WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 06/27/14	
Applicant:	Enbridge PCS/PEH Subragion (MLPA or LPP): MLPA 5						MIDAEG		County: Kittson		
Investigators		BCS/BEH Subregion (MLRA or LRR): MLRA 56								State: MN	
Soil Unit:	I248A			-	al Daliafi		Classification:			Consula Dainte y 160 n E0 y	10.01
Landform:	Depression Local Relief: CL 0 - 2% Latitude: 48.6926065 Longitude: -97.099625667						Dotum		Sample Point: w-160n50w	10-01	
Slope (%):	0 - 2%							Datum:	□No	O a attack	
		nditions on the site typic			I ! (If no, exp			☑Yes		Section:	
Are Vegetation				disturbed?		Ale	e normal circum ☑ Yes	Istances pri □No	esent?	Township:	
Are Vegetation		, ,,	rally pro	blematic?			⊴ res			Range: Dir:	
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes											
Hydrophytic \	•		Yes								
Wetland Hydrology Present? Yes										t Within A Wetland? Yes	
Remarks: The wetland sample area is a shallow marsh dominated by flat-stem spikerush, wild mint, and narrow-leaf cattail. The site is situated within what appears to											
be a previously excavated system of agricultural ditches, located in what is now a CRP field.											
HYDROLOG'	Υ										
Wetland Hy	drology Indi	cators (Check all that a	apply; Mi	nimum of one	e primary	or two se	econdary requir	red):			
Primary:		•					•	-	Secondary:		
	A1 - Surface V				B11 - Salt					B6 - Surface Soil Cracks	
 ✓	A2 - High Wat				B13 - Aqua		- 04			B8 - Sparsely Vegetated Conce	ave Surface
☑	A3 - Saturation B1 - Water Ma				C1 - Hydro C2 - Dry S					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on	Living Roots (tilled)
	B2 - Sediment						pheres on Living	Roots (not till		C8 - Crayfish Burrows	Living Moots (tilled)
_	B3 - Drift Depo				C4 - Prese			. 10010 (1.01 1	` =	C9 - Saturation Visible on Aeria	al Imagery
	B4 - Algal Mat				C7 - Thin N	/luck Surfa	ace			D2 - Geomorphic Position	• ,
	B5 - Iron Depo				Other (Exp	lain)				D5 - FAC-Neutral Test	
		n Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks	(LRR F)
	B9 - Water-St	ained Leaves									
F: o.											
Field Observ		_		_							
Surface Water			Depth:		(in.)			Wetland F	lydrology I	Present? Y	
Water Table		Yes 🖳	Depth:		(in.)				.,	——————————————————————————————————————	
Saturation Pr	esent?	Yes 🗹	Depth:	0	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reci	Jiueu Dala (S	tream gauge, monitoring	well, ael	iai priotos, pre	evious insp	ections),	if available:				
Remarks:											
		er is present to a depth									
Remarks:	Surface wat		of 5 inch	nes; snails ar	e present	at the sa	ample point.	dicators.)			
