APPENDIX A

DELINEATED WETLAND FORMS

	11211	15-401 /10/2012-1
1 /1000	WELLY TO	WET! AND DETERMINATION DATA FORM - Midwest Region

releasible JUS SLOW to Kirk 138 kV City/County LICKLOG Co. Sampling Date: 10 Supplies 10 Sty 2012.	Section, Township, Rar		40.073554 Long: -82,749557 Datum.	NWI classification: Llora-	the climatic I hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks) (2014-14); Survivier-	10, or Hydrology 10, significantly disturbed? Are Normal Circumstances' present? Yes X No	. or Hydrology . W_ naturally problematic? (friaeded, explain any answers in Remarks.)	
rojectisie: Jus Street to Kirk 13	nvestigator(s): M. Thonsayer, B.OHO	andform (hillslope, terrace, etc.); PriceCe.	Slope (%): Lat: 40. 07355 4	Soil Map Unit Name:	are cimatic / hydrologic conditions on the site typical for	vre Vegetation A), Soil W, or Hydrology A, significantly disturbed?	re Vegetation W, Soil W, or Hydrology W naturally problematic?	

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

										-					_		<u>.</u>			_			_	_
Area Yes No	TOWN that appears to possibly			Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	Total Number of Dominant Species Across All Strata: (8)	Percent of Dominant Species That Are OBL, FACW, or FAC. (A/B)		Total % Cover of Multiply by	14	FAC species x3=	FACU species x4=	x5= /	Column Totals: 2 + 5 (A) 285 (B)	Prevalence Index = B/A = . 4	Hydrophytic Vegetation Indicators:	1 - Rapid Test for Hydrophytic Vegetation	2 - Dominance Test is >00% 3 - Prevalence Index is <3.0¹	4 - Morphological Adaptations' (Provide supporting	data in Remarks or on a separate sheet)	Problematic Hydrophytic Vegetation (Explain)		Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.	Hydranhytin	Vecetation
is the Sampled Area within a Wetland?	within existing 1000			Dominant Indicator Species? Status			2 = Total Cover					Total Cover	ysj. fAcw		WELL FACEN	780	200 000		N° 62C	760 086	h- 086	Jack State Cover Obl	1,00	
2 2 2	within	Or Voyant P.		Absolute % Cover			0					0	06	70.	2	M.	0/0	15	15	35	52	25	30	
Yes Yes	PEM wetterd		ames of plants.	ĵ								,	Ì	- Lusur	double Hech		in Soloting un coloradin		Persicante	(Spy.rieck			COLLY STATELY	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Remarks: Incor PEW	Act as a diamege	8	Tree Stratum (Plot size:	3.	4,	Sapling/Shrub Stralum (Piot size:	1. No.e.	3.	4.	5.		1. Carek woldingiden	1		10066	5. NOSen D NITHORN OF	Junes e	Polygonum	8. Gill linida	ion c	11. Rice at scent	seekse.	

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Sampling Polht: 1/0/2012-7	ice of indicators.)	Bonnella	lag			*Location: PL=Pore Lining, M=Matrix.	ndicators for Problematic Hydric Soils3:	Coast Prairie Redox (A16)	Dark Surface (S7)	Iron-Manganese Masses (F12)	Very Shallow Dark Surface (TF12)	Other (Explain in Remarks)			indicators of nydrophytic vegetation and	weiland nydrology must be present, unless disturbed or problematic		>	Hydric Soil Present? Yes No	
	rm the absen	Toytun	5/1/4		-	Local	Indicato	8 	Dari	lron	\ Ke	8		Market	Indicat	Men	_		Hydric S	
	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	Color (molet) % Typa* 1 cg*	DY84/6 10 PM M	-		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)	C Depleted Matrix (F3)	Kedox Dark Surface (F6)	Defined Dark Surface (17)	Nedox Depressions (FO)				
SOIL	Profile Description: (Describe to the de	(inches) Color (moist) %	1/6 8/11 3	PRESENTAL MARRIADES OF SERVICES OF SERVICE		Type: C=Concentration, D=Depletion, RM	Hydric Soil Indicators:	Histosof (A1)	Hislic Epipedon (A2)	Black Histic (A3)	Hydrogen Sulfide (A4)	Stratified Layers (A5)	2 cm Muck (A10)	Depleted Below Dark Surface (A11)	Illica Daix Suriace (A.I.Z.)	5 cm Mucky Peal or Peat (S3)	Restrictive Layer (if observed):	Type:	Depth (inches):	Remarks:

HYDROLOGY Wetland Hydrology indicators:

Primary Indicators (minimum of one is required; check all that apply)	eck all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (89)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	X 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) 	 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	
Field Observations:		
Surface Water Present? Yes No	Yes No Depth (inches):	
Water Table Present? Yes No X	Depth (inches);	>
Yes	No X Depth (Inches): Wetlan	Wetland Hydrology Present? Yes 🔨 No
(includes capillary fringe)	, .	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	g well, aerial photos, previous inspections), if a	vallable:
Remerks A signs of Propletogy are correctly useds, it is appearent that the supported is a convey once to make when when a down to enthe	are corrently useck, it is	apperent that

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	ORAM v. 5.0 Field Form Quantitative Rating Site: Size Show to kink [38]			max rupes. serones Check all this apply and the company of the com	Lake Effe coast Lake Plan San Lake Plan San Relict Wer Prait Relict Wort Prait Significant mage Significant mage Category I Wet	4	Aquatic bed Rheight Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull Shull	6.h. horizontal (plan view) Salect only one Salect only one Moderately high	(1) Moderate (3) Moderate (3) (1) (10w (1) (2) Mode (1) (3) Moder (1) (4) Moderate (3) (5) Coverage of Invasive (6) (6) Coverage of Invasive (6) (6) Table 1 ORAM long fon	or deduct points for coven Charles > 756 Moderate 2-25% X Sparse 6-25% of Anna Anna Anna Anna Anna Anna Anna Ann	64. Microtopography. Soore all present haling 01 1 Vegetaked haling 01 C Coarse woody of 05 O Standing deed 04 Amphiblian bree	33 Gelegery 2
ORAM v. 5.0 Field Form Quantitative Rating WE L V V V J	Site: Jun Strapt to kirk 138 W Rater(s): M. Malliner, B. O. M. U.R.S Date: 10 July 2012	/ / Metric 1. Wetland Area (size).	max 6 ptt. stateboal Select tope size cases and assign accord. So to access 20 access 20 20 acces (>20 20 a) (6 pts) So to >20 acces (>20 20 acces (>20 20 a) (6 pts) 10 to >20 acces (>20 acces (>	/ Act to cd.3 acres (0.74 to cd.2mg) (2.78) / Xe/1 to cd.3 acres (0.74 to cd.2mg) (1 ph) Act taces (0.04mg) (0 ps) / Metric 2. Upland buffers and surrounding land use.	The state of the content of the state of t		nau 30 pk. subtata 28. Sourges of Water. Score all that apply. Might play foroundwater (5) Physician (1) Physician (1)	louble check and sobserved		30 Word 4 Substitute distributions Score one or double check and average.	4b. Habitat development. Select only one and assign score. Continue Cont	Some of the control o

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ORAM v. 5.0 Field Form Quantitative Rating

WETLANDI

12-4047/10/2012-1 Off, URS Date: 10 July 2012 nt communities, interspersion, microtopography. Rater(s): Al. Thousayer, B. Offic ires (10) ince state/federal threatened or endangared species (10) ratory sorgibird/water fowh habitat or usage (10) island. See Question 1 Qualitative Rating (-10) al/tributary wetland-unrestricted hydrology (10) al/tributary wetland-restricted hydrology (5) d Prairies (Oak Openings) (10) cial Wetlands. score as indicated. Communities. to 3 scale. wetland (5) 3.45

 Vegetation Community Cover Scale
 Absent or comprises c4.1ha (0.2471 acres) configuous area
 Present and other comprises c4.1ha (0.2471 acres) configuous area
 Present and other comprises can part of wettend's vegetation and visit of the cycle of the comprises a significant part but but is of the cycle of the comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality. vegetation and is of high quality / Interspersion.

Narrative Description of Vegetation Quality

low (Low spo Avesty and/or predictionance of normative or disturbance beform that species

mod (listurbance beform thative species)

mod (Native spp are dominant component of the vegetation, although normative and/or disturbance beform halive spp can also be present, and species diversity moderate to moderately high, but generally who presence of rare threatened or endangered spp with the presence or native species diversity and off are and/or disturbance lolevalt native spp absent or vitually absent, and high spp diversity and offer, but not always, the presence of rare, threatened. plants. Refer m for list. Add 5% cover (-3) cover (-1) <5% cover (0) cover (-5) h(4) (2)

0 to 3 scale. mmucks/tussucks / debris >15cm (6in) 1 >25cm (10in) dbh seding pools

| Mudflat and Open Water Class Quality | Absent -Q.1 ha (0.247 acres) | 1 | Low 0.1 to <fh of (0.247 acres) | 1 | Low 0.1 to <fh of (247 to 2.47 acres) | 2 | Moderate 1 to <fh of (247 to 9.88 acres) | 3 | High 4ha (9.88 acres) or more

Microtopography Cover Scale
0 | Absent

Present very small amounts or if more common of marginal quality bearent in moderate amounts, but not of highest quality or in small amounts of highest quality or in small amounts of highest quality. and of highest quality

End of Quantitative Rating. Complete Categorization Worksheets.

last revised 1 February 2001 jlm

WETHENDS

10-BAO-041012-0(

WETLAND DETERMINATION DATA FORM - Midwest Region

ChylCounty: Licking Specials Sampling Date: CO410 L2.	whethip, Ranger. Local relief (concave, convex, none): Cenckpur S2 7-472-47 NW datasification: "N/a X No (If no, explain Remarks.) Are 'Normal Circumstancs' present' Yes X No (If needed, explain any arswers in Remarks.) (If needed, explain any arswers in Remarks.)	No within a Westland? Yes X No SER No SER STREET HAT HRUITS A STREET INS.	Dominance Tost vorksheet Number of Dominant Species This Are OBL, FACN, or FAC. Total Number of Dominant Species Across Al Strata: (8)	", FACW, or FAC and a worksheet a poer of the poer of	Upl. species Column Totals: 10 2 4 6 1 Prevalence Index = BM = 1 1 1 Hydrophyliv Vegetation indicators: X 1 - Rapid Test for Hydrophylic Vegetation X 2 - Deminance Test is 500's X 3 - Prevalence Index is 53.0' 4 - Morphylogical Adaptations' (Provide supporting data in Remarks or on a separate sheet) — Problemanic Hydrophylic Vegetation' (Explain)
Clty/County: Lic	Section, Township, Range. Local relief (conton): Long: -82 7-47. Are Non disturbed Are Non blematic (If reede. Isampling point local	Is the Sampled Area within a Wetland? Transmission (55,ep.) Rec	Species? Status	= Total Cover	Total Cover 19 19 19 19 19 19 19 19 19 19 19 19 19
roject/Site: ACP JUH-KIRK 138 KV	Formon, etc.; Lett. L/D, O.7.311.3 e	Yes X Yes X Yes X Currery W// Depted That	Tree Stratum (Plot size:) % Govern	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	1. Juncus Cerevisco 30 1. Juncus Cerevisco 30 2. Chaese Loste e 30 2. Chaese Loste e 30 4. Deale Leste Markey 1-5-14-11 clauses 5 5. Teurical Laborator 20 5. Teurical Laborator 30 7. Teurical Labo

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the absence of indicators.) Texture Remarks	P. Comitor D. Elona Lista Malastic	Indicators for Problematic Hydric Soils?:	Coast Prairie Redox (A16)	Dark Surface (S7)	Very Shallow Dark Surface (TE12)	Other (Explain in Remarks)			Indicators of hydrophytic vegetation and	wetland hydrology must be present, unless disturbed or problematic			Hydrac Soil Present? Yes X. No	
Troffle Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators, by the second Matrix Redox Feature Redox Feature Redox Feature Redox Feature Color finalist Redox Feature R	Bottowel Barin M.SBasked Sand Crains	Treduced Maily, Inc. Missage Calle Claims.	Sandy Gleyed Matrix (S4)	Sandy Redox (S5)	Loamy Mucky Mineral (F1)	Loamy Gleyed Matrix (F2)	Depleted Matrix (F3)	Redox Dark Surface (F6)	Depleted Dark Surface (F7)	Kedox Depressions (Fd)	William Co.			
Profile Description (Describe to the dept) Depth Matrix Color (moles) C	Theory Carlosophide Parachelin Blabbring Hair McLabasked Sand Chiba	type: C-Concentration, D-Deprendi, formally drift Soil Indicators:	Histosol (A1)	Histic Epipedon (A2)	Black Histic (A3) Hudronen Stiffele (A4)	Stratified Layers (A5)	.2 cm Muck (A10)	Depleted Below Dark Surface (A11)	Thick Dark Surface (A12)	Sandy Mucky Mineral (S1)	Restrictive Layer (if observed):	Type:	Depth (inches):	kemarks:

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) Sur	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	X Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14) Dry	Dry-Season Water Table (C2)
	Crayfish Burrows (C8)
Sediment Deposits (B2) X. Oxidized Rhizospheres on Living Roots (C3) Sai	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stu	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent fron Reduction in Tilled Soils (C6) X Ge	★ Geomorphic Position (D2)
Iron Deposits (B6) Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (87) Gauge or Well Data (09)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	-
Field Observations:	
Surface Water Present? Yes No _X_ Depth (inches):	
Water Table Present? Yes No 🚣 Depth (inches):	
Yes No X Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring wel, aerial photos, previous inspections), if available:	
Remarks:	
Due to Drey Conditions THE HYDROLOGY OF WESTAND NOT AS STRONG AS NORMAL	Trenc, AS NOEMAL

'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

185 = Total Cover

Woody Vine Stratum (Plot size: 1. NoU€

Hydrophytic Vegetation Present?

