WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:	L3R Enbridge : NTT/BEH I75A			_Subregio	•	A or LRR): I Classification	MLRA 56		Date:09/17/14County:PenningtonState:MN	
Landform:	Dip			cal Relief:	CL				Sample Point: w-154n44w32-j1	
Slope (%):		atitude: 48.11		Longitude:			Datum:			
	hydrologic conditions on the site t			ar? (If no, exp					Section:	
Are Vegetation		•			Af	e normal circur ☑ Yes	nstances pre	esent?	Township: Range: Dir:	
	DF FINDINGS	iaturaliy proi							Range: Dir:	
	Vegetation Present?	Yes					Hydric Soil	s Present?	Yes	
· · ·	Irology Present?	Yes		-					nt Within A Wetland? Yes	
Remarks:	The wetland is a roadside ditch		y reed cana	ry grass a	nd narro	w-leaf cattail.				
HYDROLOG	Y									
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Secondary: Primary: A1 - Surface Water B11 - Salt Crust B6 - Surface Soil Cracks A2 - High Water Table B13 - Aquatic Fauna B8 - Sparsely Vegetated Concave Surface A3 - Saturation C1 - Hydrogen Sulfide Odor B10 - Drainage Patterns B2 - Sediment Deposits C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not tilk B3 - Drift Deposits C4 - Presence of Reduced Iron C9 - Saturation Visible on Aerial Imagery B4 - Algal Mat or Crust C7 - Thin Muck Surface D2 - Geomorphic Position B7 - Inundation Visible on Aerial Imagery Other (Explain) D5 - FAC-Neutral Test B9 - Water-Stained Leaves B9 - Water-Stained Leaves D7 - Frost-Heaved Hummocks (LRR F)										
Field Observations: Surface Water Present? Yes Depth: (in.) Water Table Present? Yes Depth: (in.) Saturation Present? Yes Depth: 0 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Y										
Remarks: Soils are saturated at the surface.										
SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)										
	Matrix				Mottl	05				
Depth (In.)	Color (Moist)	%	Color (Moist)		Type	Location	Texture	Remarks	
		70			70	Турс	Location	TCALLIC	Tremarks	
	 A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR F) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix 		S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	edox Matrix Aucky Miner Gleyed Matri Matrix Matrix Dark Surface Dark Surfa Depressions ains Depres	al x ice		Indicators for Problematic Soils ¹ A9 - 1 cm Muck (LRR I, J) A16 - Coast Prairie Redox (LRR F, G, H) S7 - Dark Surface (LRR G) F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) F18 - Reduced Vertic TF2 - Red Parent Material TF12 - Very Shallow Dark Surface Other (Explain in Remarks) A 72, 73 of LRR H)			
Restrictive Layer	r Type:			Hydric Sc	oil Present?	Y	-			
Remarks:	Soils were not sampled due to the vegetation present.	ne wetland lo	ocation withi	n a roadsi	de ditch.	Soils are assu	Imed hydric I	based on tl	he geomorphic position and hydrophytic	

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		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.		<u>/// COVEL</u>	Dominant	<u>inu.Status</u>					
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)				
5.					(_)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.	<u></u>								
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 75 X 1 = 75				
	Total Cover =	0			FACW spp. 45 $x 2 = 90$				
					FACW spp. 45 x $2 =$ 90 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.	Salix interior	20	Y	FACW	UPL spp. 0 $x 5 = 0$				
2.									
3.					Total <u>120</u> (A) <u>165</u> (B)				
4.									
5.					Prevalence Index = $B/A = $ 1.375				
6.									
7.					Hydrophytic Vegetation Indicators				
<u>8.</u> 9.					Hydrophytic Vegetation Indicators:				
<u> </u>					Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%				
10.	 Total Cover =	20			$\frac{X}{X} = \frac{1}{2} \text{ Dominance rest is } 30\%$				
		20			Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Typha angustifolia	75	Y	OBL					
2.	Phalaris arundinacea	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Spartina pectinata	10	N	FACW	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.									
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 =	100							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.					Hydrophytic Verstetion Present?				
<u>3.</u> 5.					Hydrophytic Vegetation Present? Y				
5. 4.									
.	Total Cover =	0							
Remarks: The wetland is dominated by narrow-leaf cattail with a fringe of reed canary grass and prairie cordgrass.									
The metallic is dominated by harrow loar outlan with a minge of rood bandry grade and praine oblighted.									
Additional Remarks:									