WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/27/14	
Applicant:		Enbridge				0 1 1	(1.41 D.4				County:	Pennington	<u></u>
Investigators		NTT/BEH				_Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I48A				1 -	D-1:-4		I Classification				4544400) and
Landform:	Rise		1 -414 10	0 400		cal Relief		:440	Detuse		Sample Point	<u>u-154n44w28</u>	5-g1
Slope (%):	8 - 15%	anditions on the city	Latitude: 48				-96.315		Datum:		O a ati a m		
		onditions on the site				al : (If no, ex				□ No	Section:		
Are Vegetati		□, or Hydrology	•	•			Are	e normal circun	-	esent?	Township:	Dim	
Are Vegetation			□aturally	ρισυ	iemanc?				□ No		Range:	Dir:	
			NI	•					Hydria Sail	Is Present?	No		
_				No No							nt Within A Wetland? No		
Remarks:		point is located in			nw area ne	ar the eda	e of a sn	nall aspen fores					ada thistle
ixemants.	The upland	point is located in	ган орст п	icade	ow area ne	ar the edg	C OI a SII	nan aspen force	st. The dom	mant plants	are smooth	brome and Can	ada triistic.
HYDROLOG	Y												
		inatora (Chaalcall	برامرم و و و ا	. 14:00	increase of our				,, , , , , , , , , , , , , , , , , , ,				
_		icators (Check all	i that apply	; iviin	imum of or	ne primary	or two s	econdary requi	rea):	Secondary			
<u>Primary</u> □	<u>/.</u> A1 - Surface	Water			П	B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks	
	_					B13 - Aqua		l				Vegetated Conca	e Surface
						C1 - Hydro	ogen Sulfic	de Odor			B10 - Drainag	e Patterns	
	B1 - Water M					C2 - Dry S			D (((((((((((((((((((_iving Roots (tilled)
·							spheres on Living	Roots (not till	• -	C8 - Crayfish	Burrows n Visible on Aerial	Imagany	
	□ B3 - Drift Deposits□ B4 - Algal Mat or Crust					C7 - Thin I					D2 - Geomorp		imagery
	B5 - Iron Dep	osits				Other (Exp					D5 - FAC-Neu		
		on Visible on Aerial Im	nagery								D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves											
Field Observe	4!												
Field Obser			_			(!.a.)							
Surface Wat				epth: _		_ (in.)			Wetland H	lydrology I	Present?	N	
Water Table		Yes		epth: _		_ (in.)							
Saturation Present? Yes Depth: (in.)													
						<u> </u>							
Describe Rec	orded Data (stream gauge, moni			ıl photos, pr	<u> </u>	pections),	if available:					
Describe Rec Remarks:		stream gauge, moni	itoring well,	aeria	ıl photos, pr	<u> </u>	pections),	if available:					
Remarks:			itoring well,	aeria	ıl photos, pr	<u> </u>	pections),	if available:					
Remarks:	No wetland	hydrology indicato	itoring well, ors are pres	aeria sent.		evious insp							
Remarks: SOILS Profile Descr	No wetland	hydrology indicators ibe to the depth ne	itoring well, ors are pres	aeria	ent the ind	revious inspired	onfirm th	e absence of ir					
Remarks: SOILS Profile Descr	No wetland	hydrology indicato	itoring well, ors are pres	aeria	ent the ind	revious inspired	onfirm th	e absence of ir					
Remarks: SOILS Profile Descr	No wetland	hydrology indicators ibe to the depth ne	itoring well, ors are pres	aeria	ent the ind	revious inspired	onfirm th	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descr (Type: C=Concer	No wetland	hydrology indicators ibe to the depth neletion, RM=Reduced Matrix	ors are presented to do latrix, CS=Cov	aeria sent.	ent the ind	revious inspired icator or congressions; Loca	onfirm thation: PL=P	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist)	ors are presented to do latrix, CS=Cov	aeria sent.	ent the ind	revious inspired icator or congressions; Loca	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20	No wetland	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to do	aeria sent. ocum vered/0	ent the ind	revious inspired icator or congressions; Loca	onfirm thation: PL=P	e absence of ir ore Lining, M=Matr	rix)	Texture SL		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28	No wetland iption (Description, Dependent of the Dependen	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	eeded to do	aeria sent. Dcum vered/0	ent the indicoated Sand	icator or congrains; Locations; L	onfirm thation: PL=P	e absence of interest Lining, M=Matr	rix)			Remarks	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	No wetland iption (Description, Dependent of the Dependen	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	eeded to do	aeria sent. cum vered/0 100 f indic	ent the indicoated Sand Color (icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of interest Lining, M=Matr	Location	SL S	or Problemati	,	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) 0-20 20-28 NRCS Hydr	No wetland iption (Description, D=Depinion, D=Depinion	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (ch	eeded to do	aeria sent. cum vered/0 100 f indic	ent the indicoated Sand Color (cators are	icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of interest Lining, M=Matr	Location	SL S Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	No wetland iption (Description, Dependent of the Dependen	hydrology indicators ibe to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chappedon	eeded to do	aeria sent. cum vered/0 100 100 f indic	ent the indicoated Sand Color (icator or configurations; Locations; Locatio	onfirm the ation: PL=P	e absence of interest Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicators ibe to the depth negrous details. Matrix Color (Moist) 2/1 3/2 Indicators (chappedonestic in Sulfide	eeded to do	aeria sent. cum vered/0 100 100 f indic	ent the indicoated Sand Color (Cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C	icator or congrains; Local (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matr	monfirm the stion: PL=P Mottl % nt):	e absence of interest Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils ¹ (LRR F, G, H)	A 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	hydrology indicators ibe to the depth negation, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (characters) ipedon stic n Sulfide Layers (LRR F)	eeded to do	aeria sent. cum vered/0 100 100 f indic	cators are	icator or configurations; Locator or configurations; Locator or configurations; Locator or configurations; Locator or preserved Matrix Mucky Miner Gleyed Matrix of Matrix	monfirm the lation: PL=P Mottl % ation: The lation in th	e absence of interest Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic	c Soils¹ (LRR F, G, H)	A 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) 0-20 20-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/2 Indicators (chappedon stic n Sulfide I Layers (LRR F) ck (LRR FGH)	eeded to do latrix, CS=Covered to do latrix, C	aeria sent. cum vered/0 100 f indic	ent the indicoated Sand Color (Cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy C F3 - Depleted F6 - Redox C	icator or congrains; Local (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface	monfirm the stion: PL=P Mottl % ation: PL=P	e absence of interest Lining, M=Matr	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 Depressi ed Vertic arent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLR	A 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-20 20-28 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	hydrology indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (characters) ipedonestic in Sulfide I Layers (LRR F) ick (LRR FGH) ied Below Dark Surface	eeded to do latrix, CS=Covered to do latrix, C	aeria sent. cum vered/0 100 100 f indic	ent the indicoated Sand Color (Cators are S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox E F7 - Depleted	icator or congrains; Local (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface	monfirm the Mottle % Intion: PL=P Mottle % Intion: PL=P	e absence of interest Lining, M=Matr	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 Depressi ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLR	A 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w28-g1
VEGETATION (e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species (Asimire</u>	<u>70 0010.</u>	<u> </u>	a	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					<u></u> `´
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					<u></u>
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover =	0	_		FACW spp. $0 \times 2 = 0$
0 - 1 - 70 - 17	O(1) (D) (D) (1) (1) (AF (1) (1) (1)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)	15	V		FACU spp. 25 X 4 = 100
1. 2.		15	I		$\frac{1}{2} \qquad \text{OPL spp.} \qquad \frac{75}{2} \qquad \text{X} \qquad 3 = \frac{375}{2}$
3.					Total 100 (A) 475 (B)
4.					- Total (A) - 473 (B)
5.					Prevalence Index = B/A = 4.750
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	15			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	75	Y	UPL	
2.	Poa pratensis	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	5	N	FACU	
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.					- Washindard less than 0 in DDU as a subject to
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					4
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.
15.	Total Cover =	100			-
	Total Cover =	100	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	ratum (Fiot size: 50 ft. radius)				
2.					-
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	Dominant plants within the upland area are s	smooth bro	me and Ke	entucky bl	lue grass.
Additional R	Remarks:				
1					