WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Wadena ty/County:		Sampling Date:	2015-07-20		
Enbridge			Minnesota		WA002d1W		
Applicant/Owner: ACM/B	rs		State:	Sampling Point:			
Investigator(s):		Sec	tion, Township, Range: _				
Landform (hillslope, terrace, etc.):	epression		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):		
LRR K Subregion (LRR or MLRA):		 46 Latitude:	7961024586	-94.91441669			
543 Soil Map Unit Name:				NWI Classificatio	PSS1C		
				•	Yes		
Are climatic/hydrologic conditions of	••	•		•			
Are Vegetation No No No No No No	r Hydrology	significantly distur	bed? Are "Normal Circu	mstances" present?			
No No No No Are Vegetation No No No naturally problematic? (If needed, explain any answers in Remarks)							
SUMMARY OF FINDINGS - Attach	site map shov	ving sampling point lo	ocations, transects, impo	ortant features, etc.			
Hudranbutic Vagatation Present?	· · · · · · · · · · · · · · · · · · ·	Yes	Is the Samulad Area				
Hydrophytic Vegetation Present?		 Yes	Is the Sampled Area	Yes			
Hydric Soil Present?			within a Wetland?				
Wetland Hydrology Present?	•	Yes	If yes, optional Wetland	d Site ID:			
Remarks: (Explain alternative proce	dures here or i	n a separate report.)					
The wetland is a sedge meadow adj	jacent to a Shru	ıb-Carr in a depressior	n of upland forest. Veget	ation is dominated by lake sedge	and tussock sedge.		
HYDROLOGY			-				
Wetland Hydrology Indicators:				Secondary Indicators (min	nimum of two required)		
Primary Indicators (minimum of one	is required; ch	eck all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	_	Water-Stained Leave		Drainage Patterns (B	·		
Yes High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B16	<i>'</i>		
yes Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water Ta			
Water Marks (B1)	_	Hydrogen Sulfide Oc		Crayfish Burrows (C8)			
Sediment Deposits (B2)	_		res on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	_	Presence of Reduced			Stunted/Stressed Plants (D1) yes Geomorphic Position (D2)		
Algal Mat or Crust (B4)	_	Recent Iron Reduction		Geomorphic Position	` '		
Iron Deposits (B5)	— · · (D7)	Thin Muck Surface (Shallow Aquitard (D3	Snallow Aquitard (D3) Microtopographic Relief (D4)		
	Inundation Visible on Aerial Imagery (B7) Other (Explai		marks)	1/05	yes FAC-Neutral Test (D5)		
Field Observations:	е (во)			FAC-Neutral Test (D3)			
Surface Water Present?	No	Depth (inches)					
Water Table Present?	Yes	Depth (inches)					
Saturation Present?	Yes	Depth (inches)		Wetland Hydrology Present?	Yes		
(includes capillary fringe)		, , ,		, ,,			
Describe Recorded Data (stream gau	ıge, monitoring	well, aerial photos, p	revious inspections), if a	vailable:			
Remarks:							
The wetland is saturated at the surf	ace.						
	- -						
					1		

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot Size: 30 ft) % Cover	Species?	Status	Number of Dominant Species
1. Populus tremuloides	5.00	Yes	FACU	That Are OBL, FACW, or FAC: 3(A)
2				Total Number of Dominant
				3
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				100 That Are OBL, FACW, or FAC:(A/B)
	_	<u> </u>	_	Prevalence Index worksheet:
6	•		_	-
7				Total % Cover of: Multiply by:
15 ft	5	_ = Total Cover		OBL species <u>97.00</u> x 1 <u>97</u>
Sapling/Shrub Stratum (Plot Size: 15 ft Populus tremuloides				FACW species 10.00 x 2 20
1	5.00	Yes	FACU FACU	FACU species $\frac{10.00}{}$ x 3 $\frac{0}{}$
2. Spiraea alba	5.00	Yes	FACW	UPL species <u>0.00</u> x 4 <u>0</u>
3				Column Totals (A) (B)
4		_	_	Prevalence Index = B/A = 1.2564102
5				Hydrophytic Vegetation Indicators:
6				no 1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	10	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide
1. Carex lacustris	75.00	Yes	OBL	supporting data in Remarks or on a separate sheet)
2. Carex stricta	15.00	No No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Agrostis gigantea	5.00	No	FACW	_
4. Carex utriculata	5.00	No	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Persicaria amphibia	2.00	No No	OBL	
5			_ OBL	_ Definitions of Vegetation Strata:
6				-
7	_			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				— Control of the cont
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12	_			woody plants less than 3.28 ft tall.
	102	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30 ft)				
1.				
				Hydrophytic
2.			_	Vegetation
3				Present?
4	0			-
		=Total Cover		
Remarks: (include photo numbers here or on a separate sh	neet.)			
The vegetation is dominated by lake sedge.				

Sampling Point: WA002d1W

SOIL								Sampling Point: WA002d1W
Profil	e Description: (Describe to the	depth ne	eded to document the	indicate	or or con	firm th	e absence of ir	
Depth	th Matrix		Redox F	Redox Features				
(inche	, , ,	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2 2	_ 100		·			MP	mucky peat
3-6	10YR 2 1	- 100		· ——			<u>M</u>	muck
6-10	10YR 3 1	_ 100		·			sl	
10-16		_ 50		·			sicl	_
10-16	10YR 2 1	- 50		·			sicl	Mixed matrix
16-24	10YR 2 1	100					scl	-
		_						
¹ Type:	C=Concentration, D=Depletion, RM=	Reduced M	atrix, MS=Masked Sand Gra	ains.				² Location: PL=Pore Lining, M=Matrix
Hydric	Soil Indicators:			,			Indicators fo	r Problematic Hydric Soil ³ :
Histosol (A1)		Polyvalue Below 149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	Histic Epipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149B)		Coast Prairie Redox (A16)(LRR K, L, R)			
	ack Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L)			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Hydrogen Sulfide (A4)					Dark Surface (S7) (LRR K, M)		
	Stratified Layers (A5)					Polyvalue Below Surface (S8) (LRR K, L)		
	Depleted Below Dark Surface (A11)					Thin Dark Surface (S9) (LRR K, L)		
	Thick Dark Surface (A12)	Dark Surface (A12) Depleted Dark Surface (F7)			Iron-Maganese Masses (F12) (LRR K, L, R)			
	Sandy Mucky Mineral (S1)				Piedmont Floodplain Soils (F19) (MLRA 149B)			
	Sandy Gleyed Matrix (S4)						Mesic S _I	podic (TA6) (MLRA 144A, 145, 149B)
	Sandy Redox (S5)						Red Par	rent Material (F21)
	Stripped Matrix (S6)					Very Shallow Dark Surface (TF12)		

The observed profile consists of a layer of mucky peat underlain by muck, further underlain by mineral soil. The soil meets problematic hydric indicator A10, 2 cm Mucky.

Other (explain in remarks)

Hydric Soil Present? Yes

Dark Surface (S7) (LRR R, MLRA 149B)

Restrictive Layer (if observed):

Depth (inches):

Type: _

Remarks: