WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	10/03/14		
Applicant:		Enbridge							County:	Polk		
Investigators	3:	BJC/RAJ			Subregion (M	RA or LRR):	MLRA 56		State:	MN		
Soil Unit:	439			NWI Classification:								
Landform:	andform: Rise				cal Relief: VL		-		Sample Point:	u-150n40w8-a1		
Slope (%):	0 - 2%		Latitude: 47	7.823468	Longitude: -95.	96087	Datum:		·			
	hydrologic co	nditions on the site						□No	Section:			
Are Vegetati		☐ or Hydrology		ntly disturbed?	(,	Are normal circur			Township:			
Are Vegetati		or Hydrology				✓ Yes	□No	oone.	Range:	Dir:		
SUMMARY C			Liturally	problematic		1 103	<u> </u>		Range.	DII.		
							Libratai a O a il	- D+0	M-			
Hydrophytic '	•		No		-		Hydric Soil			11 10 N-		
Wetland Hyd	rology Prese	nt?	No				is This Sar	npling Poin	t Within A W	etland? No		
Remarks: The upland sample point is located on a rise in a hayfield. The area is dominated by smooth brome and alfalfa.												
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	that apply:	Minimum of on	e primary or tw	secondary requ	ired):					
Primary			and apply,	,	.o pa. , o	, , , , , , , , , , , , , , , , , , ,		Secondary:				
	A1 - Surface	Nater			B11 - Salt Crust				B6 - Surface S	Soil Cracks		
	A2 - High Wa	ter Table							☐ B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturatio				C1 - Hydrogen S				B10 - Drainage Patterns			
	B1 - Water M									C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen					zospheres on Living	Roots (not tille		C8 - Crayfish E			
	B3 - Drift Dep				C4 - Presence of C7 - Thin Muck				D2 - Geomorp	n Visible on Aerial Image	ery	
	B4 - Algal Ma B5 - Iron Dep				Other (Explain)	ипасе			D5 - FAC-Neu			
		อรแร In Visible on Aerial Ima	agery	ш	Other (Explain)					aved Hummocks (LRR F	E)	
	B9 - Water-St		lager y					_	D1 - 11031-1106	avea Hammooks (Ertit)	' /	
_												
Field Obser	vations:											
	er Present?	Voc.	Do	nth:	(in)							
		_		epth:			Wetland H	lydrology I	Present?	N		
Water Table		Yes		epth:						_		
Saturation Present? Yes Depth: (in.)												
					='							
Describe Rec	orded Data (s	stream gauge, monit	itoring well,	aerial photos, pr	evious inspection	ns), if available:						
Describe Rec Remarks:					evious inspectio	ns), if available:						
		stream gauge, monit rs of wetland hydro			evious inspectio	ns), if available:						
					evious inspection	ns), if available:						
Remarks:	No indicator		ology were	observed.		•	ndicators.)					
Remarks: SOILS Profile Descri	No indicator	rs of wetland hydro	ology were	observed.	cator or confirr	the absence of i						
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Remarks: SOILS Profile Descri	No indicator	rs of wetland hydro	ology were	observed.	cator or confirr Grains; Location: F	the absence of i						
Remarks: SOILS Profile Descri	No indicator	be to the depth neetion, RM=Reduced Ma	eeded to do	observed.	cator or confirr Grains; Location: F	the absence of in a service of in a service of in a service of the		Texture		Remarks		
Remarks: SOILS Profile Descri	No indicator	be to the depth neetion, RM=Reduced Ma	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand	cator or confirr Grains; Location: F	the absence of in a port of its of	rix)	Texture FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concei	No indicator	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand % Color (cator or confirr Grains; Location: F	the absence of in a port of its of	rix)			Remarks		
Remarks: SOILS Profile Descri (Type: C=Concei	No indicator	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand % Color (cator or confirr Grains; Location: F	the absence of in a port of its of	rix)			Remarks		
Remarks: SOILS Profile Descri (Type: C=Concei	No indicator	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand % Color (cator or confirr Grains; Location: F	the absence of in a port of its of	rix)			Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concei	No indicator	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand % Color (cator or confirr Grains; Location: F	the absence of in a port of its of	rix)			Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicatorion (Description (Description, D=Depl	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	observed. comment the indi ered/Coated Sand Color (cator or confirm Grains; Location: F M Moist) 9	the absence of in- e-Pore Lining, M=Mat ottles	rix)			Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No indicator	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	observed. cument the indivered/Coated Sand % Color (cator or confirm Grains; Location: F M Moist) 9	the absence of in a port of its of	rix)	FS				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator iption (Description, D=Depl	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	observed. cument the indi ered/Coated Sand Color (00 indicators are in	cator or confirm Grains; Location: F Moist) Moist) ont present):	the absence of in- e-Pore Lining, M=Mat ottles	Location	FS Indicators f	or Problematic			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato iption (Descrintration, D=Depl Hue_10YR ric Soil Field A1- Histosol	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eeded to do atrix, CS=Cov	observed. cument the indicered/Coated Sand Color (Col	cator or confirm Grains; Location: F Moist) Moist) One present of the confirm	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator iption (Description, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (chi	eeded to do atrix, CS=Cov	observed. cument the indicered/Coated Sand Color (Col	cator or confirm Grains; Location: F Moist) 9 Moist) 9 not present): edox Matrix	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato iption (Descrintration, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (chaine)	eeded to do atrix, CS=Cov	coment the indicered/Coated Sand Color (Colo	cator or confirm Grains; Location: F M Moist) 9 not present): edox Matrix Mucky Mineral	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils¹ (LRR F, G, H)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicator iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Epi A4 - Hydrogei A5 - Stratified	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (chaipedon stic in Sulfide Layers (LRR F)	eeded to do atrix, CS=Cov	observed. cument the indi rered/Coated Sand Color (Color (Solution Sand Sand Sand Sand Sand Sand Sand San	cator or confirm Grains; Location: F Moist) Moist) Ot present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic	c Soils¹ (LRR F, G, H)	3)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (chaipedon tic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do atrix, CS=Cov	cument the indicered/Coated Sand Color (Colo	cator or confirm Grains; Location: F Moist) Moist) P Moist) Moist) Moist) Moist) Moist) Moist) Moist) Moist) Moist) Moist	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox (urface (LRR G) 'lains Depression ed Vertic arent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	3)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	No indicato iption (Descrintration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratific A9 - 1 cm Mu A11 - Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) Indicators (chaipedon stic in Sulfide Layers (LRR F) de Below Dark Surface	eeded to do atrix, CS=Cov	coment the indicered/Coated Sand Color (Colo	cator or confirm Grains; Location: F M Moist) 9 Moist present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface	the absence of in- e-Pore Lining, M=Mat ottles	Location	Indicators f A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic arent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	3)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n40w8-a1				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					· , ,				
4.					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.					(AD)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	0	_		FACW spp 0				
					FAC spp. 0 x 3 = 0				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.					UPL spp. 100 x 5 = 500				
2.									
3.					Total 100 (A) 500 (B)				
4.					· · · · · · · · · · · · · · · · · · ·				
5.					Prevalence Index = B/A = 5.000				
6.					1 10 Talion 00 11 11 0.000				
7.									
					Hedrock do Verstalion Indicators				
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) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	60	Υ	UPL					
2.	Medicago sativa	40	Υ	NI	* Indicators of hydric soil and wetland hydrology must be				
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
					. 3 . (, , , , 3				
8.					O I' /Ot I Weeds plants less than 2 in DDI I recordless of height				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.			-						
14.				_					
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	100							
	Total Gover =	100	_						
Moody Vinc Ct	ratum (Plot size: 30 ft. radius)								
	ratum (FIOL SIZE. 30 IL TAUIUS)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.	ļ								
4.									
	Total Cover =	0							
Remarks:	The upland sample point is dominated by sm	ooth brom	e and alfa	lfa.					
	•								
Additional	Pomarke:								
Additional Remarks:									
İ									