WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Clearwate	<u>:r</u>	Sampling Date: 2016-07-21		
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: w-144n36w24-ac1		
Investigator(s): ZCW	Section, Townshi	ip, Range: S 24, T 144N, R 36W			
Landform (hillslope, terrace, etc.): Depres	ssion	Local Relief (concave, convex, n	none): CC Slope (%): 0-2%		
Subregion (LRR or MLRA):		•	: -95.18451020 Datum: NAD83		
Soil Map Unit Name: 267B			NWI Classification: N/A		
Are climatic/hydrologic conditions on the	e site typical for this time of year	? (if no. explain in Remarks):	Yes		
Are Vegetation No , Soil No , or Hyd	drology No significantly disturb	oed? Are "Normal Circumstance	es" present? Yes		
Are Vegetation No , Soil No , or Hydro	ology No naturally problemati	c? (If needed, explain any answ	vers in Remarks)		
-					
SUMMARY OF FINDINGS - Attach site	map showing sampling point lo	cations, transects, important fe	eatures, etc.		
Hydrophytic Vegetation Present?	No	Is the Sampled Area			
Hydric Soil Present?	Yes	within a Wetland?	<u>Yes</u>		
Wetland Hydrology Present?	Yes	If yes, optional Wetland Site ID:	<u>w-144n36w24-ac</u>		
Remarks: (Explain alternative procedure	es here or in a separate report.)				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is re	equired; check 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)			Dry-Season Water Table (C2)		
Water Marks (B1)			Crayfish Burrows (C8)		
Sediment Deposits (B2)			Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)			Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)			yes Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (0	27)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rer	marks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)			yes FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	No Depth (inches)	·			
Water Table Present?	No Depth (inches)	·			
Saturation Present?	No Depth (inches)	Wetla	and Hydrology Present? Yes		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, r	monitoring well, aerial photos, p	revious inspections), if available	:		
Remarks:					

Sapling/Shrub Stratum (Plot Size: 15

Herb Stratum (Plot Size: 5

Tree Stratum

1. Fraxinus nigra

1. Fraxinus nigra

2. Ulmus americana 3. Salix bebbiana

2. Quercus bicolor

(Plot Size: 30

Absolute

% Cover

20

15.00

5.00

5.00

65 = Total Cover

Yes

25 = Total Cover

Yes

Yes

		Samı	pling Poi	nt: <u>w-</u> 1	.44n36	<u></u>
Dominant	Indicator	Dominance Test worksh	eet:			
Species?	Status	Number of Dominant Sp	ecies			
	FACW	That Are OBL, FACW, or	FAC: <u>3</u>		(A)	
		Total Number of Domina	int			
		Species Across All Strata:	: 3		(B)	
	_	Percent of Dominant Spe	ecies			
		That Are OBL, FACW, or	FAC: <u>100</u>		(A/B)	
		Prevalence Index works	heet:			
	_	Total % Cover of:		Multiply	/ by:	
otal Cover		OBL species	0.00	_ x 1	0	_
		FACW species	85.00	_ x 2	170	_
S	FACW	FACU species	0.00	_ x3	0	_
S	FAC	UPL species	0.00	_ x 4	0	_
S	FACW	_ Column Totals	90		185	_(B)
	_	Prevalence	Index = B/A	x = <u>2.055</u>	5555	
		_ Hydrophytic Vegetation				
		1 - Rapid Test fo		•	ation	
	_	yes 2 - Dominance Test is > 50%				
otal Cover		yes 3 - Prevalence Ir				
		4 - Morphologic supporting data in R				
		Problematic Hydrophytic V	egetation ¹ (I	Explain)		
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				less
		Definitions of Vegetation	n Strata:			
	_	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.				
		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.				
		Herb - All herbaeceous (no woody plants less than 3.2		lants, rega	rdless of s	ize, and
otal Cover		Woody vines - All woody v	ines greater	than 3.28	ft in heigl	ht.
otal Causa		Hydrophytic Vegetation Present?	<u>No</u>	<u>, </u>		
otal Cover						

). 			Sapling/Shrub - Wood or equal to 3.28 ft (1 m	y plants less than 3 in. DBH and greater than n) tall.
10			Herb - All herbaeceous woody plants less than	s (non-woody) plants, regardless of size, and a 3.28 ft tall.
	0	= Total Cover	Woody vines - All woo	dy vines greater than 3.28 ft in height.
Noody Vine Stratum (Plot Size: 30)				
l			Hydrophytic	
 3			Vegetation Present?	<u>No</u>
ı				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate s	neet.)			
JS Army Corps of Engineers			Northo	central and Northeast Region – Version 2.0

Sampling Point: w-144n36... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth 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) Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B) Restrictive Layer (if observed): Hydric Soil Present? Yes Depth (inches): Remarks: Sample point taken in road ditch. No digging. Hydric soils assumed based on vegetation and hydrology.

Site Photograph 1 Sampling Point: w-144n36w24-ac1



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Latitude:	47.2825445328348	Cowardin Classification: PFO
Longitude:	-95.184511710047	Circular 39: 1
Direction: Sout	ch	Eggers & Reed: Seasonally Flooded Basin
Remarks:		

Site Photograph 2 Sampling Point: w-144n36w24-ac1



		A STATE OF THE STA
Latitude:	47.2825444909253	Cowardin Classification: PFO
Longitude:	-95.184511710047	Circular 39: 1
Direction: Wes	st	Eggers & Reed: Seasonally Flooded Basin
Remarks:		