WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: City	Marsha y/County:	all		Sampling Date:	2015-07-08
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	w-156n46w21-g1
BJC/BCS Investigator(s):	9	Section, Towns	hip, Range:		
Depression Landform (hillslope, terrace, etc.):				Conca vex, none):	0-2% Slope (%):
Subregion (LRR or MLRA):	Latitude:	48.315499182		-96.58085262 rude:	
Datum: Minnesota State Plane North, NAD 83	(2011) U.S. feet				
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typical	for this time of ye	ear? (if no, exp	lain in Remarks):	Yes
Are Vegetation No	_ significantly dis	turbed? Are "	Normal Circums	tances" present?	
Are Vegetation No	naturally problem	natic? (If need	led, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poin	t locations, tra	insects, importa	ant features, etc.	
Y Hydrophytic Vegetation Present?	es	Is the Sam	pled Area		
Y Hydric Soil Present?	es	within a W	/etland?	Yes	_
Y Wetland Hydrology Present?	es	If yes, opti	onal Wetland Si	te ID:	•
Remarks: (Explain alternative procedures here or in	a separate report	:.)			
The wetland is a fresh wet meadow dominated by li	mestone meadow	sedge and red	dtop. It is locate	d in a depression between a w	heat field and a field r
VEGETATION - Use scientific names of plants.				•	
	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	76 COVE	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 4	(A)
2				Total Number of Dominant	(A)
2				4 Species Across All Strata:	(B)
4				Percent of Dominant Species	(0)
	0	- Total Cover	-	100 That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15 ft)	<u> </u>	- Total Cover		Prevalence Index worksheet:	(A/B)
1. Salix interior	15.00	Yes	FACW	Total % Cover of:	Multiply by:
2. Salix discolor	5.00	Yes	FACW	OBL species 25.00	_ ···
3			_	FACW species 65.00 FACU species 15.00	_ ^
5				UPL species 0.00	x4 0
	20	= Total Cover			(A) <u>260</u> (B)
Herb Stratum (Plot Size: 5 ft) Agrostis gigantea				Prevalence Index = B/	
Agrosus gigantea Carex granularis	35.00 20.00	Yes Yes	OBL FACW	Hydrophytic Vegetation Indicators yes 1 - Rapid Test for Hydroph	
3. Juncus tenuis	15.00	No	FAC	yes 2 - Dominance Test is > 50	
4. Hordeum jubatum	10.00	No	FACW	yes 3 - Prevalence Index is ≤ 3	.01
5. Lotus corniculatus C. Scirpus pallidus	10.00	No	FACU	4 - Morphological Adaptat supporting data in Remarks or or	
6. Poa pratensis	5.00	No No	FACU FACU	Problematic Hydrophytic Vegetation	
8	5.00	110	IACO	(Explain)	
9				Indicators of hydric soil and wetland hydro	logy must be present,
10				unless disturbed or problematic.	
	100	= Total Cover	-		
Woody Vine Stratum (Plot Size:)		- Total Cover			
1.					
2.					
	0	= Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic	
				Vegetation Present?	
Remarks:			-		
The wetland sample point is dominated by sparse sandbar will	ow and pussy willow	in the shrub laye	r and limestone m	eadow sedge and redtop in the herb	aceous layer.

SOIL Sampling Point: w-156n46.

Mortice) Color (mosts) Six Col	cptii iiidtiik		d to document the indicator or Redox Features				
Type: C-Consentration, D-Depletion, NA-Hodured Marris, MS-Masked Sand Grains. **Accention: P1-Prote Using, M-Masked Sand Grains. **Ac	nches) Color (moist)			e ¹ Loc ²	Texture	Remar	ks
Microso (As) Sandy Gleyed Matrix (54) In Music Ap() (LBR F, I, I) In Music Ap() (LBR F,	nenesy color (moist)	70	Color (moise) 70 Typ	LOC	rexture	Kemai	K3
Indicators: Indicators: Indicators for Problematic Hydric Soil*: Indicators (A1) Indiv. (A9) (BRR J. J. Indiv. (A9) Indiv.							
