## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/15/14			
Applicant: Enbridge										County:	Pennington			
Investigators: MRK/BEH					Subregion (MLRA or LRR): MLRA 56					State:	MN			
Soil Unit:														
Landform:	Shoulder		10.11		cal Relief:		050000			Sample Point:	u-154n44w31-l1			
Slope (%):	8 - 15%			810067			2568333	Datum:		<b>.</b>				
		nditions on the site typica			ar? (If no, exp				□ No	Section:				
Are Vegetation			-	disturbed?		Are	normal circun	•	esent?	Township:				
Are Vegetation			ally pro	blematic?			Yes	□ No		Range:	Dir:			
SUMMARY C									L D	N				
Hydrophytic Vegetation Present?  No					Hydric Soils Present? No  Is This Sampling Point Within A Wetland? No									
Wetland Hyd			No	1	Call and a				mpling Poir	nt VVithin A VV	etland? <b>No</b>			
Remarks: The upland sample point is a smooth brome-dominated field upslope from a deep marsh.														
HYDROLOG'	Y													
Wetland Hy	drology Indi	icators (Check all that ap	ply; Mi	nimum of on	e primary	or two se	econdary requi	red):						
Primary:	_							·	Secondary:					
							Salt Crust   B6 - Surface Soil Cracks							
	A2 - High Wa A3 - Saturatio					s - Aquatic Fauna □ B8 - Sparsely Vegetated Concave Surface □ B10 - Drainage Patterns								
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen						spheres on Living	Roots (not till	£ 🗆	C8 - Crayfish I				
	B3 - Drift Dep	•			C4 - Prese			(**************************************		•	n Visible on Aerial Imagery			
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp				
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu				
	B7 - Inundation B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)			
	b9 - water-St	allieu Leaves												
Field Observ	vations:													
		V	D		(i.e. )									
Surface Wate		Yes	Depth:		(in.)			Wetland F	lydrology	Present?	N			
Water Table		Yes	Depth:		(in.)						<del></del>			
Saturation Pr	resent?	Yes	Depth:		. (in.)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Remarks:	No primary	or secondary hydrologica	l indica	tors are pres	sent.									
SOILS														
Profile Descri		be to the depth needed to												
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS=												
Profile Descri		etion, RM=Reduced Matrix, CS=				tion: PL=P	ore Lining, M=Matr							
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, CS=  Matrix	-Covered	/Coated Sand (	Grains; Loca	tion: PL=P	ore Lining, M=Matr	rix)	Toyture		Domorko			
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)	-Covered		Grains; Loca	tion: PL=P	ore Lining, M=Matr		Texture		Remarks			
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Depl	Matrix Color (Moist)  3/1	% 100	/Coated Sand (	Grains; Loca	tion: PL=P	ore Lining, M=Matr	rix)	Texture SCL	abundant pebbles	3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	Matrix Color (Moist)  3/1  4/2	% 100 100	Color (I	Grains; Loca	Mottle	es Type	Location	SCL S	abundant pebbles	3			
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Depl	Matrix Color (Moist)  3/1	% 100	/Coated Sand (	Grains; Loca	tion: PL=P	ore Lining, M=Matr	rix)			3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	Matrix Color (Moist)  3/1  4/2	% 100 100	Color (I	Grains; Loca	Mottle	es Type	Location	SCL S		3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	Matrix Color (Moist)  3/1  4/2	% 100 100	Color (I	Grains; Loca	Mottle	es Type	Location	SCL S		3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	Matrix Color (Moist) 3/1 4/2 6/1	% 100 100 90	Color (I Hue_10YR	Moist)	Mottle %	es Type C	Location	SCL S		3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR Hue_2.5Y	Matrix Color (Moist) 3/1 4/2 6/1	% 100 100 90	Color (I	Moist)	Mottle %	es Type	Location	SCL S		3			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 18-25	Hue_10YR Hue_10YR Hue_2.5Y	Matrix Color (Moist) 3/1 4/2 6/1	% 100 100 90	Color (I Hue_10YR	Moist)	Mottle %	es Type C	Location	SCL S SIC		s and gravel			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 18-25	Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol	Matrix Color (Moist)  3/1  4/2  6/1  Indicators (check he	% 100 100 90	Color (I  Hue_10YR  icators are r	Moist) 6/6 not presen	Mottle %	es Type C	Location	SCL S SIC Indicators 1 A9 - 1 cm M	abundant pebbles  for Problemation  fuck (LRR I, J)	s and gravel  c Soils <sup>1</sup>			
Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18 18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep	Matrix Color (Moist) 3/1 4/2 6/1 Indicators (check he	% 100 100 90	Color (I  Hue_10YR  licators are r  S5 - Sandy R S6 - Stripped	Moist) 6/6 not presen edox Matrix	Mottle % 10	es Type C	Location	SCL S SIC Indicators 1 A9 - 1 cm M A16 - Coast	abundant pebbles  for Problemation  fuck (LRR I, J)  Prairie Redox	s and gravel  c Soils <sup>1</sup> (LRR F, G, H)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist)  3/1  4/2  6/1  Indicators (check he	% 100 100 90	Color (I  Hue_10YR  licators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist)  6/6  not presen edox Matrix fucky Miner	Mottle %  10  tion: PL=Pe	es Type C	Location	SCL S SIC Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	abundant pebbles  for Problemation  fuck (LRR I, J)  Prairie Redox (urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	Matrix Color (Moist) 3/1 4/2 6/1  Indicators (check he	% 100 100 90 re if ind	Color (I  Hue_10YR  licators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G	Moist)  6/6  not presen  edox Matrix fucky Miner Bleyed Matri	Mottle %  10  tion: PL=Pe	es Type C	Location	SCL S