WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Aitkin ity/County:		2015-07-01 Sampling Date:			
Enbridge Applicant/Owner:		Minnesota State:		AIC5311f1U Sampling Point:			
	DGL	Sec	tion, Township, Range:				
Landform (hillslope, terrace, etc.):	Talf :		Local Relief (concave, o	Linear convex, none): -93.12777774	0-2% Slope (%): Minnesota State		
Subregion (LRR or MLRA):625		Latitude:	Lo	ngitude: Da	tum:		
Soil Map Unit Name:				NWI Classificat	ion:		
Are climatic/hydrologic conditions Are Vegetation No	, or Hydrology No	o significantly distur	bed? Are "Normal Circu	yes umstances" present?	Yes		
SUMMARY OF FINDINGS - Atta	ach site map show	wing sampling point lo	ocations, transects, impo	ortant features, etc.			
Hydrophytic Vegetation Present? No No		No	Is the Sampled Area				
		No	No within a Wetland?				
Hydric Soil Present?		No					
Wetland Hydrology Present?			If yes, optional Wetland Site ID:				
Remarks: (Explain alternative pro The upland sample point is locate							
HYDROLOGY Wetland Hydrology Indicators:				Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of c	ne is required; cl	neck all that apply)		Surface Soil Cracks	s (B6)		
Surface Water (A1) Water-Stain		Water-Stained Leav	es (B9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fau		Aquatic Fauna (B13)	1	Moss Trim Lines (B16)			
Saturation (A3) Marl Depo		Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen S		Hydrogen Sulfide O	dor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhiz			res on Living Roots (C3)	Saturation Visible o	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of F		Presence of Reduce	d Iron (C4)	Stunted/Stressed P	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4) Recent Iron Re		Recent Iron Reducti	on in Tilled Soils (C6)	Geomorphic Position	Geomorphic Position (D2)		
Iron Deposits (B5) Thin Muck Su		Thin Muck Surface (C7)	Shallow Aquitard (I	93)		
		Other (Explain in Re	marks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Sur	face (B8)			FAC-Neutral Test (D	05)		
Field Observations:	No	5 (1 . 1 . 1					
Surface Water Present?	<u>No</u> No	Depth (inches)					
Water Table Present?	No No	Depth (inches)		National Hudusians Bussent	No		
Saturation Present? (includes capillary fringe)	140	Depth (inches)		Wetland Hydrology Present?	110		
Describe Recorded Data (stream g	gauge, monitorin	g well, aerial photos, p	revious inspections), if a	ıvailable:			
Remarks:							
No indicators of wetland hydrolo	gy are nresent						
No malcators of wetland mydrolo	gy are present.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ee Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
		эрсегсэ:	Status	That Are OBL, FACW, or FAC: $\frac{0}{1}$ (A)	
		_	_		
				Total Number of Dominant2	
				Species Across All Strata: (B)	
				Percent of Dominant Species	
				0	
			_	That Are OBL, FACW, or FAC:(A/B)	
			_	Prevalence Index worksheet:	
			_	Total % Cover of: Multiply by:	
	0	_ = Total Cover		X1	
pling/Shrub Stratum (Plot Size:)				X2	
		_	_	FACU species 15.00 x 3 160	
		_	_	UPL species 40.00 x 4 200	
				Column Totals(A)(B)	
		_	_	Prevalence Index = B/A = <u>4.2631578</u>	
			_	Hydrophytic Vegetation Indicators:	
			_	1 - Rapid Test for Hydrophytic Vegetation	
			_	no 2 - Dominance Test is > 50%	
	0	_ = Total Cover		$\frac{\text{no}}{}$ 3 - Prevalence Index is $\leq 3.0^1$	
erb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide	
Poa pratensis	40.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
Leucanthemum vulgare	25.00	Yes	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)	
Bromus inermis	15.00	<u>No</u>	UPL	1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Prunella vulgaris	10.00	No	FAC		
Ranunculus acris	5.00	No	FAC	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.	
·			_	Herb - All herbaeceous (non-woody) plants, regardless of size, and	
				woody plants less than 3.28 ft tall.	
···	95	= Total Cover	_	Woody vines - All woody vines greater than 3.28 ft in height.	
/oody Vine Stratum (Plot Size:)	33	_ = 10tal cover		woody vines - All woody vines greater than 3.28 it in neight.	
,					
		_	_	Hydrophytic	
			_	Vegetation	
		_	_	Present?	
	0		_	-	
		_ =Total Cover			
emarks: (include photo numbers here or on a separate sheet					
ne upland sample point is dominated by Kentucky bluegrass a	and oxeye daisy.				

Sampling Point: AIC5311f1U 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 0-14 10YR 3 2 100 5YR 3 4 14-24 10YR 5 3 98 2 С Μ SC 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)

Restrictive Layer (if observed):

Depth (inches):

No indicators of hydric soil were observed.

Type:

Remarks:

Other (explain in remarks)

Hydric Soil Present? No