WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date: County:	09/27/14	
Applicant: Enbridge					Cubragion (MIDA or IDD).							Pennington	
Investigators: NTT/BEH Subrection Subrection Soil Unit: I62A						_Subregior	region (MLRA or LRR): MLRA 56 NWI Classification: PEMB				State:	MN	
Landform:	Depression				١o	cal Relief:		Ciassilication.	PEIVID		Sample Point:	w-154n44w28-d1	
Slope (%):	8 - 15%		Latitude: 48	8.123		Longitude:		161	Datum:			W 1041144W20 G1	
· · · ·		nditions on the site								□ No	Section:		
Are Vegetation	-	□, or Hydrology				(e normal circum			Township:		
Are Vegetation			□aturally	-				Yes	□ No ˙		Range:	Dir:	
SUMMARY C	OF FINDINGS	3											
Hydrophytic \	Vegetation P	resent?	Ye	es		_			Hydric Soi	Is Present?	Yes		
										Is This Sampling Point Within A Wetland? Yes			
Remarks:		l is a scrub-shrub l	ocated in a	a de	pression ne	ar an exist	ing pipe	line corridor. D	ominant ve	getation incl	ludes meadov	w willow and dwarf red	
	raspberry.												
HYDROLOG'	Υ												
Primary:	A1 - Surface NA2 - High Water May A3 - Saturation B1 - Water May B2 - Sediment B3 - Drift Depos B4 - Algal Mater B5 - Iron Depos B7 - Inundation B9 - Water-St	ter Table n arks t Deposits osits t or Crust osits n Visible on Aerial Ima		r; Min	nimum of on	B11 - Salt (B13 - Aqua C1 - Hydrog C2 - Dry Se	Crust tic Fauna gen Sulfid ason Wa ed Rhizos nce of Re luck Surfa	le Odor ter Table spheres on Living duced Iron	ŕ		B6 - Surface S B8 - Sparsely S B10 - Drainage C3 - Oxidized S C8 - Crayfish E C9 - Saturation D2 - Geomorp D5 - FAC-Neur	Vegetated Concave Surface Patterns Rhizospheres on Living Roots (tilled) Burrows No Visible on Aerial Imagery Rhic Position	
Field Observ	vations:												
Surface Water	er Present?	Yes	De	epth:		_ (in.)			Watland L	lydrology l	Procent?	Υ	
Water Table	Present?	Yes □	De	epth:		(in.)			Wetland i	iyarology i	riesent:	_ <u></u>	
Saturation Pr	resent?	Yes	De	epth:		_ (in.)							
Describe Rec	orded Data (s	tream gauge, monit	oring well,	aeria	al photos, pr	evious insp	ections),	if available:					
Remarks:	No primary	hydrology indicator	s present.	. We	tland hydro	logy is ass	umed ba	ased on hydrop	hytic vegeta	ation preser	nt and landsca	ape position.	
			•		•					•			
COLLC													
SOILS													
Profile Descri		be to the depth nee											
Profile Descri		be to the depth need to the de											
Profile Descri		etion, RM=Reduced Ma					on: PL=P	ore Lining, M=Matr					
Profile Descri (Type: C=Concer		etion, RM=Reduced Ma Matrix	trix, CS=Cov	vered/	Coated Sand	Grains; Locat	on: PL=P	ore Lining, M=Matr	ix)	Toyturo		Domarko	
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Deple	Matrix Color (Moist)	atrix, CS=Cov	vered/ %		Grains; Locat	on: PL=P	ore Lining, M=Matr		Texture		Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-10	ntration, D=Deple	Matrix Color (Moist)	atrix, CS=Cov	% 100	Coated Sand	Grains; Locat Moist)	on: PL=Pe Mottle %	es Type	Location	SCL		Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 5/2	atrix, CS=Cov	% 100 95	Coated Sand	Grains; Locat Moist)	on: PL=P	ore Lining, M=Matr	ix)	SCL CL		Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-10	ntration, D=Deple	Matrix Color (Moist) 2/1 5/2	atrix, CS=Cov	% 100	Coated Sand	Grains; Locat Moist)	on: PL=Pe Mottle %	es Type	Location	SCL		Remarks	
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Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 5/2 7/3	atrix, CS=Cov	% 100 95 100	Coated Sand	Moist) 6/8	Mottle %	es Type	Location	SCL CL		Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24	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 Mue A11 - Deplete A12 - Thick D S1 - Sandy Me S2 - 2.5 cm M	Matrix Color (Moist) 2/1 5/2 7/3 Indicators (chean surface ark Surface ark Surface ark year or Peat (LRR F) cky Peat or Peat (LRR F)	eck here if	% 100 95 100 f indi	Coated Sand Color (Hue_10YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 not present dedox Matrix Mucky Minera Gleyed Matrix Matrix Dark Surface Depressions	Mottle % 5	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	ed Vertic Parent Material Shallow Dark S ain in Remarks)	CE Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 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 Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M S3 - 5 cm Muc S4 - Sandy G	Matrix Color (Moist) 2/1 5/2 7/3 Indicators (chean surface ark Surface ark Surface ark year or Peat (LRR F) cky Peat or Peat (LRR F)	eck here if	% 100 95 100 f indi	Coated Sand Color (Hue_10YR Cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface Depressions ains Depress	Mottle % 5	es Type C RA 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Ain in Remarks)	E 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-154n44w28-d1
EOETATIO					
EGETATIO		e non-native	species.)		
ree Stratum	(Plot size: 30 ft. radius)				Dominanaa Taat Warkahaat
4	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:4 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(AAD)
					Drevelere en la dev. Merkelse et
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp35
	Total Cover =	0			FACW spp. $\frac{75}{}$ $\times 2 = \frac{150}{}$
					FAC spp.
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.	Salix discolor	50	Υ	FACW	$UPL spp. \qquad 0 \qquad x = 0$
			<u>'</u>		Οι L 3pp
2.	Salix bebbiana	10	N	FACW	T. (1) (1) (2)
3.					Total 110 (A) 185 (B)
4.					
5.					Prevalence Index = B/A = 1.682
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					
					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	60			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	25	Υ	OBL	
2.	Calamagrostis canadensis	15	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.		10		OBL	present, unless disturbed or problematic.
	Lycopus americanus	10	<u> </u>	OBL	
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.					
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 =	50			1
	Total Cover =				
_					
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
4.	Total Cayor				
	Total Cover =				
Remarks:	Dominant vegetation includes pussy willow,	woolly sed	ge, bluejoi	int, and no	orthern bugleweed, with bare soil covering a majority of the ground layer.
Additional I	Romarke:				
Auditional	Nemaiks.				