WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/22/14
Applicant:		Enbridge						County:	Marshall		
Investigators		RAJ/BEH			Subregio	Subregion (MLRA or LRR): MLRA 56				State:	MN
Soil Unit:	I11A		NWI Classification:								
Landform:	Depression	bcal Relief:Longitude: -96.462216Datum:					Sample Point	: w-155n45w20-f1			
Slope (%):	3 - 7%	nditions on the site typical	: 48.233		-			Datum: ☑ Yes	□ No	Section:	
Are Vegetation		, or Hydrology ⊏signif				1	e normal circum			Township:	
Are Vegetation		□, or Hydrology □atura	-				e normal circuin ☑ Yes		556111 !	Range:	Dir:
SUMMARY C							1 105	- 140		Range.	
Hydrophytic '			Yes					Hydric Soil	s Present?	Yes	
	lrology Prese		Yes		-					t Within A W	/etland? Yes
Remarks:			unity dom	ninated by	reed cana	ry grass.	The soil is dist				
Remarks: The wetland is a wet meadow community dominated by reed canary grass. The soil is disturbed from recent pipeline work in the nearby area - the soil surface is covered with sediments that have eroded from a nearby cleared area and from pipeline construction.											
HYDROLOG	Y										
Wetland Hy	droloav Indi	i cators (Check all that ap	olv: Mini	imum of or	e primarv	or two se	econdary requir	ed):			
Primary	•••		p.y,				eeenaary requi		Secondary:		
	A1 - Surface \				B11 - Salt					B6 - Surface S	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry Se					B10 - Drainag	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not tille		C8 - Crayfish	
	B3 - Drift Dep	•					duced Iron	,		•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		\checkmark	D2 - Geomorp	
	B5 - Iron Depo	osits in Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neu	itral Test aved Hummocks (LRR F)
	B9 - Water-St	U								DI - FIUSI-HE	aved Hummocks (LKK F)
_											
Field Observ	vations:										
Surface Wat	er Present?	Yes 🗆	Depth:		(in.)					-	N/
Water Table		Yes 🗹	Depth:	8	(in.)			Wetland H	ydrology	Present?	Y
Saturation P		Yes 🛛	Depth:	0	- (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Saturation is present to the surface, but it cannot be determined whether this is due to recent heavy rains. There had not been significant precipitation in the											
area for several weeks; the high water table is indicative of normal conditions.											
SOILS											
Profile Descri		be to the depth needed to				onfirm the	e absence of in				
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS=				onfirm the	e absence of in				
Profile Descri		etion, RM=Reduced Matrix, CS=				onfirm the tion: PL=P	e absence of in ore Lining, M=Matri				
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, CS= Matrix	Covered/C	Coated Sand	Grains; Loca	tion: PL=P	e absence of in ore Lining, M=Matri es	x)	Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Deple	etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	Covered/C		Grains; Loca	onfirm the tion: PL=P	e absence of in ore Lining, M=Matri		Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-3	Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1	Covered/C % 100	Coated Sand	Grains; Loca	tion: PL=P	e absence of in ore Lining, M=Matri es	x)	Texture SC	clay and coarse s	Remarks sand washed in from a nearby cleared area
Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1	Covered/C % 100 100	Coated Sand	Grains; Loca	tion: PL=P	e absence of in ore Lining, M=Matri es	x)	SC M		sand washed in from a nearby cleared area
Profile Descri (Type: C=Concer Depth (In.) 0-3	Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1	Covered/C % 100	Coated Sand	Grains; Loca	tion: PL=P	e absence of in ore Lining, M=Matri es	x)			
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Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1	Covered/C % 100 100 100	Coated Sand	Grains; Loca Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	x)	SC M		sand washed in from a nearby cleared area
Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1	Covered/C % 100 100 100	Coated Sand	Grains; Loca Moist)	Mottle	e absence of in ore Lining, M=Matri es	x)	SC M COS	coarse sand and	sand washed in from a nearby cleared area abundant pebbles and gravel
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Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1 Indicators (check her	Covered/C % 100 100 100 ce if indic	Coated Sand	Grains; Loca Moist) not presen	Mottle	e absence of in ore Lining, M=Matri es Type	x) Location	SC M COS <u>Indicators f</u> A9 - 1 cm M	coarse sand and	sand washed in from a nearby cleared area abundant pebbles and gravel
Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1 Indicators (check her	Covered/C	Coated Sand Color (Color (S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N	Grains; Loca Moist) Moist) not presen edox Matrix Jucky Miner	al	e absence of in ore Lining, M=Matri es Type	x) Location	SC M COS <u>Indicators f</u> A9 - 1 cm M A16 - Coast	coarse sand and	sand washed in from a nearby cleared area abundant pebbles and gravel <u>c Soils¹</u> (LRR F, G, H)
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Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1 Indicators (check her ipedon stic n Sulfide Layers (LRR F)	Covered/C	Coated Sand Color (Color (S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	Grains; Loca Moist) Moist) not presen dedox Matrix Mucky Miner Gleyed Matri Matrix	al	e absence of in ore Lining, M=Matri es Type	x) Location	SC M COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	oarse sand and or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	sand washed in from a nearby cleared area abundant pebbles and gravel <u>c Soils¹</u> (LRR F, G, H)
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Profile Descri (Type: C=Concer Depth (In.) 0-3 3-7 7-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 5/1 2/1 4/1 Indicators (check her ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	Covered/C	Coated Sand Color (Color (S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	Grains; Loca Moist) Moist) not presen dedox Matrix Mucky Miner Gleyed Matrix Jark Surface Dark Surface	al	e absence of in ore Lining, M=Matri es Type	x) Location	SC M COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	oarse sand and or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	sand washed in from a nearby cleared area abundant pebbles and gravel c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w20-f1
VEGETATIO	· · ·	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Species Name	% Cover	<u>Dominant</u>	ind.Status	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.	<u></u>				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 19 $x 1 = 19$
	 Total Cover =	0			FACW spp. $\frac{60}{100}$ x 2 = $\frac{120}{120}$
	-		FAC spp. 5 x 3 = 15		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FAC spp.5x3 =15FACU spp.0x4 =0
<u>1.</u>	Salix eriocephala	10	Y	FACW	UPL spp. 0 $x 5 = 0$
2.	Salix interior	5	Y	FACW	
3.					Total <mark>84</mark> (A) <u>154</u> (B)
4.					
5.					Prevalence Index = $B/A = 1.833$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	15			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	40	Y	FACW	
2.	Scirpus cyperinus	5	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Scirpus pallidus	5	N	OBL	present, unless disturbed or problematic.
4.	Carex pellita	5	Ν	OBL	Definitions of Vegetation Strata:
5.	Juncus arcticus	5	Ν	FACW	
6	Solidago gigantea	5	Ν	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Typha X glauca	2	N	OBL	height (DBH), regardless of height.
8.	Schoenoplectus acutus	2	N	OBL	
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 = _	69	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.	<u> </u>				
4.					
Deres	Total Cover =	0		T I	
Remarks:	I ne wet meadow community is dominated by	reed can	ary grass.	There are	e many obligate species present at low coverage.
Additional F	Remarks:				