## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Clearwate ty/County:	r	Sampling Date:	2015-07-08		
Enbridge			Minnesota		CL006f1W		
Applicant/Owner:ACM/LEE			State:	Sampling Point:			
Investigator(s):		Sec	tion, Township, Range: _				
dep Landform (hillslope, terrace, etc.):	oression		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):		
		47		-95.54477529	Minnesota State		
Subregion (LRR or MLRA): 582		Latitude:	LON	gitude: Dat	um:		
Soil Map Unit Name:				NWI Classification	on:		
Are climatic/hydrologic conditions on	the site typic	al for this time of year	? (if no, explain in Remar	ks):	Yes		
Are Vegetation No No No No No	No Hydrology	o significantly distur	bed? Are "Normal Circui	Yes mstances" present?			
No No	No						
Are Vegetation, Soil, or Hy	ydrology	_ naturally problemati	ic? (If needed, explain a	ny answers in Remarks)			
SUMMARY OF FINDINGS - Attach s	site man shov	ving sampling point lo	ocations transects imno	rtant features, etc			
JOHNNAKT OF FINDINGS ACCOUNTS		Yes	reactions, transcets, impo	rtunt reutures, etc.			
Hydrophytic Vegetation Present?		<del></del>	Is the Sampled Area	V			
Hydric Soil Present?		Yes ——	within a Wetland?	Yes	_		
Watland Hydrology Procent?		Yes	If yes, optional Wetland Site ID:				
Wetland Hydrology Present?  Remarks: (Explain alternative procedum)	ures here or i	n a separate report.)					
Remarks: (Explain alternative procedures here or in a separate report.)  The wetland is a fresh wet meadow located in a swale within a recently mowed hay field. The vegetation is dominated by reed canary grass and fowl bl							
		•	,	,	, 5		
LIVEROLOGY							
HYDROLOGY  Watland Hydrology Indicators:				Cocondary Indicators /mi	simum of two required)		
Wetland Hydrology Indicators:				Secondary Indicators (mi			
Primary Indicators (minimum of one is	s required; ch	_		Surface Soil Cracks (			
Surface Water (A1)	_	Water-Stained Leave	• •	yes Drainage Patterns (E	·		
		<ul><li>Aquatic Fauna (B13)</li><li>Marl Deposits (B15)</li></ul>		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
		Hydrogen Sulfide Oc		Crayfish Burrows (C8)			
		, ,	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
		Presence of Reduced		Stunted/Stressed Plants (D1)			
		Recent Iron Reduction		yes Geomorphic Position (D2)			
Iron Deposits (B5)				Shallow Aquitard (D3	)		
Inundation Visible on Aerial Imagery (B7) Other (Exp		Other (Explain in Re	marks)	Microtopographic Re	lief (D4)		
Sparsely Vegetated Concave Surface (	(B8)			yes FAC-Neutral Test (D5	)		
Field Observations:		,	'				
Surface Water Present?	No	Depth (inches)					
Water Table Present?	No	Depth (inches)					
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present?	<u>Yes</u>		
(includes capillary fringe)							
Describe Recorded Data (stream gaug	e, monitoring	g well, aerial photos, p	revious inspections), if a	vailable:			
Remarks:							
The wetland is in a low swale and pas	ses the FAC-N	Neutral test.					

<b>VEGETATION</b> - Use scientific names of plants.  Sampling Point: CL006f1W							
·	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species			
1				That Are OBL, FACW, or FAC: 2 (A)			
2				Total Number of Dominant			
		-		2			
3				Species Across All Strata: (B)			
4				Percent of Dominant Species			
5				100 That Are OBL, FACW, or FAC:(A/B)			
6				Prevalence Index worksheet:			
7		-	-	Total % Cover of: Multiply by:			
	0	= Total Cover		OBL species 0.00 x 1 0			
Sapling/Shrub Stratum (Plot Size:)		_		FACW species 30.00 x 2 60			
1				FACU species 0.00 x 3 0			
2				UPL species 0.00 x 4 0			
3		_		Column Totals 30 (A) 60 (B)			
4.	-	<del></del>	<del></del>	Prevalence Index = B/A = 2			
5		-		Hydrophytic Vegetation Indicators:			
6.		-	-	-  ' ' ' '			
7.	-	·		1 - Rapid Test for Hydrophytic Vegetation  yes 2 - Dominance Test is > 50%			
7.	0	= Total Cover	<del></del>	$\frac{\text{yes}}{\text{yes}} = 3 - \text{Prevalence Index is } \le 3.0^{1}$			
Herb Stratum (Plot Size: 5 ft )	<u> </u>	_ = Total Cover		_			
Herb Stratum (Plot Size: 5 ft )  Phalaris arundinacea	20.00	Voc	FACW	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
Poa palustris	10.00	Yes Yes	FACW	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> </ul>			
2.	10.00	165	FACW	Problematic Hydrophytic Vegetation (Explain)			
3		-	-	- <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless			
4		-	-	disturbed or problematic.			
5	-	-		Definitions of Vegetation Strata:			
6	-			-			
7		<del></del>		Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.			
8							
9		-	·	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
10							
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
12							
	30	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.			
Woody Vine Stratum (Plot Size:)							
1				_			
2		_	_	Hydrophytic			
3		_		Vegetation Present?			
4							
	0	_ =Total Cover					
Remarks: (include photo numbers here or on a separate sheet.	)						
The vegetation is dominated by reed canary grass and fowl blue	grass and has rec	ently been hayed.					

Sampling Point: CL006f1W SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type<sup>1</sup> Loc<sup>2</sup> (inches) Color (moist) % Color (moist) Texture Remarks 0-13 10YR 2 1 100 sil 13-24 10YR 4 1 60 10YR 5 8 10 С Μ cl 10YR 3 2 13-24 20 10YR 58 10 С M cl <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil<sup>3</sup>: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, MLRA 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Dark Surface (S7) (LRR K, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) **✓** Iron-Maganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Stripped Matrix (S6) Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B) Restrictive Layer (if observed):

Hydric Soil Present? Yes

Type:

Remarks:

Depth (inches):

The soils are silt loam over depleted clay loam and meet hydric soil indicator A12.