WETLAND DETERMINATION DATA FORM Great Plains Region

D 1 1/01										1 5 .	00/00/11
Project/Site:										Date:	09/26/14
Applicant:	Enbridge				~ /N/II D A	or LRR): MLRA 56			County:	Pennington	
Investigators Soil Unit:	BEH/NTT I48A			Subregion (MLRA or LRR): NWI Classification:						State:	MN
Landform:	Depression			Local Relief: CC						Sample Point	w-154n44w19-c2
Slope (%):	0 - 2%		Latitude: 48.14		Longitude:		98426	Datum:	1		W-13-11-4W13-62
		nditions on the sit							□ No	Section:	
Are Vegetation		□, or Hydrology			(11111)	ı	normal circum			Township:	
Are Vegetation		□, or Hydrology	•					□ No		Range:	Dir:
SUMMARY C			7 1							Ü	
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	ls Present?	Yes	
Wetland Hyd	Irology Prese	nt?	Yes					Is This Sar	mpling Poir	nt Within A W	etland? Yes
Remarks:	Sedge mea	dow dominated by	y arctic rush ar	nd woolly sed	ge with a	mixture o	of forbs and gra	asses. Site i	s located ir	n a pasture; tl	ne ground is hummocked from
	animal graz	ing in wet spots.									
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	I that apply; Mi	nimum of one	e primary	or two se	econdary requi	red):			
Primary:		(11.37		,		, , , ,	,	Secondary:	<u>.</u>	
	A1 - Surface				B11 - Salt (B6 - Surface S	
	A2 - High Water Table A3 - Saturation				B13 - Aqua		o Odor				Vegetated Concave Surface
	B1 - Water M				C1 - Hydro C2 - Dry Se				П	B10 - Drainag	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						pheres on Living	Roots (not till	• -	C8 - Crayfish	
	B3 - Drift Dep				C4 - Prese	nce of Red	duced Iron	•			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ce		Ø	D2 - Geomorp	
	B5 - Iron Dep	osits In Visible on Aerial Im	nagery		Other (Exp	iain)			☑	D5 - FAC-Neu	तात्रा । est aved Hummocks (LRR F)
	B9 - Water-St		nagery						_	<i>D1</i> 1103(110	avea Hammooks (ERRY)
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Depth	:	(in.)			M		D	V
Water Table		Yes □	Depth		(in.)			Wetland F	lydrology	Present?	Y
Saturation Pr	resent?	Yes □	Depth	:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
I Remarks:	Site is in a d							utral test			
Remarks:	Site is in a							utral test.			
	Site is in a							utral test.			
SOILS Profile Descri	ption (Descri	depression feature be to the depth ne	e that would co	llect water ar	nd vegetat	ion passe	es the FAC-ne e absence of in	dicators.)			
SOILS Profile Descri	ption (Descri	depression feature	e that would co	llect water ar	nd vegetat	ion passe	es the FAC-ne e absence of in	dicators.)			
SOILS Profile Descri	ption (Descri	be to the depth ne	e that would co	llect water ar	nd vegetat	ion passe onfirm the	es the FAC-ne e absence of in	dicators.)			
SOILS Profile Descri (Type: C=Concer	ption (Descri	be to the depth neetion, RM=Reduced M	e that would co	ment the indicated Sand Control	nd vegetat cator or co Grains; Locat	onfirm the	es the FAC-ne e absence of in ore Lining, M=Matr	idicators.)			
