## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/30/14	
Applicant:		Enbridge			٠. الما الما الما	S	٠ ١٠٠٠			County:	Pennington	
Investigators		MRK/OTG			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I59A Dip				Local Relief		'I Classification:	•		Sample Point	:: w-152n43w15-e1	
Slope (%):	3 - 7%		Latitude: 47.9				78405000	Datum:		J Campie Fulli	. 10211701110-01	
. ,		onditions on the site						✓ Yes	□ No	Section:		
Are Vegetati							e normal circun			Township:		
Are Vegetati		I □, or Hydrology	□aturally p	•				□ No		Range:	Dir:	
SUMMARY (			, , , , , , , , , , , , , , , , , , ,							Ü		
Hydrophytic	Vegetation P	resent?	Yes					Hydric Soil	s Present?	Yes		
Wetland Hyd	drology Prese	ent?	Yes					Is This Sar	npling Poin	nt Within A W	etland? Yes	
Remarks:	Wetland sa	imple point is locate	ed in a roads	side ditch.								
<b>HYDROLOG</b>	Υ											
Wetland Hy	drology Ind	licators (Check all	that apply; N	Minimum of	one primary	or two s	econdary requi	red):				
Primary		(	11 37		,		, , ,	- ',	Secondary:	<u>.</u>		
	A1 - Surface			[	□ B11 - Salt					B6 - Surface S		
	A2 - High Wa			[	•	atic Fauna					Vegetated Concave Surface	
	A3 - Saturation			l I	☐ C1 - Hydro		ater Table			B10 - Drainag	e Patterns Rhizospheres on Living Roots (til	lled)
	B2 - Sedimer						spheres on Living	Roots (not till	: 0	C8 - Crayfish		lica)
	B3 - Drift Dep	•		[			educed Iron	(			n Visible on Aerial Imagery	
	B4 - Algal Ma			Ι		Muck Surf	ace		$\checkmark$	D2 - Geomorp		
	B5 - Iron Dep			[	☐ Other (Ex	plain)				D5 - FAC-Neu		
		on Visible on Aerial Im tained Leaves	agery						П	D7 - Frost-He	aved Hummocks (LRR F)	
	ba - water-o	tailled Leaves										
Field Obser	vations:											
	ter Present?	Yes □	Den	th:	(in )							
Water Table		Yes $\square$		th:	(in.) (in.)			Wetland H	lydrology l	Present?	Υ	
Saturation P		Yes $\square$	Dep		— (in.)						<del></del>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
December December 1		- (				\	16 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
					previous ins							
Describe Rec Remarks:		stream gauge, moni			previous ins							
Remarks:					previous ins							
Remarks:	Wetland sa	imple point is locate	ed in a dip a	nd supports	previous ins	c vegetati	ion.	adicators \				
Remarks:  SOILS Profile Descr	Wetland sa	imple point is locate	ed in a dip a	nd supports ument the ir	previous ins hydrophytic	vegetati	ion. ne absence of in					
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Remarks:  SOILS Profile Descr	Wetland sa	imple point is locate	ed in a dip a	nd supports ument the ir	previous ins hydrophytic	vegetati	ion. ne absence of in Pore Lining, M=Matr					
Remarks:  SOILS Profile Descr (Type: C=Conce	Wetland sa	imple point is locate ibe to the depth ne letion, RM=Reduced Ma	ed in a dip a	nd supports ument the in red/Coated Sar	previous ins hydrophytic	c vegetati confirm thation: PL=P	ion. ne absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descr	Wetland sa	ibe to the depth neletion, RM=Reduced Ma	ed in a dip a eded to doc atrix, CS=Cover	nd supports ument the in red/Coated Sar	previous ins hydrophytic dicator or cond Grains; Loca	c vegetation: PL=P	ion. ne absence of in Pore Lining, M=Matr	rix)	Texture		Remarks	
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Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	Wetland sa	ibe to the depth neletion, RM=Reduced Ma  Matrix  Color (Moist)	ed in a dip a	ument the in red/Coated Sar	previous ins hydrophytic dicator or cond Grains; Loca r (Moist)	confirm the ation: PL=P	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f	for Problemati	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descr (Type: C=Conce	ric Soil Field	ibe to the depth neletion, RM=Reduced Marix  Color (Moist)  I Indicators (ch	ed in a dip a	ument the in ed/Coated Sar	previous ins hydrophytic dicator or cond Grains; Loca r (Moist) e not preser	confirm the ation: PL=P	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	ription (Descrentration, D=Deporter Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histosol	ibe to the depth neletion, RM=Reduced Marix  Color (Moist)  I Indicators (chapted on stic	ed in a dip a	ument the inted/Coated Sar Colo Colo S5 - Sandy S6 - Stripp F1 - Loamy	previous ins hydrophytic dicator or condicator or condicat	confirm thation: PL=P  Mottl %  nt):	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descr (Type: C=Conce	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth neletion, RM=Reduced Marix  Color (Moist)  I Indicators (chapted on Stice on Sulfide	ed in a dip a	nd supports  ument the infed/Coated Sar  Colo  Colo  Solution Sar  Solution Sar  Colo  Col	previous ins hydrophytic dicator or condicator or condicat	confirm thation: PL=P  Mottl %  nt):	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth neletion, RM=Reduced Ma  Matrix  Color (Moist)  I Indicators (chain sulfide de Layers (LRR F)	ed in a dip a	nd supports  ument the inted/Coated Sar  Colo  Colo  S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deple	previous ins hydrophytic dicator