WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date: 10/08/14						
Applicant:		Enbridge							County: Pennington						
Investigators:	tors: NTT/BEH Subregion (MLRA o						MLRA 56		State: MN						
Soil Unit:	I38A			_ Local Relief:		Classification:									
Landform:	Rise				Sample Point: u-152n43w23-c1										
Slope (%):	0 - 2%		le: 47.97				Datum:								
		nditions on the site typic		•		•		□ No	Section:						
Are Vegetation			•	disturbed?	Are	e normal circum	-	esent?	Township:						
Are Vegetation			rally prol	blematic?		Yes	□ No		Range: Dir:						
SUMMARY O															
Hydrophytic \			Yes					Is Present?							
Wetland Hyd			No				Is This Sar	mpling Poir	nt Within A Wetland? No						
Remarks:	The upland	point is located in a cut	oat field	and dominated by gre	at plainta	ain.									
HYDROLOGY	Y														
Wetland Hy	drology Indi	cators (Check all that a	ipply; Mii	nimum of one primary	or two se	econdary requi	red):								
Primary:		`					ŕ	Secondary:							
	A1 - Surface V			□ B11 - Salt					B6 - Surface Soil Cracks						
	A2 - High Wat A3 - Saturation			□ B13 - Aqua		o Odor			B8 - Sparsely Vegetated Concave Surface						
	B1 - Water Ma			□ C1 - Hydro □ C2 - Dry S					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)						
	B2 - Sediment					spheres on Living	Roots (not tille	€ □	C8 - Crayfish Burrows						
	B3 - Drift Depo			□ C4 - Prese			(**************************************		C9 - Saturation Visible on Aerial Imagery						
	B4 - Algal Mat			□ C7 - Thin N		ace			D2 - Geomorphic Position						
	B5 - Iron Depo			□ Other (Exp	lain)				D5 - FAC-Neutral Test						
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Imagery							D7 - Frost-Heaved Hummocks (LRR F)						
	by - water-st	allieu Leaves													
Field Observ	vations:														
		Vaa 🗖	Donath	(in)											
Surface Water		Yes	Depth:				Wetland H	lydrology	Present? N						
			•			water Table Present? Yes 🗆 Depth: (In.)									
Saturation Present? Yes Depth: (in.)															
			<u> </u>												
	<u>`</u>	tream gauge, monitoring			ections),	if available:									
Describe Reco	<u>`</u>	tream gauge, monitoring hydrology indicators pre			ections),	if available:									
Remarks:	<u>`</u>				ections),	if available:									
Remarks:	No wetland	hydrology indicators pre	sent.	ial photos, previous insp			diagtora								
Remarks: SOILS Profile Descri	No wetland	hydrology indicators pre	sent.	ial photos, previous insp	onfirm the	e absence of in									
Remarks: SOILS Profile Descri	No wetland	hydrology indicators pre	sent.	ial photos, previous insp	onfirm the	e absence of in									
Remarks: SOILS Profile Descri	No wetland	hydrology indicators pre be to the depth needed etion, RM=Reduced Matrix, CS	sent.	ial photos, previous insp	onfirm the	e absence of in ore Lining, M=Matr									
Remarks: SOILS Profile Descrip (Type: C=Concen	No wetland ption (Descri	hydrology indicators pre be to the depth needed etion, RM=Reduced Matrix, CS	sent. to docun	nent the indicator or co	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	Teyture	Remarks						
Remarks: SOILS Profile Descrip (Type: C=Concent	No wetland ption (Descri	be to the depth needed etion, RM=Reduced Matrix Color (Moist)	to docun	ial photos, previous insp	onfirm the	e absence of in ore Lining, M=Matr		Texture	Remarks						
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10	No wetland ption (Descriptration, D=Deple	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/1	to docun S=Covered % 100	nent the indicator or col/Coated Sand Grains; Loca	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	SCL							
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-10 10-15	No wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 4/3	to documes=Covered % 100 85	nent the indicator or coll/Coated Sand Grains; Local Color (Moist) Hue_10YR 2/1	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	SCL FSL	Mixed matrix.						
