WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: Ci	Marsh	all		Sampling Date:	2015-06-03
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	w-156n46w34-b1
ACM/KRG		Section, Towns	hip. Range:		
depression Landform (hillslope, terrace, etc.):			f (concave, con	Conca	0-2 Slope (%):
		48 289691722		-96.54377745 tude:	лоре (<i>70</i>)
Subregion (LRR or MLRA): Minnesota State Plane North, NAD 83		:	Longi	tude:	
Datum:	, , , , , , , , , , , , , , , , , , , ,				
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typic				•	Yes
Are Vegetation No	o significantly di	sturbed? Are "I	Normal Circums	tances" present?	
Are Vegetation No	_ naturally probler	matic? (If need	led, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ving sampling poir	nt locations, tra	nsects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	Yes	Is the Sam	pled Area		
Hydric Soil Present?	Yes	within a W	/etland?	Yes	
,	Yes		onal Wetland S	ite ID:	•
Wetland Hydrology Present? Remarks: (Explain alternative procedures here or i	n a separate repor				
The wetland is a fresh wet meadow within a roads		,			
VEGETATION - Use scientific names of plants.					
	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
2.	-			That Are OBL, FACW, or FAC: $\frac{1}{1}$ Total Number of Dominant	(A)
				1	
3		-		Species Across All Strata: Percent of Dominant Species	(B)
4.			·	100	
	0	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
1.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
2				OBL species 40.00	
3				FACW species 89.00	x 2 <u>178</u>
4				FACU species 2.00	x3 <u>0</u>
5		= Total Cover		UPL species 0.00 Column Totals 131	x 4 <u>0</u> (A) <u>224</u> (B)
Herb Stratum (Plot Size: 5)	<u> </u>	- Total Cover		Prevalence Index = B	_ (-)
1. Phalaris arundinacea	75.00	Yes	FACW	Hydrophytic Vegetation Indicators	
2. Typha angustifolia	25.00	No	OBL	1 - Rapid Test for Hydropl	
3. Calamagrostis canadensis Carex pellita	_ 10.00	No	FACW	yes 2 - Dominance Test is > 50	_
4. Carex pellida 5. Scirpus pallidus	- <u>10.00</u> 5.00	No No	OBL OBL	yes 3 - Prevalence Index is ≤ 3 4 - Morphological Adapta	
6. Equisetum hyemale	2.00	No	FACW	supporting data in Remarks or o	
7. Lysimachia ciliata	2.00	No	FACW	Problematic Hydrophytic Vegetatio	n ¹
8. Equisetum arvense		No	FAC	(Explain)	
9				Indicators of hydric soil and wetland hydro unless disturbed or problematic.	logy must be present,
10	- <u> </u>			_	
	131	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1				_	
2				_	
	0	= Total Cover			
% Bare Ground in Herb Stratum 0				Hydrophytic	
				Vegetation Present?	
Remarks:	· · · · · · · · · · · · · · · · · · ·				
The wetland is dominated by reed canary grass. Narrow-leaf	cattail is also prevaler	nt.			

SOIL Sampling Point: w-156n46.

Depth Matrix inches) Color (moist) Type: C=Concentration, D=Depletion, RM=Reduction Address: Histosol (A1) Histic Epipedon (A2)	Redox Features % Color (moist) % Type ¹ L	Loc ² Texture Remarks
Type: C=Concentration, D=Depletion, RM=Redu ydric Soil Indicators:		
ydric Soil Indicators: Histosol (A1)	ced Matrix, MS=Masked Sand Grains.	
ydric Soil Indicators: Histosol (A1)	ced Matrix, MS=Masked Sand Grains.	
dric Soil Indicators: Histosol (A1)	ced Matrix, MS=Masked Sand Grains.	
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ydric Soil Indicators: Histosol (A1)	ced Matrix, MS=Masked Sand Grains.	
ydric Soil Indicators: Histosol (A1)	cea Matrix, Mis-Maskea Saria Granis.	2 Location: PL=Pore Lining, M=Mat
Histosol (A1)		Indicators for Problematic Hydric Soil ³ :
¬		
Histic Epipedon (A2)	Sandy Gleyed Matrix (S4)	1cm Muck (A9) (LRR I, J)
	Sandy Redox (S5)	Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (LRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L	L) High Plains Depressions (F16)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
7	Depleted Matrix (F3)	Reduced Vertic (F18)
1cm Muck (A9) (LRR F, G, H)		
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Parent Material (F21)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (explain in remarks)
7		, ,
2.5cm Mucky Peat or Peat (S2)(LRR G, H)	High Plains Depressions (F16)	³ Indicators of hydrophytic vegetation and
☐ 5cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present, unless
		disturbed or problematic.
strictive Layer (if present):		
Type:		. Voc
Depth (inches):		Hydric Soil Present? Yes
emarks:	•	
etland Hydrology Indicators:		
rimary Indicators (minimum of one is red	ruired: check all that anniv)	Secondary Indicators (minimum of two require
<u> </u>	<u> </u>	
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Aquatic Invertebrates (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
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High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) ield Observations: urface Water Present? Vater Table Present? aturation Present? ncludes capillary fringe) lescribe Recorded Data (stream gauge, means)	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches) No Depth (inches) No Depth (inches) No Depth (inches)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) yes Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) yes Geomorphic Position (D2) yes FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Wetland Hydrology Present? Yes Northcentral and Northeast Region – Version 2
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Ield Observations: urface Water Present? //ater Table Present? aturation Present? includes capillary fringe) escribe Recorded Data (stream gauge, memarks: the wetland is located in a roadside ditch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches) No Depth (inches) No Depth (inches) No Depth (inches)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) yes Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) yes Geomorphic Position (D2) yes FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Wetland Hydrology Present? Yes Northcentral and Northeast Region – Version:
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) ield Observations: urface Water Present? //ater Table Present? aturation Present? includes capillary fringe) escribe Recorded Data (stream gauge, memarks: the wetland is located in a roadside ditch	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches) No Depth (inches) No Depth (inches) No Depth (inches)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) yes Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) yes Geomorphic Position (D2) yes FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Wetland Hydrology Present? Yes tions), if available: