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

SPP Project/Site:	Aitkin City/County:		Sampling Date:	2015-06-30	
Enbridge		Minnesota		AIC5311f1W	
Applicant/Owner: BJC/DGL		State:	Sampling Point:		
Investigator(s):	Sec	tion, Township, Range:			
Depression Landform (hillslope, terrace, etc.):		Local Relief (concave, con	Conca nvex, none):	0-2% Slope (%):	
LRR K	46		-93.12768294	Minnesota State	
Subregion (LRR or MLRA):980	Latitude:	Longi	itude: Dati	um:	
Soil Map Unit Name:			NWI Classification	n:	
Are climatic/hydrologic conditions on the site	typical for this time of year	? (if no, explain in Remark	s):	Yes	
Are Vegetation No	No significantly distur	hed? Are "Normal Circum	Yes		
No No	No				
Are Vegetation, Soil, or Hydrology	naturally problemati	ic? (If needed, explain any	y answers in Remarks)		
SUMMARY OF FINDINGS - Attach site map	chawing campling paint la	esations transacts import	tant faaturas, ats		
30 WINDAKT OF FINDINGS - Attach site map	Yes	cations, transects, import	tant reatures, etc.	1	
Hydrophytic Vegetation Present?	<del></del>	Is the Sampled Area			
Hydric Soil Present?	Yes	within a Wetland?	Yes		
	Yes	If yes, optional Wetland S	Site ID:		
Wetland Hydrology Present?	o or in a constrate report \	n yes, optional wetland			
Remarks: (Explain alternative procedures her The wetland is a fresh wet meadow dominate		l vellow lake sedge. It is loo	cated in a depression within a h	avfield	
The wettand is a fresh wet meadow dominate	eu by reeu cariary grass and	a yellow lake seage. It is loo	cated in a depression within a n	ayneiu.	
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)	
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (	B6)	
Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
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 Reduce		Stunted/Stressed Plants (D1)  yes		
Algal Mat or Crust (B4)		on in Tilled Soils (C6)	Geomorphic Position (b2)		
Iron Deposits (B5)	Thin Muck Surface (		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re	marks)	Microtopographic Relief (D4)  Yes FAC-Neutral Test (D5)		
Sparsely Vegetated Concave Surface (B8)  Field Observations:			FAC-Neutral Test (D5		
Surface Water Present? No	Depth (inches)				
Water Table Present?		i			
Saturation Present?			Wetland Hydrology Present?	Yes	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, p	revious inspections), if ava	nilable:		
Remarks:					
The wetland is adjacent to a perennial stream					
,					

ee Stratum (Plot Size:)	% Cover	Species?	Indicator Status	Number of Dominant Species  That Are OBL, FACW, or FAC:  Total Number of Dominant	
			_	_ rotal Namber of Bollinant	
		_		2	
			_	Species Across All Strata: (B)	
			_	Percent of Dominant Species	
				100 That Are OBL, FACW, or FAC:(A/B)	
			_	Prevalence Index worksheet:	
			_	Total % Cover of: Multiply by:	
	0	= Total Cover		OBL species 35.00 x 1 35	
oling/Shrub Stratum (Plot Size:)	<u>-</u>			FACW species 40.00 x 2 80	
(Plot size)				FACU species 20.00 x 3 40	
		_	_	UPL species 0.00 x 4 0	
_		_	_		
	-		_	(5)	
				Prevalence Index = B/A = 2.0476190	
		_	_	Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
			_	yes 2 - Dominance Test is > 50%	
5.0	0	= Total Cover			
Note				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
	40.00	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:	
Carex utriculata	25.00	Yes	OBL OBL		
Carex tenera	15.00	No	FAC		
Phleum pratense	10.00	<u>No</u>	FACU		
Scirpus microcarpus	10.00	<u>No</u>	OBL		
Ranunculus acris	5.00	No No	FAC FAC		
		_	_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
		_	_	—	
				<ul> <li>Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</li> <li>Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</li> <li>Woody vines - All woody vines greater than 3.28 ft in height.</li> </ul>	
	105	_ = Total Cover			
oody Vine Stratum (Plot Size:)					
			_		
				Hydrophytic Vegetation Present?	
	· -				
	0	=Total Cover		1	
marks: (include photo numbers here or on a separate shee					
ne wetland sample point is dominated by reed canary grass a		Igo			
e wettand sample point is dominated by reed canary grass a	ina yellow lake sec	ige.			

Sampling Point: AIC5311f1W 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 0-8 10YR 3 2 95 5 Μ 8-24 10YR 5 2 90 5YR 3 4 10 С Μ  $\mathsf{SC}$ <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) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) 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)

A depleted matrix was observed under a dark surface layer with redox concentrations.

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks:

Other (explain in remarks)

Hydric Soil Present? Yes