WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14	
Applicant: Enbridge											Marshall	
Investigators: BEH/NTT				Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:					NWI Classification:						454p45w2 o4	
Landform: Slope (%):	0 - 2%	Latitud	e: 48.19		cal Relief: Longitude:		372426	Datum:		Sample Point:	u-154n45w2-a1	
		nditions on the site typica						✓ Yes	□ No	Section:		
Are Vegetation		☑, or Hydrology □sign			11 : (11 110, exp		normal circum			Township:		
Are Vegetation			•	olematic?		/ "	✓ Yes		3001101	Range:	Dir:	
SUMMARY O			any proi	orornado.			_ 100	- 110		rango.	DII.	
Hydrophytic \			No					Hydric Soil	s Present?	^o No		
Wetland Hyd	•		No		•					nt Within A We	etland? No	
Remarks:			n a soyl	ean field an	d a wet m	eadow/n					and forbs. Terrain is ver	
	•	area has been tilled in pa	_					•		Ü		Ĭ
HYDROLOGY	Y	•										
		cators (Check all that a	only: Mir	nimum of on	e nrimary	or two se	econdary requir	ed):				
Primary:	•	Cators (Officer all triat a	Jpry, Ivili	iii ii di ii di di	e primary	OI TWO 30	scondary requir	cu).	Secondary	:		
<u> </u>	A1 - Surface \	Vater			B11 - Salt (Crust				B6 - Surface S	oil Cracks	
	A2 - High Wat				B13 - Aqua		_				egetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		- (4:III\
	B1 - Water Ma B2 - Sedimen				C2 - Dry Se		ter Table pheres on Living	Roots (not till	 	C3 - Oxidized F C8 - Crayfish B	Rhizospheres on Living Roots	; (tillea)
	B3 - Drift Dep	•			C4 - Prese			110013 (1101 1111)	, –		Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin M					D2 - Geomorph	nic Position	
	B5 - Iron Depo				Other (Exp	lain)				D5 - FAC-Neut		
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-Hea	ved Hummocks (LRR F)	
	by - water-st	allieu Leaves										
Field Observ	vations:											
Surface Water		Yes □	Donth:		(in)							
Water Table		Yes □ Yes ☑	Depth: Depth:		(in.) (in.)			Wetland H	lydrology	Present?	N	
Saturation Pr		Yes 🗹	Depth:		(in.)							
Saturation	CSCIII:	163										
					` ` ′							
	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring v	vell, aeri	al photos, pre	evious insp	ections),	if available:					
Describe Reco	· · · · · · · · · · · · · · · · · · ·		vell, aeri	al photos, pre	evious insp	ections),	if available:					
Remarks:	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring v	vell, aeri	al photos, pre	evious insp	ections),	if available:					
Remarks:	No primary	tream gauge, monitoring vor secondary hydrologica	vell, aeri al indica	al photos, pre tors were ob	evious insp served.	·		dicators)				
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	e: L3R				Sample Point: u-154n45w2-a1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	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: 5 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					4
<u>9.</u> 10.					
10.	Total Cavar				OBL spp. $0 \times 1 = 0$
	Total Cover =	0			FACW spp. 25
					FAC spp. $\frac{34}{102}$ $\frac{34}{102}$ $\frac{34}{102}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 72 $\times 4 = 288$
1.					UPL spp. 20 $x = 5$ $5 = 100$
2.					
3.					Total 151 (A) 540 (B)
4.					
5.					Prevalence Index = $B/A = 3.576$
6.	<u> </u>				
7.					
8.					Hydrophytic Vegetation Indicators:
9.					
					Rapid Test for Hydrophytic Vegetation
10.	Tatal Cavan				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.	Poa pratensis	25	Υ	FACU	
2.	Agrostis gigantea	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Bromus inermis	20	Υ	UPL	present, unless disturbed or problematic.
4.	Cirsium flodmanii	15	Υ	FAC	Definitions of Vegetation Strata:
5.	Solidago altissima	15	Υ	FACU	
6	Andropogon gerardii	10	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Symphyotrichum ericoides	10	N	FACU	height (DBH), regardless of height.
8.		5	N	FAC	
	Solidago gigantea				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9.	Liatris ligulistylis	5	N	FAC	Sapring/Shrub - Woody plants less than 5 in. DBH, Tegardiess of fleight.
10.	Apocynum cannabinum	5	N	FAC	
11.	Fragaria virginiana	5	N	FACU	
12.	Symphyotrichum laeve	5	N	FACU	Herb - All herbaceous (non-woody) plants, regardless of size.
13.	Thalictrum dasycarpum	2	N	FAC	
14.	Oligoneuron rigidum	2	N	FACU	
15.	Zizia aptera	2	N	FAC	Woody Vines - All woody vines, regardless of height.
	Total Cover =				
	Total Gover =	101			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Stratum (Diet sine) 20 ft madius)				
vvoody vine S	Stratum (Plot size: 30 ft. radius)				-
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	Sample site dominated by Kentucky bluegras	ss, redtop,	smooth b	rome, tall	goldenrod, and Flodman's thistle.
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Additional	Remarks:				