WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Carlton City/County:		Sampling Date:	2015-06-27	
Enbridge			Minnesota		CR162g1W	
Applicant/Owner:ACM/LEB			State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range: _			
depression Landform (hillslope, terrace, etc.):			Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):	
Subregion (LRR or MLRA): La		46 Latitude:	5.357958 Lor	-92.179194	Minnesota State	
303						
Soil Map Unit Name:				. NWI Classificatio	on: Yes	
Are climatic/hydrologic conditions	on the site typic	al for this time of year	? (if no, explain in Remai	rks):	——————————————————————————————————————	
Are Vegetation No No No No No No No	or Hydrology	o significantly distur	bed? Are "Normal Circu	mstances" present?		
No No	No					
Are Vegetation, Soil, or	nyurology	_ naturally problemati	icr (ii needed, explain a	iny answers in Remarks)		
SUMMARY OF FINDINGS - Attac	:h site map shov	ving sampling point lo	cations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area Yes			
		—— Yes				
Hydric Soil Present?			within a Wetland?		-	
Yes Wetland Hydrology Present?		Yes ——	If yes, optional Wetland Site ID:			
Remarks: (Explain alternative proc	edures here or i	n a separate report.)				
The wetland is a hardwood swam	p within a larger	forest. Vegetation is o	dominated by aspen, blac	ck ash, and greater bladder sedge		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
	a is required, sh	ook all that apply)				
Primary Indicators (minimum of one is required; check all that a			as (RQ)		Surface Soil Cracks (B6) Drainage Patterns (B10)	
• /		Water-Stained LeaveAquatic Fauna (B13)	• •	Drainage Patterns (B10) Moss Trim Lines (B16)		
		Marl Deposits (B15)		Dry-Season Water Table (C2)		
, ,		Hydrogen Sulfide Oc		Crayfish Burrows (C8)		
. ,		Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction	on in Tilled Soils (C6)	yes Geomorphic Position (D2)		
Iron Deposits (B5) Thin Mu		Thin Muck Surface (C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (E		Other (Explain in Re	marks)	Microtopographic Re	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surfa	ice (B8)			yes FAC-Neutral Test (D5)	
Field Observations:						
Surface Water Present?	<u>No</u>	Depth (inches)				
Water Table Present?	<u>No</u>	Depth (inches)				
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology Present?	<u>Yes</u>	
(includes capillary fringe)		a wall agric shotos n	manufactura (manufactural) (fina	l cilabla.		
Describe Recorded Data (stream ga	auge, monitoring	g weii, aeriai photos, p	revious inspections), if a	valiable:		
Remarks:						
The wetland is located in a low spo	ot and passes the	e FAC-Neutral test.				

VEGETATION - Use scientific names of plants.

mber of Dominant Species t Are OBL, FACW, or FAC: $\frac{4}{}$ (A)			
t Are ORL EACW or EAC: 4			
LAIE ODL, FACW, ULFAC (A)			
al Number of Dominant			
4			
cies Across All Strata: (B)			
cent of Dominant Species			
100 t Are OBL, FACW, or FAC:(A/B)			
valence Index worksheet:			
al % Cover of: Multiply by:			
species <u>5.00</u> x 1 <u>5</u>			
W species <u>141.00</u> x 2 <u>282</u>			
CU species 60.00 x 3 68			
species <u>0.00</u> x 4 <u>0</u>			
umn Totals <u>223</u> (A) <u>535</u> (B)			
Prevalence Index = B/A = $\frac{2.3991031}{1}$			
rophytic Vegetation Indicators:			
1 - Rapid Test for Hydrophytic Vegetation			
2 - Dominance Test is > 50%			
3 - Prevalence Index is ≤ 3.0 ¹			
4 - Morphological Adaptations 1 (Provide			
supporting data in Remarks or on a separate sheet)			
elematic Hydrophytic Vegetation ¹ (Explain)			
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Definitions of Vegetation Strata:			
Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
		b - All herbaeceous (non-woody) plants, regardless of size, and	
		woody plants less than 3.28 ft tall.	
		Woody vines - All woody vines greater than 3.28 ft in height.	
ones - All woody villes greater than 3.20 ft in height.			
Irophytic			
retation			
sent?			

Sampling Point: CR162g1W

Sampling Point: CR162g1W SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type¹ Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-8 5YR 3 2 80 sic 0-8 5YR 4 4 18 7.5YR 5 8 2 С Μ Mixed matrix. С 5YR 4 4 8-24 85 7.5YR 5 8 15 С Μ С ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: **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)

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

The soils are silty clay over red clay and meet hydric soil indicator F21.

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks:

Other (explain in remarks)

Hydric Soil Present? Yes