WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date:	09/18/14		
Applicant:	Applicant: Enbridge									County:	Pennington		
Investigators: MRK/OTG				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	162A			<u></u>			I Classification	:					
Landform:	Talf				ocal Relief					Sample Point	u-154n44w33-q1		
Slope (%):	0 - 2%		titude: 48.1				8818333	Datum:		1			
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section:													
Are Vegetation			•	/ disturbed?		Are	e normal circun	•	esent?	Township:			
Are Vegetation ☐ Soil ☐, or Hydrology ☐aturally problematic? ☑ Yes ☐ No Range: Dir:													
SUMMARY OF FINDINGS													
Hydrophytic \	_		No		_				Is Present?				
Wetland Hyd			No					Is This Sai	mpling Poin	nt Within A W	etland? No		
Remarks: The upland sample point is located in a recently tilled field with no visible vegetation.													
HYDROLOGY													
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):													
Primary: Secondary:													
					B11 - Salt		B6 - Surface S						
	A2 - High Wa			□ B13 - Aquatic Fauna □							Vegetated Concave Surface		
	A3 - Saturation B1 - Water M			□ C1 - Hydrogen Sulfide Odor □ □ □ C2 - Dry Season Water Table □							le Patterns Rhizospheres on Living Roots (tille		
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish			
	B3 - Drift Dep	•					duced Iron	110010 (1101 1		•	on Visible on Aerial Imagery		
	B4 - Algal Ma	t or Crust			C7 - Thin I	Muck Surfa	ace			D2 - Geomorp	ohic Position		
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu			
		n Visible on Aerial Image	ery							D7 - Frost-He	aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ	votiona												
			5		(! \								
Surface Water		Yes	Depth		_ (in.)			Wetland F	lydrology l	Present?	N		
Water Table		Yes	Depth		_ (in.)				,				
Saturation Present? Yes Depth: (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (s	stream gauge, monitori	ing well, ae	rial photos, pi	<u> </u>	pections),	if available:						
Describe Reco					revious insp	pections),	if available:						
		stream gauge, monitori or secondary hydrolo			revious insp	pections),	if available:						
Remarks:	No primary	or secondary hydrolo	ogical indica	ators were ol	revious insposerved.								
Remarks: SOILS Profile Descri	No primary	or secondary hydrolo be to the depth neede	ed to docu	ators were ol	revious insposerved.	onfirm th	e absence of ir						
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix	ed to docu	ment the ind	revious insposerved. icator or co	onfirm thation: PL=P	e absence of ir ore Lining, M=Matr	rix)			Danasaka		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrolo be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist)	ed to docu k, CS=Covere	ators were ol	revious insposerved. icator or co	onfirm th	e absence of ir ore Lining, M=Mati		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No primary iption (Descri	or secondary hydrolo be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1	ed to docu	ment the ind	revious insposerved. icator or co	onfirm thation: PL=P	e absence of ir ore Lining, M=Matr	rix)	LS		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16	No primary iption (Descriptration, D=Depl	or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3	ed to docu x, CS=Covere	ment the ind	revious insposerved. icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of interest Lining, M=Matro	rix)	LS	for Problemati			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (checklipedon	ed to docu x, CS=Covere	ment the ind d/Coated Sand Color (dicators are S5 - Sandy F S6 - Stripped	revious insposerved. icator or configurations; Locations; Locatio	onfirm the ation: PL=P	e absence of interest Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	i <mark>c Soils¹</mark> (LRR F, G, H)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R		Sample Point:	u-154n44w33-q1						
_										
VEGETATION	N (Species identified in all uppercase a	re non-native species.)								
Tree Stratum ((Plot size: 30 ft. radius)									
	Species Name	% Cover Dominant Ind.	Status Dominance Test Worksheet							
1.										
2.			Number of Dominant Species that are OBL, F.	ACW, or FAC: 0 (A)						
3.										
4.			Total Number of Dominant Species Acr	ross All Strata: 0 (B)						
5.				, 、 ,						
6.			Percent of Dominant Species That Are OBL, F.	ACW or EAC: N/A (A/B)						
7.				(. 42)						
8.			Prevalence Index Worksheet							
9.			Total % Cover of: Multiply by:							
10.			OBL end 0 v 1 –	0						
10.	Total Cover =	: 0	Prevalence Index Worksheet Total % Cover of: Multiply by: OBL spp. 0 x 1 = FACW spp. 0 x 2 = FAC spp. 0 x 3 = FACU spp. 0 x 4 = UPL spp. 0 x 5 =	0						
	Total Cover =		FAC app	0						
Combiner/Observe	Christians (Districts AF # modius)		FACULARIA	0						
	Stratum (Plot size: 15 ft. radius)		FACU Spp. 0 X 4 =	0						
1.			UPL spp							
2.										
3.			Total <u>0</u> (A)	0 (B)						
4.										
5.			Prevalence Index = B/A =	NA						
6.										
7.										
8.			Hydrophytic Vegetation Indicators:							
9.			Rapid Test for	Hydrophytic Vegetation						
10.			Dominance Tes	st is > 50%						
	Total Cover =	0	Prevalence Ind	ex is ≤ 3.0 *						
			Morphological /	Adaptations (Explain) *						
Herb Stratum (Plot size: 5 ft. radius)			phytic Vegetation (Explain) *						
1.				priyate vegetation (=/.pia/)						
2.			* Indicators of hydric soil a	and wetland hydrology must be						
3.				disturbed or problematic.						
4.			Definitions of Vegetation Strata:	<u> </u>						
5.			Definitions of Vegetation Strata.							
			Troo	4-2						
6			height (DBH), rega	. (7.6cm) or more in diameter at breast						
7.			Height (DDH), rege	ardiess of rieight.						
8.			O II (OI I Wood) release lease	then 2 in DDI I removed one of beinght						
9.			Sapling/Shrub - Woody plants less	s than 3 in. DBH, regardless of height.						
10.										
11.										
12.			Herb - All herbaceous (no	on-woody) plants, regardless of size.						
13.										
14.										
15.			Woody Vines - All woody vines, r	regardless of height.						
	Total Cover =	: 0								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.	Tatam (Fiot 6i26: 66 ft. radiae)									
2.										
3.			Hydrophytic Vogotatio	n Brocont? N						
5.			Hydrophytic Vegetatio	n Present?N						
		<u> </u>								
4.	Tatal Oans									
Davasarlas	Total Cover =	: 0								
Remarks:	No vegetation was observed.									
Additional R	Remarks:									
I										