WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/01/14	
Applicant:		Enbridge								County:	Kittson	
Investigators	i:	EAB/RAJ			Subregio	n (MLRA	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I132A					NW	I Classification	:			·	
Landform:	Depression				Local Relief:	CC				Sample Point:	w-159n49w23-e1	
Slope (%):	0 - 2%		Latitude: 48	.573423	Longitude	: -96.938	8084	Datum:		1 '		
		nditions on the site						□Yes	☑ No	Section:		
Are Vegetation		☐ or Hydrology		ntly disturbed			e normal circun			Township:		
Are Vegetation		☑ or Hydrology				, "	☑ Yes		000111.		Dir:	
			Liturally	problematic?			<u> </u>			Range:	DII.	
SUMMARY C												
Hydrophytic '			Yes						Is Present?			
Wetland Hyd			Yes	-						nt Within A W		
Remarks:											a roadside ditch during times	
high water. The wetland boundary was delineated based on water marks, moss lines, and the absence of smooth brome.												
HYDROLOG	Υ											
		laatawa (Chaale all	l that anni.	Minima				no al\.				
		icators (Check all	і шасарріу,	WIII III III OI	one primary	OI IWO S	econdary requi	reu).	Cocondon			
Primary:		Nator			□ B11 - Salt	Cruet			Secondary:	<u>:</u> B6 - Surface S	oil Cracks	
☐ A1 - Surface Water ☐ A2 - High Water Table					B13 - Aqua		ì				Vegetated Concave Surface	
1 5	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
7	B1 - Water Ma				☐ C2 - Dry S						Rhizospheres on Living Roots (tille	
	B2 - Sedimen	t Deposits		☐ C3 - Oxidized Rhizospheres on Living Roots (not tills ☐							Burrows	
7	B3 - Drift Dep										No Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp		
	B5 - Iron Dep										tral Test	
	B7 - Inundation	n Visible on Aerial Im	nagery							D7 - Frost-Hea	ved Hummocks (LRR F)	
✓	be - Water-St	allieu Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes		pth:				Wotland L	Hydrology	Drocont?	Υ	
Water Table	Present?	Yes \square	Dej	pth:	(in.)			wetianu i	iyurology	rieseiit:	1	
Saturation Pr	resent?	Yes \square		pth:	(in.)						_	
Danasika Dan	1.15.4.7											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	Surface wat	er present through	h most of th	e wetland. R	ecent heavy			area. Wate	er marks (18	8 inches high	at the lowest point in the	
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Remarks:	Surface wat wetland) an	er present through d moss trim lines	h most of th are evident	e wetland. R on the tree t	ecent heavy runks.	rains ha	ive affected the		er marks (18	8 inches high	at the lowest point in the	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Surface wat wetland) an iption (Descrintration, D=Deplementation,	er present throught discovered the depth in the depth in the depth in the depth in the detention, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 Indicators (characteristic in Sulfide Layers (LRR F) ck (LRR FGH) discovered Below Dark Surface ark Surface ark Surface lucky Peat or Peat (LR) cky Peat or Peat (LR) eyed Matrix	h most of the are evident seeded to do latrix, CS=Cover	e wetland. R on the tree t cument the in ered/Coated Sa % Colc 00 indicators an S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo F16 - High	r (Moist)	monfirm the stion: PL=P Mottl: % 40 40 ti): accessions (ML	e absence of ir fore Lining, M=Matters Type C C RA 72, 73 of LRF	Location M R H)	Indicators of lundicators of lundicators of lundicators of lundess disturbed.	for Problematic for Problematic fuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic ced Vertic Parent Material r Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	Remarks Soils RR F, G, H) Ons (LRR H, outisde MLRA 72, 73)	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n49w23-e1				
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.	Fraxinus nigra	80	Υ	FACW					
2.	Acer negundo	10	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC:4(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (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. 0 x 1 = 0				
	Total Cover =	90	_		FACW spp. 95 x 2 = 190				
					FAC spp. 15 x 3 = 45				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.	Fraxinus nigra	10	Υ	FACW	UPL spp. 0 x 5 = 0				
2.									
3.			-	-	Total 110 (A) 235 (B)				
4.									
5.					Prevalence Index = B/A = 2.136				
6.									
7.	, 								
8.					Hydrophytic Vegetation Indicators:				
					• • • •				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	10	_		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Fraxinus nigra	5	Υ	FACW					
2.	Ulmus americana	5	Υ	FAC	* 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.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
				_	Sapinig/Sili up - Woody planto loss than o in. 2211, Tegardiess 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 =	10							
	. 30 30701		=						
Woody Vine Str	atum (Plot size: 30 ft. radius)								
1.	atam (1 10t 3120. 00 it. radius)								
2.				_					
					Hudronbudio Vanadation Bureruda				
3.					Hydrophytic Vegetation Present? Y				
5.				_					
4.									
	Total Cover =	0							
Remarks:	The community is not diverse. Black ash don	ninates the	canopy, v	with some	box elder and elm appearing occasionally. The understory is mostly bare.				
Additional Pawarka									
Additional Remarks:									
1									