WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14
Applicant: Enbridge							County:	Pennington			
Investigators: MRK/OTG Subregion (N						•	•	MLRA 56		State:	MN
Soil Unit:	169A						I Classification:			4	454.44.00.14
Landform: Dip Local Relief: CC Sample Point: w-154n44w33-I1											
Slope (%): 0 - 2% Latitude: 48.11555933 Longitude: -96.3155626667 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes □ No Section:											
		-	•		If ? (If no, exp	1			□ No	Section:	
Are Vegetation											D:
Are Vegetation ☐ Soil ☐, or Hydrology ☐aturally problematic? ☐ Yes ☐ No Range: Dir:											
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes											
Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes					Is This Sampling Point Within A Wetland? Yes						
Remarks:		d sample point is a w		dominated h	y woolly s	odgo and	d Canada thietle			IL VVILIIII A VV	elialiu! I es
Nemarks.	The welland	a sample point is a wi	et meadow t	dominated b	y woony s	euge and	a Cariada iriisii	.			
HYDROLOG	V										
								1)			
		icators (Check all the	at apply; Mii	nimum of on	e primary	or two s	econdary requii	red):	C		
<u>Primary:</u> □	<u>:</u>	Mator			B11 - Salt	Cruct			Secondary:	<u>:</u> B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua				Vegetated Concave Surface		
	A3 - Saturatio			_	C1 - Hydro					B10 - Drainag	
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	l	C8 - Crayfish	
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		duced Iron			D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				Other (Exp		200			D5 - FAC-Neu	
		n Visible on Aerial Imag	ery	_	(=	,					aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate		Yes	Depth:		(in.)			Wetland F	lydrology	Present?	Υ
Water Table		Yes	Depth:		(in.)			Wettaria	iyarology i	i resent i	<u> </u>
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	The wetland	d is located in a dip w	ithin the lan	dscape.							
		·		·							
SOILS											
		be to the depth need									
(Type: C=Concer	ntration, D=Depl	etion, RM=Reduced Matrix	k, CS=Covered	/Coated Sand (irains; Loca	tion: PL=P	ore Lining, M=Matr	ix)			
		Matrix				Mottl	00				
Depth (In.)		Color (Moist)	%	Color (I	Moiet)	WOU	Type	Location	Texture		Remarks
. , , ,	Huo 10VD	, ,	100	Coloi (i	vioist)	70	Туре	Location	rexture		Remarks
0-10	Hue_10YR			Lluc 2 EV	6/6	40	0	N //	CIC		
10-18	Hue_10YR	6/1	90	Hue_2.5Y	6/6	10	С	M	SIC		
	 					-	 				
							1				
NEGOLI		I a Paratana da la companya da la co									
NRCS Hydr	ic Soil Field	Indicators (chec	k here it ind	icators are r	ot presen	t):					a 1
	A 4 . I I' - 1 I			05 0 1 5	. 1.			-		for Problemati	
☐ A1- Histosol ☐ S5 - Sandy Redox ☐ A9 - 1 cm Muck (LRR I, J)											
	A2 - Histic Epipedon										
	A4 - Hydrogen Sulfide										
	A5 - Stratified	F3 - Depleted	•	□ F18 - Reduced Vertic							
	_ :: - :: :: : : : : : : : : : : : : : :										
	·										
	S1 - Sandy M				•	sions (MI	RA 72, 73 of LRF	S H)	Otner (Expla	aırı iri kemarks)	
	•	lucky Peat or Peat (LRR		. To Trigital	anio Depies	JOINI (IVIL	, 10 01 LIXI	` ' '/			
□ S3 - 5 cm Mucky Peat or Peat (LRR F) Indicators of hydrophytic vegetation and wetland hydrology mu									tion and wetland hydrology must be present,		
	S4 - Sandy G	•								ed or problematic.	
Restrictive Layer	r Type:			Depth:			Hydric So	il Present?	Υ		
Remarks: Soil is a layer of dark clay underlain by a lighter layer of silty clay with redox concentrations. Soil meets hydric indicator A11-Depleted Below Dark S								Penleted Relow Dark Surface			
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Project/Site:	L3R				Sample Point: w-154n44w33-I1			
					•			
VEGETATION	(Species identified in all uppercase a	re non-native	species.)					
Tree Stratum (Plot size: 30 ft. radius)							
	<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:(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: 66.7% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 60			
	Total Cover =	0			FACW spp. 35 $\times 2 = 70$			
					OBL spp. 60			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 30 $X 4 = 120$			
1.	Salix interior	10	Y	FACW	UPL spp. $0 X 5 = 0$			
2.								
3.					Total <u>125</u> (A) <u>250</u> (B)			
4.								
5.					Prevalence Index = B/A = 2.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					XDominance Test is > 50%			
	Total Cover =	10			X Prevalence Index is ≤ 3.0 *			
			Morphological Adaptations (Explain) *					
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex pellita	60	Υ	OBL				
2.	Cirsium arvense	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Symphyotrichum lanceolatum	15	N	FACW	present, unless disturbed or problematic.			
4.	Agrostis gigantea	10	N	FACW	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 =	115						
Woody Vine Str	ratum (Plot size: 30 ft. radius)							
1.	The second of the second of							
2.								
3.					Hydrophytic Vegetation Present? Y			
5.					injuroprijuo vogotation i roconti			
4.	,							
	Total Cover =	- 0						
Remarks: The wetland sample point is dominated by sandbar willow, woolly sedge and Canada thistle.								
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<u> </u>								
 	la marka.							
Additional R	emarks:							