WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/29/14
Applicant:	Enbridge										County:	Red Lake
Investigators	<u> </u>			Subregion (MLRA or LRR):					MLRA 56		State:	MN
Soil Unit:	159A	IVI II DEII	il			Cubi ogioi	•	Classification:			Otato.	
								Ciassification.			 	
Landform:	Depression					al Relief:					Sample Point:	w-152n42w30-a1
Slope (%):	3 - 7%		Latitude: 47	7.955	698	Longitude:	-96.093	719	Datum:			
Are climatic/	hydrologic co	nditions on the site	e typical fo	or this	time of year	r? (If no, exp	olain in rema	rks)	⊡Yes	□No	Section:	
Are Vegetati		☐ or Hydrology			disturbed?			normal circun		esent?	Township:	
							/ "	☑ Yes	□No	Cociii:		D '.
Are Vegetati		☐ or Hydrology	Liturally	probl	iemalic?			<u>□</u> res			Range:	Dir:
SUMMARY (OF FINDING:	3										
Hydrophytic '	Vegetation P	resent?	Ye	es					Hvdric Soi	Is Present?	' Yes	
Wetland Hyd			Ye								nt Within A We	etland? Yes
Remarks:	The wetlen	l io o ooooonally fl			otod within	a plantad	corp fiel	d Algol or not in				mains growing throughout.
Remarks.								u. Algai Crust i	s present at	tile surface	e and confire	nams growing throughout.
	Dominant v	egetation includes	s lady's thur	mb ar	nd Tierra de	i Fuego d	IOCK.					
HYDROLOG	Υ											
		icators (Check all	I that apply:	/; Mini	imum of one	e primary	or two se	econdary requi	red):			
<u>Primary</u>										Secondary:		
	A1 - Surface	Nater				B11 - Salt (~	B6 - Surface S	oil Cracks
	A2 - High Water Table					B13 - Aqua	tic Fauna				B8 - Sparsely \	Vegetated Concave Surface
	A3 - Saturation	n				C1 - Hydro	gen Sulfide	e Odor			B10 - Drainage	Patterns
	B1 - Water M	arks				C2 - Dry Se	eason Wat	ter Table			C3 - Oxidized I	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits						pheres on Living	Roots (not till		C8 - Crayfish E	
1 =	B3 - Drift Dep					C4 - Prese			. 10010 (1101 1			Visible on Aerial Imagery
1	B4 - Algal Ma				_	C7 - Thin M					D2 - Geomorpi	
l i	B5 - Iron Dep					Other (Expl					D5 - FAC-Neut	
1 5		ก Visible on Aerial Im	222221			Other (Exp	iaiii)					ived Hummocks (LRR F)
_	B9 - Water-S		nagery								D7 - FIOSI-Hea	ived Hullinocks (LRR F)
	b9 - Waler-S	allieu Leaves										
Field Obser	vations:											
Surface Wat	or Procent?	Yes 🗆	De	onth:		(in)						
		=		epth:		(in.)			Wetland F	lydrology	Present?	Υ
Water Table	Present?	Yes \square	De	epth:		(in.)				., 3,		. <u></u>
Saturation P	resent?	Yes \square	De	epth:		(in.)						
						` '						
		,	9 1 9									
Describe Rec		tream gauge, moni										
Describe Rec Remarks:									ed on hydro	phytic vege	tation and lan	dscape position.
		stream gauge, moni wetland hydrology							ed on hydro	phytic vege	tation and lan	dscape position.
Remarks:									ed on hydro	phytic vege	tation and lan	dscape position.
Remarks: SOILS	No primary	wetland hydrology	/ indicators	are p	oresent. We	tland hyd	rology is	assumed base		phytic vege	tation and lan	dscape position.
Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology be to the depth ne	y indicators	are pocume	oresent. We	tland hydicator or co	rology is	assumed base e absence of ir	ndicators.)	phytic vege	tation and lan	dscape position.
Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology	y indicators	are pocume	oresent. We	tland hydicator or co	rology is	assumed base e absence of ir	ndicators.)	phytic vege	tation and lan	dscape position.
Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology be to the depth ne	y indicators	are pocume	oresent. We	tland hydicator or co	rology is	assumed base e absence of ir	ndicators.)	phytic vege	tation and lan	dscape position.
Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology be to the depth ne	y indicators	are pocume	oresent. We	tland hydicator or co	onfirm the	assumed base e absence of ir ore Lining, M=Matr	ndicators.)	phytic vege	tation and lan	dscape position.
Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	/ indicators eeded to do	ocume	ent the indic	etland hydicator or co Grains; Locat	onfirm the dion: PL=Po	assumed base e absence of ir ore Lining, M=Matr	ndicators.)		tation and lan	
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Remarks: SOILS Profile Descri	No primary iption (Descr	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	ocume	ent the indic	etland hydicator or co Grains; Locat	onfirm the dion: PL=Po	assumed base e absence of ir ore Lining, M=Matr	ndicators.)		tation and lan	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	ocume vered/0	ent the indid Coated Sand C	cator or co crains; Locat	onfirm the	assumed base e absence of ir ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SC	tation and lan	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/1 Indicators (ch	y indicators eeded to do latrix, CS=Cov	% 100 97 H 80 H	cators are n	cator or cc Grains; Locat Moist) 3/4 4/6 ot present	onfirm the cion: PL=Pc Mottle % 3 20 t):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Texture SC SC SC A9 - 1 cm M A16 - Coast	for Problematic luck (LRR I, J) : Prairie Redox (Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	No primary Iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/1 Indicators (chains)	y indicators eeded to do latrix, CS=Cov	Sare procumers are procured of the procumers of the procu	color (No. 10 Co	cator or cccsrains; Locate Moist) 3/4 4/6 ot presented with the company of the	monogy is confirm the cion: PL=Pc Mottle % 3 20 20	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Texture SC SC SC SC Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks 2 Soils¹ LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	wetland hydrology be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to do latrix, CS=Cov	00000000000000000000000000000000000000	color (No. 100 colors) Color	cator or ccorrections; Locate Aloist) 3/4 4/6 ot present dedox Matrix ucky Mineral leyed Matrix ark Surface Dark Surface pressions	months of the control	e absence of ir ore Lining, M=Matr es Type	Location M M	Texture SC SC SC Indicators 1 A9 - 1 or M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic 2d Vertic Parent Material	Remarks 2 Soils¹ LRR F, G, H) 200S (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	wetland hydrology be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to do latrix, CS=Cov	00000000000000000000000000000000000000	color (No. 100 colors) Color	cator or ccorrections; Locate Aloist) 3/4 4/6 ot present dedox Matrix ucky Mineral leyed Matrix ark Surface Dark Surface pressions	months of the control	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Texture SC SC SC Indicators 1 A9 - 1 or M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	for Problematic fuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	Remarks 2 Soils¹ LRR F, G, H) 200S (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified 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) 2/1 2/1 5/1 Indicators (chaired in a suifide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ucky Mineral lucky Peat or Peat (LR) Peat (LR) Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	rindicators eeded to do latrix, CS=Cov 1 1 cov neck here if	00000000000000000000000000000000000000	color (No. 100 colors) Color	cator or ccorrections; Locate Aloist) 3/4 4/6 ot present dedox Matrix ucky Mineral leyed Matrix ark Surface Dark Surface pressions	months of the control	e absence of ir ore Lining, M=Matr es Type	Location M M	Texture SC SC SC SC A9 - 1 cm M A9 - 1 cm M F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Parent Material Shallow Dark S ain in Remarks)	Remarks 2 Soils¹ LRR F, G, H) 200S (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified 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) 2/1 2/1 5/1 Indicators (chaired in a suifide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ucky Mineral lucky Peat or Peat (LR) Peat (LR) Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	rindicators eeded to do latrix, CS=Cov 1 1 cov neck here if	00000000000000000000000000000000000000	color (No. 100 colors) Color	cator or ccorrections; Locate Aloist) 3/4 4/6 ot present dedox Matrix ucky Mineral leyed Matrix ark Surface Dark Surface pressions	months of the control	e absence of ir ore Lining, M=Matr es Type	Location M M	Texture SC SC SC SC A9 - 1 cm M A9 - 1 cm M F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Parent Material Shallow Dark S ain in Remarks)	Remarks 2: Soils¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-12 12-24 NRCS Hydr	Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 2/1 2/1 5/1 Indicators (chaired in a suifide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ucky Mineral lucky Peat or Peat (LR) Peat (LR) Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	rindicators eeded to do latrix, CS=Cov 1 1 cov neck here if	00000000000000000000000000000000000000	color (No. 100 colors) Color	cator or ccorrections; Locate Aloist) 3/4 4/6 ot present dedox Matrix ucky Mineral leyed Matrix ark Surface Dark Surface pressions	months of the control	assumed base e absence of ir ore Lining, M=Matr es Type C C C	Location M M	Texture SC SC SC SC Indicators of N A16 - Coast S7 - Dark S F16 - High F F18 - Red ur TF2 - Red F TF12 - Very Other (Explain the coast) 'Indicators of N unless disturbed	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Parent Material Shallow Dark S ain in Remarks)	Remarks 2: 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: w-152n42w30-a1
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: 1 (A)
3.					(1)
4.					Total Number of Deminent Consider Agrees All Charter (D)
					Total Number of Dominant Species Across All Strata:(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. $0 x 1 = 0$
	Total Cover =	0			FACW spp. 30 x 2 = 60
			_		FAC spp. 0 x 3 = 0
Capling/Chrub (Stratum (Diatoira: 15 ft radius)				
	Stratum (Plot size: 15 ft. radius)				· · · · · · · · · · · · · · · · · · ·
1.					UPL spp 0
2.					
3.					Total <u>30</u> (A) <u>60</u> (B)
4.					
5.					Prevalence Index = B/A = 2.000
6.					
7.	Ī				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	_l Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover –	U	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				X Problem Hydrophytic Vegetation (Explain) *
1.	Rumex fueginus	25	Y	FACW	
2.	Persicaria maculosa	5	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
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.
10.				_	Supring/Silius, p. s.
11.					All harbassays (non-yearly) plants, regardless of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	30	_		
			_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
					nyurophytic vegetation Present?
5.					
4.				_	
	Total Cover =	0			
Remarks:	The wetland vegetation is dominated by Tier	ra del Fue	go dock.		
Additional R	Remarks:				
l					
İ					