WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: Ci	Marsh	all		Sampling Date:	2015-06-08
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	u-156n46w27-d1
Investigator(s):		Section, Towns	hip, Range:		
sideslope Landform (hillslope, terrace, etc.):			f (concave, conv		8-15 Slope (%):
Subregion (LRR or MLRA):	Latitude	48.297287654 :		-96.55685774 :ude:	
Datum: Minnesota State Plane North, NAD 83	3 (2011) U.S. feet				
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typical	al for this time of y	ear? (if no, exp	lain in Remarks):	Yes
Are Vegetation No	o significantly dis	sturbed? Are "I	Normal Circums	Yes tances" present?	
Are Vegetation No					
SUMMARY OF FINDINGS - Attach site map show	ving sampling poir	nt locations, tra	nsects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	No	Is the Sam	pled Area		
Hydric Soil Present?	No	within a W	/etland?	No	
Wetland Hydrology Present?	No	If yes, opti	onal Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or i	n a separate repor	t.)			
The upland point is located at the edge of a gravel	road and is domin	ated by grasses			
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species	
1	·			That Are OBL, FACW, or FAC: 0	(A)
2				Total Number of Dominant	
3.				2 Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	- Total Causa		0 That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15)	0	= Total Cover		Prevalence Index worksheet:	(A/B)
1.				Total % Cover of:	Multiply by:
2			2 -	OBL species 0.00	x1 0
3	_			FACW species 0.00	x 2 0
4				FACU species 0.00	x 3 <u>208</u>
5				UPL species 50.00	x 4 <u>250</u>
	0	= Total Cover		Column Totals 102	(A) <u>458</u> (B)
Herb Stratum (Plot Size: 5) 1 Bromus inermis				Prevalence Index = B	
Don protoncis	_ 50.00	Yes	UPL	Hydrophytic Vegetation Indicator	
2. Poa annua		Yes No	FACU FACU	1 - Rapid Test for Hydrop no 2 - Dominance Test is > 5	, ,
4.		140	IACO	no 3 - Prevalence Index is ≤ 3	_
5				4 - Morphological Adapta	_
6	_			supporting data in Remarks or o	n a separate sheet)
7				Problematic Hydrophytic Vegetation	n ¹
8				(Explain)	
9				Indicators of hydric soil and wetland hydro unless disturbed or problematic.	ology must be present,
10				·	
	102	= Total Cover	-		
Woody Vine Stratum (Plot Size: 30		- Total Cover			
1.					
	_			-	
2			-	-	
	0	= Total Cover			
% Bare Ground in Herb Stratum 0				Hydrophytic Vegetation	
				Present?	
Remarks:					
Vegetation is dominated by Kentucky bluegrass and smooth	brome.				

SOIL Sampling Point: u-156n46.

Depth Matinches) Color (moist) 0-8 10YR 2 1 8-16 2.5Y 4 4 16-19 10YR 2 1 16-19 2.5Y 4 4 Type: C=Concentration, D=Depletion (Matinch Epipedon (Matinch Epipe	tt) % 100 75 23 2.5 50 50	Color (moist)		Type ¹ C		Texture LFS LFS LFS LFS LFS	Remarks loamy fine sand loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand with gravel, mixed matrix
10YR 2 1 10YR 2 1 2.5Y 4 4 2.5Y 4 5 2.5Y 4 5 2.5Y 4 5 2.5Y 4 6 2.5Y 4 7 2.5	100 75 23 2.5 50 50	x, MS=Masked Sand G Sandy Gleye Sandy Redo	2			LFS LFS LFS	loamy fine sand loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand with gravel, mixed matrix
10YR 2 1 2.5Y 4 4 6-19 10YR 2 1 6-19 2.5Y 4 4 6-19 2.5Y 4 4 6-19 2.5Y 4 4 Type: C=Concentration, D=Depletion of the properties of the	75 23 20 50 50	x, MS=Masked Sand G Sandy Gleye Sandy Redo Stripped Ma	irains.	<u>C</u>	M	LFS LFS	loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand, mixed matrix loamy fine sand with gravel, mixed matrix
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10YR 2 1 2.5Y 4 4 Type: C=Concentration, D=Depletion ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface	50 50	x, MS=Masked Sand G Sandy Gleye Sandy Redo Stripped Ma	irains.			LFS	loamy fine sand, mixed matrix loamy fine sand with gravel, mixed matrix
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Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface		Stripped Ma		54)		_ 10	cm Muck (A9) (LRR I, J)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface			x (S5)			☐ co	oast Prairie Redox (A16)(LRR K, L, R)
Hydrogen Sulfide (A4) Stratified Layers (A5) 1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface			atrix (S6)			Da	ark Surface (S7) (LRR G)
Stratified Layers (A5) 1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface				/E1\ /I DD	V 1)		gh Plains Depressions (F16)
1cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface					K, L)		
Depleted Below Dark Surface		Loamy Gley		F2)			R H outside of MLRA 72 & 73)
¬		Depleted M	atrix (F3)			□ Re	educed Vertic (F18)
Thick Dark Surface (A12)	(A11)	Redox Dark	Surface (F6	5)		☐ Re	ed Parent Material (F21)
illick Dark Surface (A12)		Depleted Da	ark Surface	(F7)		☐ Ve	ery Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Redox Depr	essions (FR)		Ot	ther (explain in remarks)
2.5cm Mucky Peat or Peat (S2	(IRR G H)	High Plains	•	•			
							tors of hydrophytic vegetation and
5cm Mucky Peat or Peat (S3)	LKK F)	(WILKA)	2 & 73 of L	KK H)			d hydrology must be present, unless ed or problematic.
estrictive Layer (if present):	П						
Type: Depth (inches):					H	lydric Soil Prese	nt? No
emarks:							
Vetland Hydrology Indicators							ere met.
rimary Indicators (minimum o							Contact
	f one is required; o	check all that apply	<u>')</u>			<u>S</u>	econdary Indicators (minimum of two requir
Surface Water (A1)	f one is required; o	check all that apply	_			<u>s</u>	
	f one is required; o		<u> </u>	13)		<u>s</u>	econdary Indicators (minimum of two requir
Surface Water (A1)	f one is required; o	Salt Crust (B11	_ L) ebrates (B1			<u>s</u>	econdary Indicators (minimum of two requir Surface Soil Cracks (B6)
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Surface Water (A1) High Water Table (A2) Saturation (A3)	f one is required; o	Salt Crust (B1: Aquatic Invert Hydrogen Sulf	ebrates (B1 ide Odor (C ater Table (C2)	pots (C3)	<u>s</u>	econdary Indicators (minimum of two requir Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
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