WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	C City/County:	learwater	2015-07-08 Sampling Date:
Enbridge		Minnesota	CL004d1W
Applicant/Owner:		_ State:	Sampling Point:
Investigator(s):		Section, Township, Range:	
Depr Landform (hillslope, terrace, etc.):	ession	Local Relief (concave,	CC
Subregion (LRR or MLRA):	Lat	47.7160555171 itude: Lo	-95.56213002 Minnesota State
765 Soil Map Unit Name:			NWI Classification:
And alimentic /levelue levie and disinger on the		f2/if	Yes
Are climatic/hydrologic conditions on the No No No		, , , , ,	·
Are Vegetation, Soil, or H	ydrology significan	tly disturbed? Are "Normal Circ	cumstances" present?
Are Vegetation No No No No No Hyd	No drology naturally pr	oblematic? (If needed, explain	any answers in Remarks)
SUMMARY OF FINDINGS - Attach sit	te map showing sampling	g point locations, transects, imp	portant features, etc.
Hydrophytic Vegetation Present?	Yes	Is the Sampled Area	
Tryarophytic vegetation resent.	Yes	is the samplea / ilea	Yes
Hydric Soil Present?		within a Wetland?	
Wetland Hydrology Present?	Yes	If yes, optional Wetlar	nd Site ID:
Remarks: (Explain alternative procedur	res here or in a separate	report.)	
The wetland is a swale located within a	a soybean field and domi	nated by reed canary grass and	fowl bluegrass.
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two require
Primary Indicators (minimum of one is	required; check all that a	pply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Sta	ained Leaves (B9)	yes Drainage Patterns (B10)
yes High Water Table (A2)	Aquatic F	auna (B13)	Moss Trim Lines (B16)
yes Saturation (A3)	Marl Dep	osits (B15)	Dry-Season Water Table (C2)
—— Water Marks (B1)	Hydrogen	Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized	Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence	of Reduced Iron (C4)	Stunted/Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iro	on Reduction in Tilled Soils (C6)	<u>yes</u> Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muc	k Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B		plain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)		yes FAC-Neutral Test (D5)
Field Observations:	No - ·	<i>(</i> : 1)	
Surface Water Present?		(inches)	
Water Table Present?		(inches) 12	Vos
Saturation Present?	<u>Yes</u> Depth	i (inches) 2	Wetland Hydrology Present? Yes
(includes capillary fringe) Describe Recorded Data (stream gauge	monitoring well perial	photos previous inspections) if	available:
Describe Necorded Data (stream gauge	, monitoring well, aerial p	onotos, previous inspections), ir	available.
Remarks:			
The wetland is saturated at 2 inches an	id the water table was ob	oserved at 12".	

	Absolute	Dominant	Indicator	Dominance Test worksheet:			
ee Stratum (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species			
		эрестез:	Status	That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)			
	-		_				
	-		_	Total Number of Dominant			
				Species Across All Strata: (B)			
				Percent of Dominant Species			
				100			
		<u> </u>		That Are OBL, FACW, or FAC:(A/B)			
			_	Prevalence Index worksheet:			
		_	_	Total % Cover of: Multiply by:			
15 ft	0	_ = Total Cover		OBL species <u>5.00</u> x 1 <u>5</u>			
oling/Shrub Stratum (Plot Size: 15 ft)				FACW species 75.00 x 2 150			
				FACU species 0.00 x 3 60			
				UPL species <u>0.00</u> x 4 <u>0</u>			
_			_	Column Totals 95 (A) 215 (B)			
				Prevalence Index = B/A = 2.2631578			
				Hydrophytic Vegetation Indicators:			
				yes 1 - Rapid Test for Hydrophytic Vegetation			
				yes 2 - Dominance Test is > 50%			
	0	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹			
r <u>b Stratum</u> (Plot Size: <u>5 ft</u>)				4 - Morphological Adaptations 1 (Provide			
Phalaris arundinacea	40.00	Yes	FACW	supporting data in Remarks or on a separate sheet)			
Poa palustris	30.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
Taraxacum officinale	5.00	No	FACU				
Trifolium hybridum	5.00	No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Phleum pratense	5.00	No	FACU	Definitions of Vegetation Strata:			
Solidago gigantea	5.00	No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast			
Carex vulpinoidea	5.00	No	OBL				
				height (DBH), regardless of height.			
				Sapling/Shrub - Woody plants less than 3 in. DBH and greater tha			
				or equal to 3.28 ft (1 m) tall.			
	-		_	Herb - All herbaeceous (non-woody) plants, regardless of size, and			
				woody plants less than 3.28 ft tall.			
	05			-			
	95	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.			
oody Vine Stratum (Plot Size:)							
	_			-			
	<u> </u>			Hydrophytic Vegetation			
	_		_	Present?			
	_		_	_			
	0	=Total Cover					
marks: (include photo numbers here or on a separate shee	et.)						
e wetland is dominated by reed canary grass and fowl blue	grass.						

SOIL									Sampling Point: CL004d1W	
	iption: (Describe to the	depth n	eeded to				nfirm th	e absence of in	ndicators.)	
Depth (inches) 0-14	Matrix Color (moist) 10YR 2 1	% 100	Co	Redox olor (moist)	Feature:	s Type ¹	Loc ²	Texture sic	Remarks	
14-24	2.5Y 5 2	80	5YR 5	8	20	С	M	С		
	_		_					-		
,		_	_			-	-			
					_					
					_					
	_		_							
	_									
	_									
								. —		
	entration, D=Depletion, RM=	Reduced	Matrix, MS	S=Masked Sand Gr	ains.			1. 1	² Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indi	cators:			Polyvalue Below	Surface (S8) (LRR F	, MLRA		r Problematic Hydric Soil ³ :	
Histosol	(A1)			149B)					uck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		Thin Dark Surface (S9) (LRR R, MLRA 149B)					Coast Prairie Redox (A16)(LRR K, L, R)		
	stic (A3)		Loamy Mucky Mineral (F1) (LRR K, L)			.)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)					Dark Surface (S7) (LRR K, M)		
	d Layers (A5)		☐ Depleted Matrix (F3)					Polyvalue Below Surface (S8) (LRR K, L)		
	d Below Dark Surface (A11)		Redox Dark Surface (F6)					Thin Dark Surface (S9) (LRR K, L)		
	ark Surface (A12)		☐ Depleted Dark Surface (F7)					Iron-Maganese Masses (F12) (LRR K, L, R)		
	1ucky Mineral (S1)			Redox Depression	ons (F8)				nt Floodplain Soils (F19) (MLRA 149B)	
Sandy G	leyed Matrix (S4)							☐ Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)	
Sandy R	edox (S5)							Red Par	rent Material (F21)	
Stripped	d Matrix (S6)							Very Sh	allow Dark Surface (TF12)	
Dark Sui	rface (S7) (LRR R, MLRA 149	3)						Other (e	explain in remarks)	
Restrictive Laye	er (if observed):									
Туре:								Hydric Sail Drocant	-> Yes	

Depth (inches):

The wetland has a depleted layer deep below a thick dark surface layer, which meets hydric indicator A12.

Remarks: