WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/09/14
Applicant:		Enbridge								County:	Polk
Investigators	·	JLS/SAM			Subregio	n (MI RA	or LRR):	MLRA 56		State:	MN
Soil Unit:		020/0/ ((1)	<u> </u>			NWI Classification:					
										0	450=2040 b2
Landform:	Side slope				Local Relief					Sample Point:	u-150n39w19-b2
Slope (%):	3 - 7%		Latitude: 47			: -95.694		Datum:			
Are climatic/		nditions on the site		r this time of	year? (If no, ex			⊡Yes	□ No	Section:	
Are Vegetati	on 📮 Soi	☐ or Hydrology	□gnifica	intly disturbe	d?	Are	e normal circun	nstances pr	esent?	Township:	
Are Vegetati		or Hydrology					Yes	□No		Range:	Dir:
SUMMARY (problematie	•					r tarigo:	5
Hydrophytic	0		No						Is Present?		
Wetland Hyd			No							t Within A W	etland? No
Remarks:	The sample	point is located in	n an open fi	ield upslope	of a large en	nergent w	etland. The are	ea is near a	n existing pi	peline.	
HYDROLOG	V										
HYDROLOG	ĭ										
Wetland Hy	drology Ind	icators (Check all	that apply:	; Minimum o	one primary	or two se	econdary requi	red):			
Primary		,		•	. ,		, ,	,	Secondary:		
	A1 - Surface	Water			□ B11 - Salt	Crust				B6 - Surface S	oil Cracks
I =	A2 - High Wa				☐ B13 - Aqu						Vegetated Concave Surface
I =	A3 - Saturation				C1 - Hydro					B10 - Drainage	
I =	B1 - Water M				☐ C2 - Dry S						Rhizospheres on Living Roots (tilled)
I =	B2 - Sedimer	t Deposits					spheres on Living	Roots (not till		C8 - Crayfish E	
I =	B3 - Drift Dep				☐ C4 - Prese			(Nisible on Aerial Imagery
I =	B4 - Algal Ma				C7 - Thin	Muck Surfa	ace			D2 - Geomorp	
I 🗆	B5 - Iron Dep				Other (Ex					D5 - FAC-Neu	tral Test
		on Visible on Aerial Im	nagery		_ ` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves	0 ,								, ,
Field Obser	vations:										
		_									
Surface Wat	er Present?	Yes \square	De	epth:	(in.)			Wetland F	lydrology I	Procent?	N
Water Table	Present?	Yes \square	De	epth:	(in.)			vvetiana i	iyarology i	resent:	14
Saturation P	resent?	Yes \square		epth:	(in.)						
Describe Rec		stream gauge, moni			, previous ins		if available:				
Describe Rec Remarks:		stream gauge, moni			, previous ins		if available:				
					, previous ins		if available:				
Remarks:					, previous ins		if available:				
Remarks:	No primary	or secondary indic	cators of we	etland hydro	, previous ins ogy were obs	served.		ndicators)			
Remarks: SOILS Profile Descr	No primary	or secondary indicates in the secondary indicate	cators of we	etland hydro	, previous ins	served.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indic	cators of we	etland hydro	, previous ins	served.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indicates	cators of we	etland hydro	, previous ins	onfirm the	e absence of ir ore Lining, M=Mati		ı		
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates to the depth neetion, RM=Reduced Matrix	eeded to do	etland hydrolocument the vered/Coated S.	, previous ins ogy were obs indicator or c and Grains; Loca	onfirm the ation: PL=Po	e absence of ir ore Lining, M=Matr	ix)			
Remarks: SOILS Profile Descr	No primary	or secondary indicates	eeded to do	etland hydrolocument the vered/Coated S.	, previous ins	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates to the depth neetion, RM=Reduced Matrix	eeded to do	etland hydrolocument the vered/Coated S.	, previous ins ogy were obs indicator or c and Grains; Loca	onfirm the ation: PL=Po	e absence of ir ore Lining, M=Matr	ix)	Texture SL		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-14 14-20 NRCS Hydr	No primary iption (Description, D=Depi	or secondary indicators or secondary indicators indicat	eeded to do atrix, CS=Cov	cument the vered/Coated S. Col Col Col Col Col Col Col Co	ndicator or cand Grains; Localor (Moist) re not preser by Redox ped Matrix	onfirm the tition: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	SL SL Indicators f A9 - 1 cm M		: Soils ¹
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary indicators or secondary indicators ibe to the depth neletion, RM=Reduced Minus Matrix Color (Moist) 2/2 3/3 Indicators (chair)	eeded to do atrix, CS=Cov	cument the vered/Coated S. Col Col Col Col Col Col Col Co	ndicator or cand Grains; Loca or (Moist) re not preser by Redox ped Matrix ny Mucky Minei ny Gleyed Matr	onfirm thation: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (ırface (LRR G)	: Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depi Hue_10YR Hue_10YR A1- Histosol A2 - Histosol A2 - Black Histosol A4 - Hydroge	or secondary indicators or secondary indicators ibe to the depth neletion, RM=Reduced Minus Matrix Color (Moist) 2/2 3/3 Indicators (chair)	eeded to do atrix, CS=Cov	cument the vered/Coated S. % Col 00 00 f indicators a \$55 - San \$66 - Strip F1 - Loar	ndicator or cand Grains; Loca or (Moist) re not preser by Redox ped Matrix ny Mucky Minei ny Gleyed Matr	onfirm thation: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depressio	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	or secondary indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 3/3 Indicators (chaipedon stic in Sulfide	eeded to do atrix, CS=Cov	cument the vered/Coated S. % Col. 100 f indicators a S5 - Sam. S6 - Strig F1 - Loar F3 - Depi	ndicator or cand Grains; Loca or (Moist) re not preser by Redox ped Matrix ny Mucky Minei ny Gleyed Matr	onfirm the tition: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depressio	: <u>Soils¹</u> LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depi Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	or secondary indicators (chairpedon stice in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface aucky Mineral	eeded to do atrix, CS=Cov	cetland hydro coument the vered/Coated S. % Col 00 00 f indicators a S5 - San S6 - Strip F1 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep F8 - Red	ndicator or cand Grains; Loca or (Moist) re not preser dy Redox pre Mucky Minei ny Gleyed Matrix ny Mucky Minei ny Gleyed Matrix xo Dark Surface teted Dark Surface teted Dark Surface to Depressions	onfirm the dation: PL=Po Mottle Mottle Mottle ix ace	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Red pc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic arent Material Shallow Dark S	C Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-14 14-20 NRCS Hydi	No primary iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	or secondary indicators in Sufficient Sufface in Suffac	eeded to do atrix, CS=Cov	cetland hydro coument the vered/Coated S. % Col 00 00 f indicators a S5 - San S6 - Strip F1 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep F8 - Red	ndicator or cand Grains; Loca or (Moist) re not preser dy Redox pre Mucky Minei ny Gleyed Matrix ny Mucky Minei ny Gleyed Matrix xo Dark Surface teted Dark Surface teted Dark Surface to Depressions	onfirm the dation: PL=Po Mottle Mottle Mottle ix ace	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Red pc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) lains Depression ed Vertic arent Material Shallow Dark S	C Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-14 14-20 NRCS Hydi	No primary iption (Description (Description) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	cument the vered/Coated S. % Col 100 100 100 100 100 100 100 100 100 10	ndicator or cand Grains; Local or (Moist) re not preser dy Redox ped Matrix ny Mucky Miner ny Gleyed Matrix ox Dark Surfaceted Dark Surfax ox Depressions h Plains Depresent.	onfirm the tation: PL=Po	e absence of irrore Lining, M=Matrices Type Type RA 72, 73 of LRF	Location Location RH)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox (Irface (LRR G) Idains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat	E Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n39w19-b2				
VEGETATION	(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.					(1)				
4.					Total Number of Deminent Cassics Assess All Charter (D)				
					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 x 1 = 0				
	Total Cover =	0			FACW spp. 1 x 2 = 2				
			_		FAC spp. 0 x 3 = 0				
Capling/Chrub (Stratum (Plot size: 15 ft. radius)		FACU spp. 50 x 4 = 200						
	Stratum (Flot size: 15 it. radius)				··· ———				
1.					UPL spp. <u>55</u> x 5 = <u>275</u>				
2.									
3.					Total 106 (A) 477 (B)				
4.									
5.					Prevalence Index = B/A = 4.500				
6.									
7.	Ī								
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	 Total Cover =	0			Prevalence Index is ≤ 3.0 *				
	Total Cover =	U	_						
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	55	Υ	UPL					
2.	Cirsium arvense	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	20	N	FACU	present, unless disturbed or problematic.				
4.	Equisetum hyemale	1	N	FACW	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.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.				_	Supring on as a second of the				
11.					All backgroup (non-wood) \ planta regardless of size				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	106	_						
	•		_						
Woody Vine Str	ratum (Plot size: 30 ft. radius)								
1.	, , , , , , , , , , , , , , , , , , , ,								
2.									
3.					Hydrophytic Vocatation Brosent?				
					Hydrophytic Vegetation Present?N				
5.									
4.				_					
	Total Cover =	0							
Remarks:	The site is dominated by smooth brome and	Canada th	istle. Spec	cies divers	sity is low.				
Additional R	temarks:								
Table North Control									
<u> </u>									