SOILS Profile Descri (Type: C=Concer	ption (Descri	be to the depth neetion, RM=Reduced M Matrix Color (Moist)	e that would co	llect water ar	nd vegetat cator or co Grains; Locat	ion passe onfirm the	es the FAC-ne e absence of in	dicators.)	Texture		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3	e that would content would content would content would content would content with a second content with a seco	ment the indicated Sand Coated Sand Coated Sand Coated Sand Color (National Property of the Co	cator or co Grains; Locat Moist)	mon passes on firm the sion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location	MMI MMI SCL SCL		s and gravel
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chain)	e that would content would content would content would content would content with a second content with a seco	ment the indicators and Color (Note of the Land Color	cator or co Grains; Locat Moist) 7/8 6/8 ot presentedox Matrix	onfirm the tion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location M M	MMI SCL SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox	s and gravel s and gravel c Soils ¹ (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chain)	e that would content would content would content would content would content with a second content with a seco	ment the indicators are not solve the same of the same	cator or co Grains; Locat Moist) 7/8 6/8 oot present	months the stion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location M M	MMI SCL SCL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	s and gravel s and gravel c Soils ¹ (LRR F, G, H)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Gley1 Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chain chain c	eeded to docur flatrix, CS=Covered	ment the indicators are not solve the second of the second	cator or co Grains; Locat Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface	onfirm the tion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location M M	MMI SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	s and gravel s and gravel C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y Sic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to docur flatrix, CS=Covered	Hue_10YR Hue_10YR Hue_10YR Color (Note: The second of the	cator or co Grains; Locat Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	mon passes onfirm the tion: PL=Po Mottle % 10 75 t):	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location M M ————————————————————————————————	MMI SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	s and gravel s and gravel C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	e that would co	Hue_10YR Hue_10YR Hue_10YR Color (Note: The second of the	cator or co Grains; Locat Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	mon passes onfirm the tion: PL=Po Mottle % 10 75 t):	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C	Location M M ————————————————————————————————	MMI SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	s and gravel s and gravel C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y Gley1 A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge 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	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chairm of the color o	eeded to docur flatrix, CS=Covered %	Hue_10YR Hue_10YR Hue_10YR Color (Note: The second of the	cator or co Grains; Locat Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfa epressions ains Depres	mon passes onfirm the tion: PL=Po Mottle % 10 75 t):	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C C RA 72, 73 of LRF	Location M M O C C C C C C C C C C C C C C C C	MMI SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark ain in Remarks	s and gravel s and gravel C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y Good Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel 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:	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR leyed Matrix	eeded to docur fatrix, CS=Covered %	ment the indicators are not solve the control of th	cator or confraints; Locate Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface Dark Surfa epressions ains Depres	months the sion: PL=Post Mottle %	e absence of incre Lining, M=Matross Type C C C Hydric So	Location M M H H H II Present?	MMI SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark ain in Remarks) hydrophytic vegeta ed or problematic.	s and gravel c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface Ition and wetland hydrology must be present,
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y GC Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge 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:	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chair) ipedon stic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) leyed Matrix is black loamy m	eeded to docur flatrix, CS=Covered %	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Note: The color of the colo	cator or contrains; Locate Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	months the tion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C C Hydric So gleyed sandy of	Location M M M II Present?	MMI SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark ain in Remarks hydrophytic vegeta ed or problematic.	s and gravel c Soils¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface Ition and wetland hydrology must be present,
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-5 4-5 5-12 12-21 NRCS Hydr	Hue_10YR Hue_10YR Gley1 Hue_2.5Y Hue_2.5Y Hue_2.5Y GC Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge 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:	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/5GY 6/3 6/3 Indicators (chair) Indicators (chair	eeded to docur flatrix, CS=Covered %	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Note: The color of the colo	cator or contrains; Locate Moist) 7/8 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	months the tion: PL=Po	es the FAC-ne e absence of in ore Lining, M=Matr es Type C C C Hydric So gleyed sandy of	Location M M M II Present?	MMI SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant pebble for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark ain in Remarks hydrophytic vegeta ed or problematic.	s and gravel c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface Ition and wetland hydrology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

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: 4 (A)					
3.										
4.]			Total Number of Dominant Species Across All Strata: 4 (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. $\frac{40}{}$ $x 1 = \frac{40}{}$					
	Total Cover =	= 0			FACW spp. 95 $\times 2 = 190$					
			_		FAC spp. $0 X 3 = 0$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$					
1.	Salix petiolaris	5	Υ	OBL	UPL spp. $0 x 5 = 0$					
2.										
3.					Total 135 (A) 230 (B)					
4.										
5.					Prevalence Index = B/A = 1.704					
6.	<u></u>									
7.	i e									
8.	<u></u>				Hydrophytic Vegetation Indicators:					
9.		-			Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover =	= 5			X Prevalence Index is ≤ 3.0 *					
	10tai 00701 -		_		Morphological Adaptations (Explain) *					
Horb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Juncus arcticus	35	Υ	FACW	Problem Hydrophytic Vegetation (Explain)					
2.	Carex pellita	25		OBL	* Indicators of hydric soil and wetland hydrology must be					
3.			<u>'</u>	FACW	present, unless disturbed or problematic.					
	Argentina anserina	20	<u></u> N	FACW	Definitions of Vegetation Strata:					
4. 5.	Spartina pectinata	10 10	N	FACW	Definitions of Vegetation Strata.					
	Phalaris arundinacea				Troo - W. H. H. W. (7-0)					
6	Lysimachia ciliata	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
7.	Symphyotrichum lanceolatum	5	N	FACW	Tieight (BBH), regardless of Height.					
8.	Carex granularis	5	N	OBL	Continue (Charate - Woody plants loss than 3 in DPH regardless of height					
9.	Mentha arvensis	5	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.	Eleocharis palustris	5	N	OBL						
11.	Juncus dudleyi	5	N	FACW	All book account (see week) plants, according a finite					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	= 130	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present?Y					
5.										
4.										
	Total Cover =									
Remarks:	Meadow dominated by arctic rush, silverwe	ed cinquefoi	il, and woo	olly sedge.	. Scattered meadow willow is also present.					
Additional Remarks:										