WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci	WadenaCity/County:		2015-07-20 Sampling Date:		
Enbridge			Minnesota	WAC	002b1U	
Applicant/Owner:	/BCS		State:	Sampling Point:		
Investigator(s):	, bc3	Sec	tion, Township, Range:		-	
Landform (hillslope, terrace, etc.):	rise		Local Relief (concave, c	onvex, none): Slop	0-2 e (%):	
LRR K Subregion (LRR or MLRA):		Latitudo:	5.8007720169	-94.92551165	Minnesota State	
458E				PS	SS1C	
Soil Map Unit Name:				NWI Classification:		
Are climatic/hydrologic conditions	s on the site typic	al for this time of year	? (if no, explain in Rema	rks):		
Are Vegetation No No No No	Nor Hydrology	o significantly distur	bed? Are "Normal Circu	Yes umstances" present?		
No No	No					
Are Vegetation, Soil, c	or Hydrology	_ naturally problemat	ic? (If needed, explain a	any answers in Remarks)		
SUMMARY OF FINDINGS - Atta	ach site man show	ving sampling point lo	ocations transacts impo	ortant features, etc		
SOMMANT OF FINDINGS - ALL		No	cations, transects, impo	ortant reatures, etc.		
Hydrophytic Vegetation Present?			Is the Sampled Area			
Hydric Soil Present?		No 	within a Wetland?	No 		
		No	If yes, optional Wetland	d Site ID:		
Wetland Hydrology Present? Remarks: (Explain alternative pro	saduras bara ar i	n a congrato report \	, , , , , , , , , , , , , , , , , , , ,			
			as wetland exists just ou	tside of the survey corridor to the sout	hwast	
Opiana sample area located with	iii a bui oak iores	st iii a iiiappeu ivvvi, ti	ie wetialiu exists just ou	itside of the survey corridor to the sout	iiwest.	
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (minimur	n of two required)	
Primary Indicators (minimum of o	ne is required; ch	eck all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)		Water-Stained Leave	es (B9)	Drainage Patterns (B10)		
High Water Table (A2)	_	Aquatic Fauna (B13)	· ·	Moss Trim Lines (B16)		
Saturation (A3) Marl Depo		Marl Deposits (B15)		Dry-Season Water Table (C	Dry-Season Water Table (C2)	
Water Marks (B1) Hydrogen		Hydrogen Sulfide Od	dor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2) Oxidized		Oxidized Rhizospher	res on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		Presence of Reduce	d Iron (C4)	Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4) Recent Iro		Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)	Geomorphic Position (D2)	
Iron Deposits (B5) Thin Muck		Thin Muck Surface (C7)	Shallow Aquitard (D3)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Exp		Other (Explain in Re	marks)	Microtopographic Relief (De	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Sur	face (B8)			FAC-Neutral Test (D5)		
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 g	gauge, monitoring	g weii, aeriai photos, p	revious inspections), if a	ivaliable:		
Remarks:						
No primary or secondary wetland	I hydrology indica	tors were observed.				

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species	
1. Quercus macrocarpa	_ 50.00	Yes	FACU	That Are OBL, FACW, or FAC: 0(A)	
2. Pinus resinosa	10.00	No No	FACU	Total Number of Dominant	
Ouersus rubra				3	
3. Quercus rubra	_ 5.00	<u>No</u>	FACU	Species Across All Strata: (B)	
4	_ 5.00	No No	FACU	Percent of Dominant Species	
5	_			0 That Are OBL, FACW, or FAC:(A/B)	
6. Populus tremuloides	_			Prevalence Index worksheet:	
7	_		_	Total % Cover of: Multiply by:	
	70	= Total Cover	_	OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15 ft)		_		FACW species 1.00 x 2 2	
1. Quercus macrocarpa	5.00	Yes	FACU	FACU species 2.00 x 3 424	
2. Amelanchier alnifolia	5.00	Yes	FACU	UPL species 5.00 x 4 25	
3. Viburnum rafinesquianum	5.00	Yes		Column Totals 114 (A) 457 (B)	
4. Corylus cornuta	2.00	No	FACU	Prevalence Index = B/A = 4.0087719	
5			1400		
			_	Hydrophytic Vegetation Indicators:	
6	-			1 - Rapid Test for Hydrophytic Vegetation	
7	- <u></u> 17			$ \begin{array}{ccc} & 100 & 2 - Dominance Test is > 50\% \\ \hline & 100 & 3 - Prevalence Index is ≤ 3.01 \end{array} $	
	17	= Total Cover			
Herb Stratum (Plot Size: 5 ft Quercus macrocarpa	10.00	V	FACIL	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
Aralia nudicaulis	_ 10.00	Yes No.	FACU		
Conduc corputa	_ 5.00	No No	FACU	Problematic Hydrophytic Vegetation (Explain)	
Majanthamum canadansa	_ 5.00	<u>No</u>	FACU	1 Indicators of hydric soil and wetland hydrology must be present, unless	
Toxicodendron rydbergii		No	FACU	disturbed or problematic.	
Amelanchiar alrifolia		No	FAC	_ Definitions of Vegetation Strata:	
6. Ameranchier anniona 7. Rubus pubescens		No No	FACU	-	
7. Kubus pubescens	_ 1.00	No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
8	-			-	
9	_			Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
10	<u> </u>			— Consequence 3.28 ft (1 fil) tall.	
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and	
12			_	woody plants less than 3.28 ft tall.	
	27	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30 ft)					
1				_	
2.				Hydrophytic	
3				Vegetation Present?	
4.					
	0	=Total Cover]	
Remarks: (include photo numbers here or on a separate she		-			
Sample area is dominated by bur oak.	,				

Sampling Point: WA002b1U

Sampling Point: WA002b1U 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 0-16 10YR 2 1 100 FSL 16-24 10YR 2 1 80 FSL Mixed matrix. 16-24 2.5Y 6 3 20 FSL 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) Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B)

Hydric Soil Present? No

Restrictive Layer (if observed):

Depth (inches):

The observed profile consists of a black fine sandy loam underlain by a mixed fine sandy loam.

Type:

Remarks: