WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date:	09/16/14
Applicant:	Applicant: Enbridge									County:	Pennington
Investigators				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:					NWI Classification:						
Landform:	Depression				cal Relief:					Sample Point:	w-154n44w32-a1
Slope (%):	3 - 7%		e: 48.11		Longitude:			Datum:			
Are climatic/h	hydrologic co	nditions on the site typica	al for thi	s time of yea	ar? (If no, ex	plain in rema	arks)	Yes	□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □sign	ificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:	
Are Vegetation	on □ Soil	□, or Hydrology □atur	ally prol	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	6									
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	Is Present?	Yes	
Wetland Hydrology Present?			Yes				Is This Sampling Poir				etland? Yes
		d is a wet meadow domin		Phalaris aru	ndinacea	and Car	ex pellita.		, <u>9</u>		
			,								
HYDROLOG	Υ										
		inatana (Obsali all that a		-i				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
_	•	icators (Check all that a	рріу; ічіі	nimum of on	e primary	or two s	econdary requi	rea):	0		
Primary:		Motor		_	B11 - Salt	Cruct			Secondary:	B6 - Surface S	Coil Crooks
	□ A1 - Surface Water□ A2 - High Water Table				B13 - Aqua		•				Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage	
	B1 - Water Ma				C2 - Dry S				_		Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits					spheres on Living	Roots (not till	€ □	C8 - Crayfish E	
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		☑	D2 - Geomorp	
	B5 - Iron Depo				Other (Exp	olain)			□ □	D5 - FAC-Neu	
	B9 - Water-St	n Visible on Aerial Imagery							П	D7 - Frost-Hea	aved Hummocks (LRR F)
	D9 - Water-St	allieu Leaves									
Field Observ	vations:										
		_	5		/! \						
Surface Water		Yes	Depth:		(in.)			Wetland F	lydrology I	Present?	Υ
Water Table		Yes	Depth:		(in.)				,		_
Saturation Present? Yes Depth: 0 (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	stream gauge, monitoring v	well, aeri	al photos, pre	` ` ′	pections),	l , if available:				
	•		well, aeri	al photos, pre	` ` ′	pections),	, if available:				
Describe Reco	•	stream gauge, monitoring turated at the surface.	well, aeri	al photos, pre	` ` ′	pections),	if available:				
Remarks:	•		well, aeri	al photos, pre	` ` ′	pections),	if available:				
Remarks:	Soils are sa	turated at the surface.			evious insp	,		ndicators.)			
Remarks: SOILS Profile Descri	Soils are sa		o docun	nent the indi	evious insp	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	Soils are sa	turated at the surface. be to the depth needed t	o docun	nent the indi	evious insp	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	Soils are sa	turated at the surface. be to the depth needed t	o docun	nent the indi	evious insp	onfirm th	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS	o docun	nent the indi	evious insp cator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docun =Covered %	nent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P	e absence of ir ore Lining, M=Mati	rix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	o docun =Covered % 100	nent the indi Coated Sand (cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	Location	Texture C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	o docun =Covered %	Color (I	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl %	e absence of interest in the core Lining, M=Mate	Location M	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	o docun =Covered % 100	nent the indi Coated Sand (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Mati es Type	Location	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	o docun =Covered % 100	Color (I	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl %	e absence of interest in the core Lining, M=Mate	Location M	Texture C C		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Soils are sa iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1	% 100 80	Color (I	cator or co Grains; Loca Moist) 5/6 6/4	Mottle %	e absence of interest Lining, M=Mate	Location M	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Soils are sa	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1	% 100 80	Color (I	cator or co Grains; Loca Moist) 5/6 6/4	Mottle %	e absence of interest in the core Lining, M=Mate	Location M	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Soils are sa iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1	% 100 80	Color (I	cator or co Grains; Loca Moist) 5/6 6/4	Mottle %	e absence of interest Lining, M=Mate	Location M M	C C C	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Soils are sa iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR A1- Histosol	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 5/1 Indicators (check he	% 100 80	Color (I Hue_7.5YR Hue_10YR icators are r	cator or constrains; Local Moist) 5/6 6/4 not presented ox	Mottle %	e absence of interest Lining, M=Mate	Location	C C C Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Soils are sa iption (Descri- intration, D=Deple Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check hear)	% 100 80	Color (I Hue_7.5YR Hue_10YR licators are r	cator or constraints; Local Moist) 5/6 6/4 not presented a constraint size of the constra	Mottle % 15	e absence of interest Lining, M=Mate	Location	C C C Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Soils are sa iption (Descri- ntration, D=Deple Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check head)	% 100 80	Color (I Hue_7.5YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Loca Moist) 5/6 6/4 not presented ox Matrix fucky Miner	mottle shows the state of the s	e absence of interest Lining, M=Mate	Location	C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check heading to be the color of the	% 100 80 ere if ind	Color (I Hue_7.5YR Hue_10YR For Stripped For Loamy Modern Colory Modern	cator or constant process of the constant present pres	mottle shows the state of the s	e absence of interest Lining, M=Mate	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 Depressio	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check head) ipedon stic in Sulfide Layers (LRR F)	% 100 80 ere if ind	Color (I Hue_7.5YR Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted	cator or constraints; Locator	mottle with tion: PL=P Mottle with the second seco	e absence of interest Lining, M=Mate	Location	C C C C 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 Depression ed Vertic	c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 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 Mu A11 - Deplete	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check heatice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 80 ere if ind	Color (I Hue_7.5YR Hue_10YR For a Stripped For a Loamy Modern Color (I Color (I Hue_7.5YR Hue_10YR	cator or contract of contract	monfirm the tion: PL=P Mottle % 5 15 tt):	e absence of interest Lining, M=Mate	Location	C C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 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 Mu A11 - Deplete A12 - Thick D	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check heater) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 80 ere if ind	Color (I Hue_7.5YR Hue_10YR Grand	cator or congrains; Loca Moist) 5/6 6/4 not presented with the congrains of the congrain of the congr	Mottle % 5 15 tt):	e absence of interesting the ses	Location	C C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	turated at the surface. be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 5/1 Indicators (check heater) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 80 ere if ind	Color (I Hue_7.5YR Hue_10YR Grand	cator or congrains; Loca Moist) 5/6 6/4 not presented with the congrains of the congrain of the congr	Mottle % 5 15 tt):	e absence of interest Lining, M=Mate	Location	C C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (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: w-154n44w32-a1
_					•
VEGETATION	、 .	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	<u>opecies ivaime</u>	<u> 70 COVEI</u>	Dominant	<u>IIId.Olalus</u>	Dominance rest Worksheet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (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.	Tatal Ossas				OBL spp. 20
	Total Cover =	0			FACW spp. 75
Conling/Chrub (Stratum (Diet eizer 15 ft radius)				FAC spp. $0 \times 3 = 0$
5apiing/Shrub 3	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					Δ1 L 3pp
3.					Total 100 (A) 190 (B)
4.					
5.					Prevalence Index = B/A = 1.900
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	70	Y	FACW	* In diagrams of building and supplied building a property by
2.	Carex pellita	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Symphyotrichum lanceolatum	5	N	FACU	
4. 5.	Elymus repens	5	N	FACU	Definitions of Vegetation Strata:
6					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.					1
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					Undrambatic Variation Present?
3. 5.					Hydrophytic Vegetation Present?Y
4.					
4.	Total Cover =	0			
Remarks:	The wetland is dominated by Phalaris arund		Carex pel	llita with v	various other species present.
rtomanto.	The Westaria is definitiated by Fridianic arana	maooa ana	Carox poi	inta With V	
Additional R	emarks:				
Additional N	omarno.				