WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14	
Applicant:		Enbridge			0 1 1	(A 41 D A		141 5 4 50		County:	Pennington	
Investigators		NTT/BEH			_Subregio	`	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I53A				l D . l' . (I Classification	າ:			4544420 f4	
Landform:	Depression 3 - 7%		Latitude: 48.		ocal Relief:		1057	Datum		Sample Point	w-154n44w32-f1	
Slope (%):		nditions on the site				: -96.334		Datum:	□ No	Section:		
Are Vegetati		□, or Hydrology			ar: (II 110, ex	1	e normal circur			Township:		
Are Vegetati		□, or Hydrology	•	•			e normal circul ☑ Yes	-	CSCIII:	Range:	Dir:	
SUMMARY (clatarany p	obiematic:			E 163	= NO		range.	DII.	
	Vegetation P		Yes					Hydric Soi	Is Present?	Yes		
	drology Prese		Yes		_					nt Within A W	etland? Yes	
Remarks:		d is a sedge mead		ear the edge	of a mesic	forest. T	The wetland is					
									,,,		9	
HYDROLOG	Y											
Wetland Hy Primary □		icators (Check all Water	l that apply; I	Minimum of or	ne primary B11 - Salt		econdary requi	ired):	Secondary	: B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Sur	rface
	A3 - Saturation B1 - Water M				C1 - Hydro C2 - Dry S					B10 - Drainag	e Patterns Rhizospheres on Living	Poots (tilled)
	B2 - Sedimer						spheres on Living	a Roots (not till	le 🗆	C8 - Crayfish		Roots (tilled)
	B3 - Drift Dep	•					educed Iron	,		C9 - Saturatio	n Visible on Aerial Image	ery
	B4 - Algal Ma				C7 - Thin I		ace		☑	D2 - Geomorp		
	B5 - Iron Dep	osits on Visible on Aerial Im	nagery	П	Other (Exp	piain)				D5 - FAC-Neu	trai Test aved Hummocks (LRR F	=)
		tained Leaves	.ago.y						_	27 11001110	2704 1141111100110 (211111)	,
Field Obser	vations:											
	ter Present?	Yes □	Dep	th:	_ (in.)			Wetland F	Hydrology	Present?	Υ	
Water Table		Yes □	•	th:	_ (in.)			Wottand I	iyai ology		<u> </u>	
Saturation P	resent?	Yes □	Dep	th:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	corded Data (s	stream gauge, mon	itoring well, a	erial photos, pi		pections),	if available:					
Describe Red Remarks:		stream gauge, moni hydrology indicato			revious insp			eomorphic po	osition and	the FAC-Neu	tral test.	
Remarks:					revious insp			eomorphic po	osition and	the FAC-Neu	tral test.	
Remarks:	No primary	hydrology indicato	ors are prese	nt. Wetland h	revious insp ydrology is	s assume	ed based on ge		osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descr	No primary	hydrology indicators be to the depth ne	ors are prese	nt. Wetland hument the ind	revious insp ydrology is icator or co	assume	ed based on ge e absence of in	ndicators.)	osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descr	No primary	hydrology indicato	ors are prese	nt. Wetland hument the ind	revious insp ydrology is icator or co	assume	ed based on ge e absence of in	ndicators.)	osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descr	No primary	hydrology indicators be to the depth ne	ors are prese	nt. Wetland hument the ind	revious insp ydrology is icator or co	assume	ed based on ge e absence of in ore Lining, M=Mat	ndicators.)	osition and	the FAC-Neu	tral test.	
Remarks: SOILS Profile Descr	No primary	hydrology indicato be to the depth ne etion, RM=Reduced Ma	ors are prese	nt. Wetland h ument the ind	revious insp ydrology is icator or co	onfirm thation: PL=P	ed based on ge e absence of in ore Lining, M=Mat	ndicators.)	osition and Texture	the FAC-Neu	tral test. Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to doc atrix, CS=Cove	ument the ind	revious insp ydrology is icator or co Grains; Loca	onfirm the	ed based on ge e absence of in ore Lining, M=Mat	ndicators.) trix)		the FAC-Neu		
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descr	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	ument the ind red/Coated Sand Color (revious insp ydrology is icator or co Grains; Loca (Moist)	onfirm the	ed based on ge e absence of in ore Lining, M=Mat	ndicators.) trix)		the FAC-Neu	Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	ument the ind	revious insp ydrology is icator or co Grains; Loca (Moist)	onfirm the tition: PL=P	ed based on ge e absence of interpretation ore Lining, M=Mater es Type	ndicators.) trix) Location			Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce	No primary ription (Descrentration, D=Depl	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cove	ument the ind	revious insp ydrology is icator or co Grains; Loca (Moist)	onfirm the tition: PL=P	ed based on ge e absence of interpretation ore Lining, M=Mater es Type	ndicators.) trix) Location			Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-18	No primary ription (Descrentration, D=Depl	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to doc atrix, CS=Cover	ument the ind	revious insp ydrology is icator or co Grains; Loca (Moist)	onfirm the stion: PL=P	ed based on ge e absence of interpretation ore Lining, M=Mater es Type	ndicators.) trix) Location			Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-18	No primary ription (Descrentration, D=Depl Hue_10YR Hue_10YR ric Soil Field	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2	eeded to doc atrix, CS=Cover	ument the indred/Coated Sand Color (Hue_10YF	revious insp ydrology is icator or co Grains; Loca (Moist) 8 6/3 not presen	onfirm the stion: PL=P	ed based on ge e absence of interpretation in the control of the c	ndicators.) trix) Location	Texture C C	Gravel present the	Remarks roughout layer.	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-18 NRCS Hydi	No primary ription (Description, D=Deplementation, D=Deplementatio	hydrology indicators be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (ch	eeded to doc atrix, CS=Cover	ument the ind ed/Coated Sand Color (0) Hue_10YR	revious inspections in previous inspections in previous inspections; decay is a series of the previous inspections; Local inspe	onfirm the stion: PL=P	ed based on ge e absence of interpretation in the control of the c	ndicators.) trix) Location M	Texture C C C	Gravel present the for Problemation	Remarks roughout layer.	
