WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge	_						Date:09/27/14County:Pennington		
Investigators	rs: RAJ/BJC Subregion (MLRA or LRR): MLRA 56								State: MN		
Soil Unit:	I69A Subregion (MERA OF ERR). INLER 50 I69A									<u> </u>	
Landform:	orm: Dip Local Relief: CC									Sample Point: w-153n44w3-k1	
Slope (%):	0 - 2%		e: 48.10		Longitude:			Datum:			
		nditions on the site typica			ar? (If no, exp	1		☑ Yes			
Are Vegetation		□, or Hydrology □sign □, or Hydrology □atur		blematic?		Are	e normal circum ☑ Yes	Istances pro	esent?	Township: Range: Dir:	
SUMMARY C			any pro							Range: Dir:	
Hydrophytic			Yes					Hvdric Soi	Is Present?	Yes	
Wetland Hyd	-		Yes							nt Within A Wetland? Yes	
Remarks: A hardwood swamp dominated by quaking aspen with a shrub layer of buckthorn and dogwoods and an herbaceous layer of mixed graminoids. All parameters of wetland conditions are present.											
HYDROLOGY											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:											
	A1 - Surface \	Vater			B11 - Salt	Crust				 B6 - Surface Soil Cracks	
	A2 - High Wat			B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry S					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)	
	B2 - Sediment				C3 - Oxidiz		C8 - Crayfish Burrows				
	B3 - Drift Dep				C4 - Prese					C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Depo				C7 - Thin M Other (Exp		ace		⊻ V	D2 - Geomorphic Position D5 - FAC-Neutral Test	
		n Visible on Aerial Imagery				Janiy				D7 - Frost-Heaved Hummocks (LRR F)	
□ B9 - Water-Stained Leaves											
Field Observations:											
Surface Wat		Yes 🗆	Depth	:	(in.)			Wetland F	łydrology	Present? Y	
Water Table		Yes 🗆	Depth		(in.)			Wettand	lyarology		
Saturation P	resent?	Yes 🗆	Depth	:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Indicators of wetland hydrology are present.											
SOILS											
	intion (Decori	he to the depth peeded t		mont the indi	ootor or o	opfirm th	a abaanaa af in	diastora			
Profile Descri		be to the depth needed t etion, RM=Reduced Matrix, CS									
Profile Descri		be to the depth needed t etion, RM=Reduced Matrix, CS									
Profile Descri			=Covered			tion: PL=P Mottle	ore Lining, M=Matr				
Profile Descri	ntration, D=Deple	etion, RM=Reduced Matrix, CS Matrix Color (Moist)	=Covered		Grains; Loca	tion: PL=P	ore Lining, M=Matr		Texture	Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-4	Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	=Covered % 100	d/Coated Sand (Color (I	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Matr es Type	x) Location	CL	Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10	Hue_10YR Hue_10YR	Matrix Matrix Color (Moist) 2/1 4/1	=Covered % 100 90	d/Coated Sand (Color (I Hue_10YR	Grains; Loca Moist) 4/4	tion: PL=P Mottle % 10	ore Lining, M=Matr es Type C	Location	CL SC		
Profile Descri (Type: C=Concer Depth (In.) 0-4	Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	=Covered % 100	d/Coated Sand (Color (I	Grains; Loca Moist) 4/4	tion: PL=P Mottle %	ore Lining, M=Matr es Type	x) Location	CL	Remarks	
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Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14	Hue_10YR Hue_10YR Hue_2.5Y	Atrix Matrix Color (Moist) 2/1 4/1 6/3	=Covered % 100 90 90	d/Coated Sand (Color (I Hue_10YR Hue_10YR	Grains; Loca Moist) 4/4 6/6	tion: PL=P Mottle % 10 10	ore Lining, M=Matr es Type C C	Location	CL SC		
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14	Hue_10YR Hue_10YR	Atrix Matrix Color (Moist) 2/1 4/1 6/3	=Covered % 100 90 90	d/Coated Sand (Color (I Hue_10YR	Grains; Loca Moist) 4/4 6/6	tion: PL=P Mottle % 10 10	ore Lining, M=Matr es Type C	Location	CL SC LCOS	with pebbles	
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y	Atrix Matrix Color (Moist) 2/1 4/1 6/3	=Covered % 100 90 90	d/Coated Sand (Color (I Hue_10YR Hue_10YR	Grains; Loca Moist) 4/4 6/6 not presen	tion: PL=P Mottle % 10 10	ore Lining, M=Matr es Type C C	x) Location M M	CL SC LCOS	with pebbles for Problematic Soils ¹	
