## WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: Cit	Marsha //County:	II		Sampling Date:	2015-06-03
Enbridge Applicant/Owner:		Mini State:	nesota	Sampling Point:	u-156n46w34-a1
Investigator(s): ACM/KRG	9	Section, Townsh	nip, Range:		
talf Landform (hillslope, terrace, etc.):			(concave, conv		0-2 Slope (%):
Subregion (LRR or MLRA):	Latitude:	48.289550067		-96.54401700 ude:	
Minnesota State Plane North, NAD 83					
				ADA# 61 - 15 - 11	
Soil Map Unit Name:					on: Yes
Are climatic/hydrologic conditions on the site typica					
Are Vegetation No	_ significantly dis	turbed? Are "N	Normal Circums	tances" present?	
No No No Are Vegetation, Soil, or Hydrology	naturally problem	natic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	<del></del>	t locations, tra	nsects, importa	int features, etc.	
Hydrophytic Vegetation Present?	lo 	Is the Sam	oled Area		
Hydric Soil Present?	lo	within a W	etland?	No	
, <u>, , , , , , , , , , , , , , , , , , </u>	lo	1	onal Wetland Si	te ID:	-
Wetland Hydrology Present?  Remarks: (Explain alternative procedures here or in	a separate report	<b></b>			
The upland point is located in a grazed pasture and			S.		
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: 0	(A)
2				Total Number of Dominant	
3.				Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	- Total Cause		0 That Are OBL, FACW, or FAC:	(A/B)
	0	= Total Cover		Prevalence Index worksheet:	(A/B)
1				Total % Cover of:	Multiply by:
2				OBL species 0.00	x1 0
3				FACW species 5.00	x 2 10
4				FACU species 7.00	x 3 <u>380</u>
5				UPL species 5.00	x 4 <u>25</u>
	0	= Total Cover		Column Totals <u>112</u>	(A) <u>436</u> (B)
Herb Stratum (Plot Size: 5 )				Prevalence Index = B	
Trifolium repens	75.00	Yes	FACU	Hydrophytic Vegetation Indicator	
2. Introductive periods 3. Solidago gigantea	5.00	No No	FACU FAC	no 2 - Dominance Test is > 5	, ,
Taraxacum officinale	5.00	No	FACU	no 3 - Prevalence Index is $\leq 3$	
5. Bromus inermis	5.00	No	UPL	4 - Morphological Adapta	
6. Carex praegracilis	5.00	No	FACW	supporting data in Remarks or o	
7. Plantago major	2.00	No	FAC	Problematic Hydrophytic Vegetation	n <sup>1</sup>
8				(Explain)	
9				1 Indicators of hydric soil and wetland hydro unless disturbed or problematic.	ology must be present,
10					
	112	= Total Cover			
Woody Vine Stratum (Plot Size:)		10101 00101			
1					
2.			-		
	0	Tatal Carra		-	
	<u> </u>	= Total Cover			
% Bare Ground in Herb Stratum 0			Hydrophytic Vegetation		
				Present?	
Remarks:					
Vegetation is dominated by Kentucky bluegrass.					

SOIL Sampling Point: u-156n46.

Depth			Redox						
nches) Col	or (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-10 10YR 2	1	100		_			LFS	loamy fine sand	
10-18 10YR 2	1	60					LFS	mixed matrix, loamy fine	sand
10-18 2.5Y 4 3		40					LFS	mixed matrix, loamy fine	sand
		- — —							
								_	
Type: C=Concentration, D=	Depletion, RM=I	Reduced Matri	x, MS=Masked Sand Gr	ains.			1	_	=Pore Lining, M=Ma
ydric Soil Indicators:								rs for Problematic Hydric Soil <sup>3</sup> :	
Histosol (A1)			☐ Sandy Gleye		4)		_	m Muck (A9) (LRR I, J)	
Histic Epipedon (A2)			☐ Sandy Redox	(S5)			☐ Co	ast Prairie Redox (A16)(LRR K, L, R	1)
Black Histic (A3)			Stripped Ma	trix (S6)			□ Da	rk Surface (S7) (LRR G)	
Hydrogen Sulfide (A4	1)		Loamy Muck	y Mineral (	F1) (LRR I	K, L)	☐ Hig	h Plains Depressions (F16)	
Stratified Layers (A5)	)		Loamy Gleye	d Matrix (F	2)		(LRF	R H outside of MLRA 72 & 73)	
1cm Muck (A9) (LRR	F, G, H)		Depleted Ma	itrix (F3)			Re	duced Vertic (F18)	
Depleted Below Dark			Redox Dark S	` '	١			d Parent Material (F21)	
$\neg$									
☐ Thick Dark Surface (#	A12)		☐ Depleted Da					ry Shallow Dark Surface (TF12)	
Sandy Mucky Minera			Redox Depre	, ,			☐ Otl	ner (explain in remarks)	
2.5cm Mucky Peat or	r Peat (S2)(LRR G	i, H)	High Plains D	epressions	(F16)		<sup>3</sup> Indicate	ors of hydrophytic vegetation and	
5cm Mucky Peat or F	Peat (S3) (LRR F)		(MLRA 72	2 & 73 of LI	RR H)		wetland	hydrology must be present, unles	
							disturbe	d or problematic.	
estrictive Layer (if present)	:								
				- 1					
Type:						ŀ	Hydric Soil Presen	t? <u>No</u>	
Depth (inches): emarks: oils are loamy fine sand th	roughout the pro	ofile with no hy	/dric indicators.			-	Hydric Soil Presen	t? <u>No</u>	
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Depth (inches):emarks:  oils are loamy fine sand th  IYDROLOGY  Vetland Hydrology India	licators:							t? No	m of two require
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Depth (inches):emarks:  oils are loamy fine sand th  IYDROLOGY  Vetland Hydrology Indirimary Indicators (min	licators: imum of one i		check all that apply	)	3)			condary Indicators (minimu	
Depth (inches):emarks:  oils are loamy fine sand th  IYDROLOGY  Vetland Hydrology Ind  rimary Indicators (min  Surface Water (A1)	licators: imum of one i		check all that apply	) ebrates (B1		-		econdary Indicators (minimu Surface Soil Cracks (B6)	
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