WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	City/County: _	Clearwater	Sampling Date:	2015-07-07		
Enbridge Applicant/Owner:		Minnesota	Sampling Point:	CLC5005f1U		
ACM/LEB		State:	Sampling Point.			
Investigator(s):		Section, Township, Range:				
hillslope, terrace, etc.):	ipe	Local Relief (concave,	Conve convex, none):	3-7 Slope (%):		
Subregion (LRR or MLRA):	Lat	47.6653591264 titude: Lo	-95.40660398 ongitude: Datu	Minnesota State		
718C			Date			
Soil Map Unit Name:			NWI Classificatio	n:		
Are climatic/hydrologic conditions on th	e site typical for this tim	ne of year? (if no, explain in Rema	arks):	Yes		
Are Vegetation No	No ydrology significar	ntly disturbed? Are "Normal Circ	Yes umstances" present?			
No No	No					
Are Vegetation, Soil, or Hyd	rology naturally p	roblematic? (if needed, explain	any answers in Remarks)			
SUMMARY OF FINDINGS - Attach site	e map showing samplin	g point locations, transects, imp	ortant features, etc.			
Under the tie Verstelling Brown to	Yes	In the Committed Asses				
Hydrophytic Vegetation Present?	No	Is the Sampled Area	No			
Hydric Soil Present?		within a Wetland?				
Wetland Hydrology Present?	No	If yes, optional Wetlan	nd Site ID:			
Remarks: (Explain alternative procedure	es here or in a separate	report.)				
The upland is a mesic hardwood forest	dominated by aspen an	id red maple.				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)		
Primary Indicators (minimum of one is r			Surface Soil Cracks (I			
Surface Water (A1) Water-Sta High Water Table (A2) Aquatic Fa		• •	Drainage Patterns (B10) Moss Trim Lines (B16)			
High Water Table (A2) Aquatic Fa Saturation (A3) Marl Depc		. ,	Dry-Season Water Table (C2)			
Water Marks (B1)	·		Crayfish Burrows (C8)			
Sediment Deposits (B2)	, ,		,	Saturation Visible on Aerial Imagery (C9)		
		e of Reduced Iron (C4)		Stunted/Stressed Plants (D1)		
		on Reduction in Tilled Soils (C6)		Geomorphic Position (D2)		
		ck Surface (C7)	Shallow Aquitard (D3)	Shallow Aquitard (D3)		
		xplain in Remarks)	Microtopographic Re	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8	3)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	No Dept	h (inches)				
Water Table Present?	No Dept	h (inches)				
Saturation Present?	No Dept	h (inches)	Wetland Hydrology Present?	<u>No</u>		
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring well, aerial	photos, previous inspections), if	available:			
Remarks:						
No wetland hydrology indicators were	observed.					

VEGETATION - Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species
1. Populus tremuloides	40.00	Yes	FACU	That Are OBL, FACW, or FAC: 4(A)
2. Acer rubrum	10.00	No	FAC	Total Number of Dominant
Acor pogundo				4
3. Acer negundo	10.00	No No	FAC	Species Across All Strata: (B)
4			-	Percent of Dominant Species
5				100 That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7			_	Total % Cover of: Multiply by:
	60	_ = Total Cover		OBL species <u>0.00</u> x 1 <u>0</u>
Sapling/Shrub Stratum (Plot Size: 15 ft)				FACW species 30.00 x 2 60
1. Acer rubrum	60.00	Yes	FAC	FACU species 182.00 x 3 28
2. Populus tremuloides	15.00	No	FACU	UPL species 0.00 x 4 0
3. Fraxinus nigra	5.00	No	FACW	Column Totals <u>219</u> (A) <u>634</u> (B)
4				Prevalence Index = B/A = $\frac{2.8949771}{}$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
	80	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5 ft)				4 - Morphological Adaptations (Provide
1. Fraxinus nigra	25.00	Yes	FACW	supporting data in Remarks or on a separate sheet)
2. Acer negundo	25.00	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Ribes cynosbati	5.00	No	FACU	
4. Acer nigrum	2.00	No	FACU	indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Rhamnus cathartica	2.00	No	FAC	Definitions of Vegetation Strata:
6				
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8				height (DBH), regardless of height.
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
12.			_	woody plants less than 3.28 ft tall.
	59	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)	-	= 10tal cover		soca, since y in soca, times greater than size it in neighb
1.				
				Hydrophytic
2				Vegetation
s	-	_		Present?
A	_		_	-
4	0	-Total Cover		
4	0	_ =Total Cover		

Sampling Point: CLC5005f1U

SOIL Sampling Point: CLC5005f1U

Depth Matrix			Redox Features					
inches) 0-5	Color (moist) 10YR 2 1	% 100	Color (moist)	%	Type ¹	Loc ²	Texture VFSL	Remarks very fine sandy loam
5-24	10YR 5 3	99	10YR 5 4	1			VFSL	very fine sandy loam
	<u>.</u>							
	_							
			_					-
	_			·				
	_		_	·				
		-		·				
	·	=Reduced	Matrix, MS=Masked Sand Gr	ains.			Indicators fo	² Location: PL=Pore Lining, M=Matrix. r Problematic Hydric Soil ³ :
Hydric Soil Indi			Polyvalue Below	Surface (S	8) (LRR R,	MLRA		•
Histosol			☐ 149B)					uck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		☐ Thin Dark Surface		•			rairie Redox (A16)(LRR K, L, R)
Black His	. ,		Loamy Mucky Mi		(LRR K, L)			ucky Peat or Peat (S3) (LRR K, L, R)
_	en Sulfide (A4)		Loamy Gleyed M					rrface (S7) (LRR K, M)
	d Layers (A5)		☐ Depleted Matrix	(F3)				ue Below Surface (S8) (LRR K, L)
	d Below Dark Surface (A11)		Redox Dark Surfa	ce (F6)				rk Surface (S9) (LRR K, L)
	irk Surface (A12)		Depleted Dark Su	ırface (F7))		∐ Iron-Ma	aganese Masses (F12) (LRR K, L, R)
_	lucky Mineral (S1)		Redox Depressio	ns (F8)			Piedmoi	nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)						Mesic S _l	podic (TA6) (MLRA 144A, 145, 149B)
Sandy R	edox (S5)						Red Par	rent Material (F21)
Stripped	Matrix (S6)						Very Sh	allow Dark Surface (TF12)
☐ Dark Sur	face (S7) (LRR R, MLRA 149	В)					Other (explain in remarks)
Restrictive Laye	er (if observed):							
						ı	Hydric Soil Present	t? No
Depth	(inches):						.,	