## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:	Enbridge				_Subregio	•	or LRR): <u>MLRA 56</u> Classification:			Date:09/24/14County:MarshallState:MN	
Landform:	Talf				ocal Relief:	LV				Sample Point: <u>u-155n45w34-m1</u>	
Slope (%):	0 - 2%	nditiona on the sit	Latitude: 48.1		Longitude:			Datum:			
Are Climatic/r		nditions on the sit ☑, or Hydrology			al? (If no, exp		<sup>arks)</sup> e normal circun		$\square$ No	Section: Township:	
Are Vegetation	•	□, or Hydrology	•				e normai circuit ☑ Yes		esent?	Range: Dir:	
SUMMARY C	•	, , ,					1 103	- 110			
Hydrophytic V			No					Hvdric Soi	ls Present?	? No	
Wetland Hyd	•		No		Is This Sampling Point Within A Wetland? No						
Remarks: Upland sample point in a wheat field, adjacent to a roadside ditch and a seasonally-flooded area outside of the ditch.											
HYDROLOG	Y										
A3 - SaturationC1 - Hydrogen Sulfide OdorB10 - Drainage PatternsB1 - Water MarksC2 - Dry Season Water TableC3 - Oxidized Rhizospheres onB2 - Sediment DepositsC3 - Oxidized Rhizospheres on Living Roots (not tillsC8 - Crayfish BurrowsB3 - Drift DepositsC4 - Presence of Reduced IronC9 - Saturation Visible on AerialB4 - Algal Mat or CrustC7 - Thin Muck SurfaceD2 - Geomorphic PositionB5 - Iron DepositsOther (Explain)D5 - FAC-Neutral Test									<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:       Ves       Depth:       (in.)       Wetland Hydrology Present?       N         Saturation Present?       Yes       Depth:       26       (in.)       (in.)       N         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Metland Hydrology Present?       N											
Remarks: No primary or secondary hydrological indicators were observed.											
SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
									1		
		Matrix				Mottl					
Depth (In.)		Color (Moist)	%		(Moist)	%	Туре	Location	Texture		
0-15	Hue_10YR		10						SCL SCL	fine sand	
15-26	Hue_10YR	4/1	10	0					SUL	fine sand	
NRCS Hydr	ic Soil Field	Indicators (cl	neck here if i	ndicators are	not presen	it):			Indicators 1	for Problematic Soils <sup>1</sup>	
	A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (L cky Peat or Peat (LR	:e [ [ [ _RR G, H]	<ul> <li>S5 - Sandy F</li> <li>S6 - Stripped</li> <li>F1 - Loamy F</li> <li>F2 - Loamy F</li> <li>F3 - Deplete</li> <li>F6 - Redox F</li> <li>F7 - Deplete</li> <li>F8 - Redox F</li> <li>F16 - High P</li> </ul>	d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surfa Depressions	ix e ace	-RA 72, 73 of LRF	<ul> <li>A9 - 1 cm Muck (LRR I, J)</li> <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> A 72, 73 of LRR H) <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Restrictive Layer	yer Type: Depti					Hydric Soil Present? N					
Remarks: Soil is black fine sandy clay loam underlain by lighter fine sandy clay loam; toward the bottom of the profile, dense pebbles are present. Profile does not meet any hydric soil indicators.											

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Project/Site:	L3R				Sample Point: u-155n45w34-m1				
VEGETATIO		are non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.		<u>% Cover</u>	<u>Dominant</u>	<u>Ind.Status</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.									
4.	]	]			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.		1			A D A D A D A D A D A D A D A D A D A D				
8.	]				Prevalence Index Worksheet				
9.									
10.					Total % Cover of: <u>Multiply by:</u> OBL sop 25 x 1 - 25				
10.	Total Cover	= 0			$FACW spp \qquad 0 \qquad x 2 = 0$				
					OBL spp.       25       X       1 =       25         FACW spp.       0       X       2 =       0         FAC spp.       0       X       3 =       0         FACU spp.       5       X       4 =       20				
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20				
1.					UPL spp. $85$ X 5 = 425				
2.									
3.		1			Total 115 (A) 470 (B)				
4.									
5.					Prevalence Index = B/A = <b>4.087</b>				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	Total Cover = 0				$\frac{1}{2} = \frac{1}{2} $				
Harb Stratum (	Plot oizo: E ft. rodius)				Morphological Adaptations (Explain) *				
nero Stratum ( 1.	Plot size: 5 ft. radius) Triticum aestivum	85	V	NI	Problem Hydrophytic Vegetation (Explain) *				
2.			N	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Beckmannia syzigachne	20	N N	OBL	present, unless disturbed or problematic.				
4.	Persicaria amphibia	5 5	N	FACU	Definitions of Vegetation Strata:				
5.	Setaria pumila	<b>5</b>	IN	TACU	Deminions of Vegetation Strata.				
6	[	1							
7.	 	1			<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.	I	1							
		1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Saping/Sinub - Woody plants less than o in. Dbri, regardless of height.				
10.		P							
11.	1				<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
12.	1	1			<b>THE D</b> - An Herbaceous (Horrwoody) plants, regardless of size.				
13. 14.	1								
	1				Woody Vines - All woody vines, regardless of height.				
15.	T-(-) O-				WOODY VILLES - An woody villes, regardless of height.				
	Total Cover	= 115							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.	1								
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.	Tatal Oa								
Dereserter	Total Cover								
Remarks: Sample site dominated by cultivated wheat.									
Additional F	Remarks:								