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	Matrix Matrix Color (Moist) 2/1 4/1 6/3 Indicators (check he	=Covered % 100 90 90 ere if inc	d/Coated Sand (Color (I Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	Grains; Loca Moist) 4/4 6/6 not presen edox Matrix	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Matr es Type C C	x) Location M M	CL SC LCOS Indicators f A9 - 1 cm M A16 - Coast	with pebbles for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His	Matrix Matrix Color (Moist) 2/1 4/1 6/3 Indicators (check here ipedon stic	=Covered % 100 90 90 90 ere if inc	d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Grains; Loca Moist) 4/4 6/6 not presen edox Matrix lucky Miner	tion: PL=P Mottle % 10 10 10 t):	ore Lining, M=Matr es Type C C	x) Location M M	CL SC LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	with pebbles for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)	
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Profile Descri (Type: C=Concer Depth (In.) 0-4 4-10 10-14 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	Atrix Matrix Color (Moist) 2/1 4/1 6/3 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	=Covered	d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	Grains; Loca Moist) 4/4 6/6 ot presen edox Matrix lucky Miner leyed Matri lark Surface Dark Surface	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Matr es Type C C	x) Location M M	CL SC LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	with pebbles for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-153n44w3-k1				
VEGETATIO		re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	60	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 7 (A)				
3.	<u>_</u>								
4.					Total Number of Dominant Species Across All Strata: 7 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.		60			OBL spp. 25 X 1 = 25				
	Total Cover =				FACW spp. 50 $x 2 = 100$				
					FACW spp.50x2 =100FAC spp.81x3 =243FACU spp.18x4 =72				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)		V	E AO	FACU spp. 18 $x 4 = 72$				
1.	Cornus racemosa	10	Y	FAC	UPL spp. 0 $x 5 = 0$				
2.	Cornus alba	5	Y	FACW					
3.	Rhamnus cathartica	3	N	FACU	Total <u>174</u> (A) <u>440</u> (B)				
4.									
5.					Prevalence Index = $B/A = 2.529$				
6.									
7.					Undrenbutie Vegetetien Indicatore.				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Tatal Cover	10			\underline{X} Dominance Test is > 50%				
	Total Cover =	18			$X = Prevalence Index is \le 3.0 *$				
					Morphological Adaptations (Explain) *				
	(Plot size: 5 ft. radius)	05	V		Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pellita	25	Y V	OBL	* Indiactors of budric coil and watland budralagy must be				
2.	Spartina pectinata	15	Y Y	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3.	Carex sartwellii	15	Y Y	FACW					
4.	Agrostis gigantea	15	•	FACW	Definitions of Vegetation Strata:				
5.	Poa pratensis	10	<u>N</u>	FACU	Tree				
6	Solidago gigantea	5	<u>N</u>	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Andropogon gerardii	5	<u>N</u>	FACU	height (DDH), regardless of height.				
8.	Apocynum cannabinum	5	<u>N</u>	FAC	Conting (Christ , Woody plants loss than 3 in DRH, regardless of height				
9.	Zizia aurea	1	N	FAC	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.					Herb - All herbaceous (non-woody) plants, regardless of size.				
12.					THE P AIR HEIDAGEOUS (HOIF WOOdy) Plants, regardless of SIZE.				
13. 14.									
					Woody Vines - All woody vines, regardless of height.				
15.	Tatal Oassa	00			WOULY VILLES - All WOOLY VILLES, regardless of height.				
	Total Cover =	96							
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.	1								
3.					Hydrophytic Vegetation Present? Y				
5.									
4.	Tatal Oassa								
Dereserte	Total Cover =								
Remarks:				aspen with	a shrub layer of dogwoods and buckthorn and an herbaceous layer dominated by				
	a mix of graminoids. Hydrophytic vegetation	n is present	•						
		_	_	_					
Additional Remarks:									