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COET/4200 2	Botov(c):		Metric 5. Special Wetlands. Check all that apply and score as indicated.	Old growth forest (10) Mature foreste welland (5) Mature constellaributary welland -unrestricted hydrology (10) Lake Eric constellaributary welland-enstricted hydrology (5) Lake Pelin Sand Praines (Oak Openings) (10) Relict Welt Praines (10) Reform cocurrence stale/ederal threatened or endangared spacies (10) Known cocurrence stale/ederal threatened or endangared spacies (10) Significant intigratory schiptifulcate from habitator usage (10)	ant communities, inte	Aquatilo bad Present and either comprises small part of wegetation and is of moderate quality, or or significant part but is of frow quality. The protect of the protec	Select only one. Narrative Description of Vegetation Quality High (s) Iow Low spp diversity and/or predominance of rate make species	ga from for list. Add high A 75% cover (-6) 25-75% cover (-6) 25-75% cover (-1) 25-75% cover (-1)	A Absent (1) Mudflet and Open Water Class Cuality	Present very small amounts or if more comm Present very small amounts or if more comm Of marginal quality
Confidence Comment Library	Site: Acts 126	Her Park	78			rr €		ord ord	98 A	C4-1
13- BAO- OFFOR-01				bunding land use. score. Do not double check elland perimeter (7) 1) accurd welland perimeter (4) 1) accurd welland perimeter (1) and welland perimeter (1) and welland perimeter (1) constructed and average. (9)	ag growth treet; (1); skt, conservation (lisps, new fallow field, (3) mining, construction. (1)	Connectivity. Score all that spoly. Moyer floor better floor better human use (1) And the street floor flo	Ng U	evelopment.		observed shrubkaping removal herbaseouskaqualic bed removal sedimentation dredging farming oval farming the sediment the sediment sericity and sediment sericity sediment sericity sediment sericity sediment sericity sediment sericity sediment sericity sediment sedi
Quantitative Rating	24 138 12V Rater(s): Bao, War	Metric 1. Wetland Area (size).	Select one size class and assign score. —550 leaves (2AZ, 2MH) (p. las.) —550 leaves (10.1 las.) (2.0.4) —10 leaves (10.1 las.) (4 las.) —10 leaves (1.1 las.) (4 las.) —10 leaves (1.2 las.) (1 las.) —10 leaves (1.2 las.) (1 las.)	0 0	Clow Out field (*) Upvers), shinli land, youngescond growth (retest (5) WODERSATEY HIGH. Residential, fenced pasture, park, conservation tilege, new fallow field, (3) Metric 3. Hydrology.	Sources of Water. Score all that apply. High plt groundwater (5) Cher groundwater (3) Foredistalden (1) SeasonalIntermitent surface water (3) Perennial surface water (lake or stream) (5) Maximum water depth. Select rafy one and ssigin street Control (27, final (3))	No X	Metric 4. Habitat Alteration and Development. 4a. Substate disturbance. Score one or double check and average. None or none apparent (4) Recovered (3) Recovering (2)		Habitat alteration. Score one or double check and average. Wone or none apparent (9) Check all distrutances observed Recovered (6) Signature (7) Selective cutting Recent or no recovery (1) Selective cutting Woody debris removal
ORAM v. 5.0 Field Form Quantilative Rating	Site: AEP Jun- KIEN	0	max 6 pds. sublotal Sel	S S max 14 pts. subbosal 28.	# N S	max 30 pts. subboted 3g.	8 H	max 20 pts. subcoolal 4q.	₫ v	4c. Habbe

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can also be present, and species diversity modimizate to moderately fight, but generally wito presence of rare trreatened or enfangened spp.

A predominance of native spacies, with normative spp. and/or disturbance beform traillers post absent or witnessity and substructure of the spirit of the spirit of the spirit and high spirit disturbance behaving, the presence of rare, threatened, or endangered spp. although nonnative and/or disturbance tolerant native spp Date: 07/0/2 Narrative Description of Vegetation Quality

low Low ppp diversity and/or predominance of normative or
disturbance tolerant native species

mod Native step are dominant component of the vegetation, Metric 6. Plant communities, interspersion, microtopography. 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 Absent Present very small amounts or if more common Mudflat and Open Water Class Guality

| Absent 40, fina (0.247 acres) |
| Low 0.1 to c1he (0.247 acres) |
| Low 0.1 to c1he (0.247 acres) |
| Abdersale 1 to -4he (2.47 to 8.88 acres) |
| High 4he (8.88 acres) or more Rater(s): BOND W. THOMAYER and of highest quality Known occurrence state/ederal threatened or endangered species (10)
Significant migratory sonybird/water fow habitat or usage (10)
Category 1 Wetland. See Question 1 Qualitative Rating (-10) Microtopography Cover Scale Metric 5. Special Wetlands. Score all present using 0 to 3 scale.

Vegetated humanuckatussucks
Coates woody debre > 15m (6in)

Same and Standing deads > 25m ((in) deh Low (1)

Coverage of Invasive plants. Refer
to Table of TORAM brog from for list. Add
or deduct; points for coverage
Extensive >75% cover (-5)
Spanse 6 25% cover (-1)
Spanse 6 25% cover (0)
Amany absent <5% cover (0)
Assent (1)
Assent (1) 6a. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.
Aquatic bed
Aquatic bed
Score all Schools b. horizontal (plan view) Interspersion. Select only one.

High (5)

Moderately high(4)

Moderate (3)

Moderate (3) - KIRK

10. Bro. 070012-01

WETLAND 2

WETLAND &

ORAM v. 5.0 Field Form Quantitative Rating

WELLAND 3

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12-61-07-048-61	
1	WETLAND DETERMINATION DATA FORM - Midwest Region

City/County: Licking County Sampling Date: 07:1018-	Section, Township, Range:	Long: -82, 346988 Datum:	NWI classification: N/G	s K No (If no, explain in Remarks.)	ed? Are 'Normal Circumstances' present? Yes 🔀 No	ic? (If needed, explain any answers in Remarks.)
ProjectiSite: AEP しかーバスス /36 12リ CitylCou Applicant/Owner: Ref	10x	Landrom (hillslope, terrace, etc.): T565-0F94C Stone (%): Lat: 4/0, O72-9/9/6	lame:	Are climatic / hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)	Are Vegetation D., Soil N, or Hydrology N significantly disturbed?	Are Vegetation . Soil N. or Hydrology P. naturally problematic?

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	YesK_ No	is the Sampled Area within a Wetland?	Yes K No
Remarks: For Were HAD THAT 1	S WIN EXISTING	emarka: Profile versions that is with Existinity Treansmission Rows & Alaupas Streetme	ABUTTS STREETIN
Y AREA CONDI	* Aller Coutrings are Dies was the Norman A	A TANGON A	

VEGETATION - Use scientific names of plants.

1	Absolute		Dominance Test worksheet:
Troe stratum (Prot size:	% Cover	opecies/ orang	
			That Are OBL, FACW, or FAC: (A)
X	-	-	Total Number of Cominant
3.			Species Across Al Strata: (8)
/			
8			Percent of Dominant Species That Are OHL FALW or FAC:
		= Total Cover	
Sapling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
\			Total % Cover of: Multiply by:
			OBL species 72 x1= 72
\ \ \			FACW species 25 x2= 50
/			FAC species /0 x3= 30
,			FACU species x 4 =
		= Total Cover	UPL species x5=
Herb Stratum (Plot size:			Column Totals: 10 \$ (A) 152 (B)
1. CHREX LUXION	200	790	111
2. BONGS ET	2	200	Prevalence Index = B/A = /- Y-Z
3. BLUE VETERANE	15	RACIA	Hydrophytic Vegetation Indicators:
4. NUNCUS +FFUSES	30	784	1 - Rapid Test for Hydrophytic Vegetation
5. CAREN INNUMBERRY	2	TACO	2 - Dominance Test is >50%
FLUTHING PHILKLINED	20	740	3 - Prevalence Index is s3.0'
POLY (FLOWING PENSY) MAKESUN (PROFILE)	15 (m. v.)	CACW	4 - Morphological Adaptations* (Provide supporting
B. MAREX Tribulaides	ýC	285	data in Remarks or on a separate sheet)
9. G CHS 5 P.	6/	787	Problematic Hydrophytic Vegetation* (Explain)
10.		-	
Woody Vive Stratum (Plot size:	70	= Total Cover	'Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
1			Medicontrol
25			Nydrophytic Vegetation
		= Total Cover	Present? Yes No No
Remarks: (Include photo numbers here or on a separate sheet.)	sheet.)		

