Matrix (F3)  Redox Deptessions (F8)  Redox Deptessions (F8)  Water-Stained Leaves (F8)  Water-Stained Leaves (F8)  Aquatic Fauna (F13)  The Aquatic Fauna (F14)  Hidogen Sulfice dode (C4)  Hidogen Sulfice dode (C4)  Presence of Reduced fron (C4)  Presence of Reduced fron (C4)  Recent Iron Reduction in Titled Soils (C5)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Sauge or Well Data (D6)  Surface (F8)  Gauge or Well Data (D6)	
Con (42)	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soile <sup>3</sup> .
Cont	. elico otto de la compania della co
(A2)	Coast Prairie Redox (A15)
Valid	Dark Sunace (5/)
Indian (ve)	Iron-Manganese Masses (F12)
Article   Arti	Very Shallow Dark Surface (1F12)
Depleted Maint ([13])   Depleted Dark Surface ([13])   Depleted Dark ([13])   Depleted Dar	Other (Explain in Remarks)
Suffice (1/12)  Peed or Peat (52)  In Edox Depressions (F8)  Peed or Peat (53)  In Extremely (1/12)  Redox Depressions (F8)  In Extremely (1/12)  St.  St.  In Extremely (1/12)  Aquatic Faura (1/13)  Table (1/12)  Aquatic Faura (1/13)  Table (1/12)  Aquatic Faura (1/13)  Aquatic Faura (1/13)  Table (1/12)  Aquatic Faura (1/13)  Aquatic Faura (1/13)  Table (1/12)  Table	
Peak or Peak (\$2)	
Varieties (3-1)	inorcators of nydrophylic vegetation and
st (flobserved):  st (minimum of one is required; check all that apply)  ret (A1)  Table (A2)  Aquatic Fauna (B13)  Table (A2)  The Aquatic Fauna (B13)  To Aquatic Panta (B14)  Aquatic Panta (B14)  The Aquatic Panta (B14)  The Aquatic Panta (B15)  The Aquatic Panta (B14)  The Aquatic Panta (B15)  The Aquatic Panta (B15)  The Aquatic Panta (B17)  Aquatic Panta (B19)  The Aquatic Panta (B19)  Aquatic Panta (B19)  The Aquatic Panta (B19)  Aquatic Pan	wedand nydrology must be present, unless disturbed or problematic
9):  12	,
opy indicators:    Continuant of one is required, check all that spoky	
ogy Indicators:  re trinimum of one is required, check all that apply)  re trinimum of one is required, check all that apply)  Table (x2)  Aquatic Fauna (813)  Total Aquatic Fauna (813)  Total Advance of Period Odor (C1)  Forestine on Living Roots (C2)  Could 280  Thin Mork Surface (C3)  Thin Mork Surface (C7)  Seable on Aerial Imagery (87)  Gauge or Well Data (C9)  Galactic Office (Explain in Remarks)  Thin Mork Surface (C7)  Telestine on Aerial Imagery (87)  Counse or Well Data (C9)  Seable Concave Surface (E8)  Other (Explain in Remarks)	Hydric Soil Present? Yes No
ogy indicators: a traininum of one is required, check ther (41)  A3)  A3)  A4)  A5)  A6  A9  A6  A9  A9  A9  A9  A9  A9  A9	
Submissor Water (41)  High Water Table (A2)  High Water Table (A2)  High Water Table (A2)  Aquatic Fauna (813)  Sediment Deposits (82)  Diff Deposits (83)  Fresensor of Reduced Non (C4)  Into Mark (814)  Nondrade Water (814)  Fresensor of Reduced Non (C4)  Into Maposits (83)  Fresensor of Reduced Non (C4)  Thin Muck Surface (62)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  Sparsely Vegetaed Concave Surface (88)  Cher (Explain in Remarks)  Surface Water Present?  Yes  No  Depth (inches):	Secondary Indicators (minimum of two required)
(92)  (92)  34)  A Aerial Imagery (87)  Concave Surface (88)  Yes No X	The second of th
(92)  (92)  A Anrial Imagery (87)  Concave Surface (88)  Yes No X	Surface Soil Cracks (B6)
(82)	Chainage Patterns (B10)
(B2)  34)  n Aerial Imagery (B7)  Concave Surface (B8)  Yes No X	Dry-Season Water Table (C2)
(92)  34)  A Aerial Imagery (87)  Concave Surface (88)  Yes No X	13
Andrial Imagery (B7) Concave Surface (B6)	K
A Annial Imagery (B7)	Stunted or Stressed Plants (D1)
Concave Surface (B8)	Seomorphic Position (DZ)
Concave Surface (B8)	Y FAC-Neutral Test (D5)
Concave Surface (B8)	
Yes No X	
Yes	
× ::	
Saturation Present? Yes No No Depth (inches): Wetland H	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	allable:

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Date: 04(1 12) W. 1840-07-1112-06 2a. Calculate average buffer width. Select only one and assign score. Do not doubte check.

WINE. Buffers average Sim (1944) or more autom welland perimeter (1)

MEDIUM. Buffers average Sim (1944) or more autom welland perimeter (1)

MEDIUM. Buffers average Sim to sclow (182 to sclish) around welland perimeter (1)

WERP NARROW. Buffers average for the Octor (1942) around welland perimeter (1)

Zin, Interesty of surrounding land use. Select one of outbook check and everage.

Simple Metric 2. Upland buffers and surrounding land use. Rater(s): BAO, MDT WETLAND 13 | Select one size class and resign roce. | Select one size class and resign roce. | Select one (-20.2ma) (6 ps) | 10 to -25 acres (4 to -10.1ma) (4 ps) | 10 to -25 acres (4 to -10.1ma) (4 ps) | 3 to -10 acres (1.2 to -41na) (3 ps) | 0.3 to -3 acres (0.12 to -12 na) (2ps) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 to -0.12 na) (1 pt) | 0.1 to -0.3 acres (0.04 Metric 1. Wetland Area (size) Sources of Water. Score all that apply High pH groundwater (5) Metric 3. Hydrology. ORAM v. 5.0 Field Form Quantitative Rating Site: AEP JUH- KIRC 138 W Q 10 30 pts. Onax 6 pts.

subtotal this page
last revised 1 February 2001 jim;

ORAM v. 5.0 Field Form Quantitative Rating

WETLAND B

Vegetation Community Cover Scale
0 Absent or comprises 40, The (0.2471 acres) contiguous area
1 Present and either comprises small part of wetland's part and is of high quality
Present and comprises significant part, or more, of wetland's vegetation and is of moderate quality or comprises a small although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to threatened or endangered spp A predominance of native species, with nonnative spp and/or disturbance beleand native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rere, threatened, or endangered spp significant part but is of low quality Present and either comprises significant part of wetland's moderately high, but generally w/o presence of rare disturbance tolerant native species Native spp are dominant component of the vegetation Metric 6. Plant communities, interspersion, microtopography. esent very small amounts or if more con vegetation and is of high quality Narrative Description of Vegetation Quality
low | Low spp diversity and/or predom Known occurrence state/hederal threatened or endangered species (10)
Significant migratory songbird/water fow habitat or usage (10)
Category 1 Wetland. See Question 1 Qualitative Rating (-10) icrotopography Cover Scale Lake Erie coastal/tributary wetland-restricted hydrology (5) Lake Plain Sand Prairies (Oak Openings) (10) Rater(s): 8#0. Metric 5. Special Wetlands. Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh Check all that apply and score as indicated.

Bog (10)
Fen (10) Mone (0)

6. Coverage of invasive plants. Refer
to Table 1 OFAM long form for list. Add
or deduct points for coverage

Extensive 3-75% cover (-5)

Addresse 5-25% cover (-1)

Nearly, obsent <5% cover (-1)

Nearly, obsent <5% cover (0) 6d. Microtopography.
Soore all present using 0 to 3 scale. 6b. horizontal (plan view) Interspersion Old growth forest (10)
Mature forested wetland (5) 6a. Wetland Vegetation Communities Score all present using 0 to 3 scale.
Aquatic bed Relict Wet Prairies (10) Moderately high(4) Moderately low (2) Moderate (3) Site: 13- 840-071112-06 Select only one.
High (5) Q 'n る 7 0

