WETLAND DETERMINATION DATA FORM Great Plains Region

Designat/Cites		LOD									Data	00/00/44
Project/Site:		L3R									Date:	06/28/14
Applicant:		Enbridge									County:	Kittson
Investigators	3:	EAB/RAJ Subregion (MLRA or LRR): MLRA 56								State:	MN	
Soil Unit:	I133A											
Landform:	Side slope				Lo	cal Relief:					Sample Point	u-159n49w25-c1
	3 - 7%		1 00 1	40 E70				040 140	Datum		Oampie i oint.	<u>u-10011+01120-01</u>
Slope (%):			Latitude:			Longitude:			Datum:			
Are climatic/l	hydrologic co	nditions on the sit	te typical	for this	s time of yea	ar? (If no, exp			□Yes	☑ No	Section:	
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnific	cantly o	disturbed?		Are	normal circum	stances pre	esent?	Township:	
Are Vegetation		☐ or Hydrology						Yes	□No		Range:	Dir:
SUMMARY C	•	, ,		., p. 00							rango.	5
Hydrophytic '				No					Hydric Soil			
Wetland Hyd	drology Prese	nt?		No					Is This Sar	npling Poin	nt Within A W	etland? No
Remarks:		point is located u	inslone of	f a wet	land and a	vaterbody	within a					
	ino campio	point io roodtod d	.ролоро ол					.a.go .oaao.ao	u			
HYDROLOG	Υ											
Wetlered He	امسا بسمامسا	laatawa (Chaali all	11 46-04-0-0-	lu Min					- d\-			
		icators (Check all	ıı tnat app	ny; iviin	ilmum of on	e primary	or two se	econdary requir	ea):			
<u>Primary</u> :										Secondary:		
	A1 - Surface					B11 - Salt (B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table				B13 - Aqua	itic Fauna				B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturatio	n				C1 - Hydro	gen Sulfid				B10 - Drainage	e Patterns
	B1 - Water M	arks				C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits				C3 - Oxidiz	ed Rhizos	pheres on Living	Roots (not till	. 🗆	C8 - Crayfish E	Burrows
I =	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imagery
I =	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp	
1 5	B5 - Iron Dep					Other (Exp		100			D5 - FAC-Neu	
		n Visible on Aerial Im	mageny		_	Other (Exp	iaii)					aved Hummocks (LRR F)
	B9 - Water-St		nagery								DI - FIUSI-HE	aved Hullillocks (LRR F)
"	b9 - Walei-Si	aneu Leaves										
Field Obser	vations:											
Surface Wat	er Present?	Yes 🗆		Donth:		(in)						
		_		Depth:		(in.)			Wetland H	lydrology I	Present?	N
Water Table	Present?	Yes \square		Depth:		(in.)				,		
Saturation Pr	resent?	Yes \square		Depth:		(in.)						
						. ' '						
Describe Rec	orded Data (s	stream gauge, mon	nitoring we	II, aeria	al photos, pro	evious insp	ections),	if available:				
						evious insp	ections),	if available:				
Describe Reco		stream gauge, mon hydrology indicato				evious insp	ections),	if available:				
Remarks:						evious insp	ections),	if available:				
Remarks: SOILS	No wetland	hydrology indicato	ors were	observ	ed.							
Remarks: SOILS Profile Descri	No wetland	hydrology indicated be to the depth ne	ors were o	observ docum	red.	cator or co	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	No wetland	hydrology indicators be to the depth ne	ors were o	observ docum	red.	cator or co	onfirm the	e absence of in ore Lining, M=Matri			I	
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix	ors were o	docum Covered/	ent the indi	cator or co Grains; Locat	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matri	x)			
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Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descrintration, D=Depl	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to latrix, CS=C	docum Covered/	eed. Hent the indi Coated Sand of Color (I	cator or cc Grains; Local Moist)	onfirm the confirm the confirm the confirm the confirmation: PL=Pe Mottle %	e absence of in ore Lining, M=Matri	x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to latrix, CS=C	docum Covered/	ent the indi	cator or cc Grains; Local Moist)	onfirm the confirm the confirm the confirm the confirmation: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	x)			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland iption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (ch	eeded to latrix, CS=C	docum Covered/ %	cators are r	cator or co Grains; Local Moist)	onfirm the confirm the confirm the confirm the confirmation: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M		c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland iption (Descrintration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chippedon	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) Moist) not presen edox Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J)	c Soils ¹ .RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland iption (Descrintration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairmann and chairmann an	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or cc Grains; Local Moist) Moist) not presen edox Matrix lucky Minera	monfirm the month of the month	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (L urface (LRR G)	c <u>Soils¹</u> .RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No wetland iption (Descrintration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G	Cator or co Grains; Locat Moist) not presented ox Matrix Matrix Matrix Mileryed Matrix Bleyed Matrix	monfirm the month of the month	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils ¹ .RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogei A5 - Stratified	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairpedon stic on Sulfide Layers (LRR F)	eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Moist) Moist) not presen edox Matrix lucky Minera leleyed Matrix Matrix Matrix	Mottle Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic	c <u>Soils¹</u> .RR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland iption (Descrintration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge, A5 - Stratified A9 - 1 cm Mu	