Remarks: SOILS Profile Descri	Surface wat	er is present to a depth	of 5 inch	nes; snails are	e present	at the sa	ample point. e absence of in				
Remarks: SOILS Profile Descri	Surface wat	er is present to a depth	of 5 inch	nes; snails are	e present	at the sa	ample point. e absence of in				
Remarks: SOILS Profile Descri	Surface wat	er is present to a depth	of 5 inch to docur S=Covered	nes; snails are	e present	at the sa	ample point. e absence of inore Lining, M=Matr				
Remarks: SOILS Profile Descri	Surface wat	er is present to a depth be to the depth needed stion, RM=Reduced Matrix, Co	of 5 inch	nes; snails are	e present cator or co Grains; Loca	at the sa	ample point. e absence of inore Lining, M=Matr		Texture	Remark	s
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 13-19 19-26 19-26 NRCS Hydr	ption (Descrintration, D=Depleter Land Parkers Land Parke	be to the depth needed betion, RM=Reduced Matrix Matrix Color (Moist) 2.5/1 2.5/1 6/1 5/2 Indicators (check has pedon tic sulfide Layers (LRR F) the Layers (LRR F) the Below Dark Surface ark Surface ark Surface ark Surface aucky Mineral ucky Peat or Peat (LRR F, eyed Matrix	% 100 84 75 23	ment the indiduction of the individual of th	e present cator or co crains; Loca //oist) 4/1 4/3 4/6 ot presen edox Matrix ucky Minera elyed Matrix Matrix ark Surface Dark Surface paressions inis Depres	onfirm the same of	e absence of in one Lining, M=Matrices Type D C C C Hydric Soi	Location M M M M H II Present?	Indicators 1 A9 - 1 cm M A16 - Cost F 157 - Dark S 157 - Dark S 157 - Park S 157 - Very 157 - Very 158 - Very 159 - Very	CaCO3 accumulation/fine fragments or Problematic Soils¹ uck (LRR I, J) rrairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde ML ed Vertic arrent Material Shallow Dark Surface in in Remarks)	.RA 72, 73) drology must be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-19 13-19 19-26 19-26 NRCS Hydr	ption (Descrintration, D=Depleter Land Parkers Land Parke	be to the depth needed betion, RM=Reduced Matrix Matrix Color (Moist) 2.5/1 2.5/1 6/1 5/2 Indicators (check has pedon tic sulfide Layers (LRR F) the Layers (LRR F) the Below Dark Surface ark Surface ark Surface ark Surface aucky Mineral ucky Peat or Peat (LRR F, eyed Matrix	to docurres % 100 84 75 23 ere if inc	ment the indiduction of the individual of the indiv	e present cator or co crains; Loca //oist) 4/1 4/3 4/6 ot presen edox Matrix ucky Minera elyed Matrix Matrix ark Surface Dark Surface paressions inis Depres	onfirm the same of	e absence of in one Lining, M=Matrices Type D C C C Hydric Soi	Location M M M M H II Present?	Indicators 1 A9 - 1 cm M A16 - Cost F 157 - Dark S 157 - Dark S 157 - Park S 157 - Very 157 - Very 158 - Very 159 - Very	caco3 accumulation/fine fragments or Problematic Soils¹ uck (LRR I, J) rrairie Redox (LRR F, G, H) urface (LRR G) lains Depressions (LRR H, outlisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyd d or problematic.	.RA 72, 73) drology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-160n50w10-c1				
VEGETATION	(Species identified in all uppercase are	e non-native	species.)						
	Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)				
3.					`` <i></i> ``				
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.					Total Number of Bonnian opposite / til ottala.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					reicent of borninant species that Ale OBL, I AGW, of I AG. 100.076				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	<u> </u>				OBL spp. 29 x 1 = 29				
	Total Cover =	0	_		FACW spp. 49 x 2 = 98				
					FAC spp. $0 x 3 = 0$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.	Amorpha fruticosa	2	N	FACW	UPL spp. 0 x 5 = 0				
2.					··· 				
3.					Total 78 (A) 127 (B)				
4.					(b) <u>10 (b)</u>				
5.					Provolence Index = D/A = 4 630				
					Prevalence Index = B/A = 1.628				
6.	_								
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	2			X Prevalence Index is ≤ 3.0 *				
	•		_		Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Eleocharis compressa	25	Υ	FACW					
2.	Mentha arvensis	15	Y	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Typha angustifolia	15	Y	OBL	present, unless disturbed or problematic.				
4.			N I	OBL					
	Lycopus americanus	5			Definitions of Vegetation Strata:				
5.	Symphyotrichum lanceolatum	5	N	FACW	_				
6	Bidens cernua	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Beckmannia syzigachne	2	N	OBL	height (DBH), regardless of height.				
8.	Poa palustris	2	N	FACW					
9.	Alisma triviale	2	N	OBL	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.				
15.	T.1.0	70			TYOOUY VIIIGS - 7 1000, 1000, 1000 or 100gil.				
	Total Cover =	76	_						
-	atum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.				_					
4.									
<u>'</u>	Total Cover =	0		_					
Remarks:	The wetland sample area is dominated by fla		kerijeh wi	ld mint ar	nd narrow-leaf cattail				
Acmarks.	The welland sample area is dominated by he	it atom api	Korusti, Wi	iu minit, ai	na nanow roar cattain.				
Additional Remarks:									