L3R	D DETERMINAT Marsha		RM - Great P		2015-06-04
Enbridge	y/County:	Min	inesota	Sampling Date:	u-155n46w2-m1
Applicant/Owner:BCS/LEB		State:		Sampling Point: T155N, R46W	
Investigator(s):		Section, Towns	hip, Range:		
Talf Landform (hillslope, terrace, etc.):		Local Relie	f (concave, con	· · · —	0-2 Slope (%):
LRR F Subregion (LRR or MLRA):	Latitude:	48.274007504	48 Longi	-96.52984899 tude:	
Minnesota State Plane North, NAD 83 Datum:	(2011) U.S. feet				
I65A Soil Map Unit Name:				NWI Classificatio	on:
Are climatic/hydrologic conditions on the site typical	for this time of y	year? (if no eve	lain in Pomarke		Yes
No No No Are Vegetation, Soil, or Hydrology					
Are Vegetation No, Soil, or Hydrology					
SUMMARY OF FINDINGS - Attach site map showi	ing sampling poin	nt locations, tra	insects, import	ant features, etc.	
N Hydrophytic Vegetation Present?	lo	Is the Sam	pled Area		
	lo	within a W		No	
N	lo		onal Wetland S	ite ID:	
Wetland Hydrology Present?					
The upland sample area is dominated by smooth br			l located withir	a grassy hay field upslope fror	n the associated cattai.
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1			·	That Are OBL, FACW, or FAC: $\frac{0}{}$	(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	= Total Cover		0 That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size:)				Prevalence Index worksheet:	
1				Total % Cover of:	Multiply by:
2				OBL species 0.00	X1 0 x2 0
3				FACW species 0.00 FACU species 4.00	x 2 0 x 3 140
5.				UPL species 50.00	_ ^
	0	= Total Cover		Column Totals 89	(A) <u>402</u> (B)
Herb Stratum (Plot Size:)				Prevalence Index = B/	A = 4.51685
1. Bromus inermis	50.00	Yes	UPL	Hydrophytic Vegetation Indicators	:
2. Poa pratensis 2. Solidago canadensis	25.00	Yes	FACU	1 - Rapid Test for Hydropl	, ,
A Melilotus officinalis	5.00 5.00	No	FACU FACU	no 2 - Dominance Test is > 50 no 3 - Prevalence Index is ≤ 3	
4 5. Solidago gigantea	2.00	No No	FACO FAC	4 - Morphological Adapta	
6. Erigeron philadelphicus	2.00	No	FAC	supporting data in Remarks or o	
7. Solidago nemoralis	2.00	No		Problematic Hydrophytic Vegetatio	n ¹
8				(Explain)	
9				¹ Indicators of hydric soil and wetland hydro – unless disturbed or problematic.	logy must be present,
10				uness distarbed of problematic.	
	91	- Tatal Causa		-	
Woody Vine Stratum (Plot Size:)		- Total Cover			
1					
				1	
2				-1	
	0	= Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic Vegetation	
				Present?	
Remarks:					
Upland sample area dominated by smooth brome and Kentuc	ky bluegrass.				

							1EEn/C
				<i>c</i>			oint: <u>u-155n46</u>
Profile Description: (Describe to				nfirm th	e absence of ind	icators.)	
Depth Matrix		Redox Fea		. 2	- .		
inches) Color (moist))-10 10YR 2 1		Color (moist)	% Type ¹	LOC-	Texture	Remark	S
	100				SCL .		
10-16 10YR 4 1	100				FSL		
10YR 4 2	100				FSL .		
ype: C=Concentration, D=Depletion,	RM=Reduced Matrix,	 MS=Masked Sand Grain	15.			² Location: PL:	=Pore Lining, M=Matr
ydric Soil Indicators:					Indicators f	or Problematic Hydric Soil ³ :	
Histosol (A1)		Sandy Gleyed M	latrix (S4)		1cm N	/luck (A9) (LRR I, J)	
-		Sandy Redox (S5			_	Prairie Redox (A16)(LRR K, L, R	0
Histic Epipedon (A2)							.)
Black Histic (A3)		Stripped Matrix	(S6)		_	urface (S7) (LRR G)	
Hydrogen Sulfide (A4)		Loamy Mucky N	/lineral (F1) (LRR	K, L)	🔲 High P	lains Depressions (F16)	
Stratified Layers (A5)		Loamy Gleyed N	Matrix (F2)		(LRR H	outside of MLRA 72 & 73)	
1cm Muck (A9) (LRR F, G, H)		Depleted Matrix	x (F3)		Reduc	ed Vertic (F18)	
Depleted Below Dark Surface (A:	11)	Redox Dark Surf	face (F6)		Red Pa	arent Material (F21)	
-	,					hallow Dark Surface (TF12)	
Thick Dark Surface (A12)		Depleted Dark S					
Sandy Mucky Mineral (S1)		Redox Depressio	ons (F8)		U Other	(explain in remarks)	
2.5cm Mucky Peat or Peat (S2)(L	LRR G, H)	High Plains Depr	ressions (F16)		³ Indicators	of hydrophytic vegetation and	
5cm Mucky Peat or Peat (S3) (LR	RR F)	(MLRA 72 &	73 of LRR H)			drology must be present, unles	
					disturbed o	r problematic.	
estrictive Layer (if present):							
Туре:							
Depth (inches):				H	lydric Soil Present?	No	
Beptil (inches):							
Remarks:							
	y clay loam, transitioni	ing to a lighter, sandier	matrix below.				
emarks: 'he soil profile consists of a black sandy	y clay loam, transitioni	ing to a lighter, sandier	matrix below.				
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emarks: he soil profile consists of a black sandy IYDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of c		eck all that apply)	matrix below.				m of two required
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