WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/02/14
Applicant:		Enbridge								County:	Kittson
Investigators		BCS/BEH			Subregio		or LRR):	MLRA 56		State:	MN
Soil Unit:	1123A			<u> </u>			Classification	PEMA			400 50 00 4
Landform:	Talf				cal Relief:			Determ		Sample Point	u-160n50w23-c1
Slope (%):	0 - 2%	nditions on the city	Latitude: 48.6			-97.0718		Datum: ⊡Yes	⊡ No	Castian	
		nditions on the site			al ? (If no, exp		normal circun			Section:	
Are Vegetation		or Hydrology		y disturbed?		Are	Tiormai circun ⊡ Yes		esent?	Township:	
SUMMARY C		G or Hydrology		oblematic?			⊡ 1 6 3			Range:	Dir:
Hydrophytic V			Nia					Lludria Sai	la Dragont?	No	
Wetland Hyd			<u>No</u> No		-				Is Present?	It Within A W	etland? No
Remarks:				d agricultural	l field whic	h has hee	an planted to s				/ mapped as a PEMA NWI
Remarks.	wetland.	sample area is loc				ii nas bee	on planted to a	iugai beets.			
HYDROLOG											
		icators (Check all	that apply; N	linimum of or	ne primary	or two se	econdary requi	red):	0		
Primary:		Nater		П	B11 - Salt	Crust			Secondary:		coil Cracks
		urface Water 🛛 B11 - Salt Crust 🗖 B6 - Surface S				Vegetated Concave Surface					
	A3 - Saturatio									B10 - Drainage	Patterns
	B1 - Water M					eason Wat	er Table		. 🛛		Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep				C3 - Oxidiz C4 - Prese	red Rhizosp	pheres on Living	Roots (not til		C8 - Crayfish I	I Visible on Aerial Imagery
	B4 - Algal Ma										hic Position
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu	tral Test
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-Si	ained Leaves									
Field Observ					(:)						
Surface Wate				h:				Wetland H	lydrology	Present?	Ν
Water Table Saturation Pr		Yes		h:	(in.)						—
Saturation FI	lesent?	Yes 🛛	Dept	n:	(in.)						
		stream gauge, moni	-			-	if available:				
Describe Reco Remarks:		stream gauge, moni or secondary wetla	-			-	if available:				
Remarks:			-			-	if available:				
Remarks: SOILS	No primary	or secondary wetla	and hydrolog	y indicators w	ere observ	ved.		dicators)			
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrolog	y indicators w ument the indi	icator or co	ved.	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrolog	y indicators w ument the indi	icator or co	ved.	e absence of ir				
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrolog	y indicators w ument the indi	icator or co	ved.	e absence of ir re Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	or secondary wetle be to the depth ne etion, RM=Reduced Ma	and hydrolog	y indicators w ument the indi ed/Coated Sand	icator or co Grains; Loca	ved. onfirm the tion: PL=Po	e absence of ir re Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu atrix, CS=Cover	y indicators w ument the indi ed/Coated Sand Color (icator or co Grains; Loca	ved. onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR)	eded to docc atrix, CS=Cover % 100 99 heck here if ir [[[[[[[[[[[[[[[[[[[y indicators w ument the indi ed/Coated Sand Color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Action of the second se	ved.	e absence of ir pre Lining, M=Matr ss Type C C	Location M	C C Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressia sed Vertic Parent Material Shallow Dark S ain in Remarks)	2 Soils ¹ RR F, G, H) MS (LRR H, outisde MLRA 72, 73) Gurface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- ntration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A2 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type:	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eeded to docu etrix, CS=Cover % 100 99 000000000000000000000000000000	y indicators w ument the indi ed/Coated Sand Color () Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S5 - Sandy R S6 - Stripped F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F8 - Redox D F16 - High Pl	icator or cc Grains; Loca Moist) 5/6 5/6 5/6 6 6 7 8 8 9 8 9 9 8 9 9 8 9 9 9 8 9 9 9 9 9	ved.	e absence of ir re Lining, M=Matr 2S Type C C E RA 72, 73 of LRF Hydric So	ix)	C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of f unless disturbe	Juck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic 'arent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ad or problematic.	2 Soils ¹ RR F, G, H) MS (LRR H, outisde MLRA 72, 73) Gurface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R		Sample Point: u-160n50w23-c1
VECETATIO			
VEGETATIO Tree Stratum	N (Species identified in all uppercase ar (Plot size: 30 ft. radius)	e non-native species.)	
	Species Name	% Cover Dominant Ind.	tatus Dominance Test Worksheet
1.			
2. 3.			Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3. 4.			Total Number of Dominant Species Across All Strata: 1 (B)
5.			
6.			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.			
8.			Prevalence Index Worksheet
9.			Total % Cover of: Multiply by:
10.		0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Total Cover =	0	FACW spp.0x20FAC spp.0x30
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)		FACU spp. 0 $x 4 = 0$
1.			UPL spp. 20 x 5 = 100
2.			
3.			Total 20 (A) 100 (B)
4.			
5.			Prevalence Index = B/A = <u>5.000</u>
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) *
	Plot size: 5 ft. radius)		Problem Hydrophytic Vegetation (Explain) *
1. 2.	Beta vulgaris	20 Y	* Indicators of hydric soil and wetland hydrology must be
3.			present, unless disturbed or problematic.
4.			Definitions of Vegetation Strata:
5.			
6			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.			height (DBH), regardless of height.
8.			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9. 10.	<u> </u>		Saping/Shrub - Woody plants less than 5 m. Don, regardless of height.
11.			
12.			Herb - All herbaceous (non-woody) plants, regardless of size.
13.			
14.			
15.			Woody Vines - All woody vines, regardless of height.
	Total Cover =	20	
Woody Vine St	ratum (Plot size: 30 ft. radius)		
1.			
2.			
3.			Hydrophytic Vegetation Present? N
5.			
4.	This	<u> </u>	
Remarks:	Total Cover =		appears to have been sprayed; no other vegetation is present.
Normarka.	The upland sample point is dominated by cu	invaled sugar Decis. The	and appears to have been sprayed, no other vegetation is present.
Additional F	Remarks:		
<u>p</u>			