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SOIL

W-040-04100-02	Sampling Point:
Werestino 3.	\

Type: CnConcentration: Displacion, RivierCoulousd Matrix, MS-Massed Sund Crains. *1-ceasing. Place Lining, Mandardt. Higher Soli Indicators for Problematic Ryler Solidor. High Ryler Soli Indicators for Solidor Ryler Solidor. High Ryler Soli Indicators for Ryler Ryler Ryler Solidor Ryler Ry	Annuaries Commission Comm	Management of the Party and Party an	1		DAK C/ O		No.	<u>.</u>	Sidelling town	
Action Compension Compens	Annuaries Annu									
Canada California Canada California Canada California Canada California Canada Can	Act Coast Prairie Redox (A16)	Type: C=C	oncentration, D=De	ppletion, RM:	-Reduced Matrix, A	MS=Masked	Sand Grain	136	*Location: PL=Pore Lining, Indicators for Problematic P	M≖Matrix. lydric Soils³:
Sandy Redox (\$5)	Sandy Redox (\$5)	Histosol	(A1)		Sandy	Gleved Mat	trix (S4)		Coast Prairie Redox (A16	
(As) Stripped Matrix (P)	A	Histic Ep	ipedon (A2)		Sandy	Redox (S5)			Dark Surface (S7)	
Judice (A4)	Justice A4	Black Hi.	stic (A3)		Stripp	ed Matrix (St	(9		Iron-Manganese Masses	(F12)
A(10)	A(10)	Hydroge	n Sulfide (A4)		Loam	y Mucky Min	eral (F1)		Very Shallow Dark Surface	ze (TF12)
Annie Complete March (27)	A(0) Coptend Mark (75)	Stratified	Layers (A5)		Loam	y Gleyed Mai	Itrix (F2)		Other (Explain in Remark	s)
Peat or Peat (53)	Peat or Peat (53)	2 cm Mu	ack (A10)		Deple -	ted Matrix (F	:3)			
Table (A2)	Transferred (57)	Depleted	d Below Dark Surfa	soe (A11)	Redox	c Dark Surfac	ce (F6)			
Hydrocal (23)	Withered (2)	Thick Da	ark Surface (A12)		Deple -	led Dark Sur	rface (F7)		Indicators of hydrophytic ve-	letation and
Hydrogen 1921 1921 1922 1922 1923 1924 1925 192	1 Hydrogen Suffice (C2) 1 Table (A2) 1 Table (A2) 1 The Aquatic Faura (B3) 1 The Aquatic Faura (B13) 1 The Aquatic Faura (B13) 2 Oxdized Rhizosphares on Living Roots (C3) 2 Presence of Reduced Into (C4) 2 The Mark Sufface (C7) 3 S(B2) 4 Hydrogen Sufface (C7) 4 Hydrogen (B2) 4 Hydrogen (B3) 4 Hydrogen (B4) 5 Hydrogen (B4) 6 Hydrogen	- Sandy N	lucky Mineral (S1)	10-0	- Redox	k Depression	18 (F8)		wetland hydrology must b	e present,
1940	9): Capy indicators:	Doetrictive	aver //f observed	(20)					incod to paging equito	ansuc.
Hydrogenest	Hyder	- Contraction	natural in taken							
ogy indicators: 12 iminimum of one is required, check all that apoly) 13 iminimum of one is required, check all that apoly) 143 Adapter Faunta (131) 15 Adapter Faunta (131) 16 (131) 17 Adapter Faunta (131) 18 (131) 19 Adapter Faunta (131) 19 Adapter Faunta (131) 19 Adapter Faunta (131) 19 Adapter Faunta (131) 10 Adapter Faunta (131) 11 Adapter Faunta (131) 11 Adapter Faunta (131) 12 Adapter Faunta (131) 13 Adapter Faunta (131) 14 Adapter Faunta (131) 15 Adapter Faunta (131) 16 Adapter Faunta (131) 17 Adapter Faunta (131) 18 Adapter Faunta (131)	Ogy Indicators: Similarization of the control of t	Type:								
State Stat	ogy Indicators: s (minimum of one is required; check all that spoky) The (A1) — Water Schinded Leaves (B3) Agained Leaves (B3) — The Aquatic Parant (B15) Agained Concase Suffice of Phizospheres on Living Roote (C3) Presence of Reduced Iron (C4) Presence of Reduced Iron (C4) Presence of Reduced Iron (C4) This Mack Suffice (C7) Thi	Depth (inc	ches):							1
ne is resulted Check slithal spoky) — Water-Stained Leaves (88) — Aquate Chara (813) — The Aquatic Planta (814) — Hydrogen Suffice Odor (C1) — Presence on Uning Roots (C3) — Presence of Reduced knor (C4) — Presence of Reduced knor (C7) — Thin Muck Suffice (C7) — Thin Muck Suffice (C7) — Thin Muck Suffice (C7) — Suffice (89) — Other (Explain in Remarks) es — No —— Depth (inches): gauge, monitoring well; aerial photos, previous inspections); if availing and explain the photos, previous inspections); if availing the property of the previous inspections; if availing the property of the previous inspections; if availing the property of the previous inspections; if availing the previous inspections in the previous inspections; if availing the previous inspections is a previous inspections; if availing the previous inspections is a previous inspections; if availing the previous inspections is a previous inspections; if availing the previous inspections is a previous inspection of the previous inspections in the previous inspection in the previous insp	ne is resulted. Check all that anoly) — Water-Stained Leaves (89) — Aqualic Fauna (813) — The Aquatic Plants (814) — Hydrogan Sulfice Odor (C1) — Society Sulfice Odor (C1) — Presence of Reduced inn (C4) — Recent from Reducted inn (C4) — Recent from Reducted inn (C9) — Repth from Reducted inn (C9) — Repth (from Reducted inn (C9) — Surface (83) — Other (Cryptain in Remarks) — Depth (frothes): — Loght (frothes): — Reductions (Reduction): — Reductions (Reductions): — Red	HYDROLO	GY							
Primary Incidence Imminum of both is required, check all that abolt) Secretary Indiantes imminum of two texture and the control of the co	Pointany infections infinitum of loops is required, cheeks (IR) Surface Value (Infinitum of Nove Regil Surface Value (Infinitum of Nove Regil Surface Value (Infinitum of Nove Regil Value (Infinitum of Nove Value (Infinitum of Value (Infinitum	Wetland Hy	drology Indicators							
Surface Water (A1)	Suttine Water (Art)	Primary Indic	sators (minimum of	one is requi	red; check all that	(Aldde			Secondary Indicators (mini	num of two requir
High Water Table (A2)	High Water Table (A2)	- Surface	Water (A1)		Water-S	tained Leave	ss (B8)		Surface Soil Cracks (B	(9)
Sendmarto (A3) Water Marke (B1) Water Marke (B1) Water Marke (B1) Water Marke (B1) Sendman Deposits (B2) Confined Presence of Reduced for (C1) Softman Deposits (B3) Presence of Reduced for (C3) Softman (D2) For the Deposits (B3) For the Deposite (B3) Inn Mark Surface (C7) Inn Deposite (B3) Softman (D2) Inn Mark Surface (C7) Inn Mark Surface (C7) Softman (D2) Softman (D2) Field Observations: Surface Nation (D2) Inn Mark Surface (C7) Softman (D2) Water Table Fresent? Water Table Fresent? We soft (Cx) Softman (D2) Water Table Fresent? We soft (Cx) Softman (D2) We soft (Cx) We soft (Cx) We soft (Cx) Softman (D2) We soft (Cx) We soft (Cx) Softman (D2) We soft (Cx) Softman (D2) We soft (Cx) We soft (Cx) Barrage of Weil (Cx) We soft (Cx) Softman (D2) We soft (Cx) We soft (Cx) Barrage of Weil (Cx) Softman (D2) We soft (Cx) We soft (Cx) Barrage of Weil (Cx) Softman (Cx) We soft (Cx) Barrage (Cx) Barr	Sediment Deposits (82) Water Marke (81) Water Marke (81) Water Marke (81) Sediment Deposits (82) Expectation (82) Confide Oder (81) Expectation (82) Expectation (82) Expectation (83)	High Wa	ster Table (A2)		- Aquatic	Fauna (B13)	_ :		X Drainage Patterns (B1	6
Water Mark (81)	Water Marke (181)	Saturation	on (A3)		True Ag	uatic Plants	(B14)		Lry-Season Water Lat	(e (CZ)
Subfament Deposits (192) Subfament Deposits (192) Agai Mat or Crast (194) Roent from Reduction in Titled Soits (195) Sunded or Steesaed Plants (191) Saparealy Vegetated Concave Surface (193) Sparealy Vegetated Concave Surface (193) Sparealy Vegetated Concave Surface (193) Other (Explain in Remarks) Salurdation Present? Yes No Le Depth (inches): Wetter Table Present? Yes No Le Depth (inches): Wetter Table Present? Yes No Le Depth (inches): Depth (inches): Wettinnd Hydrology Present? Yes No Le Depth (inches): Describe Recorded Dials (stream gauge, monitoring well, aerial photoes, previous inspections), if available:	Submer Deposits (12) Submer Deposits (12) Again Mat or Crust (134) Again Mat or Crust (134) Linin Deposits (13) Submer of Section (10) Again Mat or Crust (134) Freshort of Reduction in Titled Softs (126) Innunderon Valebre on Aerial Imageny (187) Sparreely Vagatated Concave Surface (188) Sparreely Vagatated Concave Surface (189) Submission Present? Ves No X Depth (inches): Saturation Present? Ves No X Depth (inches): Circuldes capitalism Imageny Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	- Water M	arks (B1)		Hydroge	n sulfide Od	(LD) 700	7	I	00,
Annual of Jacobson (12) Ac-Neufral Test (15) Ac-Neufral Test (15) Agg Present? Yes	According Test (DS) Accheufral Test (DS) Accheufral Test (DS) Accheufral Test (DS)	Sedimer	nt Deposits (62)		Condine	renizospiner	d lon (CA)	g Roots (enal imagery (CS)
Ac-Neutral Test (DS) ogy Present? Yes	Ac-Neutral Test (DS)	The Court Del	posits (bb)		Revent	on Reduction	on in Tilled	Solle (CA))	D2)
ogy Present? Yes	ogy Present? Yes	Iron Den	nosits (B5)		Thin Muk	ck Surface (C	C2)		X I	
ogy Present? Yes 🔀	ugy Present? Yes	- Industrial	on Vieible on April	Imagery (B)		r Well Data	(6Q)			
ogy Presont? Yas 🔀	egy Present? Yes 🔀	Spareel	Venetated Concar	ve Surface (xolain in Ren	marks)			
ogy Present? Yes 🔀	egy Present? Yes	Field Observ	vations:		1		-	-		
ogy Present? Yes 🔀	ogy Prosent? Yes	Surface Wat				inches):		_		
ogy Present? Yes 📉	ogy Present? Yes 🔀	Water Table				inches):				
(includes capitlary firings) Describe Recorded Data (stream gauge, monitoring well, aertal photos, previous trapections), if available: Remarks:	(includes septilary firings) Describe Recorded Data (stream gauge, montroring well, aertial photos, previous hispections), if available: Remarks:	Saturation P	resent?	Yes	No X Depth (inches):		Wetla	nd Hydrology Present? Yes	J
Remarka:	Remarks:	(includes cal Describe Re-	pillary fringe) corded Data (streau	m gauge, mo	onitoring well, aeria	il photos, pre	evious inspe	ections), i	available;	
Remarks:	Runarks:									
		Remarks:								