SIC Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox (  urface (LRR G)  Plains Depression	s and gravel  c Soils <sup>1</sup> (LRR F, G, H)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	Matrix Color (Moist) 3/1 4/2 6/1  Indicators (check he ipedon stic on Sulfide Layers (LRR F)	% 100 100 90	Color (I  Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Moist)  6/6  anot presented with the second	Mottle % 10 t):	es Type C	Location	SCL S SIC Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox (urface (LRR G)  Plains Depression  ced Vertic	c Soils <sup>1</sup> (LRR F, G, H)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 3/1 4/2 6/1  Indicators (check he	% 100 100 90 re if ind	Color (I  Hue_10YR  licators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G	Moist)  6/6  edox Matrix Mucky Miner Bleyed Matri Matrix ark Surface	Mottle % 10 t):	es Type C	Location	SCL S SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox (  urface (LRR G)  Plains Depression	s and gravel  c Soils¹ (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 3/1 4/2 6/1  Indicators (check he  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 100 90 re if ind	Color (I  Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  6/6  anot presented Matrix Mucky Mineral Matrix ark Surface Dark Surface epressions	Mottle % 10 t):	es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	abundant pebbles  for Problematic fluck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	s and gravel  c Soils¹ (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)			
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Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	Matrix Color (Moist)  3/1  4/2  6/1  Indicators (check he  ipedon stic  n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 100 90 re if ind	Color (I  Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  6/6  anot presented Matrix Mucky Mineral Matrix ark Surface Dark Surface epressions	Mottle % 10 t):	es Type C	Location	SCL S SIC  Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebbles  for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	s and gravel  c Soils¹ (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)			
Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Matrix Color (Moist)  3/1  4/2  6/1  Indicators (check he  ipedon stic  n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 100 90 re if ind	Color (I  Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  6/6  anot presented Matrix Mucky Mineral Matrix ark Surface Dark Surface epressions	Mottle % 10 t):	es Type C	Location	SCL S SIC  Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebbles  for Problemation  fuck (LRR I, J)  Prairie Redox (urface (LRR G)  Plains Depression  ced Vertic  Parent Material  Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface			
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Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  18-25  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei 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  Type:	Matrix Color (Moist)  3/1  4/2  6/1  Indicators (check he  ipedon stic  n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 100 90 re if ind	Color (I  Color (I  Hue_10YR  Bicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist)  6/6  anot presented Matrix Mucky Miner Bleyed Matrix Matrix Ank Surface Dark Surface Poressions And Depressions And Depressions	Mottle % 10 t):	Type  C  RA 72, 73 of LRF	Location  M  Calculation  H  C	SCL S SIC  Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebbles  for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark Stain in Remarks)  hydrophytic vegetated or problematic.	s and gravel  c Soils¹ (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface  tion and wetland hydrology must be present,			

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-154n44w31-I1
VEGETATIO		e 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:(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					<u></u> ``
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.	J				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					ORL spp. 0 v 1 – 0
10.	_l Total Cover =	0			OBL spp. 0
	Total Cover =		_		FAC on
Combiner/Observe	Christian (Diet einer AF ft. redice)				FAC Spp. $\frac{0}{\sqrt{3}}$ $\frac{1}{\sqrt{3}}$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{60}{0}$ $x = 4 = 240$ $x = 5 = 375$
1.					UPL spp. $\frac{75}{}$ $x = \frac{375}{}$
2.					
3.					Total 135 (A) 615 (B)
4.					
5.					Prevalence Index = B/A = 4.556
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 (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	75	Υ	UPL	rresiem riyarepriyae vegetation (Explain)
2.	Melilotus officinalis	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.		25	<u>_</u>	FACU	present, unless disturbed or problematic.
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:
5.	Solidago altissima	5	IN	TACO	Definitions of vegetation strata.
				<u>.</u>	
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Theight (DBH), regardless of fleight.
8.					
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.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	135			
	rotal Gover =	100	_		
Moody Vino St	ratum (Plot size: 20 ft radius)				
1	ratum (Plot size: 30 ft. radius)				
2.					-
					Undrambatic Variation Present?
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =				
Remarks:	The upland sample point is dominated by sn	nooth brom	e and swe	et clover.	
Additional F	Remarks:				
- Issuitional I					
Ī					