L3R	D DETERMINAT Pennir		ORM - Great Pl	ains Region	2015-07-08
Project/Site: City	/County:	-		Sampling Date:	
Enbridge Applicant/Owner:		State:	inesota	Sampling Point:	w-153n44w11-f1
BJC/BCS Investigator(s):		Section, Towns	ship, Range:		
Depression Landform (hillslope, terrace, etc.):		Local Relie	f (concave, con	Conca vex. none):	0-2% Slope (%):
LRR F		48.09157395	73	-96.27180774	
Subregion (LRR or MLRA): Minnesota State Plane North, NAD 83	Latitude (2011) U.S. feet	:	Longr	tude:	
Datum:	(2011) 0.5. 1000				
Poppleton fine sand Soil Map Unit Name:				NWI Classificatio	n:
Are climatic/hydrologic conditions on the site typical	for this time of y	/ear? (if no, exp	olain in Remarks	):	Yes
Are Vegetation, Soil, or Hydrology	significantly di	sturbed? Are "	Normal Circum	Yes stances" present?	
No No No					
Are Vegetation, Soil, or Hydrology	naturally proble	matic? (If need	ded, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showi	ng sampling poi	nt locations, tra	ansects, import	ant features, etc.	
Yi Hydrophytic Vegetation Present?	es	Is the Sam	pled Area		
Y	es			Yes	
Hydric Soil Present? Yu	es	within a V			
Wetland Hydrology Present?			ional Wetland S	ite ID:	
Remarks: (Explain alternative procedures here or in The wetland is a hardwood swamp dominated by ba		-	s located in a de	pression near a farmstead	
	מושקיים מוש	and souge. It i			
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 balsamifera	70.00	Yes	FACW	That Are OBL, FACW, or FAC: 4	(A)
2		·		Total Number of Dominant	
3				4 Species Across All Strata:	(B)
4				Percent of Dominant Species	
	70	= Total Cover		100 That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15 ft )				Prevalence Index worksheet:	
1. Salix discolor	15.00	Yes	FACW	Total % Cover of:	Multiply by:
2. Populus balsamifera	10.00	Yes	FACW	OBL species 40.00	<u>x 1 40</u>
3		·		FACW species 130.00 FACU species 10.00	$\frac{2}{x^{2}}$ $\frac{260}{40}$
5				UPL species 0.00	x4 0
	25	= Total Cover		Column Totals 190	(A) <u>370</u> (B)
Herb Stratum (Plot Size: 5 ft )				Prevalence Index = B/	
1. Carex lacustris Phalaris arundinacea	40.00 25.00	Yes Yes	FACW	Hydrophytic Vegetation Indicators	
2. Phalaris arundinacea 3. Rubus idaeus	10.00	No	FACU	yes 1 - Rapid Test for Hydroph yes 2 - Dominance Test is > 50	
4. Lathyrus palustris	10.00	No	FACW	yes 3 - Prevalence Index is ≤ 3	
5. Solidago gigantea	10.00	No	FAC	4 - Morphological Adaptat supporting data in Remarks or oi	ions <sup>1</sup> (Provide
6				-	
7				Problematic Hydrophytic Vegetation (Explain)	1
				<ul> <li>(Explain)</li> <li><sup>1</sup>Indicators of hydric soil and wetland hydro</li> </ul>	ogy must be present,
9		·		– unless disturbed or problematic.	
10				-	
	95	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1				-	
2	- <u> </u>			-	
	0	= Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic Vegetation	
				Present?	
Remarks:	au villar vilat	التحت أممو			
The wetland sample point is dominated by balsam poplar, pus	sy willow, lake sedg	e, anu reed canary	r gl d55.		

JS Army Corps o OIL									Sampling P	
rofile Descrip	otion: (Describe to the	e depth ne	eeded to doc	ument the	e indicat	or or co	nfirm th	ne absence of	indicators.)	
epth	Matrix			Redox F	eatures					
nches)	Color (moist)	%	Color (I	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	
-5	10YR 2 1	100			. <u> </u>			MMI	Sandy mineral componen	t
-12	2.5Y 4 1	90	10YR 4 4		10	<u>C</u>	Μ	LFS		
2-24	2.5Y 5 2	100						LCOS		
					•					
	ntration, D=Depletion, RM	=Reduced N	Aatrix, MS=Mas	ked Sand Gr	ains.					Pore Lining, M=Matr
/dric Soil Indica								_	ors for Problematic Hydric Soil <sup>3</sup> :	
Histosol (	A1)		_	Sandy Gleyed		S4)		_	cm Muck (A9) ( <b>LRR I, J</b> )	
-	oedon (A2)			Sandy Redox	(S5)			_	oast Prairie Redox (A16)( <b>LRR K, L, R</b>	)
Black Hist	ic (A3)			Stripped Mat	rix (S6)				ark Surface (S7) (LRR G)	
Hydrogen	Sulfide (A4)		Ц I	oamy Mucky	y Mineral	(F1) <b>(LRR</b>	к, L)	Цн	gh Plains Depressions (F16)	
Stratified	Layers (A5)		Π.	.oamy Gleye	d Matrix	(F2)		(LF	R H outside of MLRA 72 & 73)	
1cm Mucl	k (A9) ( <b>LRR F, G, H</b> )		Π.	Depleted Ma	trix (F3)			🗌 R	educed Vertic (F18)	
<ul> <li>Depleted</li> </ul>	Below Dark Surface (A11)		E F	Redox Dark S	urface (F	6)		R	ed Parent Material (F21)	
Thick Dar	k Surface (A12)			Depleted Dar	k Surface	(F7)		Ωv	ery Shallow Dark Surface (TF12)	
-	. ,		_	Redox Depres				_	ther (explain in remarks)	
	icky Mineral (S1)									
	icky Peat or Peat (S2)(LRR			High Plains D					cors of hydrophytic vegetation and	
5cm Mucl	ky Peat or Peat (S3) (LRR F	)		(MLRA 72	& 73 of I	LRR H)			d hydrology must be present, unles ed or problematic.	s
								uistui b	ed of problematic.	
		Г								
		-								
Туре:		-					I	Hydric Soil Prese	nt? Yes	
Type: Depth (ir emarks:							1	Hydric Soil Prese	nt? Yes	
Type: Depth (ir emarks: . depleted matr	iches):							Hydric Soil Prese	nt? <u>Yes</u>	
Type: Depth (ir emarks: depleted matr IYDROLOO Vetland Hydr	iches): ix was observed under a d	ark mucky n	nineral layer.						nt? Yes	m of two required
Type: Depth (ir emarks:	iches): ix was observed under a d GY ology Indicators: tors (minimum of one	ark mucky n	mineral layer.							m of two required
Type: Depth (ir emarks: . depleted matr YDROLOO /etland Hydr rimary Indica Surface V	iches): ix was observed under a d GY ology Indicators: tors (minimum of one	ark mucky n	mineral layer.	that apply)		13)			econdary Indicators (minimu	
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