	WETLAND DETER	MINATION DAT	TA FORM - North Centr	al and Northe	ast Region			
SPP Project/Site:	Cit	Clearw y/County:	vater		2015-07-09 Sampling Date:			
Enbridge Applicant/Owner:			Minnesota State:		CL004g1 Sampling Point:		IW	
	/KRG		Section, Township, Range					
Landform (hillslope, terrace, etc.	Depression		Local Relief (concave		cc	Slope (%	0-2	
			47 7170898020			Mini	nesota State	
Subregion (LRR or MLRA):		Latitude	: L	ongitude:		Datum:		
765 Soil Map Unit Name:					NWI Classif	ication:		
Are climatic/hydrologic condition	ns on the site typica	Il for this time of y	/ear? (if no, explain in Ren	narks):		Yes		
Are Vegetation, Soil				-	Yes			
No No No Are Vegetation, Soil,	or Hydrology	naturally problem	matic? (If needed, explain	n any answers ir	n Remarks)			
SUMMARY OF FINDINGS - At			nt locations, transects, im	portant feature	≥s, etc.			
Hydrophytic Vegetation Present		/es	Is the Sampled Area					
Hydric Soil Present?	· ·	/es	within a Wetland?		Ye	Yes		
		/es	If yes, optional Wetla	and Site ID:	_			
Wetland Hydrology Present? Remarks: (Explain alternative pr	<u> </u>							
HYDROLOGY								
Wetland Hydrology Indicators:				Secor	ndary Indicators	s (minimum of	f two required)	
Primary Indicators (minimum of	one is required; ch	eck all that apply)			Surface Soil Cr	racks (B6)		
Surface Water (A1)		Water-Stained I			Drainage Patte			
yes High Water Table (A2)	Vater Table (A2) Aquatic Fac		B13)		Moss Trim Lines (B16)			
yes Saturation (A3)	_	Marl Deposits (	B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	_	Hydrogen Sulfic	le Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	—	Oxidized Rhizos	pheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	—	Presence of Rec	luced Iron (C4)	yes	yes Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Recent Iror		luction in Tilled Soils (C6)	yes	yes Geomorphic Position (D2)			
Iron Deposits (B5)	—	Thin Muck Surfa			Shallow Aquitard (D3)			
	Inundation Visible on Aerial Imagery (B7) Other (Expla		n Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Su Field Observations:	irface (B8)				FAC-Neutral Te	st (D5)		
Surface Water Present?	No	Depth (incl	hes)					
Water Table Present?	Yes	Depth (incl						
Saturation Present?	Yes	Depth (incl		Wetland H	Iydrology Prese	ent?	Yes	
(includes capillary fringe)					1			
Describe Recorded Data (stream	gauge, monitoring	well, aerial photo	os, previous inspections), i	f available:				
Remarks:								
The wetland is saturated at the	surface with a wate	r table at 10 inch	es.					

## VEGETATION - Use scientific names of plants.

Sampling Point: CL004g1W

	Absolute	Deminent	la dianta a	Dominance Test worksheet:
	% Cover	Dominant	Indicator	
Tree Stratum (Plot Size:)		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{1}{}$ (A)
2				_ Total Number of Dominant
3				2 Species Across All Strata:(B)
4				Percent of Dominant Species
•••				50
5				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0	= Total Cover		OBL species 5.00 x 1 5
Sapling/Shrub Stratum (Plot Size:)				FACW species 25.00 x 2 50
1				FACU species 0.00 x 3 40
2				UPL species 5.00 x 4 25
3				Column Totals 45 (A) 120 (B)
4.				Prevalence Index = $B/A = \frac{2.6666666666}{2.66666666666666}$
5				_ Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	0	_ = Total Cover		<u>Yes</u> 3 - Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot Size: 5) Persicaria pensylvanica				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Chananadium album	25.00	Yes	FACW	-
2. Chenopodium album	10.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Rorippa palustris	5.00	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless
4. Glycine max	5.00	No		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.
11				<ul> <li>Herb - All herbaeceous (non-woody) plants, regardless of size, and</li> </ul>
				woody plants less than 3.28 ft tall.
12	45			-
	45	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size:)				
1				-
2	·			Hydrophytic Vegetation
3	·			Present?
4	·			_
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)			
The wetland is mostly bare ground with smartweed and other	common agricultu	ral weeds present	as well as some stu	inted soybean plants.

SOIL

## Sampling Point: CL004g1W

Profile Descrip Depth	tion: (Describe to the Matrix	depth ne	eded to document the Redox F			nfirm th	e absence of in	dicators.)		
(inches) 0-16	Color (moist) 10YR 2 1	% 100	Color (moist)	%		Loc <sup>2</sup>	Texture sic	Remarks		
16-22	10YR 4 1	98	10YR 4 6	2	с	M	с			
					·	·				
						·				
						·				
					·					
						- <u> </u>				
						·				
<sup>1</sup> Type: C=Concen	tration, D=Depletion, RM=	– Reduced M	atrix, MS=Masked Sand Gra	ains.	·	·		2Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:					Indicators for Problematic Hydric Soil <sup>3</sup> :					
Histosol (A	A1)		Polyvalue Below 149B)	Surface (S	58) <b>(LRR R</b>	R, MLRA	🗌 2 cm Mu	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Epip	Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA			A 149B)	L49B) Coast Prairie Redox (A16)(LRR K, L, R)					
Black Histi	ic (A3)		Loamy Mucky Mi	neral (F1)	) (LRR K, L	_)	🗌 5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydrogen	Sulfide (A4)	Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, M)				
Stratified	Layers (A5)		Depleted Matrix	(F3)		Polyvalue Below Surface (S8) (LRR K, L)				
Depleted	Below Dark Surface (A11)		Redox Dark Surfa	ce (F6)		Thin Dark Surface (S9) (LRR K, L)				
Thick Dark	Surface (A12)		Depleted Dark Surface (F7)				Iron-Ma	Iron-Maganese Masses (F12) (LRR K, L, R)		
Sandy Mu	cky Mineral (S1)	y Mineral (S1) Redox Depressions (F8)				Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Gle	yed Matrix (S4)						Mesic Sp	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>		
Sandy Red	lox (S5)						Red Pare	ent Material (F21)		
Stripped N	Aatrix (S6)						Very Sha	allow Dark Surface (TF12)		
Dark Surfa	ace (S7) <b>(LRR R, MLRA 149E</b>	5)					🗌 Other (e	xplain in remarks)		
Restrictive Layer	(if observed):	Γ								
Туре:							Hydric Soil Present	? Yes		
	nches):							·		
Remarks:										
The wetland mee	ets indicator A12; the profil	e contains a	a thick dark layer over a de	oleted cla	ıy layer.					