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

Project/Site: SPP	City/County: C	City/County: Clearwater		Sampling Date: 2016-06-30	
Applicant/Owner: Enbridge		State: Minnesota		ng Point: u-146n36w31-NWI2	
Investigator(s): DPT, ZCW	Section,	Township, Range: S31, T14	6N, R36W		
Landform (hillslope, terrace, etc.): Side S	lope	Local Relief (conca	ave, convex, none): VV	Slope (%): 0-2%	
Subregion (LRR or MLRA):	Lat	itude: 47.4230116932	Longitude: -95.28978791	Datum: NAD83	
Soil Map Unit Name: 40B			NWI Cla	ssification: PEMC	
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in				Yes	
Are Vegetation No , Soil No , or Hy	drology No significant	ly disturbed? Are "Normal	Circumstances" present? Yes		
Are Vegetation No , Soil No , or Hydi	ology No naturally pro	oblematic? (If needed, exp	lain any answers in Remarks)		
SUMMARY OF FINDINGS - Attach site	e map showing sampling	g point locations, transects,	important features, etc.		
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Ar	rea		
Hydric Soil Present?	No	within a Wetland	?	No	
Wetland Hydrology Present?	<u>No</u>	If yes, optional W	etland Site ID:		
Remarks: (Explain alternative procedur	es here or in a separate r	report.)			
NWI polygon verification- upland. No d	igging, existing forest roa	ad.			
LIVERGLOOV					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is r	equired; check all that ar	oply)	Surface Sc	il Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9) Drainage Patterns (B10)		atterns (B10)		
High Water Table (A2)	Aquatic Fa	una (B13)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Depo	osits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen	Sulfide Odor (C1)	Crayfish Bu	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized R	hizospheres on Living Roots (C3)	Saturation '	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of	of Reduced Iron (C4)		Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)	<del></del>	n Reduction in Tilled Soils (C6)	<del></del>	Geomorphic Position (D2)	
Iron Deposits (B5)	<del></del>	Surface (C7)	<del></del>	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7		plain in Remarks)		raphic Relief (D4)	
Sparsely Vegetated Concave Surface (B8	)		FAC-Neutra	l Test (D5)	
Field Observations:	No. 5 II	<i>(</i> , , , )			
Surface Water Present?		(inches)			
Water Table Present?		(inches)		a. Na	
Saturation Present?	<u>No</u> Depth	(inches)	Wetland Hydrology P	resent? <u>No</u>	
(includes capillary fringe)			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Describe Recorded Data (stream gauge,	monitoring well, aerial p	photos, previous inspections	s), if available:		
Remarks:					
No digging, could not confirm/deny wa	ter table.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
1. Populus tremuloides	30.00	Yes	FAC	That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3.				Species Across All Strata: 5 (B)
4.		-		Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 40 (A/B)
6.	-	-		Prevalence Index worksheet:
			-	Total % Cover of: Multiply by:
7	30	- Total Cover	-	
Continue (Charak Charakana (Disk Cinus 15	30	= Total Cover		
Sapling/Shrub Stratum (Plot Size: 15  1. Populus tremuloides	10.00	Voc	EAC	
Complete construction		Yes	FAC	FACU species 80.00 x 3 320
2. Corylus cornuta	10.00	Yes	UPL	UPL species <u>10.00</u> x 4 <u>50</u>
3			-	Column Totals <u>150</u> (A) <u>550</u> (B)
4			<u> </u>	Prevalence Index = B/A = <u>3.6666666</u>
5	-	<u> </u>	-	Hydrophytic Vegetation Indicators:
6			_	1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	20	= Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations 1 (Provide
1. Pteridium aquilinum	25.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Trifolium pratense	25.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Plantago major	20.00	Yes	FAC	
4. Phleum pratense	15.00	No No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Poa pratensis	10.00	No	FACU	Definitions of Vegetation Strata:
6. Rudbeckia hirta	5.00	No	FACU	Jenning of tegeration of aut.
7.		- ::-		Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8.			-	height (DBH), regardless of height.
	-	_		Continue (Church - Was de plants less than 2 in DDU and another than
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		_		woody plants less than 5.20 it tall.
	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.	· -			Vegetation No
		-	-	Present?
4	0		_	-
		_=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)			

Sampling Point: u-146n36... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc<sup>2</sup> (inches) Color (moist) Color (moist) % Type<sup>1</sup> Texture Remarks <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): Hydric Soil Present? No Depth (inches): Remarks: No digging, existing forest road, soils assumed non-hydric based on veg/hydro.

Site Photograph 1 Sampling Point: u-146n36w31-NWI2



Latitude:	47.4229300953889	Cowardin Classification:			
Longitude:	-95.2898134757721	Circular 39:			
Direction: east	t	Eggers & Reed:			
Remarks:					
upland					

Site Photograph 2 Sampling Point: u-146n36w31-NWI2



Latitude:	47.4229300534794	Cowardin Classification:
Longitude:	: -95.2898134757721	Circular 39:
Direction: wes	st	Eggers & Reed:
Remarks:		
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