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

SPP Project/Site:	С	Aitkin ity/County:		Sampling Date:	2015-06-27		
Applicant/Owner: Enbridge			Minnesota State:	, -	Al2C5158b1U Sampling Point:		
BEH/k Investigator(s):		Sec	ction, Township, Range:				
	Crest		Local Relief (concave,	convex, none):	Slope (%):		
Subregion (LRR or MLRA):		Latitude:	6.6242223140 Lo	-93.24272129 ongitude: Dat	Minnesota State um:		
Soil Map Unit Name:				NWI Classification	PEM5B on:		
Are climatic/hydrologic conditions	on the site typic	al for this time of yea	r? (if no, explain in Rema	arks):	Yes		
Are Vegetation No , Soil No ,	N or Hydrology	o significantly distu	rbed? Are "Normal Circ	:umstances" present?			
Are Vegetation No No No No No	No						
SUMMARY OF FINDINGS - Attac	ch site map show	wing sampling point l	ocations, transects, imp	oortant features, etc.			
Hydrophytic Vegetation Present?		No	Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?				
		No	If yes, optional Wetland Site ID:				
Wetland Hydrology Present? Remarks: (Explain alternative proc	adures here or i	in a congrate report )	, , , , , , , , , , , , , , , , , , , ,	<del></del>			
HYDROLOGY				Casandan Indicators (vai	ning of tour manufactor		
Wetland Hydrology Indicators:				Secondary Indicators (mi	nimum of two required)		
Primary Indicators (minimum of on	ie is required; ch	neck all that apply)		Surface Soil Cracks (	(B6)		
Surface Water (A1) Water-Stained				Drainage Patterns (E			
High Water Table (A2) Aquatic Fauna				Moss Trim Lines (B1	` ,		
. ,	Saturation (A3) Marl Deposit:				Dry-Season Water Table (C2)		
. ,	Water Marks (B1) Hydrogen Sulf			Crayfish Burrows (C8)			
Sediment Deposits (B2)			res on Living Roots (C3)	Saturation Visible on	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Deposits (B3) Presence of Re				Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Red		ion in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface	(C7)	Shallow Aquitard (D3	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7) Other (Expla		Other (Explain in Re	emarks)	Microtopographic Re	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surfa	ice (B8)			FAC-Neutral Test (D5	5)		
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>No</u>		
(includes capillary fringe)							
Describe Recorded Data (stream ga	auge, monitoring	g well, aerial photos, p	previous inspections), if	available:			
Remarks:							
No primary or secondary hydrolog	ical indicators w	ere observed.					

**VEGETATION** - Use scientific names of plants.

Sampling Point: Al2C5158...

	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
	_			1
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				0 That Are OBL, FACW, or FAC:(A/B)
6			_	Prevalence Index worksheet:
		_	_	-
7			_	
	0	_ = Total Cover		
Sapling/Shrub Stratum (Plot Size:)				FACW species <u>5.00</u> x 2 <u>10</u>
1			_	FACU species 0.00 x 3 120
2			_	UPL species x 4
3			<del>-</del>	Column Totals 90 (A) 405 (B)
4			_	Prevalence Index = B/A = 4.5
5			_	_ Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	0	_ = Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5 ft )				4 - Morphological Adaptations <sup>1</sup> (Provide
1. Bromus inermis	55.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2. Elymus repens	15.00	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Poa pratensis	15.00	No	FACU	<u> </u>
4. Phalaris arundinacea	5.00	No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
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			_	-
	90	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1			_	-
2				Hydrophytic  Vegetation
3				Present?
4				_
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	t.)			
The sample point is dominated by smooth brome.				

SOIL								Sampling Point: Al2C5158
Profile Descri	ption: (Describe to the de	epth needed t	o document th	e indicato	or or con	firm the	absence of inc	dicators.)
Depth	Matrix		Redox	Features	;			
(inches)	Color (moist)	% C	color (moist)	% 	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
				- -				
				- -				
				- -				
<sup>1</sup> Type: C=Conce	ntration, D=Depletion, RM=Re	duced Matrix, N	IS=Masked Sand G	rains.				<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indic	ators:			o ( (			Indicators for	Problematic Hydric Soil <sup>3</sup> :
Histosol	(A1)		Polyvalue Below 149B)	/ Surrace (S	58) <b>(LKK K,</b>	WILKA	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		Thin Dark Surfac	ce (S9) <b>(LRF</b>	R R, MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
Black His	tic (A3)		Loamy Mucky M	lineral (F1)	(LRR K, L)		5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Gleyed N	/latrix (F2)			Dark Surf	face (S7) (LRR K, M)
Stratified	l Layers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) <b>(LRR K, L)</b>
☐ Depleted	Below Dark Surface (A11)		Redox Dark Surf	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Dar	rk Surface (A12)		Depleted Dark S	urface (F7)	)		☐ Iron-Mag	ganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depressi	ons (F8)			Piedmont	: Floodplain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic Spo	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy Re	dox (S5)						Red Pare	nt Material (F21)
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Surf	face (S7) <b>(LRR R, MLRA 149B)</b>						Other (ex	xplain in remarks)
Restrictive Layer	(if observed):							
Туре:						н	ydric Soil Present?	No
Depth	(inches):						yanic John resent:	
Remarks:								

Soils were not sampled due to the roadside location. Based on the dominant vegetation and lack of hydrology, soils are assumed to be non-hydric.