7 120

End of Quantitative Rating. Complete Categorization Worksheets.

quality or in small amounts of highest qui resent in moderate or greater amounts

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W-640.07-11-05	
3	ion
	Red
	WET! AND DETERMINATION DATA FORM - Midwest Region
	2
	FORM
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7	ATI
112	N
3	FTER
	CN
	TI A
	Ν

	City/Courty:	State: OH	LICHANK Sampling Date: 07-11/2- State: 04 Sampling Point: 05
Investigator(s): DHU, XX., THI Landform (hillstope, terrace, etc.): D&pt26551012 H	Section, Township, Range:	ive, extresox, rishe):	ownship, Kange: Local relief (concave, cxtxxxx, risne); ConCANE
40,001265	Long: -82, 6538 [5 Dalum:	3815	Dalum:
Soil Map Unit Name:(_P&	Yes K No	(If no, explain in Re	NWI classification: Y 1 / G., explain in Remarks.)
Are Vegetation $\longrightarrow$ Soil $\nearrow$ or Hydrology $\nearrow$ significantly disturbed? Are Vegetation $\longrightarrow$ Soil $\nearrow$ or Hydrology $\nearrow$ naturally problematic?		Are 'Normal Circumstances' present? Yes (If needed, explain any sejewers in Remarks.)	Are "Normal Circumstances" present? Yes 🔀 No (If needed, explain any srewers in Remarks.)

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

Hydrophytic Vegetation Present? Yes	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Area Yes X No	
ROMANS PEW/PSS WITHIN EXISTING ROW NEAR DESIDENTIAL HOUSE	NA ROW NER	ire Desiberat	112 - 110 USE!	
VEGETATION - Use scientific names of plants.	of plants.			
T. Section of the Control of the Con	Absolute	Absolute Dominant Indicator		
Tree organization (Prior Sizes:	a cover	w cover openies openies	Number of Dominant Species That Are OBL, FACW, or FAC:	8
7			Total Number of Dominant Species Across All Strafa	8

	Dominance Tost worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)	Total Number of Dominant Species Across All Strafa: (B)	Percent of Dominant Species (OO That Are OBL, FACW, or FAC: (A/5)	Prevalence Index worksheet: Total % Coverof: Multiply by:	800	FAC species 7.43 × 3 = 10.6	145	Prevalence Irdex = B/A = 1.72	ξ	1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%	約 1	data in Remarks or on a separale sheet) —— Problematic Hydrophytic Vegetation¹ (Explain)	<sup>1</sup> Indicators of hydric soil and welland hydrology must be present, unless disturbed or problemalic.	Hydrophytic Vegatation Yes X No	
	Absolute Dominant Indicator % Cover Species? Status		= Total Couer	100 tt 080	5 m DW		= Total Cover	30 Jes FALL	04	15 NO FACE	2004	5 no EPIC	30 = Total Cover	- 1 1	
VEGETATION - Use scientific names of plants.	Tree Streatury (Flot eize:	3	5.	Saping/Shrub Stratum (Plot size:	2. Junany 12018	A.		1. NAMBULLEAF COTTAIL 2. PERDEAMARY GRASS	3. Nycop Ercosons	4. FOR 4654E		8. cheex of.	10. Woody Vine-Stratum (Plot size:	,1,	Remarks: (Include photo numbers here or on a separate sheet.)

Midwest Region - Version 2.0

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US Army Corps of Engineers

W-1840-041113-05	. Sampling Point:	rm the absence of indicators.)
	WEILENDIA	<ul> <li>(Describe to the depth needed to document the indicator or confirm th</li> </ul>

