WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C	Aitkin ity/County:		2 Sampling Date: _	015-06-27		
Enbridge Applicant/Owner:			Minnesota State:	Al2C5158c1U Sampling Point:			
	'KAT	Sec	tion, Township, Range:				
Landform (hillslope, terrace, etc.):	Side slope			LV convex, none): S	0-2 Slope (%): Minnesota State		
Subregion (LRR or MLRA):		Latitude:	5.6229895875 Lo	-93.24230220 ongitude: Datur	n:		
Soil Map Unit Name:				NWI Classification	:		
Are climatic/hydrologic conditions	on the site typic	al for this time of year	? (if no, explain in Rema	arks):	Yes		
No No No Are Vegetation, Soil	or Hydrology	o significantly distu	rhed? Are "Normal Circ	Yes umstances" present?			
No No No Are Vegetation, Soil, c	No						
SUMMARY OF FINDINGS - Atta	ich site map sho	wing sampling point lo	ocations, transects, imp	oortant features, etc.			
Hydrophytic Vegetation Present?			Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?				
Wetland Hydrology Present?		No	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative pro	cedures here or	in a senarate report \	1 ' '				
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicators (mini	mum of two required)		
Primary Indicators (minimum of o	na is raquirad: d	ack all that apply)		-			
Surface Water (A1)	ne is required, ci	Water-Stained Leav	os (RO)	Surface Soil Cracks (B6 Drainage Patterns (B10			
			• •		Moss Trim Lines (B16)		
High Water Table (A2) Aquatic Fauna Saturation (A3) Marl Deposits				,	Dry-Season Water Table (C2)		
Water Marks (B1)				Crayfish Burrows (C8)			
. ,			res on Living Roots (C3)	, , ,	Saturation Visible on Aerial Imagery (C9)		
			-		Stunted/Stressed Plants (D1)		
Drift Deposits (B3) Algal Mat or Crust (B4)					Geomorphic Position (D2)		
	Recent Iron Red				Shallow Aquitard (D3)		
	Iron Deposits (B5) Thin Muck Surfa						
Inundation Visible on Aerial Imagery (B7) Other (Expla		Other (Explain in Re	emarks)		Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surfield Observations:	lace (Bo)		-	FAC-Neutral Test (D5)			
Surface Water Present?	No	Depth (inches	1				
Water Table Present?	No	Depth (inches					
Saturation Present?	No	Depth (inches		Wetland Hydrology Present?	No		
(includes capillary fringe)		Depth (menes		Wettand Tryarology Fresent.			
Describe Recorded Data (stream g	gauge, monitorin	g well, aerial photos, p	previous inspections), if	available:			
Davida da							
Remarks:							
No primary or secondary hydrolo	gical indicators w	vere observed.					
i							

VEGETATION - Use scientific names of plants.

Sampling Point: AI2C5158c...

	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				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size:)		_		FACW species 0.00 x 2 0
1.				FACU species 0.00 x 3 20
2				UPL species 70.00 x 4 350
3				Column Totals 75 (A) 370 (B)
4				Prevalence Index = B/A = 4.9333
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'	<u>-</u>	_ = 10tal cover		4 - Morphological Adaptations (Provide
1 Bromus inermis	70.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2 Silene latifolia	5.00	No		Problematic Hydrophytic Vegetation ¹ (Explain)
2 Cirsium arvense	5.00	No	FACU	- Toblematic Hydrophytic Vegetation (Explain)
4	<u> </u>	_ 110	17100	lndicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.		_	_	Definitions of Vegetation Strata:
6		_		Definitions of Vegetation Strata.
7				The Mandaglant 2 is 476 and an array is discussed by the
8		_	_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast 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		_	_	-
	80	_ = 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 shee	et.)			
Roadside dominated by smooth brome.				

SOIL								Sampling Point: Al2C5158c
Profile Descri	ption: (Describe to the de	epth needed t	o document th	e indicato	or or con	firm the	absence of inc	licators.)
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	% C	olor (moist)	% 	Type ¹	Loc ²	Texture	Remarks
	-			 				
¹ Type: C=Conce	– mtration, D=Depletion, RM=Re	duced Matrix, M	S=Masked Sand G	rains.				² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indic	cators:						Indicators for	Problematic Hydric Soil ³ :
Histosol	(A1)		Polyvalue Below 149B)	v Surface (S	58) (LRR R,	MLRA	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)		Thin Dark Surfac	ce (S9) (LRF	R R, MLRA	149B)	Coast Pra	airie Redox (A16)(LRR K, L, R)
Black His	tic (A3)		Loamy Mucky M	1ineral (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	ace (S7) (LRR K, M)
Stratified	l Layers (A5)		Depleted Matrix	к (F3)			Polyvalue	e Below Surface (S8) (LRR K, L)
☐ Depleted	Below Dark Surface (A11)		Redox Dark Surf	face (F6)			Thin Dark	Surface (S9) (LRR K, L)
Thick Dar	rk Surface (A12)		Depleted Dark S	Surface (F7))		☐ Iron-Mag	anese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Redox Depression	ons (F8)			Piedmont	Floodplain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)						Mesic Spo	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Pare	nt Material (F21)
Stripped	Matrix (S6)						Very Sha	llow Dark Surface (TF12)
Dark Surf	face (S7) (LRR R, MLRA 149B)						Other (ex	xplain in remarks)
Restrictive Layer	r (if observed):							
Туре:						Н	ydric Soil Present?	No
Depth	(inches):						, a. 10 3011 1 1 1 2 5 1 1 1 1	
Remarks:								

Soils could not be sampled due to the roadside location. Based on the dominant vegetation and lack of wetland hydrology, the soil is assumed to be non-hydric.