WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	Carlton ty/County:		Sampling Date:	2015-06-29	
Enbridge			Minnesota		CR162i1W	
pplicant/Owner:ACM/LEB			State:	Sampling Point:		
Investigator(s):		Sec	tion, Township, Range: _			
dep Landform (hillslope, terrace, etc.):	ression		Local Relief (concave, co	Conca onvex, none):	0-2 Slope (%):	
		46		-92.298199	Minnesota State	
Subregion (LRR or MLRA): 303		Latitude:	LON	gitude: Dat	um:	
Soil Map Unit Name:				NWI Classification	on:	
Are climatic/hydrologic conditions on	the site typica	al for this time of year	? (if no, explain in Remar	ks):	Yes	
Are Vegetation No No No No No	No) significantly distur	hed? Are "Normal Circur	No		
No No	No					
Are Vegetation, Soil, or Hy	/drology	_ naturally problemati	c? (If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS - Attach s	ite man shou	ing sampling point lo	cations transacts imno	rtant features etc		
SOMMANT OF FINDINGS - Attachs	-	Yes	cations, transects, impo	rtant reatures, etc.		
Hydrophytic Vegetation Present?			Is the Sampled Area			
Hydric Soil Present?	`	Yes 	within a Wetland?	Yes	_	
Matter della della accione	,	Yes	If yes, optional Wetland			
Wetland Hydrology Present? Remarks: (Explain alternative procedum)	ures here or i	a a senarate renort)	, , ,			
The wetland is a fresh wet meadow le			d within a cleared ninelin	e corridor. The prominent identi	fiable vegetation inclu	
				·	Ü	
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)	
Primary Indicators (minimum of one is	required; ch	eck all that apply)		Surface Soil Cracks (B6)	
yes Surface Water (A1)	_	Water-Stained Leave	• •	Drainage Patterns (E		
High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B1	,	
	Saturation (A3) Marl Deposits				Dry-Season Water Table (C2)	
	Water Marks (B1) Hydrogen Sulf			Crayfish Burrows (C8	, , ,	
	, , ,		es on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)	
	Drift Deposits (B3) Presence of Rec				Stunted/Stressed Plants (D1) /es Geomorphic Position (D2)	
Iron Deposits (B5)	Algal Mat or Crust (B4) Recent Iron Redu			Geomorphic Position	Shallow Aquitard (D3)	
			•		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (Inundation Visible on Aerial Imagery (B7) Other (Explain i			yes FAC-Neutral Test (D5	• •	
Field Observations:	,507	,			1	
Surface Water Present?	Yes	Depth (inches)	1			
Water Table Present?	No	Depth (inches)				
Saturation Present?	No	Depth (inches)		Wetland Hydrology Present?	Yes	
(includes capillary fringe)						
Describe Recorded Data (stream gaug	e, monitoring	well, aerial photos, p	revious inspections), if av	vailable:		
Remarks:						
The wetland is located in a low area o	of a field and h	nas areas of standing v	vater.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ee Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species		
		эрээлэг.		That Are OBL, FACW, or FAC: 1 (A)		
				Total Number of Dominant		
	-			1		
				Species Across All Strata:(B)		
		_		Percent of Dominant Species		
				100 That Are OBL, FACW, or FAC:(A/B)		
			_	Prevalence Index worksheet:		
		<u> </u>		Total % Cover of: Multiply by:		
	0	= Total Cover	_	OBL species 15.00 x 1 15		
aling/Shruh Stratum (Dlat Siza:	<u> </u>	_ = 10tal covel		FACW species 42.00 x 2 84		
oling/Shrub Stratum (Plot Size:)				X2		
		_	_	x 3		
			_			
	-			(N)(D)		
			_	Prevalence Index = B/A = <u>2.2763157</u>		
			_	Hydrophytic Vegetation Indicators:		
	-			1 - Rapid Test for Hydrophytic Vegetation		
				yes 2 - Dominance Test is > 50%		
	0	= Total Cover		<u>yes</u> 3 - Prevalence Index is $\le 3.0^1$		
rb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
Poa palustris	40.00	Yes	FACW	-		
Scirpus microcarpus	15.00	No No	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
Trifolium pratense	10.00	_ No	FACU	1 Indicators of hydric soil and wetland hydrology must be present, unless		
Lotus corniculatus	5.00	No	FACU	disturbed or problematic.		
Taraxacum officinale	2.00	<u>No</u>	FACU	Definitions of Vegetation Strata:		
Equisetum arvense	2.00	<u>No</u>	FAC	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast		
Phalaris arundinacea	2.00	<u>No</u>	FACW			
	-			height (DBH), regardless of height. —		
		_		Sapling/Shrub - Woody plants less than 3 in. DBH and greater that		
				or equal to 3.28 ft (1 m) tall.		
				Herb - All herbaeceous (non-woody) plants, regardless of size, and		
-				woody plants less than 3.28 ft tall.		
	76	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
-	70			,,,,		
	70					
oody Vine Stratum (Plot Size:)	70					
oody Vine Stratum (Plot Size:)	70		_	Hvdronhvtic		
oody Vine Stratum (Plot Size:)	70			— Hydrophytic — Vegetation		
oody Vine Stratum (Plot Size:)				1 ' ' '		
oody Vine Stratum (Plot Size:)				Vegetation		
oody Vine Stratum (Plot Size:) emarks: (include photo numbers here or on a separate shee)	0	=Total Cover		Vegetation		

SOIL								Sampling Point: CR162i1W
Profile Description: (De	scribe to the depth	needed to	document the	e indicato	or or con	firm the	absence of inc	dicators.)
Depth	Matrix Redox Features							
(inches) Colo	or (moist) %		lor (moist)	% 	Type ¹	Loc ²	Texture	Remarks
		_ —						
		_						
	Donlotion DM-Dadwood		-Macked Sand C					2Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Depletion, Rivi=Reduced	i iviatrix, ivis	=iviaskeu sanu G	railis.			Indicators for	Problematic Hydric Soil ³ :
Histosol (A1)			Polyvalue Below	/ Surface (S	8) (LRR R,	MLRA		ick (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)			Thin Dark Surfac	ce (S9) (LRR	R. MLRA	149B)		airie Redox (A16)(LRR K, L, R)
Black Histic (A3)			Loamy Mucky M			·	5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)		Loamy Gleyed N				☐ Dark Surf	face (S7) (LRR K, M)
Stratified Layers (A5)			Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
Depleted Below Dark	Surface (A11)		Redox Dark Surf	ace (F6)			Thin Dark	s Surface (S9) (LRR K, L)
Thick Dark Surface (A	.12)		Depleted Dark S	urface (F7)			Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy Mucky Minera	I (S1)		Redox Depression	ons (F8)			Piedmont	t Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix	(S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)							Red Pare	ent Material (F21)
Stripped Matrix (S6)							Very Sha	illow Dark Surface (TF12)
Dark Surface (S7) (LR	R R, MLRA 149B)						✓ Other (ex	xplain in remarks)
Restrictive Layer (if observed	d):							
Туре:						н	ydric Soil Present?	yes Yes
Depth (inches):							, a	·
Remarks:								

Soils were not sampled due to the location over existing pipelines but are assumed hydric based on the landscape position and dominance of hydrophytic vegetation.