WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators	:: Enbridge				Subregion (MLRA or LRR): MLRA 56							23/14 shall
Soil Unit:	I133A NWI Classification:										Wetland ID:	
Landform:	Talf Local Relief: LL								_		Sample Point: u-15	58n48w5-a
Slope (%):	0 - 2%	ditions on the sit	Latitude: 48			Longitude:			Datum:		Community ID:	
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Image: Yes Image: No Section: Are Vegetation Image: Soil Image:												
Are Vegetation		□, or Hydrology	•					e normai circum ☑ Yes		56111 !	Township: Range:	Dir:
	OF FINDINGS		attrany	prob				1 105	- 140		range.	
	Vegetation Pre		No	0					Hydric Soil	s Present?	No	
• • •	Irology Presen		No								t Within A Wetland	d? No
Remarks: The site is located on the fringe of a wheat field between a more heavily cropped area and a roadside ditch. Soils have been tilled and the field drains into the ditch.												
HYDROLOGY												
Wetland Hydrology Indicators (Check all that apply; M Primary: A1 - Surface Water A2 - High Water Table A3 - Saturation B1 - Water Marks B2 - Sediment Deposits B3 - Drift Deposits B4 - Algal Mat or Crust B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery					B11 - Salt Crust Secondary: B13 - Aquatic Fauna D C1 - Hydrogen Sulfide Odor D C2 - Dry Season Water Table D C3 - Oxidized Rhizospheres on Living Roots (not tills D C4 - Presence of Reduced Iron D C7 - Thin Muck Surface D Other (Explain) D						B6 - Surface Soil Cra B8 - Sparsely Vegetate B10 - Drainage Patte C3 - Oxidized Rhizosphe C8 - Crayfish Burrow C9 - Saturation Visibl D2 - Geomorphic Pos D5 - FAC-Neutral Te D7 - Frost-Heaved H	ed Concave Surface erns res on Living Roots (tilled) rs le on Aerial Imagery sition st
B9 - Water-Stained Leaves												
										Present? N		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No indicators of wetland hydrology were observed.												
SOILS 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, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)												
		Matrix					Mottle					
Depth (In.)		Color (Moist)		%	Color (N	Moist)	%	Туре	Location	Texture		Remarks
0-13	Hue_10YR	2/1			Hue_2.5Y	4/1	40	C	M	C	Two soil layers are mixed	
13-18	Hue_2.5Y	4/1		100		., .				C		**
NRCS Hydr	A12 - Thick Da S1 - Sandy Muc S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gle	edon ic Sulfide ayers (LRR F) < (LRR FGH) Below Dark Surfac rk Surface ck Mineral icky Peat or Peat (LR	e .RR G, H) R F)		Depth:	edox Matrix luck Mineral leyed Matrix Matrix ark Surface Dark Surfa epressions ains Depres	i x ce	RA 72, 73 of LRR		A9 - 1cm Mu A16 - Cost F S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	arent Material Shallow Dark Surface in in Remarks)	, G, H) R H, outisde MLRA 72, 73)

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Project/Site:	SPP				Sample Point: u-158n48w5-a
VEGETATIO		non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	0/ Cover	Dominant	Ind Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Agrees All Strates 2 (P)
					Total Number of Dominant Species Across All Strata: 2 (B)
5.					$\sum_{n=1}^{\infty} \nabla u_n ^2 = \sum_{n=1}^{\infty} \nabla u_n ^2 = \sum_{n$
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Drevelen ee Index Mierkek eet
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 5 x 3 = 15 FACU spp. 41 x 4 = 164
	Total Cover = _	0			FACW spp. 0 $x 2 = 0$
					FAC spp. 5 $x 3 = 15$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 41 X 4 = 164
1.					UPL spp. 40 X 5 = 200
2.					
3.					Total <u>86</u> (A) <u>379</u> (B)
4.					
5.					Prevalence Index = B/A = 4.407
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	 Total Cover =	0			 Prevalence Index is ≤ 3.0 *
	-				Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	40	Y	NI	
2.	Chenopodium album	15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.		10	N	FACU	
4.	Thlaspi arvense	10	N	FACU	Definitions of Vegetation Strata:
5.	Ambrosia artemisiifolia		N	FACU	
	Amaranthus retroflexus	5			
6	Echinochloa crus-galli	5	<u>N</u>	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	Setaria pumila		N	FACU	
8.					O and U and O line. It was a function of the second se
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	86	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:		jacent fiel	d as well a	s a variet	ty of weeds, including lambsquarters and field pennycress.
Additional	Domarke				
Additional F					