WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/30/14
Applicant:		Enbridge								County: Pennington
Investigators	:	MRK/OTG			Subregio	n (MLRA	or LRR):	MLRA 56		State: MN
Soil Unit:	159A					NWI	Classification:			1
Landform:	Dip			Lo	cal Relief:	LC				Sample Point: w-152n43w15-a1
Slope (%):	3 - 7%		Latitude: 47.99	19315	Longitude:	-96.1444	4515000	Datum:		1
,	hydrologic co	onditions on the site	e typical for th	s time of yea	-			☑ Yes	□ No	Section:
Are Vegetatio		□, or Hydrology								Township:
Are Vegetatio			• •				⊠ Yes	□ No		Range: Dir:
V	Are Vegetation □ Soil □, or Hydrology □ aturally problematic? □ Yes □ No Range: Dir: SUMMARY OF FINDINGS □ Ves □ No No No No No									
Hydrophytic V			Yes					Hydric Soi	Is Present?	Yes
• • •	-		Yes		-					nt Within A Wetland? Yes
Wetland Hyd					a along th					
Remarks:	wettand sa	mple point is locat	ed in a draina	geway runnir	ig along th		e of a cultivated	a soybean n	ieid.	
HYDROLOG	Y									
Wetland Hy	drology Ind	icators (Check all	that apply; Mi	nimum of on	e primary	or two se	econdary requir	ed):		
Primary:		Υ.	11.57		. ,		, ,	,	Secondary:	
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface Soil Cracks
A2 - High Water Table					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M				C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	•					pheres on Living	Roots (not till	• •	C8 - Crayfish Burrows
	B3 - Drift Dep				C4 - Prese C7 - Thin M					C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position
	B4 - Algal Ma B5 - Iron Dep				Other (Exp		ICE .			D5 - FAC-Neutral Test
		on Visible on Aerial Im	agery			iairi)				D7 - Frost-Heaved Hummocks (LRR F)
		tained Leaves	lagory							
Field Observ	vations:									
Surface Wate		Voc 🗖	Dooth		(in)					
			Depth		_ (in.)			Wetland H	lydrology l	Present? Y
Water Table		Yes	Depth		_ (in.)					—
Saturation Present? Yes Depth: (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks: Wetland sample point is located in a dip.										
SOILS										
	intion (Descr	ibe to the depth ne	eded to docur	nent the indi	cator or co	onfirm the	e absence of in	dicators)		
		etion, RM=Reduced M								
	· · ·	,			,		0,	,		
		Matrix				Mottle	25			
Depth (In.)		Color (Moist)	%	Color (Moiet)	%	Туре	Location	Texture	Remarks
	1		70	````	· · ·		rype	LUCATION		ινσιιαινο
		· · · · · ·			E /0	1 5	\mathbf{c}	Ν.Λ	60	
0-20	Hue_2.5Y	· · · · · ·	85	Hue_10YR	5/8	15	С	М	SC	
0-20	Hue_2.5Y	· · · · · ·		Hue_10YR	5/8	15	С	M	SC	
0-20	Hue_2.5Y	· · · · · ·		Hue_10YR	5/8	15	С	M	SC	
0-20	Hue_2.5Y	· · · · · ·		Hue_10YR	5/8	15	C	M		
0-20	Hue_2.5Y	· · · · · ·		Hue_10YR	5/8	15	C	M	SC	

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

NRCS Hydr	ic Soil Field Indicators (check	here if ind	licators are not present):		
					Indicators for Problematic Soils ¹
	A1- Histosol		S5 - Sandy Redox		A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon		S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic		F1 - Loamy Mucky Mineral		S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide		F2 - Loamy Gleyed Matrix		F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)	\checkmark	F3 - Depleted Matrix		F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)		F6 - Redox Dark Surface		TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface		F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface		F8 - Redox Depressions		Other (Explain in Remarks)
	S1 - Sandy Mucky Mineral		F16 - High Plains Depressions (ML	RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR G	G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)				¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix				unless disturbed or problematic.
Restrictive Layer	Type:		Depth:	Hydric Soil Present?	Y
Remarks:	Soil is a layer of light sandy clay wi	vith redox of	concentrations.		

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Project/Site:	L3R			Sample Point: w-152n43w15-a1
VEGETATIO		e non-native species.)		
Tree Stratum (Plot size: 30 ft. radius)	_		
	<u>Species Name</u>	<u>% Cover</u> Dominant	Ind.Status	Dominance Test Worksheet
1.				
2.				Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.				
4.				Total Number of Dominant Species Across All Strata: 0 (B)
5.				
6.	<u></u> _			Percent of Dominant Species That Are OBL, FACW, or FAC: N/A (A/B)
7.				
8.				Prevalence Index Worksheet
9.				Total % Cover of: Multiply by:
10.	Tatal Osum			$\begin{array}{c} OBL \text{ spp.} \\ \hline \end{array} \\ 0 \\ \hline \end{array} \\ x \\ 1 \\ \hline \end{array} \\ 0 \\ \hline \end{array} \\ 0 \\ \hline \end{array}$
	Total Cover =	0		FACW spp. 0 $X Z = 0$
				Initial % Cover of:Multiply by:OBL spp.0x1 =OBL spp.0x2 =FACW spp.0x3 =FAC spp.0x4 =FACU spp.0x5 =UPL spp.0x5 =
·	Stratum (Plot size: 15 ft. radius)			$\begin{array}{ccc} & & & \\ & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\$
1.				$- \qquad \qquad$
2.				
3.				Total(A)(B)
4.				
5.				Prevalence Index = B/A = <u>NA</u>
6.				
7.				
8.				Hydrophytic Vegetation Indicators:
<u>9.</u> 10.				Rapid Test for Hydrophytic Vegetation
10.	 Total Cover =	0		Dominance Test is > 50%
		0		Prevalence Index is $\leq 3.0 *$
				Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			X Problem Hydrophytic Vegetation (Explain) *
1.				-
2.				* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.				
4.				Definitions of Vegetation Strata:
5.				- Tree
6				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.				-
8.				Contine (Chruch Woody plants loss than 3 in DBH, regardless of height
9.				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.				-
11.				
12.				
13.				4
14.				Woody Vines - All woody vines, regardless of height.
15.		0		
	Total Cover =	0		
Woody Vine St	ratum (Plot size: 30 ft. radius)			-
1.				-
2.				-
3.				Hydrophytic Vegetation Present? Y
5.				-
4.	Tatal Cavar	0		
Pomorke	Total Cover =		former	
Remarks:	Unable to identify vegetation because it has	been sprayed by the	ranner.	
Additional R	Remarks:			