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Indicators:	Type: C=Concentration D=Depletion R	M=Reduced Matrix	MS=Masked Sand Grains			2 ocation: Pl	=Pore Lining M=Mat
Historic (A1) Sandy feleyed Mistrix (54) Lem Muck (A9) (IRR L, I) Historic (A3) Sandy feleyed Mistrix (55) Coart Prairie Redox (A5)(IRR L, I) Historic (A3) Stripped Mistrix (55) Coart Prairie Redox (A5)(IRR L, I) Hydrogen Salide (A4) Loamy Mickly Mineral (F1) (IRR R, I) Hydrogen Salide (A5) Loamy Mickly Mineral (F1) (IRR R, I) Strailled Layers (A5) Coart Mistrix (F2) (IRR R, I) Depleted Matrix (F2) Red Parent Mistrix (F3) Depleted Redox (F2) Red Parent Mistrix (F3) Thick Dank Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (F12) Thick Dank Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (F12) Sonn Muckly Mineral (S1) Red Parent Mistrix (F3) Red Parent Mistrix (F2) Sonn Muckly Peat or Peat (S2)(IRR G, H) High Plains Depressions (F8) Other (explain in remarks) Sonn Muckly Peat or Peat (S3) (IRR F) Milk A 72 & 73 of IRR H) Milk A 72 & 73 of IRR H) Sufficiency Peat or Peat (S3) (IRR F) Milk A 72 & 73 of IRR H) Milk A 72 & 73 of IRR H) Milk A 72 & 73 of IRR H) Sufficiency Peat (If present): Hydric Soil Present): Milk A 72 & 73 of IRR H) Sufficiency Milk A 72 & 73 of IRR H) Sufficiency Milk A 72 & 73 of IRR H) Sufficiency Milk A 72 & 73 of IRR H) Sufficiency Peat (If present): Hydric Soil Cracks (IRC) Hydrogen Soilide Code (ICC)		IVI-Neduced IVIaci IX	, MIS-Masked Salid Grains.		Indicators fo		
Hatsic Epipedeon (A2) Sandy Redox (S5) Casat Prairie Redox (A16)(RBR K, L, R)	7					-	
Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G) Hydrogen Salfide (A4) Loanny Mauchy Mineral (F1) (LRR K, U) High Phins Depressions (F16) Stratified Layers (A5) Loanny Gleyed Matrix (F2) (LRR H outside of MURA 72 & 73) Strom Muck (A9) (LRR F, G, H) Depleted Matrix (F2) (LRR H outside of MURA 72 & 73) Thick 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 Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) (LRR F) High Pisins Depressions (F16) Son Mucky Peat or Peat (S2) (LRR G, H) High Pisins Depressions (F16) Son Mucky Peat or Peat (S2) (LRR F) (MURA 72 & 73 of LRR H) Sufficient Layer (If present): Hydric Soil Present): Type: Depth (inches): Hydric Soil Present): Depth (inches): Hydric Soil Present): Hydric Soil Present): Depth (inches): Hydric Soil Present): Surface Water (A1) Sait Crust (B1) Sait Crust (B1	☐ Histosol (A1) ☐		Sandy Gleyed Matrix (S4)		_		
Hydrogen Sulfide (A4)	Histic Epipedon (A2)		Sandy Redox (S5)		☐ Coast F	Prairie Redox (A16)(LRR K, L, I	R)
Stratified Layers (AS)	Black Histic (A3)		Stripped Matrix (S6)		Dark Su	urface (S7) (LRR G)	
Lem Musk (A0) (LRR F, G, H)	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1) (L	RR K, L)	High PI	ains Depressions (F16)	
Lem Musk (A0) (LRR F, G, H)	Stratified Lavers (A5)		Loamy Gleved Matrix (F2)		(IRR H c	outside of MIRA 72 & 73)	
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Sandy Mucky Mineral [31] Redox Depressions (F8) Other (explain in remarks)	Depleted Below Dark Surface (A11	1)	Redox Dark Surface (F6)		☐ Red Pa	rent Material (F21)	
2.5cm Mucky Peat or Peat (52) (LRR G, H)	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		Very Sh	nallow Dark Surface (TF12)	
2.5cm Mucky Peat or Peat (52) (LRR G, H)	¬		Redox Depressions (E9)		✓ Other (explain in remarks)	
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disturbed or problematic. Type:	2.5cm Mucky Peat or Peat (S2)(LR	RR G, H)	☐ High Plains Depressions (F16)	³ Indicators o	of hydrophytic vegetation and	d .
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Type:					disturbed or	problematic.	
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