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

Project/Site: SPP	City/County:	Clearwater	Samp	Sampling Date: 2016-06-30	
Applicant/Owner: Enbridge		State: Minneson	ta Sampl	ing Point: u-146n36w32-NWI3	
Investigator(s): DPT, ZCW	Section	n, Township, Range: S32, T2	146N, R36W		
Landform (hillslope, terrace, etc.): Side	Slope	Local Relief (cor	icave, convex, none): VL	Slope (%): 0-2%	
Subregion (LRR or MLRA):	La	titude: 47.4256654037	Longitude: -95.28479137	. Datum: NAD83	
Soil Map Unit Name: 40B			NWI C	assification: PSS1C	
Are climatic/hydrologic conditions on t	he site typical for this tir	ne of year? (if no. explain i		Yes	
Are Vegetation No , Soil No , or H			,		
Are vegetation <u>no</u> , son <u>no</u> , or n	ydrology 140 significar	itiy disturbed: Are Norma	ar circumstances present: 103	_	
Are Vegetation No_, Soil No_, or Hyd	rology No naturally p	roblematic? (If needed, ex	plain any answers in Remarks)		
SUMMARY OF FINDINGS - Attach si	te map showing samplii	ng point locations, transect	ts, important features, etc.		
Hydrophytic Vegetation Present?	No	Is the Sampled	Area		
Hydric Soil Present?	No	within a Wetlar	nd?	No	
Wetland Hydrology Present?	No	If yes, optional \	Wetland Site ID:		
Remarks: (Explain alternative procedu	res here or in a separate	report.)			
NWI polygon verification- upland.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is	required: check all that	apply)	Surface S	oil Cracks (B6)	
Surface Water (A1)	<del></del>				
High Water Table (A2)  Aquatic Fauna (B13)			Moss Trim Lines (B16)		
Saturation (A3) Marl Deposits (B15)			Dry-Season Water Table (C2)		
		n Sulfide Odor (C1)			
		Rhizospheres on Living Roots (C			
		e of Reduced Iron (C4)			
<del></del>		on Reduction in Tilled Soils (C6)	Geomorph	nic Position (D2)	
Iron Deposits (B5) Thin Muck Surface (C		ck Surface (C7)	Shallow A	quitard (D3)	
Inundation Visible on Aerial Imagery (B7)  Other (Explain in		xplain in Remarks)	Microtopo	graphic Relief (D4)	
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutr	al Test (D5)	
Field Observations:					
Surface Water Present?	No Dept	th (inches)			
Water Table Present?	No Dept	th (inches)			
Saturation Present?	No Dept	th (inches)	Wetland Hydrology I	Present? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gauge	, monitoring well, aerial	photos, previous inspectio	ns), if available:		
Remarks:					
1					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A/B)
		_	_	
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	_ = 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		_	_	FACU species
2				UPL species <u>60.00</u> x 4 <u>300</u>
3.				Column Totals 110 (A) 500 (B)
4.				Prevalence Index = B/A = 4.5454545
5.				Hydrophytic Vegetation Indicators:
				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)				4 - Morphological Adaptations 1 (Provide
1. Bromus inermis	60.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2. Poa pratensis	20.00	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Cirsium arvense	15.00	No	FACU	1
4. Solidago canadensis	15.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
		_	<del>-</del>	Definitions of Vegetation Strata.
6				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7				height (DBH), regardless of height.
8				-
9		_	_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than
10				or equal to 3.28 ft (1 m) tall.
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and
		_	_	woody plants less than 3.28 ft tall.
12	110		_	-
	110	_ = 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 Present?  No
4.				
	0	=Total Cover		7
Described (include the strength of the strengt				
Remarks: (include photo numbers here or on a separate sheet	t.)			

Sampling Point: u-146n36... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc<sup>2</sup> (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Texture Remarks 10YR 3 2 0-14 100  $\mathsf{SL}$ 10YR 4 3 10YR 3 6 95 14-24 С M cl <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:

Site Photograph 1 Sampling Point: u-146n36w32-NWI3



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Latitude:	47.4256909685651	Cowardin Classification:		
Longitude:	-95.2847823222124	Circular 39:		
Direction: Nort	th	Eggers & Reed:		
Remarks:				

Site Photograph 2 Sampling Point: u-146n36w32-NWI3



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Latitude:	47.4256895436416	Cowardin Classification:		
Longitude:	-95.2847808134698	Circular 39:		
Direction: South	th	Eggers & Reed:		
Remarks:				