WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/23/14	
Applicant:		Enbridge			0 1	/A 41 D A		14 D 4 50		County:	Pennington	
Investigators		BEH/RAJ			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	IGp Crost				aal Dallafi		I Classification	n:			454544440 64	
Landform:	Crest 3 - 7%		Latitude: 48.1		cal Relief: Longitude:		1290247	Datum:		Sample Point:	u-154n44w18-c1	
Slope (%):		nditions on the site						✓ Ves	□ No	Section:		
Are Vegetation		□, or Hydrology			AT : (II 110, EX		e normal circu			Township:		
Are Vegetation		□, or Hydrology	•			/ //	☑ Yes	-	330110	Range:	Dir:	
SUMMARY C			platarally pr	obiomatio:			_ 103	_140		range.	DII.	
Hydrophytic \			Yes					Hydric Soil	ls Present?	No		
Wetland Hyd	•		No		-					t Within A W	etland? No	
Remarks:				alsam poplar	trees, tren	mbling a	spen saplings					/illow-
Remarks: The upland sample point is dominated by balsam poplar trees, trembling aspen saplings, and smooth brome. The site is on a narrow ridge above a willow-dominated area. The overall area is undulating, with alternating ridges and swales.												
HYDROLOG				9 ,	9	9						
		ioatora (Chaak all	l that apply: N	linimum of on	o primary	or two o	ooondory rogu	uirod\.				
Primary:		icators (Check all	i that apply, iv	illillillium of or	e primary	or two s	econdary requ	illea):	Secondary:			
	<u>·</u>	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		l		_		Vegetated Concave Surface	Э
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry So			a Booto (not till	, ,		Rhizospheres on Living Roc	ots (tilled)
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	g Roots (not till	, <u> </u>	C8 - Crayfish E	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu	tral Test	
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ	votiono.											
Field Observ		Van	Dant		(in)							
Surface Water		Yes		า:	_ (in.)			Wetland H	lydrology I	Present?	N	
Water Table		Yes \square	•	n:	_ (in.)						—	
Saturation Pr	resent?	Yes □	Dept	1.	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	·				evious insp	ections),	if available:					
Describe Reco	·	stream gauge, moni or secondary hydr			evious insp	ections),	if available:					
Remarks:	·				evious insp	ections),	if available:					
Remarks:	No primary	or secondary hydr	rological indic	ators were ob	evious insposerved.	,		in diaptora \				
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological indic	ators were ob	evious insposerved.	onfirm th	e absence of i					
Remarks: SOILS Profile Descri	No primary	or secondary hydr	rological indic	ators were ob	evious insposerved.	onfirm th	e absence of i					
Remarks: SOILS Profile Descri	No primary	or secondary hydr be to the depth ne etion, RM=Reduced Ma	rological indic	ators were ob	evious insposerved.	onfirm th	e absence of i					
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydr be to the depth ne etion, RM=Reduced Matrix Color (Moist)	rological indicated indicated to document the second representation of the	ators were obtained the indicated Sand Color (evious insposerved. cator or co	onfirm th	e absence of i		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2	rological indicated indicated to document the second representation of the	ators were obtained the indicated Sand Color (evious insposerved. cator or cograins; Loca Moist)	onfirm th tion: PL=P	e absence of i	atrix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	No primary ption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 4/4 Indicators (chain in the color in	eeded to doculatrix, CS=Coverd	color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insposerved. cator or cograins; Loca Moist) 2/1 not presen edox Matrix Mucky Miner	Mottle % 10 tion: PL=P	e absence of increase of incre	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrone be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 4/4 Indicators (chain in Sulfide	rological indicated to document the second to document the second to document the second term of the second	color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	evious insposerved. cator or cograins; Loca Moist) 2/1 not presen edox Matrix Mucky Minera Bleyed Matri	Mottle % 10 tion: PL=P	e absence of increase of incre	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	or secondary hydrometric be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 4/4 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH)	rological indicated to document the second s	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D	evious insposerved. cator or cograins; Loca Moist) 2/1 not presen edox Matrix Mucky Minera Gleyed Matrix Matrix ark Surface	mottle was all as a second confirm the tion: PL=P Mottle was a second confirm the tion: PL=P Mottle was a second confirm the tion: PL=P	e absence of increase of incre	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydromore be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/2 4/4 Indicators (chain in Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface	rological indicated to document the second s	dicators are results of the color (and color) and color (b) and color (color) are results of the co	evious insposerved. cator or cograins; Locar Moist) 2/1 not presented Matrix Mucky Mineral Matrix Beyed Matrix Brank Surfaced Dark Surfaced Dark Surfaced	mottle was all as a second confirm the tion: PL=P Mottle was a second confirm the tion: PL=P Mottle was a second confirm the tion: PL=P	e absence of increase of incre	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Matrix Matrix Color (Moist) 2/2 4/4 Indicators (chaine) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	rological indicated to document the second s	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or cograins; Loca Moist) 2/1 anot presented Matrix Mucky Mineral Matrix Matri	Mottle % 10 t):	e absence of increase of incre	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix Matrix Color (Moist) 2/2 4/4 Indicators (chain sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	rological indicated to document to documen	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious insposerved. cator or cograins; Loca Moist) 2/1 anot presented Matrix Mucky Mineral Matrix Matri	Mottle % 10 t):	e absence of ore Lining, M=Ma	Location	LS LS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	pe present,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-154n44w18-c1
VEGETATIO	(Species identified in all uppercase are	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.	Populus balsamifera	55	Y	FACW	
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(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: 60.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					4
10.					Total % Cover of: Multiply by:
10.	Total Cayor				OBL spp. $0 \times 1 = 0$
	Total Cover =	55	FACW spp. 58 $\times 2 = 116$		
					FAC spp. $\frac{16}{}$ $\times 3 = \frac{48}{}$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 15 \times $4 = 60$
1.	Populus tremuloides	15	Y	FAC	UPL spp. 110 $X 5 = 550$
2.	Populus balsamifera	3	N	FACW	
3.					Total 199 (A) 774 (B)
4.					
5.					Prevalence Index = B/A = 3.889
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	18			Prevalence Index is ≤ 3.0 *
	Total Cover =	10			
_					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	85	Υ	UPL	
2.	Asclepias syriaca	25	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	10	N	FACU	present, unless disturbed or problematic.
4.	Melilotus officinalis	5	N	FACU	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.					
11.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All Herbaceous (Horr-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	125			
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.	Vitis riparia	1	Υ	FAC	
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
т.	Total Cover =	1			
Domorko			the chrub	lover, em	act bhroma and common milleusaed dominate the ground layer
Remarks:	baisani popiai dominates the canopy, tremb	ing aspen	the shrub	layer, Sili	ooth brome and common milkweed dominate the ground layer.
Additional	Remarks:				