WETLAND DETERMINATION DATA FORM Great Plains Region

Droiget/Citer										Deter	00/00/11/
Project/Site:		L3R								Date:	08/02/14
Applicant: Enbridge										County:	Kittson
Investigators		BEH/BCS/MRK			Subregior	•	,	MLRA 56		State:	MN
Soil Unit:	I140A						Classification:				
Landform: Side slope					cal Relief:					Sample Point:	u-159n48w6-e1
Slope (%):	16 - 25%		atitude: <mark>48.618</mark>		Longitude:			Datum:			
Are climatic/	hydrologic co	nditions on the site t	ypical for this	s time of yea	tr? (If no, exp	lain in rema	ırks)	⊠ Yes	🗆 No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology □	significantly of	disturbed?		Are	e normal circum	nstances pre	esent?	Township:	
Are Vegetation		□, or Hydrology □	•				☑ Yes	□ No		Range:	Dir:
SUMMARY C			, , , , , , , , , , , , , , , , , , ,							0	
Hydrophytic '			No					Hydric Soil	ls Present?	No	
Wetland Hyd	-		No							t Within A W	etland? No
			-		mada har	m rough	by 6 feet tell. T				
Remarks:							•		pminated by	sweet clove	r, quack grass, and thistle
	•	e berm is next to a w	etland that n	hay have be	en createo	d as a re	sult of the bern	٦.			
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all th	at apply: Min	imum of on	e primary	or two se	econdary requir	ed).			
Primary	•••		at apply, Mill		o printary	01 110 01	boondary roqui	04).	Secondary:		
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog		e Odor			B10 - Drainage	
	B1 - Water M	arks			C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					pheres on Living	Roots (not tille	€ □	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ice			D2 - Geomorp	
	B5 - Iron Dep				Other (Expl	lain)				D5 - FAC-Neu	
		on Visible on Aerial Imag	lery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-Si	tained Leaves									
Field Observ	vations:										
Surface Wat	er Present?	Yes 🗆	Depth:		(in.)						N
Water Table		Yes 🛛			í (in.)			wetland H	lydrology l	Present?	Ν
Saturation P		Yes 🗆	Depth:		(in.)						
			•		,						
Describe Rec	orded Data (s	stream gauge, monito	ring well, aeria	al photos, pre	evious insp	ections),	if available:				
Remarks:	No primary	or secondary hydrological	ogical indicat	ors were ob	served.						
			-								
SOILS											
	iption (Descri	be to the depth need	led to docum	ent the indi	cator or co	onfirm the	e absence of in	dicators.)			
		etion, RM=Reduced Matri									
			,		,		5,	,			
		Matrix				Mottle	20				
Dopth (In)			%		Moiet)	%		Location	Toxturo		Pomorka
Depth (In.)		Color (Moist)		Color (I	vioist)	70	Туре	Location	Texture		Remarks
0-24	Hue_10YR	2/1	100					ļ	U		
								1	1		
								1	1	1	

NPCS Hydric Soil Field Indicators (check here if indicators are nragent)

NRCS Hydri	ic Soil Field Indicators (check	k here if ind	icators are not present):		
_					Indicators for Problematic Soils ¹
	A1- Histosol		S5 - Sandy Redox		A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon		S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic		F1 - Loamy Mucky Mineral		S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide		F2 - Loamy Gleyed Matrix		F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)		F3 - Depleted Matrix		F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)		F6 - Redox Dark Surface		TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface		F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface		F8 - Redox Depressions		Other (Explain in Remarks)
	S1 - Sandy Mucky Mineral		F16 - High Plains Depressions (ML	RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR	2 G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)	-)			¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix				unless disturbed or problematic.
Restrictive Layer	Туре:		Depth:	Hydric Soil Present?	<u>N</u>
Remarks:	Soil is one layer of dark clay. Soil	il does not n	neet any hydric indicators.		

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Project/Site:	e: L3R				Sample Point: u-159n48w6-e1
-					· · · · · · · · · · · · · · · · · · ·
EGETATIO		e non-native	species.)		
Free Stratum ((Plot size: 30 ft. radius)				
4	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	-				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
<u>4.</u>					Total Number of Dominant Species Across All Strata:2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$OBL spp. 0 \qquad x 1 = 0 \qquad \qquad$
	Total Cover = _	0	_	,	FACW spp. 0 $X Z = 0$
					FACW spp. 0 x 2 = 0 FAC spp. 25 x 3 = 75 FACU spp. 100 x 4 = 400
	Stratum (Plot size: 15 ft. radius)				$\begin{array}{c} FACU \text{ spp.} \\ 100 \\ X 4 = \\ 400 \\ F \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
<u> </u>					UPL spp. 0 $X 5 = 0$
2.					
3.					Total125 (A)475 (B)
4.					
5.					Prevalence Index = B/A = <u>3.800</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover = _	0	_	,	Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)			=:011	Problem Hydrophytic Vegetation (Explain) *
1.	Melilotus officinalis	40	Y	FACU	
2.	Elymus repens	35	Y	FACU	
3.	Sonchus arvensis	20	N	FAC	present, unless disturbed or problematic.
4.	Cirsium arvense	20	N	FACU	Definitions of Vegetation Strata:
5.	Lactuca serriola	5	N	FAC	1
6	Astragalus agrestis	5	Ν	FACU	
7.				,	height (DBH), regardless of height.
8.					1
9.				,	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					1
11.					1
12.				,	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.	1				Woody Vines - All woody vines, regardless of height.
	Total Cover =	125			1 -
			—	,	
Woody Vine St	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.	1				Hydrophytic Vegetation Present? N
5.					
4.					
• •	Total Cover =	0		'	
Remarks:	The sample site is dominated by sweet clover		ok grass	,	
	The sample site is dominated by encorrect.	I and your	JA yradd.		
Additional R	Remarks:				
 I					
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