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-15 15-18	No wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_10YR	hydrology indicators pre	to docum S=Covered % 100 85 55	nent the indicator or collicoated Sand Grains; Local Color (Moist) Hue_10YR 2/1 Hue_2.5Y 6/3	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location M M	SCL	Mixed matrix. abundant pebbles and gravel						
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-10 10-15	No wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/1 4/3	to documes=Covered % 100 85	nent the indicator or coll/Coated Sand Grains; Local Color (Moist) Hue_10YR 2/1	Mottle	e absence of in ore Lining, M=Matr es Type C	Location	SCL FSL	Mixed matrix.						
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-15 15-18	No wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_10YR	hydrology indicators pre	to docum S=Covered % 100 85 55	nent the indicator or collicoated Sand Grains; Local Color (Moist) Hue_10YR 2/1 Hue_2.5Y 6/3	Mottle %	e absence of in ore Lining, M=Matr es Type C C	Location M M	SCL FSL	Mixed matrix. abundant pebbles and gravel						
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-15 15-18 18-23 NRCS Hydri	No wetland ption (Descriptration, D=Depletration, D=Depletrat	hydrology indicators pre be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/3 6/8 7/1 Indicators (check helps)	% 100 85 95	color (Moist) Hue_10YR 2/1 Hue_2.5Y 6/3 Hue_7.5YR 4/6 Stock of the second state of	Mottle % 15 45	e absence of incore Lining, M=Matr	Location M M M	SCL FSL SC C Indicators 1	Mixed matrix. abundant pebbles and gravel calcic horizon for Problematic Soils¹ luck (LRR I, J)						
Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-15 15-18 18-23 NRCS Hydri	No wetland ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi	hydrology indicators pre be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/3 6/8 7/1 Indicators (check heighedon	% 100 85 95	color (Moist) Hue_10YR 2/1 Hue_2.5Y 6/3 Hue_7.5YR 4/6 S5 - Sandy Redox S6 - Stripped Matrix	Mottle % 15 45 5	e absence of incore Lining, M=Matr	Location M M M	SCL FSL SC C Indicators 1 A9 - 1 cm M A16 - Coast	Mixed matrix. abundant pebbles and gravel calcic horizon for Problematic Soils¹ luck (LRR I, J) Prairie Redox (LRR F, G, H)						
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-10 10-15 15-18 18-23 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	hydrology indicators pre be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/3 6/8 7/1 Indicators (check heads)	% 100 85 55 95 ere if ind	color (Moist) Color (Moist) Hue_10YR 2/1 Hue_2.5Y 6/3 Hue_7.5YR 4/6 Color sare not presen S5 - Sandy Redox S6 - Stripped Matrix F1 - Loamy Mucky Minera F2 - Loamy Gleyed Matrix	Mottle Mottle 45 5 t):	e absence of incore Lining, M=Matr	Location M M M	SCL FSL SC C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Mixed matrix. abundant pebbles and gravel calcic horizon for Problematic Soils¹ luck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)						
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w23-c1				
VEGETATIO	N (Species identified in all uppercase	are non-native spe	ecies.)						
Tree Stratum ((Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u> <u>Do</u>	<u>ominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.	<u> </u>				Number of Dominant Species that are OBL, FACW, or FAC:(A)				
3.									
4.					Total Number of Dominant Species Across All Strata:(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.					Total % Cover or: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 30 x 3 = 90 FACU spp. 0 x 4 = 0 UPL spp. 0 x 5 = 0				
	Total Cover =0				FACW spp. $0 x 2 = 0$				
					FAC spp. 30 $x 3 = 90$				
Sapling/Shrub \$	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$				
1.					UPL spp. $0 x 5 = 0$				
2.									
3.					Total 30 (A) 90 (B)				
4.									
5.					Prevalence Index = B/A = 3.000				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					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.	Plantago major	30	Υ	FAC					
2.					* Indicators of hydric soil and wetland hydrology must be				
3.					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.	1				height (DBH), regardless of height.				
8.					†				
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.				-					
11.		_			-				
12.	<u> </u>				Herb - All herbaceous (non-woody) plants, regardless of size.				
13.	<u></u>				- Tier D = 7 iii Herbassaas (Herr Wesay) Plante, regaraloss of 6125.				
					-				
14.	<u> </u>				NAVe a dis Mines All woody vines regardless of height				
15.	Tatal Oassa	00			Woody Vines - All woody vines, regardless of height.				
	Total Cover	= 30							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?Y				
5.	1								
4.									
<u> </u>	Total Cover								
Remarks:	The vegetation is dominated by great plain	ıtain.							
Additional Remarks:									