	WETLAND DETER	MINATION DAT	A FORM - North Central	and Northeast Region		
SPP Project/Site:	Cit	Clearwa y/County:		2015-07-09 Sampling Date:		
Enbridge Applicant/Owner:			Minnesota State:	Sampling	CL005h1W ng Point:	
	Л/LEB		ection, Township, Range:			
Landform (hillslope, terrace, etc.	depression	、	Local Relief (concave, c	Conca	0-2 Slope (%):	
Subregion (LRR or MLRA):		Latitude:		-95.55405481 ngitude:		
582						
Soil Map Unit Name:				NWI Class	ification: Yes	
Are climatic/hydrologic condition						
No No No Are Vegetation, Soil	Nc _, or Hydrology	significantly dist	urbed? Are "Normal Circu	Yes Imstances" present?		
No No Are Vegetation, Soil,						
Are vegetation, son,	or Hydrology	naturally problem	auce (il needed, explain a	any answers in Remarks)		
SUMMARY OF FINDINGS - Att	ach site map show	ing sampling point	locations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present		/es	Is the Sampled Area			
		/es			Yes	
Hydric Soil Present?	-	/es	within a Wetland?			
Wetland Hydrology Present?	-		If yes, optional Wetland	d Site ID:		
The wetland is a fresh wet mead	dow located in a ro	adside ditch and do	iminated by reed canary gr	rass and lake sedge.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum of	one is required; ch	eck all that apply)		Surface Soil	Cracks (B6)	
yes Surface Water (A1)		Water-Stained Le	aves (B9)	Drainage Pa		
yes High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
yes Saturation (A3)	_	Marl Deposits (B1	.5)	Dry-Season Water Table (C2)		
Water Marks (B1)	_	Hydrogen Sulfide	Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizo		neres on Living Roots (C3)	Saturation Vi	sible on Aerial Imagery (C9)	
Drift Deposits (B3)	—	Presence of Redu	ced Iron (C4)		ssed Plants (D1)	
Algal Mat or Crust (B4)	_	Recent Iron Redu	ction in Tilled Soils (C6)	yes Geomorphic Position (D2)		
Iron Deposits (B5)	—	Thin Muck Surfac		Shallow Aquitard (D3)		
	Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)		Remarks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)		
Sparsely Vegetated Concave Su Field Observations:	rtace (B8)			FAC-Neutral	Test (DS)	
Surface Water Present?	Yes	Depth (inche	3			
Water Table Present?	Yes	Depth (inche				
Saturation Present?	Yes	Depth (inche		Wetland Hydrology Pre	sent? Yes	
(includes capillary fringe)						
Describe Recorded Data (stream	gauge, monitoring	well, aerial photos	, previous inspections), if a	vailable:		
Remarks:						
The wetland is located in a road	side ditch and satu	rated to the surface	2.			

VEGETATION - Use scientific names of plants.

Sampling Point: CL005h1W

VEGETATION OSC Scientific numes of plants.	A.L			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
				4
3				_ 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		$\begin{array}{c} \hline \text{Multiply by:} \\ \hline \text{OBL species} \\ \hline 52.00 \\ x \\ 1 \\ 52 \\ \hline \end{array}$
Sapling/Shrub Stratum (Plot Size: 15 ft)	<u> </u>			
<u>Saping/Shrub Stratum</u> (Plot Size:) J Salix petiolaris	45.00	Maria	54.014	
1	15.00	Yes	FACW	FACU species $\frac{0.00}{0.00} \times 3 = \frac{0}{0}$
2. salix discolor	10.00	Yes	FACW	UPL species 0.00 x 4
3				Column Totals <u>132</u> (A) <u>212</u> (B)
4				Prevalence Index = $B/A = \frac{1.6060606}{1.6060606}$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7		_	_	yes 2 - Dominance Test is > 50%
	25	= Total Cover		yes 3 - Prevalence Index is $\leq 3.0^{1}$
Use Charles (plat Cias 5 ft)				
Herb Stratum (Plot Size: 5 ft) _ Phalaris arundinacea	40.00	Mar	54.014	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	40.00	Yes	FACW	-
Ζ	40.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phragmites australis	15.00	No	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless
4. Carex atherodes	10.00	No	OBL	disturbed or problematic.
5. Eleocharis palustris	2.00	No	OBL	_ 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
			_	or equal to 3.28 ft (1 m) tall.
10				 Herb - All herbaeceous (non-woody) plants, regardless of size, and
11				woody plants less than 3.28 ft tall.
12				-
	107	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1				_
2				Hydrophytic
3.				Vegetation Present?
4.				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.)			
The vegetation is dominated by lake sedge and reed canary gra		the shrub laver		
The vegetation is dominated by lake sedge and reed canary gra	ss with whows in	the shrub layer.		

SOIL

Sampling Point: CL005h1W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features									
(inches)	Color (moist)	% Co	olor (moist)	% 1	Type ¹	Loc ²	Texture	Remarks	
				· –					
				·					
	tration, D=Depletion, RM=Re		-Masked Sand Gr					² Location: PL=Pore Lining, M=Matrix.	
							Indicators for Problematic Hydric Soil ³ :		
Hydric Soil Indica	itors:	_	Polyvalue Below	Surface (S8)	(LRR R, N	ЛLRA	_		
Histosol (/	41)		149B)				2 cm Muo	ck (A10) (LRR K, L, MLRA 149B)	
Histic Epip	oedon (A2)		Thin Dark Surface	e (S9) (LRR R ,	, MLRA 1	49B)		iirie Redox (A16)(LRR K, L, R)	
Black Hist	ic (A3)		Loamy Mucky Mi	ineral (F1) (L	RR K, L)		🗌 5 cm Mud	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogen	rogen Sulfide (A4)				Dark Surface (S7) (LRR K, M)				
Stratified	Layers (A5)		Depleted Matrix	(F3)			Polyvalue	e Below Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A11)		Redox Dark Surfa	ace (F6)			Thin Dark	Surface (S9) (LRR K, L)	
Thick Darl	k Surface (A12)		Depleted Dark Su	urface (F7)			Iron-Mag	anese Masses (F12) (LRR K, L, R)	
Sandy Mu	icky Mineral (S1)		Redox Depression				Piedmont	Floodplain Soils (F19) (MLRA 149B)	
Sandy Gle	yed Matrix (S4)						Mesic Spc	odic (TA6) (MLRA 144A, 145, 149B)	
Sandy Rec	iox (S5)						Red Pare	nt Material (F21)	
Stripped N	Matrix (S6)						Very Shal	low Dark Surface (TF12)	
Dark Surfa	ace (S7) (LRR R, MLRA 149B)						🖌 Other (ex	plain in remarks)	
Restrictive Layer	(if observed):								
Туре:								Yes	
Depth (i	nches):					Нус	dric Soil Present?		
Remarks:									
Soils were not sa	mpled due to the location in	a roadside ditch,	but are assumed h	ydric based o	on the lar	ndscape p	osition and domi	nance of hydrophytic vegetation.	