WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C City/County:	learwater	2015-07-10 Sampling Date:						
Enbridge		Minnesota	CLC5004u2W						
Applicant/Owner: BJC/LEB		_ State:	Sampling Point:						
Investigator(s):		Section, Township, Range:							
Depre Landform (hillslope, terrace, etc.):	ession	Local Relief (concave, o	Concave 0-2% convex, none): Slope (%): Minaccata State						
LRR K Subregion (LRR or MLRA):		47.6677933568	-95.40640491 Minnesota State . Datum:						
718C. Navtahwausi	h loam, 8 to 15 percent	slopes	PSS1C						
Soil Map Unit Name:			NWI Classification:						
Are climatic/hydrologic conditions on the	e site typical for this tim	e of year? (if no, explain in Rema	rks): Yes						
Are Vegetation No No Significantly disturbed? Are "Normal Circumstances" present?									
No No	No								
Are Vegetation, Soil, or Hydr	ology naturally pr	oblematic? (If needed, explain	any answers in Remarks)						
SUMMARY OF FINDINGS - Attach site	man showing sampling	noint locations, transects, imp	ortant features, etc.						
Solvinant of Findings Accachance	Yes	s point locations, transects, imp	ortant reatures, etc.						
Hydrophytic Vegetation Present?		Is the Sampled Area							
Hydric Soil Present?	Yes	within a Wetland?	Yes						
Watland Hydrology Procent?	Yes	If yes, optional Wetlan	nd Site ID:						
Wetland Hydrology Present? Remarks: (Explain alternative procedure		report)							
			ed in a depression surrounded by a hardwood swamp fri.						
		8							
HYDROLOGY									
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required						
Primary Indicators (minimum of one is re	equired; check all that a	pply)	Surface Soil Cracks (B6)						
yes Surface Water (A1)	Water-Sta	ained Leaves (B9)	Drainage Patterns (B10)						
<u>yes</u> High Water Table (A2)	Aquatic Fa	auna (B13)	Moss Trim Lines (B16)						
yes Saturation (A3)	Marl Dep	osits (B15)	Dry-Season Water Table (C2)						
Water Marks (B1)		Sulfide Odor (C1)	Crayfish Burrows (C8)						
Sediment Deposits (B2)		Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)		of Reduced Iron (C4)	Stunted/Stressed Plants (D1)						
Algal Mat or Crust (B4)		on Reduction in Tilled Soils (C6)	Geomorphic Position (b2)						
Iron Deposits (B5)		k Surface (C7)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)		plain in Remarks)	Microtopographic Relief (D4) Yes FAC-Neutral Test (D5)						
Field Observations:)		FAC-Neutral Test (D5)						
Surface Water Present?	Yes Depth	i (inches) <u>4</u>							
Water Table Present?		(inches) 0							
Saturation Present?	· .	(inches) 0	Wetland Hydrology Present? Yes_						
(includes capillary fringe)	<u> </u>	,							
Describe Recorded Data (stream gauge,	monitoring well, aerial p	photos, previous inspections), if a	available:						
Remarks:									
Surface water is present throughout the	e wetland.								

VEGETATION - Use scientific names of plants.

Sampling Point: CLC5004u...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
				2
3	-	<u> </u>	·	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:
	0	= Total Cover		OBL species <u>95.00</u> x 1 95
Sapling/Shrub Stratum (Plot Size:)				FACW species <u>5.00</u> x 2 <u>10</u>
1				FACU species 0.00 x 3 0
2				UPL species 0.00 x 4 0
3				Column Totals 100 (A) 105 (B)
4				Prevalence Index = B/A = 1.05
5				Hydrophytic Vegetation Indicators:
6				yes 1 - Rapid Test for Hydrophytic Vegetation
7				yes 2 - Dominance Test is > 50%
_	0	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot Size: 5 ft)		_		4 - Morphological Adaptations (Provide
1. Glyceria grandis	50.00	Yes	OBL	supporting data in Remarks or on a separate sheet)
2. Carex lacustris	40.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Typha latifolia	5.00	No	OBL	[
4. Phalaris arundinacea	5.00	No	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				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.
			·	Herb - All herbaeceous (non-woody) plants, regardless of size, and
11				woody plants less than 3.28 ft tall.
12	100	- Total Cover	-	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)	100	_ = Total Cover		woody vines - All woody vines greater than 3.20 ft in neight.
1.				
		_		- Hydrophytic
2				Vegetation
3	-			Present?
4	0	Tatal Carra		-
Barradar (include abote acceptant barradar barradar abote abote abote acceptant barradar acceptan		_ =Total Cover		
Remarks: (include photo numbers here or on a separate sheet				
The wetland sample point is dominated by lake sedge and gian	t Illalilla grass.			

SOIL								Sampling Point: CLC5004u
Profile Descri	ption: (Describe to the	depth need	ed to document the	indicato	r or con	firm th	e absence of in	dicators.)
Depth	Matrix		Redox F	eatures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-24	_ 10YR 2 2	_ <u>100</u> _					P	
								·
	_							
	_							
	_							
	_							
	_							
¹ Type: C=Conce	ntration, D=Depletion, RM=	Reduced Matri	x, MS=Masked Sand Gra	ins.				² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indi	cators:						Indicators for	Problematic Hydric Soil ³ :
✓ Histosol	(A1)		Polyvalue Below :	Surface (S8	3) (LRR R,	MLRA	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Thin Dark Surface	(S9) (LRR	R, MLRA	149B)	Coast Pr	airie Redox (A16)(LRR K, L, R)
Black His	etic (A3)		Loamy Mucky Mi	neral (F1)	(LRR K, L)		5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydroge	n Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Dark Sur	face (S7) (LRR K, M)
Stratifie	d Layers (A5)		Depleted Matrix	(F3)			Polyvalu	e Below Surface (S8) (LRR K, L)
☐ Depleted	d Below Dark Surface (A11)		Redox Dark Surfa	ce (F6)			Thin Dar	k Surface (S9) (LRR K, L)
Thick Da	rk Surface (A12)		Depleted Dark Su	rface (F7)			☐ Iron-Ma	ganese Masses (F12) (LRR K, L, R)
Sandy N	ucky Mineral (S1)		Redox Depression	ns (F8)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
Sandy G	eyed Matrix (S4)						Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
Sandy Re	edox (S5)						Red Pare	ent Material (F21)
Stripped	Matrix (S6)						Very Sha	allow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, MLRA 149	В)					Other (e	explain in remarks)
Restrictive Laye	r (if observed):							
Type:					j			. Ves
Depth	(inches):					ŀ	Hydric Soil Present	, 100
Remarks:								

Peat was observed throughout the soil profile.