## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:         L3R           Applicant:         Enbridge           Investigators:         EAB/RAJ           Soil Unit:         I132A           Landform:         Depression           Slope (%):         0 - 2%           Latt		Latitude: 4	18 54/		Subregion  cal Relief:  Longitude:	NW CC	or LRR): MLRA 56 Classification:  Datum:			Date: County: State: Sample Point:	06/24/14 Kittson MN w-159n48w31-b1	
	nydrologic co on 📮 Soil	nditions on the sit	e typical fo □gnifica	or this	s time of yea disturbed?		olain in rem		□Yes	☑ No	Section: Township: Range:	Dir:
SUMMARY C		, ,		) p. c							· ·······gu	
Hydrophytic \			'es					Hydric Soil	ls Present?	Yes		
				Yes			Is This Sampling Point Within A Wetland? Yes					
Remarks: The wetland is a basin located in a farmed field of wheat. The site was not planted this year and is dominated by oak-leaf goosefoot. The wetland boundary was delineated based on stunted crops, the absence of planted crops, the presence of live algae and algal crust, and the presence of narrow-leaved dock and squirrel-tail barley.												
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):    Primary:												
Field Observations:  Surface Water Present? Yes						_ (in.) _ (in.)				lydrology	Present?	<u>Y</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Algae is present. Recent heavy rains have made the soil wetter than normal.												
Remarks: Algae is present. Recent heavy rains have made the soil wetter than normal.												
SOILS												
		be to the depth ne										
(Type: C=Concer	itration, D=Depi	etion, RM=Reduced M	atrix, CS=CC	overea/	Coated Sand (	Jrains; Loca	tion: PL=P	ore Lining, M=Matr	IX)			
		Matrix					Mottl	AS				
Depth (In.)		Color (Moist)		%	Color (I	Moist)	%	Type	Location	Texture		Remarks
0-4	Hue 2.5Y	2.5/1		100	00101 (1	violotj	,,,	1,750	Location	С		romano
4-18	Hue 2.5Y	2.5/1		80	Hue 2.5Y	7/1	20	D	М	C		
										İ		
A2 - Histic Epipedon					S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Indicators for F Redox ed Matrix y Mucky Mineral y Gleyed Matrix Cleyed Matrix Dark Surface ted Dark Surface Dark Surface Coepressions Plains Depressions (MLRA 72, 73 of LRR H)  Indicators of hydrogunless disturbed or						RR F, G, H) ONS (LRR H, outisde MLRA 72, 73)
				Depth:				Hydric Soil Present? Y				
Remarks: Soils meet hydric indicator F7, Depleted Dark Surface.												

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VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet		
1.		<u> </u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)		
3.					(71)		
	_				T. 100 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
4.					Total Number of Dominant Species Across All Strata:(B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. 0 x 1 = 0		
10.	 Total Cover =	0			FACW spp. 30 x 2 = 60		
	Total Cover =		_		FAC V Spp. 30 X 2 - 60		
					FAC spp. 60 x 3 = 180		
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0		
1.					UPL spp. 5 x 5 = 25		
2.							
3.			-	-	Total 95 (A) 265 (B)		
4.							
5.					Prevalence Index = B/A = 2.789		
6.	1				TIOTAIGNOOTHOOK DITT		
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					X Dominance Test is > 50%		
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *		
	•				Morphological Adaptations (Explain) *		
Herh Stratum (	(Plot size: 5 ft. radius)	-			Problem Hydrophytic Vegetation (Explain) *		
1.	Chenopodium glaucum	60	Υ	FAC			
2.	Rumex stenophyllus	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be		
					present, unless disturbed or problematic.		
3.	Hordeum jubatum	15	N	FACW			
4.	Triticum aestivum	5	N	NI	Definitions of Vegetation Strata:		
5.							
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.		
7.					height (DBH), regardless of height.		
8.							
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
10.							
11.					LL . L. All harhageous (non-woods) plants, regardless of size		
12.					Herb - All herbaceous (non-woody) plants, regardless of size.		
13.							
14.							
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	95					
	1000 0000		_				
Moody Vino Ct	tratum (Plot size: 20 ft radius)						
1.	tratum (Plot size: 30 ft. radius)						
	-						
2.							
3.					Hydrophytic Vegetation Present? Y		
5.							
4.							
	Total Cover =	0					
Remarks:			rsed with	squirrel-ta	ill barley and narrow-leaf dock. Part of the wetland features bare areas of shallow		
	standing water from recent rains.	ot intoropo		oquo. ta	in barroy and harron roar account are or ano troutaine roater or an out of criticism		
	The same of the sa						
Additional Remarks:							