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

Project/Site: SPP	City/	City/County: Hubbard		Sampling Date: 2016-07-08		
Applicant/Owner: Enbridge			State: Minnesota	s	ampling Point: u-143n3	35w32-aa1
Investigator(s): DPT, KSH		_ Section, Townshi	p, Range: <u>S32, T143</u> I	N, R35W		
Landform (hillslope, terrace, etc.): Side S	lope		Local Relief (concav	re, convex, none): VV	Slope (%	6): 3-7%
Subregion (LRR or MLRA):		 Latitude: 47	7.1608049748	Longitude: -95.13345	 5074	083
Soil Map Unit Name: 526E				N	WI Classification: PFO1	.c
Are climatic/hydrologic conditions on the	e site typical f	for this time of year	? (if no. explain in Re		Yes	
Are Vegetation No , Soil No , or Hyd		,		,	? Yes	
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)						
SUMMARY OF FINDINGS - Attach site	map showin	g sampling point lo	cations, transects, i	mportant features, etc	<b>.</b>	
Hydrophytic Vegetation Present?	N	0	Is the Sampled Are	a		
Hydric Soil Present?	No	0	within a Wetland?		<u>No</u>	
Wetland Hydrology Present?	No	<u> </u>	If yes, optional Wet	land Site ID:		
Remarks: (Explain alternative procedure	es here or in a	separate report.)	-			
NWI verification point -upland						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary	Indicators (minimum o	f two required)
Primary Indicators (minimum of one is re	equired; chec	k all that apply)		Sur	face Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leave	s (B9)		inage Patterns (B10)	
<del></del>		Aquatic Fauna (B13)				
Saturation (A3)		Marl Deposits (B15)		Dry-	-Season Water Table (C2)	
		Hydrogen Sulfide Od	or (C1)	Cray	Crayfish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphere	es on Living Roots (C3)	Satu	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduced	Iron (C4)	Stun	Stunted/Stressed Plants (D1)	
		_ Recent Iron Reduction in Tilled Soils (C6)			Geomorphic Position (D2)	
Iron Deposits (B5) Thir		Thin Muck Surface (C7)			Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		_ Other (Explain in Ren	narks)	Micr	rotopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	)			FAC-	-Neutral Test (D5)	
Field Observations:						
Surface Water Present?	No	Depth (inches)				
Water Table Present?	<u>No</u>	Depth (inches)				
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrol	logy Present?	<u>No</u>
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring w	ell, aerial photos, p	revious inspections),	, if available:		,
Remarks:				· · · · · · · · · · · · · · · · · · ·		

Tree Stratum 1. Quercus alba

2. Acer saccharum

(Plot Size: 30

7				Total % Cover of: Multiply by:
	20	= Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15 )				FACW species <u>0.00</u> x 2 <u>0</u>
1. Populus tremuloides	40.00	Yes	FAC	FACU species <u>55.00</u> x 3 <u>220</u>
2. Corylus cornuta	40.00	Yes	UPL	UPL species <u>105.00</u> x 4 <u>525</u>
3. Acer saccharum	20.00	Yes	UPL	Column Totals (A) (B)
4.				Prevalence Index = B/A = 4.2045454
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				no 2 - Dominance Test is > 50%
	100	= Total Cover		no 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations (Provide
1. Eurybia macrophylla	40.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Carex pensylvanica	40.00	Yes		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Clintonia borealis	20.00	Yes	FAC	
4.	_			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_			<del></del> -	Definitions of Vegetation Strata:
5 6.				Definitions of Vegetation Strata.
7.				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8.	<del></del>			height (DBH), regardless of height.
9.	<del></del> -			Continue (Charle Woods along the 2 in DDU and supplied the
s	_			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				
	100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30 )				
1				
2.				Hydrophytic
3.		<u> </u>		Vegetation Present? No
4.				
	0	=Total Cover		
Remarker /include photo numbers here or an acceptate				<u> </u>
Remarks: (include photo numbers here or on a separate	sneet.)			
				Northcentral and Northeast Region – Version 2.0
US Army Corps of Engineers				Northcentral and Northeast Region – Version 2.0

Absolute

% Cover

15.00

5.00

Dominant

Species?

Yes

Yes

Indicator

Status

FACU

UPL

Sampling Point: u-143n35... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Type<sup>1</sup> Loc<sup>2</sup> (inches) Color (moist) % Color (moist) % Texture Remarks 10YR 3 2 100 0-6 FSL 10YR 4 3 100 6-14 LS <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 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): Type: Rock Hydric Soil Present? No Depth (inches): 14 Remarks:

Site Photograph 1 Sampling Point: u-143n35w32-aa1



Latitude:	47.1608105907656	Cowardin Classification:
Longitude:	-95.1334527601443	Circular 39:
Direction: wes	t t	Eggers & Reed:
Remarks:		
upland		

Site Photograph 2 Sampling Point: u-143n35w32-aa1



Latitude: 47.1608110098607	Cowardin Classification:
Longitude: -95.1334529277823	Circular 39:
Direction: north	Eggers & Reed:
Remarks:	
upland	