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n sulfide Layers (LRR F) ck (LRR FGH)	eeded to eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy S F3 - Depleted F6 - Redox D	Moist) Mot presented Matrix M	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ded Vertic Parent Material	C Soils ¹ RR F, G, H) DNS (LRR H, outisde MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	No wetland iption (Descrintration, D=Depl A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to eeded to latrix, CS=C	docum covered/	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy G F6 - Redox D F7 - Depleted	Moist) Moist) Mot presen edox Matrix Jucky Minera Jicky Minera	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S	c Soils ¹ LRR F, G, H) DDS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Plut A11 - Deplet A12 - Thick D S1 - Sandy M	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairman chairman c	eeded to eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F7 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D	Moist) Moist) Mot presen edox Matrix lucky Minera leyed Matrix Matrix arksurface Dark Surfae epressions	monfirm the confirm the confirm the confirm the confirm the confirmation of the confir	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S	c Soils ¹ LRR F, G, H) DDS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl 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	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (chipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L	eeded to eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F7 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D	Moist) Moist) Mot presen edox Matrix lucky Minera leyed Matrix Matrix arksurface Dark Surfae epressions	monfirm the confirm the confirm the confirm the confirm the confirmation of the confir	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ LRR F, G, H) DIS (LRR H, outisde MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratific A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chairman and the color stice of th	eeded to eeded to latrix, CS=C	docum Covered/ %	cators are r S5 - Sandy R S6 - Stripped F7 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D	Moist) Moist) Moist) Mot presen edox Matrix Jucky Minera Eleyed Matrix Matrix Matrix Arrk Surface Dark Surfa epressions ains Depres	monfirm the confirm the confirm the confirm the confirm the confirmation of the confir	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc F12 - Red F TF12 - Very Other (Explainless disturbed)	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ LRR F, G, H) DIS (LRR H, outisde MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr Restrictive Layer	No wetland iption (Descrintration, D=Depl intration, D=Depl intrat	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (chipedon stic no Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface lucky Mineral lucky Peat or Peat (LR) eleyed Matrix	eeded to eeded to latrix, CS=C	docum covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or co Grains; Locat Moist) Moist) not presen edox Matrix lucky Mineralelyed Matrix ark Surface Dark Surface Dark Surface peressions ains Depres	montirm the street of the stre	e absence of in ore Lining, M=Matrices Type RA 72, 73 of LRR	Location H)	Indicators 1 A9 - 1 cm M A16 - Cost F F F F F F F F F F F F F F F F F F F	luck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Inversely or problematic.	c Soils¹ LRR F, G, H) Ons (LRR H, outisde MLRA 72, 73) Surface tion and wetland hydrology must be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No wetland iption (Descrintration, D=Depl intration, D=Depl intrat	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (chairman and a stic and	eeded to eeded to latrix, CS=C	docum covered/ %	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or co Grains; Locat Moist) Moist) not presen edox Matrix lucky Mineralelyed Matrix ark Surface Dark Surface Dark Surface peressions ains Depres	montirm the street of the stre	e absence of in ore Lining, M=Matrices Type RA 72, 73 of LRR	Location H)	Indicators 1 A9 - 1 cm M A16 - Cost F F F F F F F F F F F F F F F F F F F	luck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Inversely or problematic.	C Soils ¹ LRR F, G, H) DIS (LRR H, outisde MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w25-c1			
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)					
	(Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.					(11)			
					Total Number of Deminent Cresics Assess All Charter (D)			
4.					Total Number of Dominant Species Across All Strata:(B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 0 x 1 = 0			
10.	_l Total Cover =	0						
	Total Cover =		_		FACW spp. 0			
					FAC spp. 0 x 3 = 0			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 x 4 = 40			
1.					UPL spp. 65			
2.								
3.			-	-	Total 75 (A) 365 (B)			
4.					 -			
5.					Prevalence Index = B/A = 4.867			
6.					1 10 fallotto 11140 5/11			
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) *			
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Bromus inermis	60	Υ	UPL	r roblem riyurophytic vegetation (Explain)			
2.					* Indicators of hydric soil and wetland hydrology must be			
	Poa pratensis	10	N	FACU	present, unless disturbed or problematic.			
3.	Trapogon dubius	5	N	NI				
4.					Definitions of Vegetation Strata:			
5.								
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.			
					Oupling/Official Control Present Control Contr			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
<u> </u>	Total Cover =	75						
	Total Cover =	13	_					
	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.								
	Total Cover =	0		_				
Remarks:	The upland is dominated by smooth brome.							
ixemaiks.	The upland is dominated by smooth brome.							
Additional F	Remarks:							