WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/	County: Clearwater	Sampling Date: 6/2/2014
Applicant/Owner: Enbridge	State:	
Investigator(s): EAB/RAJ	Section	, Township, Range:
Landform (hillslope, terrace, etc.) Dip		(concave, convex, none CC
	.: <u>-95.255038</u> Dat	
Soil Map Unit Name: <u>40B</u> Are climatic/hydrologic conditions of the site typical for this	time of the year?	NWI Classification: PSS1C
Are vegetation, soil, or hydrology	time of the year?	
Are vegetation \Box , soll \Box , or hydrology	naturally problemat	
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area w	vithin a wetland? Y
Indicators of wetland hydrology present? Y	If yes, optional wetland	site ID:
Remarks: (Explain alternative procedures here or in a sep	arate report.)	
The sample point is an alder thicket that occupies	• •	nction with a shallow marsh.
	·) -	
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all		required)
	ained Leaves (B9)	Surface Soil Cracks (B6)
	auna (B13) osits (B15)	 Drainage Patterns (B10) Moss Trim Lines (B16)
	n Sulfide Odor (C1)	Dry-Season Water Table (C2)
	Rhizospheres on	\Box Crayfish Burrows (C8)
Drift Deposits (B3) Living Ro	ots (C3)	Saturation Visible on Aerial Imagery
	e of Reduced Iron (C4)	(C9)
	on Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C6) k Surface (C7)	 Geomorphic Position (D2) Shallow Aquitard (D3)
	(cr) (plain in Remarks)	 Microtopographic Relief (D4)
Surface (B8)		FAC-Neutral Test (D5)
		· · ·
Field Observations:		Indicators of
Surface water present? Yes	Depth (inches): 5	Indicators of wetland
Water table present? Yes Saturation present? Yes	Depth (inches): 0 Depth (inches): 0	hydrology
(includes capillary fringe)	Deptil (illenes).	present? Y
Describe recorded data (stream gauge, monitoring well, a	erial photos, previous insp	ections), if available:
Remarks:		
Surface water is present throughout the commu	nity.	

			f plant			Sampling Point:				
Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum	20% 4	50% 10	
1 Populus tremule	oides			20	Y	FAC	Sapling/Shrub Stratum	12	30	
2							Herb Stratum	15	38	
3							Woody Vine Stratum	0	0	
4										
6							Dominance Test Worksh	eet		
7				·			Number of Dominant Species that are OBL,			
8							FACW, or FAC:	3	(A)	
9							Total Number of Dominant		()	
10							Species Across all Strata:		(B)	
				20	Total Cover		Percent of Dominant			
Conline (Chruth				Abaaluta	Deminant	Indiantar	Species that are OBL,	400.00		
Sapling/Shrub Stratum	Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	100.00	0%_(A/B)	
1 Alnus incana				60	Y	FACW	Prevalence Index Works	ieet		
2					· · · ·		Total % Cover of:			
3							OBL species 75 x 1		<u>′5</u>	
4 5							FACW species 60 x 2 FAC species 20 x 3		<u>20</u> 60	
6							FACU species 0 x 4		0	
7							UPL species 0 x 5		0	
8 9							Column totals 155 (A) Prevalence Index = B/A =	$\frac{23}{1.65}$	55 (B)	
10									<u> </u>	
				60	 Total Cover 		I hadren hadie Menstedien I			
				Absolute	Dominant	Indicator	Hydrophytic Vegetation I Rapid test for hydrophy			
Herb Stratum	Plot Size (5 ft)	% Cover	Species	Status	X Dominance test is >50	%		
1 Carex lacustris				75	Y	OBL	X Prevalence index is ≤3 Morphological adaptati		ovido	
2							supporting data in Ren			
4							separate sheet)			
5							Problematic hydrophyt	ic vegeta	ation*	
6 7							(explain) *Indicators of hydric soil and wet	land hydro	loav must be	
8							present, unless disturbed or prol		logy must be	
9							Definitions of Vegetation	Strata		
10 11							Tree - Woody plants 3 in. (7.6 cr		in diameter a	
12							breast height (DBH), regardless			
13							Sapling/shrub - Woody plants le	ess than 3	in DBH and	
14 15							greater than 3.28 ft (1 m) tall.			
1				75	Total Cover		Herb - All herbaceous (non-woo	dv) plants	regardless of	
Woody Vine Stratum	Plot Size (30 ft	١	Absolute	Dominant	Indicator	size, and woody plants less than			
		JU IL)	% Cover	Species	Status	Woody vines - All woody vines	areater tha	in 3.28 ft in	
1							height.			
2										
4							Hydronbytic			
5										
<u>×</u>				0	Total Cover		present? Y	_		
	hoto numbers h	ere or on a			= Total Cover		Hydrophytic vegetation present? Y	-		

SOIL								Samp	ling Point:	CLC5078c2W	
Profile I	Description:	(Describe	to the d	lepth needed to	o documer	nt the i	ndicator or	confirm	the absence	e of indicators.)	
Depth					Redox Features					Remarks	
(ln.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	TCEITIAI KS	
0-10	Hue_10YR	2/1	100						MMI		
10-18	Hue_10YR	2/1	100						С		
			•	i, RM=Reduced	d Matrix, C	S=Co	vered or Co	oated Sa	and Grains		
**Locat	ion: PL=Por	e Lining, M	=Matrix								
Hydric	Soil Indica	tors:						Indicat	ors for Pro	blematic Hydric Soils:	
☐ Histosol (A1) ☐ Polyvalue Below Surface ☐ 2 cm Muck (A10) (LRR K, L, MLRA 14 ☐ Histoc Epipedon (A2) ☐ Stratified Layers (A3) ☐ Thin Dark Surface (S9) ☐ Coast Prairie Redox (A16) (LRR K, L, MLRA 14 ☐ Black Histic (A3) ☐ Thin Dark Surface (S9) ☐ LRR R, MLRA 149B ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L ☐ Depleted Below Dark Suface (A11) ☐ Loamy Mucky Mineral (F1) ☐ Depleted Matrix (F2) ☐ Depleted Matrix (F2) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Dark Surface (F7) ☐ Stripped Matrix (S6) ☐ Depleted Dark Surface (S7) (LRR R, MLRA ☐ Mesic Spodic (TA6) (MLRA 144A, 145) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ☐ Other (Explain in Remarks)							eat or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) bark Surface (TF12) in Remarks)				
Type: Depth (Remark				cky mineral c	verlaying	g dark	clay.	Hydrid	c soil prese	nt? <u>Y</u>	