WETLAND 3

ORAM v. 5.0 Field Form Quantitative Rating

Site: Arpwinkiek 139 W

Rater(s): B. Ono, Withinking

Date: 0≯10 ₪

Metric 5. Special Wetlands. Thotal first p 0

Check all that apply and score as indicated.

| Matter forested wethand (5) |
| Matter forested wethand (5) |
| Matter forested wethand (5) |
| Lake Erie coastal/furbulary wetland-earticled hydrology (10) |
| Lake Flain Same Prairies (10) |
| Relict Wet Prairies (10) |
| Known occurrence stablic/forcins threatment or endangered species (10) |
| Known occurrence stablic/forcins threatment or endangered species (10) |
| Significant migratory scropkind-water from habitat or usage (10) |
| Category 1 Wetland, See Question 1 Qualitative Relating (10) |

Metric 6. Plant communities, interspersion, microtopography.

30

6e. Wetland Vegetation Communities.
Score all present using 0 to 3 scale.
Aquatic bed
Approximately a communities. horizontal (plan view) Interspersion.

Select only one.
High (5)
Moderately high(4) Moderate (3)
Moderately low (2)

. 9

Narrative Description of Vegetation Quality
| Low app diversity and/or predominance of normative or disturbance loterent native species | disturbance loterent native species | mod | Native sep are dominant component of the vegetation,

vegetation and is of high quality

Low (1)

Sc. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add

although normative and/or disturbance lolerark tables spocan also be present, and species diversity moderate to
moderately high, but generally wio presence of rare
threatened or endangered spo.

A predominance of native species, with normative spoand/or disturbance lolerar in table spo- patent or virtually
absent, and high spo diversity and often, but not always,
the presence of rare, threatened, or endangered spo.

or deduct points for coverage

| Exterior points for coverage
| Exterior points for coverage
| Noderiae 25/5% cover (-3)
| Sparae 5-25% cover (-1)
| Absent (1)
| Absent (1)
| C. Absent (1)
| C. Absent (2)
| C. Absent (3)
| C. Absent (4)
| C. Absent (4)
| C. Absent (5)
| C. Absent (6)
| C. Absent (7)
| C. Absent (7)
| C. Absent (8)
| C. Absent (9)
| C. Absent (9)
| C. Absent (9)
| C. Absent (1)
|

Present vary small anounts 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 | Mudflat and Open Water Class Quality | Absent -Q./ins (0.247 acres) | 1 | Low 0.11 och at 0.247 acres) | 1 | Low 0.11 och at 0.247 acres) | 2 | Moderate 1 to -d./ins (2.47 to 9.83 acres) | 3 | High 4ha (9.88 acres) or more Microtopography Cover Scale

E.....

Γ....

CMT 8

> subtotal this page last revised 1 February 2001 jim Z

End of Quantitative Rating. Complete Categorization Worksheets.

and of highest quality

19/2/2 Hulo	2-2102/01/2 10H-01
WETURND Y	WETLAND DETERMINATION DATA FORM - Midwest Region

Section, Townships, Park Section, Township, Range. Section, Township, Range. Section, Township, Range. Local relief (concave, convex, none). Local relief (concave, none). Local relief (concave, convex, none). Local relief (concave, none). Local relief (concave, convex, none). Local relief (concave, none). L
--

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

[
	No	Inghal
	Yes X No_	are at a
	Is the Sampled Area within a Wetland?	fields; which
,		by ag.
	Yes No.	surioundad
	Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Remajor FELL wetterd surconaled by ag. tials', which are at a higher elouetion then wetlevel.

ETATION - lies eclanific names of plant

The Stratum (Plot size:	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	4	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)	rksheet:	OBL species 225 x1= 225	2 x3=	FACU species ×4=	297 x5= 231	Column Iotals: (A) (A) (B)	Prevalence Index = B/A = (Hydrophytic Vegelation Indicators:	1 - Rapid Test for Hydrophylic Vegetation	2 - Dominance Test is >50%	3 - Prevalence Index is <3.0'	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 	Problematic Hydrophytic Vegetation (Explain)		Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic	count, unicos paratricos of protections.	Hydrophytic	ent? Yes No
1 SW C C C C C C C C C	Indicator	Total		ì	1 TAC OBI	FAC	1	1.50	780	-		<u>서</u>	Άį	1	1]	17.	98	Hydr	
					64			7	01/7	20	8	100	55	10.	35	2/2	\v		Î	- water-resident management to the second	0

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4	١
7	١
3	1
-	2

n the absence of indicators.)	Texture Remarks	2Location: PL=Pore Lining, M=Matrix.	Indicators for Problematic Hydric Soils ³ :	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	welland hydrology must be present,	unless disturbed or problematic.	`	\geq	Hydric Soil Present? Yes No		
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)		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) Chepleted Matrix (F3)	Redox Dark Surface (F6)	Depleted Dark Surface (F7)	Redox Depressions (FB)						
Profile Description: (Describe to the d	Depth Color (inches) Color (moist) %	1Type: C=Concentration, D=Depletion, R	Hydric Soil Indicators:	Histosol (A1)	Histic Epipedon (A2)	Black Histic (A3)	Hydrogen Sutfide (A4)	Stratified Layers (A5)	Depleted Below Dark Surface (A11)	Thick Dark Surface (A12)	Sandy Mucky Mineral (S1)	5 cm Mucky Peat or Peat (S3)	Restrictive Layer (if observed):	Type:	Depth (inches):	Remarks:	

HYDROLOGY

vetand hydrology indicators:	
rimary 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 Tabte (A2) Aquatic Fauna (B13)	X 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) X Oxidized Rhizospheres on Living Roots (C3)	ts (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) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	X FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
ield Observations:	
urface Water Present? Yes No Depth (inches):	
Valer Table Present? Yes No A Depth (inches):	7
Ves No Depth (inches): Ves No Depth (inches): No	Wetland Hydrology Present? Yes No
rescribe Recorded Data (stream gauge, montroring well, aerial photos, previous inspections), if available:	s), if avallable:
Le field observations of hydrology as a result of In	result of bust
and dry summer Receives Anglology from surrounding an fields	surrounding an fields

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S. O Field Form Quantitative Rading	510: 14 FV 305 to KN/K 158 KV KAURIS 1.46 (MORROYN, B. OHO	enchange from the second from	max 10 pta. subtated Check ell that apply and score as indicated. Bog (10) Fen (10) Old growth forest (10)	Mature forested wetland (5) Lake Ene coastal/tributary watland-unrestricted byrirology (10)		Krown occurrence stalefacteral treatend or endangered species (10) Significant migratory songhictivener fowl habitat or usage (10) Catagory 1 Wetand. See Question 1 Qualitative Reling (-10)	27.5 Metric 6. Plant community	on Communities. Vegetation Co	Aquatic bed 1 Present and either c	Shrub Forest	s ater	3 P	Select only one. Narrative Description of Vegetat	wol	Moderately low (2) mod Native spp are doming although normality X Low (1) mod although normality Annow (n) moderately Moderately	6c. Coversive (v) resive plants. Pefer moderately high; to Table 1 OFBAM form for Eet Add threatment or each	high	Extensive >15% cover (-3) and/or disturbance 25% cover (-3) absent, and high 25% cover (-3) absent, and high	(0) Mudflat and Op	6c. Microtopography, 0.3 scale. 0.1 Absent <0.1 ha (0.2 Score all present using 0 to 3 scale. 1 Low 0.1 to <1ha (0.2	C Vegetated hummucksflussucks 2 Moderate 1 to <4hi C Coarse woody debris >15cm (6in) 3 High 4ha (9.88 acre	Standing dead >25cm (10in) dbh Amphiblan breeding pools	O Absent Present Present Very small I	or marginal quality	(Alegery 7 Present in moderate	27.5 and of highest que	End of Quantitative Rating. Complete Categorization
ORAN V. 5.0 Field Form Quantitative Rating Laberts AND Laboratory Communicative Ration 188 W Rater(S): M. Theodorge, B. W. O. W.S. Date: 10 554, 2012	\mathcal{L} Metric 1. Wetland Area (size).	subictal Select On	1.) 3 Metric Z. Opiana buners and surrounding faire use.	rax 14 for. solotal. 23. (a)Bigliaine average buffer with Selberd only one and sasks score. Do not double check. WIDE. Buffers average 50m (164th) or more azund welland permeter (1) WINDER, Buffers average 50m (164th) or more azund welland permeter (4) MARBOWN. Buffers average 20m or 50m (25 to <10 th) around welland permeter (4)	 ZVERY INARROW. Buffers average <10m (<22h around velland perimeter (b) Health of surrounding aim trans. Societ one or double looks and eventue (c) FERY LOW, 2nd growth or older forest, parilies, severands, widthe area, etc. (7) 	CVV. Off ind for 10 years, should lard, young scoon grown front ear. (3) MODE RATELY HIGH. Residential, (in-not pasture, park, conservation tillage new fallow field, (3) X HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)	12 15 Metric 3. Hydrology.	max 30 ps. subtodal 3a, Sources of Water, Score all that apply. 3b. Connectivity. Score at that apply.	0	Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) 3d. <u>Durati</u>	A. Abzurum walter depth. Select only one and assign score. 3a. Abzurum walter depth. Select only one and assign score. A. Abzurum walter depth. Select only one and assign score. A. Abzurum walter destaurated (3) A. Abzurum (15.7 to 27.6 in) (2) A. Abzurum (15.7 to 27.6 in) (2) A. Abzurum walter destaurated (3) A. Abzurum walter destaurated (4)	gime. Score one or double check and	spparent (12) Check all disturbances observed	Recovering (3) Recent or no recovery (1)	stormwater input	$ 7.5 _{32.5}$ Metric 4. Habitat Alteration and Development.	Sp	7,5 X Recovered (3) 7 Recovered (3) Recent on recovery (1)	4b. Habital development. Select only one and assign score. Excellent (7)	(Second (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	3 Moderatory groot (4)	5	None or nome apparent (9) Check all disturbances observed A shrub/saping removal A shrub/saping removal A shrub/saping removal A shrub/saping removal	scovery (1) X dearcuting X	X service cuin is X service cuin is X x servic	back rooken't February 2004 liv

 Vegetation Community Cover Scale
 Dabean for constitions 4-1. The (0.2471 acres) contiguous area
 Present and either comprises 4-1. The Carlot area is vegetation and is of moderate quality, or comprises a significant pat but is of box quality.

