WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/25/14	
Applicant: Enbridge									County:	Pennington		
Investigators: BEH/RAJ				Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:	175A			NWI Classification:								
Landform:	Side slope				cal Relief:					Sample Point	:: <mark>u-154n44w18-g1</mark>	
Slope (%):	8 - 15%		atitude: 48.15		Longitude:			Datum:		4		
		nditions on the site t	<u> </u>		ar? (If no, exp	1	•		□ No	4		
Are Vegetation			⊐significantly			Are	e normal circun	•	esent?	Township:		
Are Vegetation			⊐aturally pro	blematic?				□ No		Range:	Dir:	
SUMMARY O												
Hydrophytic Vegetation Present?						Hydric Soils Present? No						
Wetland Hydrology Present?							Is This Sampling Point Within A Wetland					
Remarks:	The upland	sample point is loca	ated in a qua	king aspen f	orest with o	dense sl	hrub and groun	d cover. Th	e site is up:	slope from a	forested wetland.	
HYDROLOG\	Y											
Wetland Hy	drology Ind	cators (Check all th	nat apply: Mi	nimum of on	e primary	or two se	econdary requi	red):				
Primary:	•	Concon an a	iat apply, ivii		o primary	01 1110 01	coordary roqui	ou).	Secondary	:		
	A1 - Surface	Vater			B11 - Salt (Crust			□ B6 - Surface Soil Cracks			
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry Se		iter Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen B3 - Drift Dep	•			C4 - Presei			Roots (not till	"	•	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Expl	lain)				D5 - FAC-Neu		
		n Visible on Aerial Imag	gery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ					41							
Surface Wate		Yes □	Depth:		_ (in.)			Wetland F	Hydrology	Present?	N	
Water Table		Yes	Depth:		_ (in.)				.,		<u> </u>	
Saturation Pr	esent?	Yes	Depth:		_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	()	arcain gauge, monito	ing wen, acr	iai priotos, pri	evious insp	ections),	if available:					
Remarks:		or secondary hydrol			•	ections),	if available:					
					•	ections),	if available:					
					•	ections),	if available:					
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydrolo	ogical indica	tors were ob	eserved.	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydrological be to the depth need etion, RM=Reduced Matri	ogical indica	tors were ob	eserved.	onfirm the	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descrip (Type: C=Concent	No primary ption (Descri	be to the depth need etion, RM=Reduced Matrix	ogical indica	tors were ob nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)				
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydrological be to the depth need etion, RM=Reduced Matri	ogical indica	tors were ob	cator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent	No primary ption (Descri	be to the depth need etion, RM=Reduced Matrix	ogical indica	tors were ob nent the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture SIL		Remarks	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13	No primary ption (Descri	be to the depth need etion, RM=Reduced Matrix Color (Moist) 2/1	ded to docurrix, CS=Covered % 100	nent the indi	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SIL	Redox only in tra		
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-13 13-19	No primary ption (Descriptration, D=Depletration, D=Depletration) Hue_10YR Hue_10YR	be to the depth need etion, RM=Reduced Matrix Color (Moist) 2/1 3/1	ogical indica	nent the indi	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SIL	Redox only in tra		
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-19 19-28 NRCS Hydri	No primary ption (Descriptration, D=Depletration, D=Depletrat	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 6/3	ogical indica	nent the indi //Coated Sand (Color (Hue_10YR	cator or co Grains; Locat Moist) 5/8 not present	Mottle %	e absence of inore Lining, M=Matrees Type C	Location M	SIL SL S	for Problemati	insition into lower layer.	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-13 13-19 19-28	No primary ption (Descriptration, D=Depletration, D=Depletrat	be to the depth need etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 6/3 Indicators (checkers)	ogical indica	color (Hue_10YR Hicators are r	cator or co Grains; Locat Moist) 5/8 not present	Mottle %	e absence of inore Lining, M=Matrees Type C	Location	SIL SL S Indicators 1	for Problemati	insition into lower layer.	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-13 13-19 19-28 NRCS Hydri	Hue_10YR Hue_10YR Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 6/3 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	ogical indica	color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	cator or co Grains; Locat Moist) 5/8 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface	mottle % 1 t):	e absence of inore Lining, M=Matrees Type C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red F	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi ced Vertic Parent Material	(LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: u-154n44w18-g1					
VEGETATIO		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.	Populus tremuloides	70	Υ	FAC						
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 5 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					4					
10.										
10.	_l Total Cover =	70			OBL spp. $0 \times 1 = 0$					
	Total Cover =	70	_		FACW spp. $5 \times 2 = 10$					
0 1: /0! 1	O (D				FAC spp. 80 X 3 = 240 FACU spp. 85 X 4 = 340 UPL spp. 15 X 5 = 75					
	Stratum (Plot size: 15 ft. radius)		\ <u>\</u>		FACU spp. 85 x 4 = 340					
1.	Prunus virginiana	20	Y	FACU	UPL spp15					
2.	Toxicodendron rydbergii	10	Υ	FACU						
3.	Cornus rugosa	5	N	NI	Total 185 (A) 665 (B)					
4.	Rhamnus cathartica	5	N	FACU						
5.					Prevalence Index = B/A = 3.595					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	 Total Cover =	40			Prevalence Index is ≤ 3.0 *					
	40	_								
	<u> </u>				Morphological Adaptations (Explain) *					
	(Plot size: 5 ft. radius)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Problem Hydrophytic Vegetation (Explain) *					
1.	Aralia nudicaulis	35	Υ	FACU						
2.	Sanicula marilandica	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Thalictrum dasycarpum	5	N	FAC	present, unless disturbed or problematic.					
4.	Calamagrostis canadensis	5	N	FACW	Definitions of Vegetation Strata:					
5.	Bromus inermis	5	N	UPL						
6	Elymus repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Zizia aurea	5	N	FAC	height (DBH), regardless of height.					
8.										
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.										
				_	Herb - All herbaceous (non-woody) plants, regardless of size.					
12.					Herb - All Herbacedas (Herr Weedy) Plants, regardless of size.					
13.										
14.					All control in the second					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	70	_							
Woody Vine S	tratum (Plot size: 30 ft. radius)									
1.	Celastrus scandens		5 Y	UPL						
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.	<u>'</u>									
т.	Total Cover –	5								
Total Cover = 5										
Remarks: The site is dominated by quaking aspen in the canopy, choke cherry and poison ivy in the shrub layer, and wild sarsaparilla in the ground layer. American										
	bittersweet is common at the site.									
Additional Remarks:										