or condicator or condicat	mottl  mation: PL=P  Mottl  mo	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	ription (Descrentration, D=Deportmentration, D=Deportmentration)  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne letion, RM=Reduced Ma  Matrix  Color (Moist)  I Indicators (chapted on stice on Sulfide depth Layers (LRR F) lick (LRR FGH)	ed in a dip a eded to doc atrix, CS=Cover	nd supports  ument the infed/Coated Sar  Colo  S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F2 - Loamy F3 - Deple F6 - Redox	previous ins hydrophytic dicator or condicator or condicat	mottles (a) (a) (a) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	c Soils <sup>1</sup> (LRR F, G, H) ) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth ne letion, RM=Reduced Ma  Matrix  Color (Moist)  I Indicators (che stick of Sulfide depth Layers (LRR F) lick (LRR FGH) led Below Dark Surface	ed in a dip a eded to doc atrix, CS=Cover	nd supports  ument the inted/Coated Sar  Colo  Colo  S5 - Sandy  S6 - Stripp  F1 - Loamy  F2 - Loamy  F3 - Deple  F6 - Redox  F7 - Deple	previous ins hydrophytic dicator or condicator or condicat	mottlesion: PL=P	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.)	ription (Description, D=Deportmentration, D=De	ibe to the depth neletion, RM=Reduced Ma  Matrix  Color (Moist)  I Indicators (characters (LRR F) ack (LRR FGH) ed Below Dark Surface Dark Surface	ed in a dip a eded to doc atrix, CS=Cover	nd supports  ument the inted/Coated Sar  Colo  Colo  S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deple F6 - Redox F7 - Deple F8 - Redox	previous ins hydrophytic dicator or condicator or condicat	mottl  mation: PL=P  Mottl  mo	ion.  The absence of income Lining, M=Matrology  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descr (Type: C=Conce	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	ibe to the depth neletion, RM=Reduced Ma  Matrix  Color (Moist)  I Indicators (characters (LRR F)  Juck (LRR FGH)  Juck (LRR FGH)  Juck (Below Dark Surface  Jucky Mineral  Mucky Peat or Peat (LI	ed in a dip a edded to doc atrix, CS=Cover  % neck here if i	nd supports  ument the inted/Coated Sar  Colo  Colo  S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deple F6 - Redox F7 - Deple F8 - Redox	previous ins hydrophytic dicator or condicator or condicat	mottl  mation: PL=P  Mottl  mo	ion.  ne absence of in Pore Lining, M=Matrolles  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
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Remarks:  SOILS Profile Descr (Type: C=Conce	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M	ibe to the depth neletion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (characters (LRR F)  ack (LRR FGH)  ack (LRR FGH)  ack (LRR FGH)  ack Surface  Jucky Mineral  Mucky Peat or Peat (LR  acky Peat or Peat (LR)	ed in a dip a edded to doc atrix, CS=Cover  % neck here if i	nd supports  ument the inted/Coated Sar  Colo  Colo  S5 - Sandy S6 - Stripp F1 - Loamy F2 - Loamy F3 - Deple F6 - Redox F7 - Deple F8 - Redox	previous ins hydrophytic dicator or condicator or condicat	mottl  mation: PL=P  Mottl  mo	ion.  ne absence of in Pore Lining, M=Matrolles  Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of In	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark ( ain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	sent,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-152n43w15-e1
VEGETATIO	` ` '	re 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: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
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. 30 x 1 = 30
	 Total Cover =	0			FACW spp. $\frac{50}{50}$ $\times$ $2 = \frac{100}{100}$
	10.01		_		FAC spp. 25 x 3 = 75
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1.	Stratum (Flot size: 13 ft. radius)				UPL spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2.					ΔFL Spp
					Total 405 (A) 205 (D)
3.					Total 105 (A) 205 (B)
4.					
5.					Prevalence Index = B/A = 1.952
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	(Plot size: 5 ft. radius)				X Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	30	Υ	FACW	
2.	Rumex crispus	25	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Beckmannia syzigachne	20	 N	OBL	present, unless disturbed or problematic.
4.	Hordeum jubatum	20	N	FACW	Definitions of Vegetation Strata:
5.	Typha angustifolia	10	N	OBL	Deminions of Vegetation Strata.
6	rypna angustiiona	10		ODL	Trop - Westerday 2 in (7.0 mm) as many in disperse at horsest
7.					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
					g.n. (22.1), regalaces of Height
8.					On the of Olemete Woody plants loss than 2 in DDH regardless of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	105			
			_		
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.	(**************************************				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
<del></del>	Total Cover =	0			
Pomorko:			oc and au	rly dook	
Remarks:	Wetland sample point is dominated by reed	canary gra	ss and cui	ny dock.	
Additional F	Remarks:				