,	WETLAND DETEI	RMINATION	DATA FORM - North Centr	al and Northeast Region				
SPP Project/Site:	Ci	Clearwater City/County:		2015-07-07 Sampling Date:				
Enbridge Applicant/Owner:			Minnesota State:	Samplin	CLC5103a1U g Point:			
	1/LEB		Section, Township, Range					
Landform (hillslope, terrace, etc.)	hillslope			Conve convex, none):	20 Slope (%):			
Subregion (LRR or MLRA):		Latit	47.3237620387	-95.19691902	Minnesota State Datum:			
267C								
Soil Map Unit Name:				NWI Clas	sification: Yes			
Are climatic/hydrologic condition								
Are Vegetation No, Soil								
Are Vegetation, Soil,	or Hydrology	_ naturally pro	blematic? (If needed, explain	n any answers in Remarks)				
SUMMARY OF FINDINGS - Atta	ach site map show	ving sampling	point locations, transects, im	portant features, etc.				
		No		• • • • • • • • • • • • • • • • • • • •				
Hydrophytic Vegetation Present?		No	Is the Sampled Area		No			
Hydric Soil Present?			within a Wetland?					
Wetland Hydrology Present?		No	If yes, optional Wetla	nd Site ID:				
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indicat	ors (minimum of two required)			
Primary Indicators (minimum of c	one is required; ch	eck all that ap	ply)	Surface So	il Cracks (B6)			
Surface Water (A1)	Water-Stai		ned Leaves (B9)	Drainage Pa	atterns (B10)			
High Water Table (A2)					Moss Trim Lines (B16)			
Saturation (A3)				Dry-Season				
Water Marks (B1)			Sulfide Odor (C1)	Crayfish Bur				
Sediment Deposits (B2) Drift Deposits (B3)			nizospheres on Living Roots (C3) f Reduced Iron (C4)		/isible on Aerial Imagery (C9) essed Plants (D1)			
Algal Mat or Crust (B4)	_		Reduction in Tilled Soils (C6)	Geomorphic				
Iron Deposits (B5)	_		Surface (C7)	Shallow Aqu				
Inundation Visible on Aerial Ima					raphic Relief (D4)			
Sparsely Vegetated Concave Sur	rface (B8)			FAC-Neutra	Test (D5)			
Field Observations:								
Surface Water Present?	No	Depth	(inches)					
Water Table Present?	No	Depth	(inches)					
Saturation Present?	No	Depth	(inches)	Wetland Hydrology Pr	esent? <u>No</u>			
(includes capillary fringe)								
Describe Recorded Data (stream	gauge, monitoring	well, aerial pl	notos, previous inspections), if	available:				
Remarks:								
No wetland hydrology indicators	were observed.							

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
ree Stratum (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Spe	cies		
Picea glauca	40.00	Yes	FACU	That Are OBL, FACW, or F	AC: ¹		(A)
Populus tremuloides	25.00	Yes	FACU	Total Number of Dominar			
Populus balsamifera	5.00	No	FACW	Species Across All Strata:	4		(B)
				Percent of Dominant Spe			()
				That Are OBL, FACW, or F	25 AC:		(A/B)
				Prevalence Index worksh			
				Total % Cover of: Multiply by:			
	70	= Total Cover		OBL species	0.00	x 1	0
apling/Shrub Stratum (Plot Size: 15 ft)				FACW species	30.00	x 2	60
Acer rubrum	40.00	Yes	FAC	FACU species	45.00	x 3	344
Cornus rugosa	15.00	No		UPL species	75.00	x 4	375
Fraxinus nigra	15.00	No	FACW	Column Totals	236	(A)	914 (B)
Fraxinus pennsylvanica	10.00	No	FACW	Prevalence In	ndex = B/A		
			_	– Hydrophytic Vegetation I			
·				1 - Rapid Test for		tic Veget	tation
				no 2 - Dominance Te		-	
·	80	= Total Cover		no 3 - Prevalence In			
lerb Stratum (Plot Size: 5 ft)				4 - Morphologica		1	ido
Carex pensylvanica	50.00	Yes		supporting data in Re			
Euphorbia maculata	15.00	<u>No</u>	FACU	 Problematic Hydrophytic Vegetation¹ (Explain) 			
Cornus rugosa	10.00	No			getation (E	хріанту	
Dirca palustris	5.00	No	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Maianthemum canadense	2.00	No	FACU	Definitions of Vegetation	Strata		
Thalictrum dioicum	2.00	No	FACU		Strata.		
,		No	FACU	-	76 ana) an m	مىدە تە مادە	
·	2.00			Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.			
					nts less thar	n 3 in. DB	H and greater th
0				or equal to 3.28 ft (1 m) tall			
1	-			 Herb - All herbaeceous (nor 	n-woody) pla	ants, rega	ardless of size, ar
2				woody plants less than 3.28	ft tall.		
	86	= Total Cover		 Woody vines - All woody vi 	nes greater	than 3.28	3 ft in height.
Voody Vine Stratum (Plot Size:)							
				— Hydrophytic			
				Vegetation			
1				Present?			
n	0	=Total Cover		-			

SOIL

Depth Matrix	<	Redox F	eatures	_					
inches) Color (moist)		Color (moist)	% Type ¹	Loc ²	Texture	Remarks			
0-6 <u>10YR 3 2</u>	100				FSL	fine sandy loam			
6-24 <u>10YR 6 3</u>	100			<u> </u>	FSL	fine sandy loam			
				- <u> </u>					
				·					
Type: C=Concentration, D=Depletion, F	M=Reduced Ma	atrix, MS=Masked Sand Gra	iins.			² Location: PL=Pore Lining, M=M			
ydric Soil Indicators:		Polyvalue Relow (Surface (S8) (I PP I		Indicators fo	or Problematic Hydric Soil ³ :			
Histosol (A1)		149B)	Polyvalue Below Surface (S8) (LRR R, MLRA 149B)			2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic Epipedon (A2)		Thin Dark Surface	e (S9) (LRR R, MLR	A 149B)	Coast P	Prairie Redox (A16)(LRR K, L, R)			
Black Histic (A3)		Loamy Mucky Mir	neral (F1) (LRR K, I	L)	🗌 5 cm N	lucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen Sulfide (A4)		 Loamy Gleyed Matrix (F2) Depleted Matrix (F3) 		 Dark Surface (S7) (LRR K, M) Polyvalue Below Surface (S8) (LRR K, L) 					
Stratified Layers (A5)									
Depleted Below Dark Surface (A1	11)	Redox Dark Surfac	ce (F6)		Thin Dark Surface (S9) (LRR K, L)				
Thick Dark Surface (A12)		Depleted Dark Su	Surface (F7) Iron-Maganese Masses (F12) (LRR K		aganese Masses (F12) (LRR K, L, R)				
Sandy Mucky Mineral (S1)		Redox Depressions (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)					
Sandy Gleyed Matrix (S4)					Mesic S	podic (TA6) (MLRA 144A, 145, 149B)			
Sandy Redox (S5)					Red Pa	rent Material (F21)			
Stripped Matrix (S6)					🗌 Very Sł	nallow Dark Surface (TF12)			
Dark Surface (S7) (LRR R, MLRA 1	149B)		r		Other (explain in remarks)			
Restrictive Layer (if observed):]							
Туре:					Hydric Soil Presen	t? No			
Depth (inches):									