Sampling Point:	onfirm the absence of indicators.)		2c* Texture Remarks	of the town			*Location: PL=Pore Lining, M=Matrix.	Indicators for Problematic Hydric Solls <sup>3</sup> :	Coast Prairie Redox (A16)	Dark Surface (S7)	Iron-Manganese Masses (F12)	Very Shallow Dark Surface (TF12)	Other (Explain in Remarks)			Indicators of hydrophytic vegetation and	wetland hydrology must be present,	unless disturbed or problematic.			Hydric Soil Present? Yes No	
WEILMONY	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	dox Features	Color (moist) % Type Loc*	- 25/e 4/8 10 18m ~		 	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.		Sandy Gleyed Matrix (S4)	Sandy Redox (S5)	Stripped Matrix (S6)	Loamy Mucky Mineral (F1)	Loamy Gleyed Matrix (F2)	Depleted Matrix (F3)	Redox Dark Surface (F6)	Depleted Dark Surface (F7)	Redox Depressions (F8)					
SOIL	Profile Description: (Describe to the d	Matrix	(inches) Color (moist) %	0-12 1041x5/1 TO			Type: C=Concentration, D=Depletion, R	Hydric Soil Indicators:	Histosol (A1)	Histic Epipedon (A2)	Black Histic (A3)	Hydrogen Sulfide (A4)	Stratified Layers (A5)	2 cm Muck (A10)	Depleted Below Dark Surface (A11)	Thick Dark Surface (A12)	Sendy Mucky Mineral (S1)	5 cm Mucky Pest or Peat (S3)	Restrictive Layer (if observed):	Type:	Depth (inches):	Remarks:

### HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimize of one is registrationed all that apply)	Secondary Indicators (minimum of two required
Surface Water (AS) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (\$23)	A Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Cxidized Rhizospheres on Living Roofs	Oxidized Rhizospheres on Living Roots (C3) 💫 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B2) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B-8) Recent Iron Reduction in Tilled Soils (C6)	<li>S) Ceomorphic Position (D2)</li>
Iron Deposits (B5) Thin Muck Surface (C7)	XFAC-Neulral Test (D5)
Inundation Visible on Aerial Imagery (B3) Gauge or Well Data (D9)	
Sparsely Vegetated Conserve 2525ans (88) Cther (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes Nage X 10 Popth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): Well	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	if available;
Remarks:	
HYDRO IS SOMEWHAT WEAK. DUE TO DELET THIN MORMUL CONDMONS	HORUNI CONDITIONS

US Army Corps of Engineers

	Site: 107 005-1/102
Metric 1. Wetland Area (size).	
темке ри. webteath Sele <u>ct on</u> o size class and assign score.	School first cope
>50 eartes (>20.2.tal) (6 pts) 25 to <50 acres (<10, <20.2.tal) (5 pts) 10 to <25 acres (<10, <10, <10, <10, <10)	Metric 5. Special
3 to <10 acres (1.2 to <4/bb)   35   35   35   35   35   35   35   3	mex 10 pss. subtored. Check all that apply and score as
(1) to <0.3 acres (0.04 to <0.12ha) (1 pt)	Bog (10) Fen (10)
(0 Thetric 2. Upland buffers and surrounding land use.	Old growth forest (10) Mature forested wetlan
max 14 stc. subtotal 2a. Calculate average buffer width. Select only one and assign score. Do not double check.	Lake Erie coastal/Inbu
MEDIUM, Buffers average 25m to <60m (32t to <82th) around welland perimeter (4)	Lake Plain Sand Prairi Relict Wet Praires (10
2b. Intersity of stronding land use. Select one or double check and average.	Known occurrence sta
System Low. And grown or ober lotes, praint, savariant, moint atte, ttt. (1)  Low. Old field (>10 years), ahub land, young second growth forest. (2)  CALONDED XTD V LHCH Reclanding forced restricts and vocasoration tillane new fellow field (3)	Category 1 Wetland.
MODELY EL I TIGHT, I Association is not operated in additional industrial, operatory (III). URban, industrial, oper pasture, row cropping, milling, construction, (1)	1 24   24   metric 9: 1 min
Metric 3. Hydrology.	max 20 pts. subtotal 6a. Wetland Vegetation Commu
3a. Sources of Water. Score all that apply.	Aquatic bod
vater (5)	Shrub
Necipitalism (1)   Necipitalism (2)   Necipitalism (2)   Necipitalism (2)   Necipitalism (2)   Necipitalism (3)   Necipitalis	
) (5) 3d. Durati	Mudflets Open water
Notational water default content only one can coordinate and social soci	6th horizontal (ylan view) Interes
	Select only one.
3a. Modifications to natural hydrologic regime. Score one or double check and average.	High (5)
	Moderate (3)
Recovering (3) Ille 19 All Reconstruction or	Moderately low (2)
demonstrator defining defining chicago	None (0)
Motric A Habitat Alteration and Developm	6c. Coverage of invasive plants. to Table 1 ORAM long form for li
	or deduct points for coverage
max 20 ph. wobsteal 4a, Supplicate disturbance. Score one or double check and average.  None or none apparent (4)	Moderate 25-75% cove
3 X Recovered (3)	Sparse 5-25% cover (-
Recent for no recovery (1)	Absent (1)
	6d. Microtopography. Sone all present using 0 to 3 so:
Very good (6)	Vegetated hummucks/
	Coarse woody debris

