WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: City	Marsh //County:	all		Sampling Date:	2015-07-08						
Enbridge Applicant/Owner:		State:	innesota	Sampling Point:	u-156n46w21-g1						
BJC/BCS Investigator(s):		Section, Town	nship, Range:								
Talf Landform (hillslope, terrace, etc.):		Local Reli	ef (concave, conv	Linear /ex, none):	0-2 Slope (%):						
Subregion (LRR or MLRA):	Latitude	48.31548539		-96.58073502 ude:							
Datum: Minnesota State Plane North, NAD 83	(2011) U.S. feet										
Strandquist loam Soil Map Unit Name:				NWI Classification	on:						
Are climatic/hydrologic conditions on the site typical	for this time of y	year? (if no, ex	plain in Remarks	:	Yes						
Are Vegetation Yes Yes No No No Hydrology No	_ significantly di	sturbed? Are	"Normal Circums	Yes tances" present?							
Are Vegetation No											
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.											
Hydrophytic Vegetation Present?		Is the Sar	npled Area								
No			Wetland?	No							
Hydric Soil Present? N	0		tional Wetland Si	te ID:	-						
Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in	a separate repor										
The upland is a wheat field located in a flat area tha			drainage into a f	resh wet meadow. The soils ar	e significantly disturbe						
VEGETATION - Use scientific names of plants.											
	Absolute	Dominant	Indicator	Dominance Test worksheet:							
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species							
1				That Are OBL, FACW, or FAC: 0	(A)						
2				Total Number of Dominant							
3				Species Across All Strata:	(B)						
4				Percent of Dominant Species							
	0	= Total Cover		0 That Are OBL, FACW, or FAC:	(A/B)						
Sapling/Shrub Stratum (Plot Size:)		-		Prevalence Index worksheet:							
1				Total % Cover of:	Multiply by:						
2				OBL species 0.00	x 1 <u>0</u>						
3			_	FACW species 0.00	x 2 <u>0</u>						
5.		-	_	FACU species 5.00 UPL species 85.00	x 3						
3.	0	= Total Cover		Column Totals 90	(A) 440 (B)						
Herb Stratum (Plot Size: 5 ft)				Prevalence Index = B							
1. Triticum aestivum	80.00	Yes		Hydrophytic Vegetation Indicators							
2. Bromus inermis	5.00	No	UPL	1 - Rapid Test for Hydropl	nytic Vegetation						
3. Eragrostis pectinacea	5.00	No	FAC	no 2 - Dominance Test is > 50							
4	-			no 3 - Prevalence Index is ≤ 3							
6.				4 - Morphological Adapta supporting data in Remarks or o							
7				Problematic Hydrophytic Vegetatio	n^1						
8.				(Explain)							
9				1 Indicators of hydric soil and wetland hydro	logy must be present,						
				unless disturbed or problematic.							
10.		-	_								
	90	= Total Cover									
Woody Vine Stratum (Plot Size:)											
1	-			-							
2											
	0	_ = Total Cover									
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Present?							
Remarks:											
Remarks: The upland sample point is dominated by healthy wheat.											

SOIL Sampling Point: u-156n46.

Depth Matrix inches) Color (moist) D-6 10YR 2 1 D-7 1 10YR 4 4 D-7	% 100 100 100	Redox F Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
10YR 2 1 10YR 4 4 1-24 2.5Y 6 3 Type: C=Concentration, D=Depletion, RM=Respectively.	100							
2.5Y 6 3 Type: C=Concentration, D=Depletion, RM=Resolveric Soil Indicators:						FSL		
Type: C=Concentration, D=Depletion, RM=Relydric Soil Indicators:						LS		
Type: C=Concentration, D=Depletion, RM=Reyydric Soil Indicators:						FSL	_	
ydric Soil Indicators:						132	<u> </u>	
ydric Soil Indicators:							-	
ydric Soil Indicators:								
ydric Soil Indicators:								
ydric Soil Indicators:							_	
	educed Matrix,	MS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, I	M=Mat
Histosol (A1)						Indicat	ors for Problematic Hydric Soil ³ :	
		Sandy Gleyed	Matrix (S4	1)		1	cm Muck (A9) (LRR I, J)	
Histic Epipedon (A2)		Sandy Redox	(S5)			□ c	past Prairie Redox (A16)(LRR K, L, R)	
Black Histic (A3)		Stripped Matr	rix (S6)			□ D	ark Surface (S7) (LRR G)	
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (I	F1) (LRR I	K, L)	□н	igh Plains Depressions (F16)	
Stratified Layers (A5)		Loamy Gleyed	d Matrix (F	2)		(LF	RR H outside of MLRA 72 & 73)	
1cm Muck (A9) (LRR F, G, H)		Depleted Mat		•			educed Vertic (F18)	
			` ,					
☐ Depleted Below Dark Surface (A11)		Redox Dark Su					ed Parent Material (F21)	
Thick Dark Surface (A12)		Depleted Dark	k Surface (F7)		□ v	ery Shallow Dark Surface (TF12)	
Sandy Mucky Mineral (S1)		Redox Depres	sions (F8)				ther (explain in remarks)	
2.5cm Mucky Peat or Peat (S2)(LRR G,	, H)	High Plains De	epressions	(F16)		3 _{Indica}	tors of hydrophytic vegetation and	
5cm Mucky Peat or Peat (S3) (LRR F)		(MLRA 72	& 73 of LR	R H)			d hydrology must be present, unless	
						disturb	ed or problematic.	
estrictive Layer (if present):								
Type:								
Depth (inches):			Ī		ŀ	Hydric Soil Prese	nt? NO	
o indicators of hydric soil were observed.								
YDROLOGY								
Vetland Hydrology Indicators:	required; ch	neck all that apply)				<u> </u>	econdary Indicators (minimum of two re	quire
/etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1)	required; ch	Salt Crust (B11)				S	Surface Soil Cracks (B6)	
/etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2)	required; ch	Salt Crust (B11) Aquatic Inverteb				S	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)	
/etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3)	required; ch - - -	Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid	e Odor (C1	L)		<u>s</u>	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10))
/etland Hydrology Indicators: rimary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required; ch	Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Dry-Season Wate	le Odor (C1 er Table (C	2)		\$	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots ()
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