WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: City	Pennir //County:		rivi - Great Fr	Sampling Date:	2015-07-08
Enbridge	/County		nnesota		u-153n44w11-f1
Applicant/Owner: BCS/BJC		State:		Sampling Point:	
		Section, Towns	ship, Range:	Linear	0-2%
Landform (hillslope, terrace, etc.):			f (concave, con	vex, none):	Slope (%):
Subregion (LRR or MLRA):	Latitude	48.091613645	57 Longit	-96.27189986 tude:	
Minnesota State Plane North, NAD 83 (Datum:					
Poppleton fine sand I47A Soil Map Unit Name:				NWI Classificatio	on:
	Conthin time of a		Linia Domarko		Yes
$\label{eq:approx} \begin{tabular}{lll} Are climatic/hydrologic conditions on the site typical \\ Are Vegetation & No & No \\ & & No & No \\ & & No & No \\ & & No & No$	•	, , , ,		, VΔς	
Are Vegetation No					
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poir	nt locations, tra	ansects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	es	Is the Sam	nled Area		
No.	0			No	
Hydric Soil Present?	<u> </u>	within a W			-
Wetland Hydrology Present?	-		ional Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or in a The upland sample area is located near a gravel farm		•	ted ditch wetlar	nd	
The upland sample area is located field a graver farm	rroad apsiope ii	om the associa	ica aiteii wetiai	iu.	
VEGETATION - Use scientific names of plants.					
VEGETATION - OSC SCIENTING Harnes of plants.	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size: 30 ft)	% Cover	Species?	Status	Number of Dominant Species	
1. Populus tremuloides	20.00	Yes	FAC	That Are OBL, FACW, or FAC: 3	(A)
2. Picea pungens	10.00	Yes	FAC	Total Number of Dominant	
3. Quercus macrocarpa	5.00	No	FACU	5 Species Across All Strata:	(B)
4				Percent of Dominant Species	
	35	= Total Cover		60 That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15 ft)				Prevalence Index worksheet:	
1. Prunus virginiana	15.00	Yes	FACU	Total % Cover of:	Multiply by:
2. Populus balsamifera Corylus americana	5.00	No	FACW	OBL species 0.00	x1 <u>0</u>
3. Corylus americana A Populus tremuloides	5.00	No No	- UPL	FACU species 45.00 FACU species 35.00	_ ^2
5	5.00	No	FAC	FACU species 35.00 UPL species 5.00	x 3
5	30	= Total Cover	-	Column Totals 144	(A) 456 (B)
Herb Stratum (Plot Size: 5 ft)				Prevalence Index = B/	
1. Agrostis gigantea	40.00	Yes	FACW	Hydrophytic Vegetation Indicators	
2. Medicago lupulina	20.00	Yes	FACU	1 - Rapid Test for Hydroph	nytic Vegetation
3. Toxicodendron rydbergii	10.00	No	FACU	yes 2 - Dominance Test is > 50	_
4. Trifolium repens E Taraxacum officinale	5.00	No	FACU	no 3 - Prevalence Index is ≤ 3	
Moliletus officinalis	2.00	No No	FACU FACU	4 - Morphological Adapta supporting data in Remarks or o	
6. Wellotus officinalis 7	2.00	. 100	- TACO	Problematic Hydrophytic Vegetatio	n ¹
8				(Explain)	
g,				Indicators of hydric soil and wetland hydro	ology must be present,
3			-	unless disturbed or problematic.	
10				-	
	79	_ = Total Cover			
Woody Vine Stratum (Plot Size:)					
1		-	_	-	
2				-	
	0	_ = Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic	
				Vegetation Present?	
Remarks:					
The sample area is dominated by quaking aspen and blue sprud	ce in the tree stratu	ım, chokecherry in	the shrub stratum	, and redtop and a variety of forbs ir	the herb stratum. Althoug

SOIL Sampling Point: u-153n44.

Depth Matrix	(Redox	Features	S			f indicators.)
inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
)-8 2.5Y 3 2	100	color (moist)	,,	.,,,,	200	LFS	
-24 2.5Y 5 3	90 1	LOYR 3 6	10		M	FS	
			-				
						-	
			-				
							_
	— — -			- —		-	
ype: C=Concentration, D=Depletion, R	RM=Reduced Ma	trix, MS=Masked Sand Gr	ains.				² Location: PL=Pore Lining, M=N
ydric Soil Indicators:							tors for Problematic Hydric Soil ³ :
Histosol (A1)		☐ Sandy Gleyed	d Matrix (S4)			Lcm Muck (A9) (LRR I, J)
Histic Epipedon (A2)		Sandy Redox	(S5)			□ (oast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)		Stripped Mat	trix (S6)				Park Surface (S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy Muck	y Mineral	(F1) (LRR	K, L)	□ +	ligh Plains Depressions (F16)
Stratified Layers (A5)		Loamy Gleye	d Matrix ((F2)		(L	RR H outside of MLRA 72 & 73)
1cm Muck (A9) (LRR F, G, H)		Depleted Ma	itrix (F3)			□ F	educed Vertic (F18)
Depleted Below Dark Surface (A1	1)	Redox Dark S		6)			ed Parent Material (F21)
	,						
☐ Thick Dark Surface (A12)		☐ Depleted Da		` '			'ery Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Redox Depre	ssions (F8	3)			Other (explain in remarks)
2.5cm Mucky Peat or Peat (S2)(LF	RR G, H)	☐ High Plains D	epression	ns (F16)		3Indica	ators of hydrophytic vegetation and
5cm Mucky Peat or Peat (S3) (LRF	R F)	(MLRA 72	2 & 73 of I	LRR H)			d hydrology must be present, unless
						disturl	ped or problematic.
estrictive Layer (if present):							
Type:							No
Depth (inches):			Ī			Hydric Soil Pres	ent? NO
emarks:							
IYDROLOGY							
Vetland Hydrology Indicators:							
Vetland Hydrology Indicators: rimary Indicators (minimum of o	ne is required		-				Secondary Indicators (minimum of two requi
Vetland Hydrology Indicators: rimary Indicators (minimum of o Surface Water (A1)	ne is required	Salt Crust (B11))				Surface Soil Cracks (B6)
Vetland Hydrology Indicators: rimary Indicators (minimum of o Surface Water (A1) High Water Table (A2)	ne is required	Salt Crust (B11) Aquatic Inverte) ebrates (B				Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Vetland Hydrology Indicators: rimary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3)	ne is required	Salt Crust (B11) Aquatic Inverte Hydrogen Sulfid	ebrates (B de Odor (G	C1)		.;	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
vetland Hydrology Indicators: rimary Indicators (minimum of o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ne is required	Salt Crust (B11) Aquatic Inverte Hydrogen Sulfic	ebrates (B de Odor (C ter Table (C1) (C2)	nots (C2)		Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
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