WETLAND DETERMINATION DATA FORM Great Plains Region

		r											
Project/Site:		L3R									Date: County:	09/30/14	
Applicant:	Enbridge											Red Lake	
Investigators	S: NTT/BEH			Subregion (MLRA or LRR):					MLRA 56		State:	MN	
Soil Unit:	I12A	I.	1				•	Classification:			1		
Landform:	Depression				Lo	cal Relief:					Sample Point:	w-151n42w5-b1	
	3 - 7%		Latitude: 4	47.020		Longitude:		002	Datum:		Campie i cint.	W-1011142W0-B1	
Slope (%):													
		nditions on the site				∄Γ ? (If no, exp			⊡Yes	□No	Section:		
Are Vegetati	on 📮 Soil	or Hydrology	□gnific	cantly (disturbed?		Are	e normal circun	nstances pre	esent?	Township:		
Are Vegetati	on 📮 Soil	☐ or Hydrology	□turall	ly prob	olematic?			Yes	□No		Range:	Dir:	
SUMMARY (
Hydrophytic				Yes					Hydric Soil	c Drecent?	Voc		
			_			-						otland? Vos	
	drology Prese	nt?		Yes							nt Within A We		4
Remarks:		is a seasonally fl	ooded ba	asın lo	cated within	a planted	soybear	n field. A mix of	weedy plan	it species a	ire present thi	oughout with cattails preser	nt in
	areas.												
HYDROLOG	Υ												
		icators (Check all	I that app	ıly; Mır	nimum of on	e primary	or two se	econdary requi	red):				
Primary										Secondary:			
	A1 - Surface \			□ B11 - Salt Crust							☑ B6 - Surface Soil Cracks		
	A2 - High Wa					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio					C1 - Hydro					B10 - Drainage		
	B1 - Water M					C2 - Dry S						Rhizospheres on Living Roots (til	illed)
	B2 - Sedimen							spheres on Living	Roots (not till		C8 - Crayfish E		
	B3 - Drift Dep					C4 - Prese						Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorph		
	B5 - Iron Dep				Ц	Other (Exp	iain)				D5 - FAC-Neut		
l H	B9 - Water-St	n Visible on Aerial Im	lagery								D7 - Frost-Hea	ived Hummocks (LRR F)	
"	b9 - Water-Si	allieu Leaves											
Field Obser	vations:												
Surface Wat	ter Present?	Yes	[Depth:		(in.)						.,	
Water Table	Present?	Yes 🗆							Wetland H	lydrology i	Present?	Υ	
Saturation P		Yes 🗆				(in.)							
Saturation	resent?	res 🗅	ı	Depth:		(111.)							
Describe Rec	orded Data (s	stream gauge, moni	itoring wel	II, aeria	al photos, pro	evious insp	ections),	if available:					
									ed on surfac	e soil crack	cs and landsc	ane position	
Describe Rec Remarks:		stream gauge, moni wetland hydrology							ed on surfac	e soil crack	s and landsc	ape position.	
Remarks:									ed on surfac	e soil crack	ks and landsc	ape position.	
Remarks: SOILS	No primary	wetland hydrology	/ indicator	rs are	present. We	etland hyd	rology is	assumed base		e soil crack	ks and landsc	ape position.	
Remarks: SOILS Profile Descr	No primary	wetland hydrology be to the depth ne	indicator	rs are	present. We	etland hyd	rology is	assumed base e absence of ir	ndicators.)	e soil crack	ks and landsc	ape position.	
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Remarks: SOILS Profile Descr	No primary	wetland hydrology be to the depth ne	indicator	rs are	present. We	etland hyd	rology is onfirm the tion: PL=Pe	e absence of irore Lining, M=Matr	ndicators.)	e soil crack	s and landsc	ape position.	
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix	indicator	docum	present. We nent the indi	etland hyd cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	ndicators.)		xs and landsc		
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descri	wetland hydrology be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to o latrix, CS=C	docum covered/	present. We nent the indi	cator or cc Grains; Loca Moist)	nology is confirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr	ndicators.)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (chairmann and chairmann a	eeded to o latrix, CS=C	docum Covered/ %	nent the indi //Coated Sand of Color (I	cator or cc Grains; Loca: Moist) Moist) not presen edox Matrix fucky Minera	nology is confirm that the confirmation is confirmation. The confirmation is confirmation to the confirmation in the confirmation is confirmation.	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descrintration, D=Depl A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) Indicators (chairman and the color in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR leyed Matrix	eeded to clatrix, CS=C	docum % if indi	color (I Color	cator or co Grains; Loca Moist) Moist) not presen edox Matrix Mucky Minera leyed Matrix ark Surface I Dark Surfa epressions ains Depres	mology is confirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matrices Type RA 72, 73 of LRF	Location Location RH)	Indicators of Males disturbed in Indicators of Figure 1 and Males	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ved Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	Remarks Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	esent,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-151n42w5-b1
VEGETATION	N (Species identified in all uppercase are	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:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 20 x 1 = 20
	Total Cover =	0			FACW spp. 15 x 2 = 30
	-				FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20
1.					UPL spp. 0 x 5 = 0
2.					
3.					Total 40 (A) 70 (B)
4.					· · · · · · · · · · · · · · · · · · ·
5.					Prevalence Index = B/A = 1.750
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total cover _		_		Morphological Adaptations (Explain) *
Herh Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Alisma triviale	15	Υ	OBL	1 Toblem Hydrophylic Vegetation (Explain)
2.	Rumex stenophyllus	10	· Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Rorippa palustris	5	N	OBL	present, unless disturbed or problematic.
4.	Solanum ptycanthum	5	N	FACU	Definitions of Vegetation Strata:
5.	Persicaria maculosa	5	N	FACW	Definitions of Vegetation offata.
6	T etsicalia maculosa	3	IN	TACW	Tree
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					, , , , , , , , , , , , , , , , , , , ,
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.				_	Sapining/Silitub - Woody Planto loss than one. BBH, regardless of height.
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All Herbaceous (Holl-woody) plants, regardless of size.
13.					
14.				_	Woody Vines - All woody vines, regardless of height.
15.					VVOODY VINES - All WOODY VINES, TEYARDIESS OF HEIGHT.
]	Total Cover = _	40	_		
	ratum (Plot size: 30 ft. radius)				
1.				_	
2.					
3.				_	Hydrophytic Vegetation Present? Y
5.					
4.				_	
<u> </u>	Total Cover =	0			
Remarks:	The wetland vegetation is dominated by north	ern water	-plantain a	and narrov	v-leaf dock.
Additional R	demarks:				