WETLAND DETERMINATION DATA FORM Great Plains Region

Duna: a a4/0:4a.		LOD							I Data:	00/44/44			
Project/Site: Applicant:		L3R Enbridge	\dashv						Date: County:	09/11/14 Pennington			
Investigators	·	RAJ/BEH/MRK	\dashv		Subregion (MLRA or LRR):	MLRA 56		State:	MN			
Soil Unit:				NWI Classification:									
Landform:	Depression			_ Lo	cal Relief: Lo				Sample Point:	: w-154n45w24-c1			
Slope (%):	0 - 2%		e: 48.13		Longitude: -9		Datum:]				
Are climatic/l	hydrologic co	onditions on the site typica	al for thi	s time of yea	ar? (If no, explain	in remarks)	Yes	□ No	Section:				
Are Vegetation			•	disturbed?		Are normal circ	•	esent?	Township:				
Are Vegetation			ally prol	blematic?		☑ Ye	es □ No		Range:	Dir:			
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes													
Hydrophytic Vegetation Present?					<u>-</u>				di lo Van				
Wetland Hyd			Yes	: - f 400t -	Ct NIM/ I bed				t Within A W				
Remarks: A wet meadow in a road ditch on the north side of 180th St NW. Hydrophytic vegetation and indicators of wetland hydrology are present and hydric soils are assumed.													
HYDROLOGY													
	•	icators (Check all that ap	pply; Mir	nimum of on	e primary or	two secondary red	quired):	0 1					
<u>Primary</u> : □	<u>:</u>	\Mator			B11 - Salt Cru	ct		Secondary:	B6 - Surface S	Soil Cracks			
	A2 - High Wa				B13 - Aquatic					Vegetated Concave Surface			
	A3 - Saturation				C1 - Hydroger				B10 - Drainage				
	B1 - Water M			□ C2 - Dry Season Water Table □						Rhizospheres on Living Roots (tilled)			
	B2 - Sedimer	•				Rhizospheres on Liv	ing Roots (not till		C8 - Crayfish I				
	B3 - Drift Dep B4 - Algal Ma				C4 - Presence C7 - Thin Muc	e of Reduced Iron			D2 - Geomorp	n Visible on Aerial Imagery			
	B5 - Iron Dep				Other (Explain		✓	D5 - FAC-Neu					
		on Visible on Aerial Imagery			(,				aved Hummocks (LRR F)			
	B9 - Water-S	tained Leaves											
Field Observ					4								
Surface Wat		Yes	Depth:		_ (in.)		Wetland H	lydrology l	Present?	Υ			
Water Table		Yes	Depth:		_ (in.)			,		<u> </u>			
Saturation P	resent?	Yes	Depth:		_ (in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (stream gauge, monitoring v	vell, aeri	al photos, pr	evious inspec	tions), if available:							
Remarks:	·	stream gauge, monitoring vor wetland hydrology are p		al photos, pr	evious inspec	tions), if available:							
Remarks:	·			al photos, pr	evious inspec	tions), if available:							
Remarks:	Indicators of	of wetland hydrology are p	resent.		·	·	f in diagtors						
Remarks: SOILS Profile Descri	Indicators of	of wetland hydrology are p	resent.	nent the indi	cator or confi	rm the absence o							
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Remarks: SOILS Profile Descri	Indicators of	of wetland hydrology are particles ibe to the depth needed to letion, RM=Reduced Matrix, CS	resent.	nent the indi	cator or confi	rm the absence o : PL=Pore Lining, M=N							
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of	ibe to the depth needed to letion, RM=Reduced Matrix, CS	o docum Covered	nent the indi	cator or confi Grains; Location	rm the absence on the control of the	Matrix)	Texture		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth needed to letion, RM=Reduced Matrix Color (Moist)	o docum Covered	nent the indi	cator or configrains; Location Moist)	rm the absence on the control of the	Matrix)	Texture		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Depointration, D=Depointration) A1- Histosol A2 - Histic Epointration A3 - Black Histosol A4 - Hydroge	ibe to the depth needed to letion, RM=Reduced Matrix, CS Matrix Color (Moist) I Indicators (check heading to be sticted on Sulfide)	% o docum Covered % re if ind	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or configrains; Location Moist) not present): dedox Matrix Mucky Mineral Gleyed Matrix	m the absence on PL=Pore Lining, M=N Mottles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹			
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n45w24-c1					
VEGETATIO	(Species identified in all uppercase a	re non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	<u>Species Name</u>	% Cover	Dominant	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)					
5.					``,					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
7.					refeelt of Bollinant opedies that Ale OBE, I AOW, of I Ao. 100.070					
8.					Prevalence Index Worksheet					
					4					
9.		1			Total % Cover of: Multiply by:					
10.					OBL spp. 13					
	Total Cover =	= 0	FACW spp. 75 $\times 2 = 150$							
					FAC spp. $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
1.					UPL spp. $\underline{\qquad}$ $x = \underline{\qquad}$ $\underline{\qquad}$					
2.										
3.					Total 93 (A) 178 (B)					
4.										
5.					Prevalence Index = B/A = 1.914					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.										
					Rapid Test for Hydrophytic Vegetation					
10.	Tatal Ossan				X Dominance Test is > 50%					
	Total Cover =	= 0			X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Phalaris arundinacea	50	Υ	FACW						
2.	Calamagrostis stricta	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Carex pellita	10	N	OBL	present, unless disturbed or problematic.					
4.	Apocynum cannabinum	5	N	FAC	Definitions of Vegetation Strata:					
5.	Juncus arcticus	3	N	FACW						
6	Eleocharis palustris		N OBL		Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Symphyotrichum lanceolatum			FACW	height (DBH), regardless of height.					
8.	Symphyothenam lanceolatum		11	171011						
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
9.					Sapinig/Siliub - Woody Plants less than 5 in. BBH, Tegardess 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 =	= 93								
			_							
Woody Vine S	tratum (Plot size: 30 ft. radius)									
1.	Tatam (Flot 6/26: 66 ft. fadias)									
2.										
3.					Hydrophytic Vogotation Procent?					
					Hydrophytic Vegetation Present?Y					
5.										
4.										
	Total Cover =									
Remarks:					ecies growing on the ditch banks. A wet meadow community dominated by reed					
	canary grass in a roadside ditch. Hydrophy	tic vegetatic	on is prese	ent.						
Additional Remarks:										
1										