WETLAND 14

13-848-07418-05 Date: 07-1/12

Rater(s): BAO, JC, Ah

WETCAND CH

ORAM v. 5.0 Field Form Quantitative Rating Site: AEP JOH- FIRE

W-840- 07/112-05

Date: 07-11 13

| Rater(s): 仔#る, いこ, みら ORAM v. 5.0 Field Form Quantitative Rating

Wetlands.

s indicated.

stary wetland-unrestricted hydrology (10) stary wetland-restricted hydrology (5)

ies (Oak Openings) (10)

## ommunities, interspersion, microtopography. stre/ederal threatened or endangered species (10) songbird/water fowl habitat or usage (10) See Question 1 Qualitative Rating (-10)

Vegetation Community Cover State

0 Absent or comprises - Citha (0.2471 acres) contiguous area

1 Present and either comprises small part of welland's

1 wegetation and site or moderate quality, or comprises a

significant part but is of two quality

2 Present and either comprises significant part of wetland's

vegetation and is of moderate quality or comprises a small part and is of high quality.

Present and comprises significant part, or more, of wetland's

Narrative Description of Vegetation Quality
low | Low spp diversity and/or predominance of nonnative or

vegetation and is of high quality

. Refer ist. Add

Any approvate yarding inclination of notingare of disturbance lotered ratifies process.

Native stp are dominant component of the regulation, although normative and/or disturbance tolerant native sporting an also be present, and species diversity moderate to moderately thigh, but generally who presence of rare threatened or entempered spp.

A predominance of native species, with normative spp backers and high spp diversity and often, but not shaken; and high spp diversity and often, but not shaken; the presence of rare, threatened, or endangered spp.

sr (-5) ver (-3) (-1) over (0)

| Mudflat and Open Water Class Quality | Absent -0, the 10,247 sizes | Low 0,1 to <1 ho (247 sizes ) | Low 0,1 to <1 ho (41 kg 12 47 sizes ) | Moderate 1 to <4 kg 12 47 to 9.88 arrer | 3 High 4ha (9.88 sizes ) or more

| Negary absent < 27% | Absent (1) | Absent (1) | Absent (1) | Gd. Microtopygraphy. Soco all present using 0 to 3 scale of Operation of Operating of Operating Operati

[...]

Present very small amounts or if more common of marginal quality
Present in moderate amounts, but not of highe
quality or in small amounts of highest quality
Present in moderate or greater amounts

Microtopography Cover Scale

strub/saping removal herbaceus/squalic bed remore sedimentation dredging farming farming nutrient errichment

last revised 1 February 2001 jim

Subtotal this page

40.

Cool (5)

Moderately good (4)

Felit (3)

Poor (1)

A. Habka alteration. Score one or double check and average.

Mone or none apparent (9)

Recovered (6)

Recovered (6)

Recovered (6)

Recovered (6)

Recovered (7)

Recovered (8)

Recovered (9)

End of Quantitative Rating. Complete Categorization Worksheets.

