WETLAND DETERMINATION DATA FORM - Great Plains Region

SPP Project/Site: C	Polk ity/County:			Sampling Date:	2015-07-18
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	PO083a1W
ACM/LEB Investigator(s):		Section, Towns	hip, Range:		
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA):	Latitude	47.805289425	f (concave, conv 59 Longit	Conca vex, none): -96.46195859 ude:	20 Slope (%):
Minnesota State Plane North, NAD 8 Datum:	3 (2011) U.S. feet				
Soil Map Unit Name:				NWI Classification	R2UBH on:
Are climatic/hydrologic conditions on the site typic	al for this time of y	year? (if no, exp	lain in Remarks):	Yes
Are Vegetation No	o significantly di	sturbed? Are "l	Normal Circums	Yes tances" present?	
Are Vegetation No No No No No Hydrology No					
SUMMARY OF FINDINGS - Attach site map sho	wing sampling poir	nt locations, tra	nsects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	Yes	Is the Sam		·	
	Yes	within a W		Yes	
Hydric Soil Present?	Yes	i	onal Wetland Si	te ID:	-
Wetland Hydrology Present? Remarks: (Explain alternative procedures here or	in a separate repor				
The wetland a seasonally flooded fringe wetland t			d Lake River and	d dominated by riverbank sedg	ge, indian-hemp, and r
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		· ———	· ———	That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant 2	
3	_			Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15 ft)		-		Prevalence Index worksheet:	
1				Total % Cover of:	Multiply by:
2				OBL species 65.00	x 1 <u>65</u>
3				FACW species 12.00	x 2 <u>24</u>
4	-			FACU species 40.00	x 3 <u>0</u>
5				UPL species 2.00	x 4 <u>10</u>
	0	= Total Cover		Column Totals 119	_ (-,
Herb Stratum (Plot Size: 5 ft) Grex emoryi				Prevalence Index = B/	
Angerman connekinum	65.00	Yes	OBL	Hydrophytic Vegetation Indicators	
Pholoric arundinasco		Yes	FACW	1 - Rapid Test for Hydroph yes 2 - Dominance Test is > 50	
3. Solidago gigantea	10.00	No No	FAC	yes 2 - Dominance Test is > 50 yes 3 - Prevalence Index is ≤ 3	_
5. Agrostis gigantea	2.00	No	FACW	4 - Morphological Adapta	
6. Bromus inermis	2.00	No	UPL	supporting data in Remarks or o	
7	_			Problematic Hydrophytic Vegetatio	n ¹
8	_			(Explain)	
9				Indicators of hydric soil and wetland hydro	logy must be present,
3.	_			unless disturbed or problematic.	
10					
	119	= Total Cover			
Woody Vine Stratum (Plot Size: 30 ft)					
1		- ·			
2]	
	0	= Total Cover			
or Barra Constant for Mark Structure O	_			Hudronhutic	
% Bare Ground in Herb Stratum 0				Hydrophytic Vegetation	
				Present?	
Remarks:					
The vegetation is dominated by riverbank sedge and indian-	nemp.				

SOIL Sampling Point: PO083a1W

Depth Matrix	(Redox F	eatures			
nches) Color (moist)	%	Color (moist)	% Type ¹	Loc ² Texture	Remark	ks
		_				
Type C-Concentration D-Douleties I	DA4-Dadward Matrix	NAC-Nactord Cond Cur			2 _{1 continue} DI	=Pore Lining, M=Mat
Type: C=Concentration, D=Depletion, I	XIVI=Reduced IVIatrix	, MS=Masked Sand Gra	ains.	Indian		=Pore Lining, M=Mat
ydric Soil Indicators:					tors for Problematic Hydric Soil ³ :	
Histosol (A1)		Sandy Gleyed	Matrix (S4)		Lcm Muck (A9) (LRR I, J)	
Histic Epipedon (A2)		Sandy Redox ((S5)		oast Prairie Redox (A16)(LRR K, L, I	R)
Black Histic (A3)		Stripped Matr	rix (S6)	□ □	Park Surface (S7) (LRR G)	
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F1) (LRR K,	, ц) 🗀 н	ligh Plains Depressions (F16)	
Stratified Layers (A5)		Loamy Gleyed	d Matrix (F2)	(L	RR H outside of MLRA 72 & 73)	
1cm Muck (A9) (LRR F, G, H)		Depleted Mat	trix (F3)	F	educed Vertic (F18)	
Depleted Below Dark Surface (A1	11)	Redox Dark Su			ed Parent Material (F21)	
	11)				, ,	
☐ Thick Dark Surface (A12)		☐ Depleted Dark	k Surface (F7)		'ery Shallow Dark Surface (TF12)	
Sandy Mucky Mineral (S1)		Redox Depres	ssions (F8)	✓ (Other (explain in remarks)	
2.5cm Mucky Peat or Peat (S2)(L	RR G, H)	High Plains De	epressions (F16)	3 _{Indic}	ators of hydrophytic vegetation and	
5cm Mucky Peat or Peat (S3) (LR	R F)	(MLRA 72	& 73 of LRR H)		d hydrology must be present, unle	
				disturl	ped or problematic.	
estrictive Layer (if present):						
Type:						
Depth (inches):			i	Hydric Soil Pres	ent? Yes	
oils were not sampled due to the locat	tion over existing pip	elines, but are assume	d to be hydric based	on the dominant vege	tation and landscape position.	
Vetland Hydrology Indicators:						
rimary Indicators (minimum of o	one is required; ch				Secondary Indicators (minimu	
		neck all that apply)		:	,	ım of two require
Surface Water (A1)	_	neck all that apply) Salt Crust (B11)			Surface Soil Cracks (B6)	
High Water Table (A2)	- -			į	Surface Soil Cracks (B6) Sparsely Vegetated Conca	
	- - -	Salt Crust (B11)	brates (B13)		Surface Soil Cracks (B6)	
High Water Table (A2) Saturation (A3) Water Marks (B1)	- - -	Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Dry-Season Wate	orates (B13) le Odor (C1) er Table (C2)		Surface Soil Cracks (B6) Sparsely Vegetated Conca	ve Surface (B8)
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