WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge								County:	Pennington	
Investigators		MRK/OTG			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A			_ .			I Classification:			_		
Landform:	Talf		10.0		ocal Relief:		20004007			Sample Point:	u-152n43w4-e1	
Slope (%):	0 - 2%		Latitude: 48.0				23301667	Datum:				
	<u>, </u>	nditions on the site			•	_	· · · · · · · · · · · · · · · · · · ·	☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•	•	Are	e normal circum	•	esent?	Township:	Dim	
Are Vegetation		□, or Hydrology	□aturally pr	obiematic?				□ No		Range:	Dir:	
Hydrophytic '			No					Hydric Soil	ls Present?	No		
	drology Prese		No		<u> </u>					t Within A W	etland? No	
Remarks:		ple point is locate		d dominated	hy smooth	hrome a	and orchard gra			it vvitilii 74 vv	chand: 110	
rtomants.	Opiana san		a iii a naynci	a dominated	by Sillootii	bronne e	ana oronara gra	00.				
HYDROLOG	Υ											
		inatora (Chaak all	Lthat apply: N	Ainimum of o	no primary	or two o	acandary raqui	rad).				
Primary:	•	icators (Check all	i that apply; it	dinimum of C	ne primary	or two s	econdary requir	ea):	Secondary:			
	<u>·</u>	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		l				Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry S			Dooto (not till			Rhizospheres on Living Roots (t	illed)
	B2 - Sedimen B3 - Drift Dep	•		-			spheres on Living educed Iron	Roots (not till	, –	C8 - Crayfish E	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin I				_	D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Exp	olain)				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	votions											
		Van 👨	Dont	la .	(in)							
Surface Water Table		Yes	Dept		(in.)			Wetland H	lydrology l	Present?	N	
		Yes	Dept		(in.)						_	
Saturation Present? Yes Depth: (in.)												
			<u> </u>									
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	pections),	, if available:					
	orded Data (s		itoring well, a	erial photos, p	revious insp	pections),	, if available:					
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	pections),	, if available:					
Describe Reconstruction Remarks:	orded Data (s No primary	stream gauge, moni or secondary hydr	itoring well, acrological indic	erial photos, p cators observ	orevious insp ved.	,		idicators)				
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Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert Depth (In.)	orded Data (s No primary iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, acrological indicated to documents, CS=Cover	erial photos, perial	orevious inspored. dicator or cod Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)			Remarks	
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Describe Reco	iption (Description, Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, as rological indiceded to documentarix, CS=Cover 100 100 100 100 100 100 100 100 100 10	cators observed. Color	corevious inspored. dicator or condicator o	mottl Mottl % al ix	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Describe Reco	iption (Description, Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chain ipedon stice in 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)	itoring well, as rological indicated at the control of the control	cators observed. Color	corevious inspored. dicator or condicator o	mottl Mottl % al ix	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	esent,
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Describe Reco	iption (Description, Depleted 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 S4 - Sandy G	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chain ipedon stice in 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)	itoring well, as rological indicated to document the second strict of th	cators observed. Color	crevious inspored. dicator or condicator or condicator or condicator or condicator. (Moist) e not present Redox ed Matrix Mucky Miner ed Matrix Dark Surface ed Dark Surfac	monfirm the tion: PL=P Mottl % which is the tion of	es Type RA 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	esent,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w4-e1
					•
VEGETATION	(Species identified in all uppercase a	are 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:(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
	Total Cover	= 0	OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$		
					FAC spp. $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ 15
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
1.					UPL spp. $_{-}$ 45 $_{-}$ X 5 = $_{-}$ 225
2.]			
3.]			Total 105 (A) 460 (B)
4.					
5.					Prevalence Index = B/A = 4.381
6.]			
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover:	= 0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	45	Υ	UPL	
2.	Dactylis glomerata	40	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	15	N	FACU	present, unless disturbed or problematic.
4.	Sonchus arvensis	5	N	FAC	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.					
12.		-			Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover :	= 105			
	Total Cover	_ 100	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1	Atturn (Flot Size. 30 ft. radius)				
2.					
3.		1			Hydrophytic Vegetation Present? N
5.					Hydrophytic Vegetation Present?N
4.	<u> </u>	1			
4.	Total Cover:	= 0			
Domarka:			d orobord	arocc	
Remarks:	Upland sample point is dominated by smoo	an brome an	id orchard	grass.	
	_				
Additional R	lemarks:				