# W- 600 04/11/12-02

# WETLAND 15

WETLAND DETERMINATION DATA FORM - Midwest Region

W- bas Of/11/12-07

WITCHNO15

Samping Point.    Confirm the absence of indicators.	Indicators for Problematic Parameter.  Coast Praine Redox (A16)  Date Surface (S7)  Iron-Manganese Masses (F12)  Very Shallow Dark Surface (F17)  Oher (Explain in Remarks)  Indicators of hydrophytic vegetation and welland hydrogon must be present, unless disturbed or problematic.	Hydric Soil Present? Yes No	Secondary Indicators (minimum of two required)  Surface Sold Cracks (BB)  Varianage Patterns (B10)  Dry-Season Water Table (C2)  Crayfiab Burrows (C3)  Stuffed on Areia Imagery (C9)  Stuffed on Stressed Plants (D1)  Stuffed or Stressed Plants (D1)  R FAC-Meutral Test (D5)	Wetland Hydrology Present? Yes No
Comparison   Continued   Con	Sandy Gleyed Matrix (S4) Sandy Redor (S5) Singhed Matrix (S4) Loamy Matrix (S5) Loamy Matrix (S7) Depleted Matrix (F2) Perfect Matrix (F2) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Dark Surface (F7)		ired; check at that apply)  Water-Stained Leaves (B9)  Aquatic Fauns (B13)  True Aquatic Piants (B14)  Widered Rhizeospheres on Living Roots (C3)  Oxidized Rhizeospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Thin Muck Surface (C7)  (C6)  (C7)  (C7)  (C8)  (C8)  (C9)	Field Observations: Yes No X Depth (inches):
SOIL Profile Description: (Describe to the dep Posch (Inches)    Dorph	Hydro Soil Indicators: Historo (A1) Historo (A1) Historo (A1) Back Historo (A2) Back Historo (A2) Shadoo Machine (A3) Shadifled Layers (A3) Zon Mack (A1) Thick Dark Surface (A1) Shadow Mucky Mereni (S1) Sandy Mucky Mereni (S1) Sandy Mucky Mereni (S3)	Reproduce Layer (in Oseaveo):  Type: Corout   Depth (inches):    + Remarks:  HYDROLOGY	Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check at that apply)  Eastraction (A3)  Water State (A1)  Aquatic Fauna  Saturation (A3)  Water Marks (B1)  True Aquatic Fauna  Water Marks (B1)  Oddised Phire  One Deposits (B3)  Agai Mar or Crust (B4)  Agai Mar or Crust (B4)  Inno Deposits (B3)  Recent from Recent Inon Relation Rel	Field Observations:  Vacantico Water Table Present?  Valet Table Present?  Saturation Present?  Pes 1  Concluse spelling things)  Describe Recorded Data (stream gauge, mo  Remarks:    \to privacrification   1 \to

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US Army Corps of Engineers

vo l	Site: HEP JUH- 1410C	woodeal mat page woodeal mat page and mat page and material S. Si	max 10 ph. subcost Check all that apply at Bog (10)	Old growth Mature fore	Lake Erie or Lake Plain 8 Patiet Well 1 Repliet Well 1 Repliet Well 1	Category 1	mex 20 pts. subbodal 6a. Wetland Vegetation	Aquaic bed	Open water  One water  Other one of the other one of the other one of the other one of the other	2 Moderately Moderately Moderately Moderately Money Mo	to Table 1 ORAM long or deduct points for co	Editative > Control   Cont	1 m	48
AR Rater(s): BAD, JAC Date: 07/11/10-	Metric 1. Wetland Area (size).	Select one size class and assign score.  5.50 acres (>20.2ha) (6 pts)  21 to -6.0 acres (1.1 to -2.0 Zha) (5 pts)  10 to -2.5 acres (4 to -10.1 tha) (4 pts)	3 to <0 acres (1/2 to <4ha) (3 pts)  [0.3 to <3 acres (0/1.5 to <1/ha) (2pts)  [0.1 to <3.3 acres (0.04ha) (0 pts)  [0.1 to <0.3 acres (0.04ha) (0 pts)	Metric 2. Upland buffers and surrounding land use.	WIDE. Buffers average 50m (1944) or not so count with the source of the	VERY LOW, 2nd growth or otder forest, prairie, sevenansh, widths area, etc. (7) LOW. Old field (>10 years), shrub land, young second growth forest, or off years, shrub land, young second growth forest. (8) MODERATEY HIGH. Residential, fender gleature, park, conservation fillage, raw fallow field. (3) MIGHERATEY HIGH. Residential, fender gleature, park, conservation fillage, raw fallow field. (3)	Metric 3. Hydrology.	Source of Water. Score all that apply.  3b. Connectivity, Score in that apply.  1b(a) by grant foodplain (1)  Other gourn/wester (3)  Other gourn/wester (3)  Seaconal/Intermittent surface water (3)  Seaconal/Intermittent surface water (3)  Part of wester/wester (4)	Petermila strates over (alse or stream) (s)   34. Durgion hundstockaturation. Score one or dot chock.   Magnium water days created assign score.   Samuel to permanently introductisaturated (s)   Ambrillation of the control of the	None or none apparent (12)   Check all disturbances observed   None or none apparent (12)   Check all disturbances observed   None or no recovery (1)   district   Check all disturbances observed   None or no recovery (1)   district   Check all district   Chec	Metric 4. Habitat Alteration and Development.	Substrate disturbance. Score one or double check and average.    Name or more apparent (4)   Recovered (2)   Recovering (3)   Recovering (4)	on. Score one or double of the control of the contr	toxic pollularits nutrient errichment
Site: Act Jun-Kirk	Met	subtotal		5 7 Met	25 - 63	<u> </u>	(2   (9   Metr	s. subtotal 3a.			8 27 Met	7 (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	6 N 14 N	subtotal this page

