## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators		L3R Enbridge MRK/OTG		Subregion (MLRA or LRR): MLRA 56							Date:09/29/14County:PenningtonState:MN		
Soil Unit: Landform:	I59A Dip				NWI Classification: Local Relief: LC						Sample Point: w-152n43w10-c1		
Slope (%):								4356667	Datum	_			
Are climatic/	hydrologic co	onditions on the site	e typical for	this time	of yea	<b>r?</b> (If no, exp	1		☑ Yes	□ No	Section:		
Are Vegetation		I ☑, or Hydrology	•				Are	e normal circur		esent?	Township:		
Are Vegetation		I □, or Hydrology	□aturally p	roblemat	tic?			⊠ Yes	□ No		Range: Dir:		
SUMMARY OF FINDINGS													
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes In This Sampling Doint Within A Wotland?													
Wetland Hydrology Present?       Yes       Is This Sampling Point Within A Wetland?       Yes         Remarks:       Wetland sample point is located in a drainageway in the middle of a tilled field.       Yes       Yes											nt within A welland? fes		
Remarks.	Welland Sa			layeway			a lineu i						
HYDROLOGY													
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:													
□       A1 - Surface Water       □       B11 - Salt Crust       □       B6 - Surface Soil Cracks         □       A2 - High Water Table       □       B13 - Aquatic Fauna       □       B8 - Sparsely Vegetated Concave Surface         □       A3 - Saturation       □       C1 - Hydrogen Sulfide Odor       □       B10 - Drainage Patterns										<ul> <li>B6 - Surface Soil Cracks</li> <li>B8 - Sparsely Vegetated Concave Surface</li> <li>B10 - Drainage Patterns</li> <li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li> <li>C8 - Crayfish Burrows</li> <li>C9 - Saturation Visible on Aerial Imagery</li> <li>D2 - Geomorphic Position</li> <li>D5 - FAC-Neutral Test</li> </ul>			
Field Observations:       Surface Water Present?       Yes       Depth:       (in.)         Water Table Present?       Yes       Depth:       (in.)         Saturation Present?       Yes       Depth:       (in.)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Wetland Hydrology Present?       Y													
Remarks: Wetland is located in a dip and is sparsely vegetated.													
i tomantoi				, regetat	c a.								
SOILS													
		ibe to the depth ne letion, RM=Reduced M											
(Type: C=Concer				reu/Coalec	i Sanu G				11X)				
		Matrix					Mottl	es					
Depth (In.)		Color (Moist)	%	5 C	olor (N	/loist)	%	Туре	Location	Texture	Remarks		
0-8	Hue_10YR	· · · · · ·	85		2.5Y	6/2	15	D	М	SC			
8-20	Hue_2.5Y	6/2	7(	) Hue_	10YR	6/8	30	С	М	SC			
NRCS Hydr	<b>ic Soil Field</b> A1- Histosol	Indicators (ch	neck here if i		andy Re		t):			A9 - 1 cm N	for Problematic Soils <sup>1</sup> Muck (LRR I, J)		
	A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral	e     	□ F1 - La □ F2 - La □ F3 - D □ F6 - R □ F7 - D □ F8 - R	pamy Gl epleted edox Da epleted edox De	ucky Minera leyed Matrix Matrix ark Surface Dark Surfa epressions	x	.RA 72, 73 of LR	<ul> <li>A16 - Coast Prairie Redox (LRR F, G, H)</li> <li>S7 - Dark Surface (LRR G)</li> <li>F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)</li> <li>F18 - Reduced Vertic</li> <li>TF2 - Red Parent Material</li> <li>TF12 - Very Shallow Dark Surface</li> <li>Other (Explain in Remarks)</li> </ul>				
		/lucky Peat or Peat (L lcky Peat or Peat (LR leyed Matrix		<sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									
Restrictive Layer	r Type:				Depth:			Hydric So	Hydric Soil Present? Y				
Remarks:	Soil is a lav	er of mixed sandy	clay underla	in by a li	aht sar	ndv clav M	vith signi	-			ets hydric indicator A11- Depleted Below Dark		
	•	bil has been severe	•	•	•	iay olay M	an sign		ποσητιατιστι		No tryano maloalor At re Depleted Delow Dark		

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Project/Site:	L3R				Sample Point: w-152n43w10-c1
		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.			Dominant	<u>Inu.Status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.	J				
4.	<u></u>				Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.	J				
8.	J				Prevalence Index Worksheet
9.					- Total % Cover of Multiply by:
10.					$OBL spp. \qquad 0 \qquad x \ 1 = \qquad 0$
	 Total Cover =	0			OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.5x4 =20
	-		_		FAC spp. $0$ x 3 = $0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total <mark>5</mark> (A) <u>20</u> (B)
4.					
5.					Prevalence Index = B/A = <b>4.000</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is $\leq 3.0$ *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				X Problem Hydrophytic Vegetation (Explain) *
1.	Setaria pumila	5	Y	FACU	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	5			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	<u> </u>				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Oast				
Domorto	Total Cover =	0 (fox toil Fi	old here h	000 40000	
Remarks:	Wetland sample point is dominated by yellow	i tox-tail. Fi	ieid has bi	een recen	aty tiled.
Additional F	Remarks:				