WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County	City/County: Cass		Sampling Date: 2016-07-29		
Applicant/Owner: Enbridge		State: Minneso	ota Sampl	ng Point: <u>u-139n25w18-ad2</u>		
Investigator(s): DPT, MGH	Secti	on, Township, Range: S18, 1	T139N, R25W			
Landform (hillslope, terrace, etc.): Ri	se	Local Relief (co	ncave, convex, none): VV	Slope (%): 0-2%		
Subregion (LRR or MLRA):		— Latitude: 46.8565982161	Longitude: -93.90085064	Datum: NAD83		
Soil Map Unit Name: 540			<u> </u>	assification: PUBH		
Are climatic/hydrologic conditions or	n the site typical for this	time of year? (if no, explain		Yes		
Are Vegetation No , Soil No , or	r Hydrology NO signific	antly disturbed? Are "Norm	nal Circumstances" present? Yes			
Are Vegetation No , Soil No , or H				_		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present?	No	Is the Sampled	<u> </u>			
Hydric Soil Present?	No	within a Wetla		No		
Wetland Hydrology Present?	No		Wetland Site ID:			
Remarks: (Explain alternative proce	dures here or in a separa					
Existing forest road, no digging, pot	•	. ,				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)		
Primary Indicators (minimum of one	is required; check all tha	at apply)	Surface So	oil Cracks (B6)		
Surface Water (A1)			ves (B9) Drainage Patterns (B10)			
High Water Table (A2)	High Water Table (A2) Aquatic Fauna (B1		Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15		Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide O		gen Sulfide Odor (C1)	or (C1)Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizo		ed Rhizospheres on Living Roots (C3)Saturation	Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		nce of Reduced Iron (C4)	Stunted/St	ressed Plants (D1)		
Algal Mat or Crust (B4) Rece		Recent Iron Reduction in Tilled Soils (C6)		ic Position (D2)		
Iron Deposits (B5)		Nuck Surface (C7)	Shallow Ac	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery	(B7) Other	(Explain in Remarks)		graphic Relief (D4)		
Sparsely Vegetated Concave Surface	(B8)		FAC-Neutr	al Test (D5)		
Field Observations:						
Surface Water Present?		epth (inches)				
Water Table Present?		epth (inches)				
Saturation Present?	<u>No</u> De	epth (inches)	Wetland Hydrology P	resent? <u>No</u>		
(includes capillary fringe)						
Describe Recorded Data (stream gau	ge, monitoring well, aer	ial photos, previous inspecti	ons), if available:			
Remarks:						
No digging, could not verify water to	able.					

Sapling/Shrub Stratum (Plot Size: 15

Tree Stratum

1. Quercus rubra

1. Corylus cornuta

(Plot Size: 30

Absolute

% Cover

60.00

20.00

Dominant

Species?

Yes

= Total Cover

Yes

Indicator

Status

FACU

2. Quercus rubra	10.00	Yes	FACU	UPL species <u>20.00</u> x 4 <u>100</u>	
3				Column Totals <u>170</u> (A) <u>670</u> (B)	
4				Prevalence Index = B/A = $\frac{3.9411764}{10.00000000000000000000000000000000$	
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				no 2 - Dominance Test is > 50%	
	30	= Total Cover		no 3 - Prevalence Index is ≤ 3.0 ¹	
Herb Stratum (Plot Size: 5)		_		4 - Morphological Adaptations (Provide	
1. Pteridium aquilinum	25.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
2. Plantago major	20.00	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Eurybia macrophylla	15.00	No	FACU	1	
4. Taraxacum officinale	10.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5. Solidago gigantea	10.00	No	FAC	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.		_	-	Herb - All herbaeceous (non-woody) plants, regardless of size, and	
11	_	-	-	woody plants less than 3.28 ft tall.	
12	80	- Total Caver	_	Woody vines - All woody vines greater than 3.28 ft in height.	
Manada Vina Chartana (Dint Cina 20	50	_ = Total Cover		woody vines - All woody vines greater than 5.26 it in neight.	
Woody Vine Stratum (Plot Size: 30)					
1.	•	_		- Hydrophytic	
2			_	Vegetation	
3				Present? No	
4			_	-	
	0	_=Total Cover			
Remarks: (include photo numbers here or on a separate sheet.	.)				
				Northcentral and Northeast Region – Version 2.0	
US Army Corps of Engineers				Not the third and Northeast Region - version 2.0	

Sampling Point: u-139n25... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks 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 Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches): Remarks: No digging, soils assumed non-hydric based on veg/hydro.

Site Photograph 1 Sampling Point: u-139n25w18-ad2



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Cowardin Classification:
Circular 39:
Eggers & Reed:

Site Photograph 2 Sampling Point: u-139n25w18-ad2



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Latitude: 46.8565849727456	Cowardin Classification:	
Longitude: -93.9008925576638	Circular 39:	
Direction: south	Eggers & Reed:	
Remarks:		
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