Vegetation Community Cover Scale

O Abzerior conceptioses 4C1 his (0.2471 acres) contiguous area

Present and either comprises small part of weland's

vegetation and set of moderate quality, or comprises a

significant part but is of low quality

Present and either comprises significant part of welland's

vegetation and of set moderate quality

persent and of the moderate quality or comprises a small

part and is of high quality

Present and comprises significant part, or more, of wetland's although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high. Jut generally w/o presence of rare theselmend or exclusioned ago. A predominance of native spocies, with normative spop and/or disturbance tolerant native spo absent or virtually absent, and high spo th Date: 071/12 Narrative Description of Vegetarion Quality
| Low pop diversity and/or predominance of normalive or disturbance beforen trailve species | disturbance beforen trailve species | mod | Native spp are dominant component of the vegetation, lant communities, interspersion, microtopography. Protect very small smouths or if more common of marginal qualify.
Present in moderate amounts, but not of highest quality or is small amounts of highest quality or is small amounts of highest quality.
Present in moderate or greater amounts and of highest quality. | Mudflat and Open Water Class Quality | Absent <.\(\), file (0.247 acres) | Low 0.1 to </th>

 1 Low 0.1 to 
 Low 1.0 to 

 2 Moderste 1 to 
 4th (2.47 acres) | Absent 

 2 Moderste 1 to 
 4th (2.47 to 9.88 acres) or more

 3 High 4ha (9.88 acres) or more
 vegetation and is of high quality Rater(s): 1900, 12 1960 Prairies (10) mirrarco state/beforal threatened or endangered species (10) migratory songbirdweter fowl habitat or usage (10) Wetland. See Question 1 Qualitative Rating (-10) Aicrotopography Cover Scale
0 Absent sted wetland (5)
coastalitributary wetland-unrestricted hydrology (10)
coastalitributary wetland-restricted hydrology (5)
Sand Prairies (Oak Openings) (10) pecial Wetlands. ing 0 to 3 scale.
I hummucks/fussucks
oody debris > 15cm (6in)
dead > 25cm (10in) dbh
n breeding pools nd score as indicated. coverage >75% cover (-5) 25-75% cover (-3) 25% cover (-1) sent <5% cover (0) sive plants. Refer ion Communities. ng 0 to 3 scale. ew) Interspersion forest (10) high(4) low (2) ORAM v. 5.0 Field Form Quantitative Rating

N-840-071112-07

PETLAND15

W-BAO-071112-07

ORAM v. 5.0 Field Form Quantitative Rating

End of Quantitative Rating. Complete Categorization Worksheets.

last revised 1 February 2001 jim

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Case No(s). 12-2519-EL-BLN

Summary: Letter of Notification and Attachments for Kirk-Jug 138 kV Circuit Project (Part 9 of 12) electronically filed by Erin C Miller on behalf of AEP Ohio Transmission Company, Inc.