Present and either comprises significant part of welland's vegetation and is of moderate quality or comprises a small part and is of thigh quality.

Present and comprises significant part of welland's vegetation and is of moderate quality or comprises a small part and is of thigh quality.

Present and comprises significant part, or more, of welland's vegetation and is of high quality. Narrative Description of Vegetation Quality

Low spot elevative and conformance of normalive or disturbance beform and seed disturbance beform and we species mod Native spo are dominant component of the vegetation, although mornality and species diversity moderate to moderately high, but generally who presence of rare threatened or entingened spot and of seed moderately high. A prodominance of native species, with normative spot and/or disturbance befores in any type place, and they species, with normative spot and/or disturbance before in any type place in any type place in the presence of rare, threatened, or endangered sple . Plant communities, interspersion, microtopography. Present very small amounts or if more common of magning quality, Present in moderate amounts, but not of higher quality or in ameliamounts of highest quality and of highest quality and of highest quality. Mudflat and Open Water Class Quality
0 Absent -C,1ha (0,247 acres)
1 Low 0.1 to <1ha (0,247 acres)
2 Moderste 1 to <4ha (2,47 acres)
2 High 4ha (9.88 acres) or more 4 Wet Prairies (10)

Courtmets affice death threatened or endangened species (10)

fillicant inginitory songhirdwater from habitat or usage (10)

gory 1 Wetand. Set Question 1 Qualitative Rating (-10) Erie coastal/tributary wetland-unrestricted hydrology (10) Erie coastal/tributary wetland-restricted hydrology (5) Plain Sand Prairies (Oak Openings) (10) . Special Wetlands. sgraphy.

ent using 0 to 3 scale.

jetated hummucks/lussucks

irse woody debris >15cm (6in)

nding dead >25cm (10in) dbh apply and score as indicated. (10) Is for coverage ensive >75% cover (-5) lerate 25-75% cover (-3) rse 5-25% cover (-1) rly absent <5% cover (0) /egetation Communities. ent using 0 to 3 scale. atic bed if invasive plants. Fefer M long form for list. Add prowth forest (10) re forested wetland (5) (plan view) Interspersion erately high(4) erate (3) erately low (2)

W-MAHT/10/2012-2 V RISH, VIES Date: 10 July 2012

uantitative Rating. Complete Categorization Worksheets.

1.1-1840-041212-09

State: Oth Sampling Date: 07/2/2	CONCRAFE	Datum:	rks.) rd? Yes X. No
State: Oth Sar	hip, Range:si relief (concave, convex, none);	Long: -82, 64973 Datum.	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes X. No. (If naeded, explain any arrawers in Remarks.)
CityiCounty	Section, Township, Range: _ いっぱんのぞうこのできて Local relief (conc	79 Long: -82	pical for this time of year? Yes 1/2 significantly disturbed? If 1/2 is naturally problematic?
Annier ACPJUN-KIRK	Section. Township, Range: Section. Township, Range: Section Township, Range: COACHAGE Local relief (concave, convex, none); COACHAGE Local relief (concave, convex, none); COACHAGE Local relief (concave, convex, none);	Slope 1861 Lat: 4006 (459 Soil Map Unit Name: C.e.B	Are climate / Inydrologic consistents on the site typical for this time of year? Yes 4/2 No (if no, explain in Remarks.) Are Vegetation N Sell N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Are Vegetation N or Hydrology N and Institute problematic? (if needed, explain any answers in Rem

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

	# Cover & # # # # # # # # # # # # # # # # # #
	Absolute Dominant Indicator Dominance Test worksheet: **Account Special Slabius** Number of Dominance Test worksheet: **Account Special Slabius** Number of Dominance Test worksheet: **Account Special Slabius** Number of Dominance Test worksheet: **Account Special Slabius** **Account Special Slabius**
Absolute Dominant Indicator Absolute Statuta Dominant Indicator Absolute Statuta Dominant Indicator Dominant Indicato	Absolute Dominant Indicator Mumber of Dominants Species Absolute Dominant Indicator Number of Dominant Species That Are OBL, FACW, or FAC: That Are OBL, FACW, species The Are OBL, FACW, spe
Plot size. Sacriture Secriture Secriture Status	
	This Aire Bit, Proxy, or PAC: Total Number of Dominant Constitution Const
	Species Across 4 Strata: (4 Species Across 4 Species
	Total Cover Percent of Dominant Species \$\int \frac{7}{7} \frac{7}{10}
	Total Cover Prevalence Index worksheet Prevalence Index Prevalence I
Protect Application (Privates)	1
Free Libration	10 10 10 10 10 10 10 10
Carter of Version Carter of Cart	18.5 70 70 70 70 70 70 70 7
Ph. 10.2. Optical E.y 155 12.5	1/8 The species
SE = Total Cover SE = Total	FACU species X 4 = Table Cover Y 2 Y 2 Y 3 Y 4
Total Cover Chicken	= = Total Cover 1/2 Secretary 1/2 X S = 2/2 2/2
195 EALWAND	A A A A A A A A A A
TOTAL COME TOTAL	TO THE OBLE HAD
100 100	The FACE THE TANK
100 100	12
Total Dover	> 18 Jan
Too FAC Too	
Total Cover	Me Me
The FAC.	0
Total Covery	2 2
= Total Covered (%).4	no FAC
= Total Cover	. 1
= Total Cover	(e) FAC
1	S = Total Dover
	rate sheet.
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US Āriny Corps of Engineers

WETLANDS

SOIL

WBAD OTHER OU

Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	rm the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Type Loc ²	Texture
9-14 10ye 5/1 85 75 6/8 15 pm m	man how
	1
management appropriated and the commence of th	
'Type: C=Concentration, D=Deptetion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2) Sandy Redox (\$5)	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)
I	
face (A11)	
-	Indigators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Redox Depressions (F8)	welland hydrology must be present,
5 cm Mucky Peator Peat (S3)	"unless disturbed or problematic.
Restrictive Layer (if observed):	D. W.
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	

HYDROLOGY

etland Hydrology Indicators:			
imary Indicators (minimum of one is required; check at that apply)	neck all that apply)	Secondary indicators (minimum of two required)	
Surface Water (AI)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	X 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)	X Oxidized Rhizospheres on Living Roots	X Oxidized Rhizospheres on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (83)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)	
Agal Mat or Crusi (B4)	Recent Iron Reduction in Tilled Soils (C6)	6) X. Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Y FAC-Neutral Test (D5)	
Inundation Visible on Aerial Imagery (B7)	Gauge or Well Data (D9)		
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		
eld Observations:			
urface Water Present? Yes No	Yes No X Depth (inches):		
ater Table Present? Yes No. 3	Yes No X Depth (inches):		
	Yes No Z Depth (inches): Wet!	Wetland Hydrology Present? Yes No	
cludes capitiery illinger. escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	g well, aerial photos, previous inspections),	if available:	
emarks:			

US Army Corps of Engineers

Midwest Region - Version 2.0

					Section Committee Committe
Site: Act JOH-KIRK		Rater(s): 的Ao JC	Date: 07/2/2	4	o.o Field
8 7-2)					Site: Arp Jun-1418A
d n	Metric 1. Wetland Area (size).	ea (size).			02
subtotal	Select one size class and assign score.				Action for from
	>50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20.2ha) (5 pts) 10 to <25 acres (4 to <10.1ha) (4 pts)	Zha) (5 pts) a) (4 pts)			Metric 5. Spe
	3 to <10 acres (1.2 to <4ha) (3 pts)	(3 pts) ha) (2pts)			al Check all
	(1) to <0.3 acres (0.04 to <0.1zna) (1 pt)	.1zna) (1 pt)			Bog (10) Fen (10)
M M	Metric 2. Upland buffers and surrounding land use.	fers and surround	ng land use.		Old growth fore
s. sublotal 2a.	Calculate average buffer width. Se	Calculate average buffer width. Select only one and assign score. Do not double check	o not double check.		Lake Erie coas
	WIDE. Buffers average 50m MEDIUM. Buffers average 2	WIDE. Buffers average 50m (1941) or more around wetland perimeter (7) MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)	wetland perimeter (4)		Lake Plain San
-	X NARROW. Buffers average VERY NARROW. Buffers av	NARROW. Butters average 10m to <25m (32f) to <82f) around wetland perimeter (1) VERY NARROW. Butters average <10m (<32f) around wetland perimeter (0)	d wetland perimeter (1) d perimeter (0)		Known occurre
2p.	VERY LOW. 2nd growth or company of the company of t	VIERY LOW. 2nd growth or older forest, prairie, sevenand, wildle area, etc. (7)	verage. life area, etc. (7)		Significant mig
_	MODERATELY HIGH. Resid	LOW: Old lead (*10 years), sincu learly, young second grown intest. [13] MODERATELY HIGH. Residential, fence pasture, park, conservation fillage HIGH. Under industrial. oben pasture, row crosping, mining, construction. [1]	Low. Out lied (>10 years), sinto land, young second grown loses. (>) MODERATELY Hills. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) HIGH. Urban, industrial, one pasture, row copping, mining, construction. (1)		3 36 Metric 6. Pla
10 24 ME	Metric 3. Hydrology.		,		
sublotal 3a.	Soun	pply. 3b.	Connectivity. Score all that apply.		Score all present using to
	High pH groundwater (5) Other groundwater (3)		100 year floodplain (1). Between stream/lake and other human use (1)	an use (1)	Shrub
7	Precipitation (1) Seasonal/Intermittent surface water (3)		Part of welland/upland (e.g. forest), complex (1)	complex (1)	Forest
3e	Perennial surface water (lake or stream) (5) Meximum water depth. Select only one and assign store.	e or stream) (5) 3d. y one and assign store.	Duration inundation/saturation. Score one or dol check. Semi to parmanently inundated/saturated (4)	or dbl check. Iroted (4)	Open water
_	>0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2)	23	Regularly inundated/saturated (3)		6b. horizontal (plan view
36.	Seasona Modifications to natural hydrologic regime. Score one or double check and average.	regime. Score one or double cher	Seasonally saturated in upper 30cm (12in) (1) k and average,	(12in) (1)	Select only one.
66	None or none apparent (12) Recovered (7)	Check all disturbances observed ditch	point source (nonstormwater)		Moderately hig
	Recovering (3) Recent or no recovery (1)	tile	filling/grading road bed/RR track		X Moderately low
		weir stormwater input	dredging		6c. Coverage of Invasive
C 33 M	Metric 4. Habitat Alteration and Development.	eration and Develo	pment.		
49.	Subs	or double check and average.			Extensive >759
7	Recovered (3)				
•	Indicate the second of the sec	and applying power			
o F	Excellent (7)	one and assign score.			6d. Microtopography. Score all present using 0
-	Good (5) Moderately good (4)				A Coarse woody
	Fair (3) Poor to fair (2) Poor (1)				Standing dead Amphibian bree
4c.	Habit	ouble check and average.			
Le		Check all disturbances observed	X		0 H 0
	Recent or no recovery (1)	grazing Clearcutting	nerbaceous/aquatic bed removal		:
23		X selective cutting woody debris removal	dredging		5
>		toxic pollutants	nutrient errichment		9

WETURNIS S

ORAM v. 5.0 Field Form Quantitative Rating

WBAO-07/212-64

WETLAND ST

ORAM v. 5.0 Field Form Quantitative Rating

Rater(s): 1340, JC

Date: 아기기

cial Wetlands.

core as indicated.

(2) wetland (5) est (10)

nce state/federal threatened or endangered species (10) ratiory songbird/water fowl habitat or usage (10) aland. See Question 1 Qualitative Rating (-10) tal/tributary wetland-unrestricted hydrology (10) tal/tributary wetland-restricted hydrology (5) at Prairies (Oak Openings) (10) ries (10)

nt communities, interspersion, microtopography.

Communities. to 3 scale.

 Vegetation Community Cover Scale
 Abstance or completes of the 102471 acres) configuous area
 Apstance or completes of the 102471 acres) configuous area
 Present and either comprises small part of welland's
 vegetation and is of moderate quality, or comprises a significant part but is of low quality
 Present and either comprises significant part of welland's vegetation and is of moderate quality or comprises a small part and is of high quality
 Present and comprises significant part, or more, of wetland's vegetation and is of high quality Narrative Description of Vegetation Quality

Low spot Mersity and/or prodominance of normalive or disturbance beforms in the species mod Mative spo are dominant component of the vegetation, although normalive and/or disturbance before make spo can also be present, and species diversity moderate to moderately high, but generally who presence of rare treatmond or entangened spot and/or standards believe, with normative spot and/or disturbance belorar in rative spot peach and or entangened spot and order disturbance of interview precises, with normative spot and/or disturbance belorar in valve spot peacher or virtually abbent, and high spot idensity and offer, but not always, the presence of rare, threatened, or endangened spp. w) Interspetsion. h(4) (2)

plants. Refer rm for list. Add 75% cover (-3) cover (-1) <5% cover (0) cover (-5)

0 to 3 scale. mmucks/lussucks y debris >15cm (6in) d >25cm (10in) dbh eeding pools

| Mudflat and Open Water Class Quality | Albert Class Quality | Albert C./1418 (0.2/47 acres) | Levo A. In Class (0.2/47 acres) | Lov O./1619 (0.2/47 acres) | Albert Class Class (0.2/47 to 9.2/88 acres) | High 4ha (9.88 acres) or more

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

) C

last revised 1 February 2001 jjm

End of Quantitative Rating. Complete Categorization Worksheets.

This foregoing document was electronically filed with the Public Utilities

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9/14/2012 10:42:01 AM

in

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

Summary: Letter of Notification and Attachments for Kirk-Jug 138 kV Circuit Project (Part 7 of 12) electronically filed by Erin C Miller on behalf of AEP Ohio Transmission Company, Inc.