Remarks: SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicators be to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters)	eeded to doc atrix, CS=Cover	nt. Wetland h ument the ind red/Coated Sand Color (0 Hue_10YF andicators are S5 - Sandy F S6 - Stripped	revious insp ydrology is icator or co Grains; Loca (Moist) 6/3 not present	onfirm the ation: PL=P	ed based on ge e absence of interpretation in the control of the c	ndicators.) trix) Location M	Texture C C C Indicators A9 - 1 cm N A16 - Coast	Gravel present the for Problemation fuck (LRR I, J) the Prairie Redox	Remarks roughout layer. c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters)	eeded to doc atrix, CS=Cover	nt. Wetland h ument the ind red/Coated Sand Color (0 0 Hue_10YR andicators are S5 - Sandy R S6 - Stripped F1 - Loamy I	revious insp ydrology is icator or co Grains; Loca (Moist) R 6/3 not present Redox d Matrix Mucky Miner	onfirm the stion: PL=P	ed based on ge e absence of interpretation in the control of the c	ndicators.) trix) Location M	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	Gravel present the for Problemation Muck (LRR I, J) the Prairie Redox surface (LRR G)	Remarks roughout layer. c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters)	eeded to doc atrix, CS=Cover	nt. Wetland h ument the ind red/Coated Sand Color (0 Hue_10YF andicators are S5 - Sandy F S6 - Stripped	revious insp ydrology is icator or co Grains; Loca (Moist) 6/3 not present Redox d Matrix Mucky Miner Gleyed Matri	onfirm the stion: PL=P	ed based on ge e absence of interpretation in the control of the c	Location M	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	Gravel present the for Problemation fuck (LRR I, J) to Prairie Redox surface (LRR G)	Remarks roughout layer. c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doc atrix, CS=Cover	nt. Wetland h ument the ind red/Coated Sand Color (0 0 Hue_10YR Addicators are S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Deplete F6 - Redox R	revious insp ydrology is icator or co Grains; Loca (Moist) R 6/3 not present Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the tition: PL=P	ed based on ge e absence of interpretation in the control of the c	ndicators.) trix) Location M	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	Gravel present the for Problemation Muck (LRR I, J) the Prairie Redox curface (LRR G) Plains Depression ced Vertice Parent Material	Remarks roughout layer. c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	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	hydrology indicato be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface	eeded to doc atrix, CS=Cover	color (O) Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Deplete F6 - Redox R F7 - Deplete	revious insp ydrology is icator or co Grains; Loca (Moist) R 6/3 not present Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface d Dark Surface	onfirm the stion: PL=Point in the stice in	ed based on ge e absence of interpretation in the control of the c	Location M	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	Gravel present the for Problemation Muck (LRR I, J) to Prairie Redox turface (LRR G) Plains Depressioned Vertic Parent Material or Shallow Dark States	Remarks roughout layer. c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descr (Type: C=Conce	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 N	hydrology indicato be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doc atrix, CS=Covers % 10 10 10 10 10 10 10 10 10 10 10 10 10	nt. Wetland h ument the ind ed/Coated Sand Color (Hue_10YF Hue_10YF S6 - Stripped F1 - Loamy (F2 - Loamy (F3 - Deplete F6 - Redox (F7 - Deplete F8 - Redox (revious insp ydrology is icator or co Grains; Loca (Moist) R 6/3 not present Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	onfirm the ation: PL=P	e absence of infore Lining, M=Mates Type C	Location M	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Gravel present the for Problemation Muck (LRR I, J) to Prairie Redox curface (LRR G) Plains Depression Ced Vertic Parent Material of Shallow Dark Stain in Remarks)	Remarks roughout layer. c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w32-f1
VEGETATIO	N (Species identified in all uppercase are	non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					Total Number of Borninant opecies Across All Strata.
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. 60 x 1 = 60
	Total Cover =	0			FACW spp. 10 $\times 2 = 20$
			_		FAC spp. $\frac{15}{15}$ $\times 3 = \frac{45}{45}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp. 60
1.	(10.0000)				$UPL spp. \qquad 5 \qquad x \ 5 = \qquad 25$
2.					
3.					Total 100 (A) 100 (B)
					Total 100 (A) 190 (B)
4.					
5.					Prevalence Index = B/A = <u>1.900</u>
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 =_	U	_		
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	60	Y	OBL	
2.	Solidago gigantea	15	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	10	N	FACU	present, unless disturbed or problematic.
4.	Stachys palustris	5	N	NI	Definitions of Vegetation Strata:
5.	Poa palustris	5	N	FACW	Dominione of Vogetation et ata.
					Troe
6	Symphyotrichum lanceolatum	5	N	FACW	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.					All considerations and the second sec
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	100			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(1.12.2.2.2.2.2.3.11.13.13.2)				
2.					
					Undraphytic Variation Brazanto V
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland is dominated by woolly sedge, w	ith late go	ldenrod ar	nd Canada	a thistle also common.
		J			
Additional F	Remarks:				