## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	09/24/14		
Applicant:		Enbridge	Outroping (MIDA on IDD)							County: State:	Pennington	
Investigators		BJC/RAJ		Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:	I69A Talf			_	cal Paliafe		Classification:			Comple Deint	u-154p44w22-001	
Landform: Talf Local Relief: LL Sample Point: u-154n44w33-ee1 Slope (%): 0 - 2% Latitude: 48.116927 Longitude: -96.306810 Datum:												
		nditions on the site typica						✓ Yes	☑ No	Section:		
Are Vegetation				disturbed?	(1. 110, 0,4)	1	e normal circun			Township:		
Are Vegetation			-	blematic?		'"	✓ Yes	□ No		Range:	Dir:	
SUMMARY OF FINDINGS												
Hydrophytic \			No					Hydric Soi	ls Present?	No		
Wetland Hydrology Present? No					Is This Sampling Point Within A Wetland? No							
Remarks: The upland sample point is located in a grassland dominated by non-hydrophytic graminoid species.												
HYDROLOGY												
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
Primary:	•	outors (or look all that ap	Pry, IVIII		o primary	01 1110 0	soonaary roquii		Secondary:			
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen						spheres on Living	Roots (not till	• -	C8 - Crayfish E		
	B3 - Drift Dep	•			C4 - Prese	nce of Re	duced Iron	(1101		•	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Depo	osits n Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)	
	B9 - Water-St									D7 - F1051-F162	avea Hullillocks (LRR F)	
_												
Field Observ	vations:											
Surface Wat	er Present?	Yes	Depth:		(in.)			Watland L	lvdrology.	Dracent?	NI	
Water Table	Present?	Yes	Depth:		(in.)			wetiand F	lydrology	Present?	N 	
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No indicators of wetland hydrology were observed.												
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	ix)	Teyture		Remarks	
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=Deple	Matrix Color (Moist)  2/1	% 100	Coated Sand (	Grains; Loca Moist)	Mottle %	ore Lining, M=Matr es Type	Location	CL	Late of gravel pre		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	Matrix Color (Moist)  2/1	-Covered	/Coated Sand (	Grains; Loca Moist)	tion: PL=P	ore Lining, M=Matr	ix)	Texture CL LCOS	Lots of gravel pre		
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Deple	Matrix Color (Moist)  2/1	% 100	Coated Sand (	Grains; Loca Moist)	Mottle %	ore Lining, M=Matr es Type	Location	CL	Lots of gravel pre		
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Deple	Matrix Color (Moist)  2/1	% 100	Coated Sand (	Grains; Loca Moist)	Mottle %	ore Lining, M=Matr es Type	Location	CL	Lots of gravel pre		
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Deple	Matrix Color (Moist)  2/1	% 100	Coated Sand (	Grains; Loca Moist)	Mottle %	ore Lining, M=Matr es Type	Location	CL	Lots of gravel pre		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 6/4	% 100 90	Color (I	Moist) 5/8	Mottle %	es Type C	Location	CL	Lots of gravel pre		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	htration, D=Deple	Matrix Color (Moist) 2/1 6/4	% 100 90	Coated Sand (	Moist) 5/8	Mottle %	ore Lining, M=Matr es Type	Location	CL LCOS		sent	
Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18  NRCS Hydr	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 6/4	% 100 90	Color (I Hue_10YR	Moist)  5/8  not presen	Mottle %	es Type C	Location  M	CL LCOS	for Problemation	sent	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	Hue_10YR Hue_10YR ic Soil Field	Matrix Color (Moist) 2/1 6/4  Indicators (check he	% 100 90	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped	Moist)  5/8  oot presen edox Matrix	Mottle % 10	es Type C	Location	CL LCOS Indicators f A9 - 1 cm M		sent	
Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	Matrix Color (Moist) 2/1 6/4  Indicators (check he	% 100 90	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist)  5/8  oot presen edox Matrix lucky Miner	Mottle % 10 tt):	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Iuck (LRR I, J)  Prairie Redox (urface (LRR G)	sent  Soils <sup>1</sup> LRR F, G, H)	
Depth (In.)  0-7  7-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	Matrix Color (Moist) 2/1 6/4  Indicators (check he	% 100 90 re if inc	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Moist)  5/8  oot presen  edox Matrix lucky Miner	Mottle % 10 tt):	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	For Problemation  Iuck (LRR I, J)  Prairie Redox (  Urface (LRR G)  Plains Depression	sent	
Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	Matrix Color (Moist) 2/1 6/4  Indicators (check he ipedon stic in Sulfide Layers (LRR F)	% 100 90	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Moist)  5/8  aot presen edox Matrix lucky Mineraleyed Matrix Matrix	Mottle % 10 t):	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  Iuck (LRR I, J)  Prairie Redox (  urface (LRR G)  Plains Depression  ced Vertic	sent  Soils <sup>1</sup> LRR F, G, H)	
Depth (In.)  0-7  7-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 2/1 6/4  Indicators (check he	% 100 90 re if inc	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Moist)  5/8  oot presen edox Matrix lucky Mineralleyed Matrix ark Surface	Mottle % 10 t):	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	for Problemation  Juck (LRR I, J)  Prairie Redox ( Jurface (LRR G)  Plains Depression  Plains Depression  Parent Material	Sent  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)	
Profile Descri (Type: C=Concer  Depth (In.) 0-7 7-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	Matrix Color (Moist)  2/1  6/4  Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 90 re if ind	Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  5/8  sot presented with the second s	Mottle % 10 t):	es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation  Iuck (LRR I, J)  Prairie Redox (  urface (LRR G)  Plains Depression  ced Vertic	Sent  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-154n44w33-ee1
VECETATION	(Conscion identified in all consequences		~~~~i~~ \		
VEGETATIO Tree Stratum	(Species identified in all uppercase a (Plot size: 30 ft. radius)	re non-native	species.)		
	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.					Total Nevel on of Dancin and On a size Associated All Otrates (D)
4. 5.					Total Number of Dominant Species Across All Strata:3(B)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Tercent of Bonninant opedies that Ale OBE, I AOV, of I Ao (AD)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover =	_			OBL spp. 2
	= <u> </u>	_		OBL spp. 2	
					FAC spp. $10$ $\times 3 = 30$
Sapiing/Shrub (	Stratum (Plot size: 15 ft. radius)				FACU spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2.					Δ1 L 3pp
3.					Total 102 (A) 412 (B)
4.					
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation  Dominance Test is > 50%
10.	_l Total Cover =	0			Prevalence Index is ≤ 3.0 *
Total Cover =			_		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	30	Υ	UPL	
2.	Phleum pratense	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	20	Υ	FACU	present, unless disturbed or problematic.
4.	Elymus repens	15	N	FACU	Definitions of Vegetation Strata:
5.	Sonchus arvensis	10	N	FAC	_
6	Agrostis gigantea	5	N	FACW	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7. 8.	Carex granularis	2	N	OBL	Height (BBH), regardless of height.
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					- Capinig, Cin as
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 =	102	_		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	roture (Diet einer 20 ft redire)				
1	ratum (Plot size: 30 ft. radius)				
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
	Total Cover =				
Remarks:	The upland sample point is dominated by no	on-hydrophy	tic gramin	noid speci	es.
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Additional F	kemarks:				