WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>07/31/14</u>		
Applicant:		Enbridge		Cubragion (MLDA or LDD).						County: Marshall		
Investigators Soil Unit:	ors: NTT/KRG Subregion (MLRA or LRR): MLRA 56 NWI Classification:									State: MN		
Landform:	Talf			<u> </u>	ocal Relief:		i Ciassilication	•		Sample Point: w-156n46w35-a1		
Slope (%):												
. ,		nditions on the site							□ No	Section:		
Are Vegetation		□, or Hydrology				T	e normal circun	nstances pre	esent?	Township:		
Are Vegetation	on □ Soil	□, or Hydrology	□aturally p	roblematic?			✓ Yes	□ No		Range: Dir:		
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
Hydrophytic Vegetation Present?					_		Hydric Soils Present? Yes					
				Yes			Is This Sampling Poin					
Remarks: The wetland is a fresh wet meadow that runs adjacent to a dirt road and carries on into a field. The wetland is dominated by Typha angustifolia and Echinochloa crus-galli.												
HYDROLOG		a crus-gaill.										
HYDROLOG					_							
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary:												
Field Obser	vations:											
Surface Wat	er Present?	Yes □	Dep	th:	(in.)			Watland L	Judrologu I	Broomt?		
Water Table	Present?	Yes □	Dep	th:	_ (in.)			wetiand F	lydrology	Present? Y		
Saturation P	resent?	Yes □	Dep	th:	_ (in.)							
Describe Rec	orded Data (s	stream gauge, moni	toring well, a	erial photos, p	revious insp	ections),	if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary wetland hydrology indicators are present; wetland hydrology is assumed based on the landscape position and FAC-Neutral vegetation.										sition and FAC-Neutral vegetation.		
SOILS												
		Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
(Type. C=Concer	ntration, D=Depi	otion PM-Poduced Ma	ルルス・レンコレルソセ	leu/Cualeu Sanu	Grains, Loca	UOH. FLEF	oro Lining M-Mate					
	Matrix						ore Lining, M=Mati	1^)				
		etion, RM=Reduced Ma	,		·		3	1/)				
Depth (In.)		Matrix			·	Mottl	es		Texture	Remarks		
Depth (In.)	Hue 10YR	Matrix Color (Moist)	9	Color	(Moist)		3	Location	Texture SCL	Remarks		
	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1	9	Color 0	·	Mottl	es		Texture SCL SC	Remarks		
0-6		Matrix Color (Moist) 2/1 4/3	% 10	Color 0	(Moist)	Mottl	es		SCL	Remarks		
0-6 6-8	Hue_10YR	Matrix Color (Moist) 2/1 4/3	9/ 10/ 10/	Color 0	(Moist)	Mottl %	es Type	Location	SCL	Remarks		
0-6 6-8	Hue_10YR	Matrix Color (Moist) 2/1 4/3	9/ 10/ 10/	Color 0	(Moist)	Mottl %	es Type	Location	SCL	Remarks		
0-6 6-8	Hue_10YR	Matrix Color (Moist) 2/1 4/3	9/ 10/ 10/	Color 0	(Moist)	Mottl %	es Type	Location	SCL	Remarks		
0-6 6-8 8-18	Hue_10YR	Matrix Color (Moist) 2/1 4/3 6/2	9/ 10/ 10/ 9/	Color 0	(Moist)	Mottl % 5	es Type	Location	SCL SC C			
0-6 6-8 8-18	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	Matrix Color (Moist) 2/1 4/3 6/2 Indicators (characters) ipedon stic In Sulfide Layers (LRR F) ck (LRR FGH) Indicators (LRR FGH) I	eck here if	Color	(Moist) R 5/6 not present Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottl % 5 t):	es Type C	M	SCL SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic Soils ¹ Pluck (LRR I, J) Prairie Redox (LRR F, G, H) Purface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
0-6 6-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	Matrix Color (Moist) 2/1 4/3 6/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) cd Below Dark Surface ucky Mineral flucky Peat or Peat (LR leyed Matrix	eck here if i	Color Co	(Moist) R 5/6 not present the second Matrix Mucky Miner degreed Matrix Dark Surface degrees ions Plains Depressions the second Depressions degrees ions degrees degrees ions degrees ions degrees ions degrees ions degrees ions	Mottl % 5 t):	es Type C RA 72, 73 of LRF	Location M H H H II Present?	SCL SC C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	For Problematic Soils¹ Juck (LRR I, J) Prairie Redox (LRR F, G, H) Plains Depressions (LRR H, outside MLRA 72, 73) Pred Vertic Parent Material Shallow Dark Surface Pain in Remarks) Phydrophytic vegetation and wetland hydrology must be present, and or problematic.		

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-156n46w35-a1				
VEGETATIO	(Species identified in all uppercase are	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
					Total Number of Dominant Species Across All Strata.				
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. $\frac{25}{}$ $\times 1 = \frac{25}{}$				
	Total Cover =	0			FACW spp. $\frac{15}{15}$ $\times 2 = \frac{30}{30}$				
					$A = \frac{1}{100} = $				
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACHenn 5 $VA - 20$				
	Stratum (Flot size: 15 ft. radius)				IDI enp. 0 × 5 = 0				
1.	_				Total % Cover of: Multiply by: OBL spp. 25 X 1 = 25 FACW spp. 15 X 2 = 30 FAC spp. 20 X 3 = 60 FACU spp. 5 X 4 = 20 UPL spp. 0 X 5 = 0				
2.	_								
3.					Total 65 (A) 135 (B)				
4.									
5.					Prevalence Index = B/A = 2.077				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *				
	Total Cover =								
					Morphological Adaptations (Explain) *				
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Typha angustifolia	25	Y	OBL					
2.	Echinochloa crus-galli	20	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.	Persicaria maculosa	10	N	FACW	present, unless disturbed or problematic.				
4.	Trifolium repens	5	N	FACU	Definitions of Vegetation Strata:				
5.	Rumex stenophyllus	5	N	FACW					
6	· tamer etc. op. y. ac				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
					noight (2 217), regardiness of noight.				
8.					O - 11 - 101 - 1 Woody plants less than 2 in DDLL regardless of height				
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 =	65							
	i otal covel =	00	_						
\\/a==\.\/\.	trature (Dist size 20 ft and live)								
vvoody vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.									
4.									
	Total Cover =	0							
Remarks:			folia and F	chinochlo	a crus-galli. Bare soil covers part of the area.				
rtomanto.	The treatile regulation to definitated by Typi	ia anguoti			a ordo gami Baro con covere part or the area.				
Additional Remarks:									
l									