WETLAND DETERMINATION DATA FORM Great Plains Region

											_		
Project/Site:		L3R									Date:	08/23/14	
Applicant:		Enbridge									County:	Kittson	
Investigators	S:	RAJ/BEH				Subregion	(MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I11A						NWI	Classification:					
Landform:	Toeslope				Loc	cal Relief:	CL				Sample Point:	w-154n44w18-b1	
Slope (%):	3 - 7%		Latitude: 48	8.156	686	Longitude:	-96.360	009	Datum:		1		
	hvdrologic co	nditions on the sit								□ No	Section:		
Are Vegetati		□, or Hydrology			•	(,,		e normal circum			Township:		
Are Vegetati		□, or Hydrology	•	•			Aic	✓ Yes			'	Dir:	
			Haturally	ρισυ	iemalic:			<u> </u>	□ I N O		Range:	DII.	
SUMMARY (D 10			
Hydrophytic			<u>Y</u> e						Hydric Soil				
Wetland Hyd	drology Prese			es							t Within A We		
Remarks:	The seasor	ally-flooded basin	is located	over	existing pip	eline; the v	wetland	appears to hav	e been crea	ited by pipe	eline activities		
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply	r: Mini	imum of one	e primary o	or two se	econdary requir	red):				
Primary		ioatoro (oricon an	that apply	,		o primary c), two ot	soondary roquir	<i>ou)</i> :	Secondary:			
<u> </u>	A1 - Surface	Water				B11 - Salt C	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa					B13 - Aquat				_		/egetated Concave Surface	
	A3 - Saturation					C1 - Hydrog		e Odor			B10 - Drainage		
	B1 - Water M	arks				C2 - Dry Se						Rhizospheres on Living Roots (ti	illed)
	B2 - Sedimer	t Deposits						spheres on Living	Roots (not tille		C8 - Crayfish E		,
	B3 - Drift Dep	•				C4 - Presen			`		C9 - Saturation	Visible on Aerial Imagery	
✓	B4 - Algal Ma	t or Crust				C7 - Thin M	uck Surfa	ace		✓	D2 - Geomorpl		
	B5 - Iron Dep	osits				Other (Expla	ain)			✓	D5 - FAC-Neut	ral Test	
	B7 - Inundation	on Visible on Aerial Im	nagery								D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves											
Field Obser	vations:												
Surface Wat		Yes 🗆	D	onth:		(in)							
				_		(in.)			Wetland H	ydrology I	Present?	Υ	
Water Table		Yes		epth: _		(in.)							
Saturation P	resent?	Yes □	De	epth: _		(in.)							
Describe Rec	orded Data (s	stream gauge, mon	itoring well,	aeria	l photos, pre	vious inspe	ections),	l if available:					
		stream gauge, mon			l photos, pre	vious inspe	ections),	if available:					
Describe Rec Remarks:		stream gauge, mon f wetland hydrolog			l photos, pre	vious inspe	ections),	if available:					
Remarks:					l photos, pre	vious inspe	ections),	if available:					
Remarks:	Indicators o	f wetland hydrolog	gy are pres	ent.		·			dicators \				
Remarks: SOILS Profile Descr	Indicators of	f wetland hydrolog	gy are prese	ent.	ent the indic	cator or co	nfirm the	e absence of in					
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Remarks: SOILS Profile Descr	Indicators of	f wetland hydrolog ibe to the depth ne etion, RM=Reduced M	gy are prese	ent.	ent the indic	cator or co	nfirm the	e absence of in ore Lining, M=Matri					
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M	eeded to do	ocumovered/0	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)				
Remarks: SOILS Profile Descr	Indicators of	f wetland hydrolog ibe to the depth ne etion, RM=Reduced M	eeded to do	ent.	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M	eeded to do	ocumovered/0	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M	eeded to do	ocumovered/0	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M	eeded to do	ocumovered/0	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M	eeded to do	ocumovered/0	ent the indic	cator or col Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce	iption (Descr	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocumovered/0	ent the indic Coated Sand C	cator or con Grains; Location	nfirm the	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators of	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocumovered/0	ent the indic	cator or con Grains; Location	nfirm the	e absence of in ore Lining, M=Matri	(x)				
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Descr ntration, D=Depl	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocumovered/0	ent the indic Coated Sand C Color (N	cator or constrains; Location Moist) ot present	nfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	or Problematic		
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplementation, D=Deplementation) ric Soil Field A1- Histosol	Matrix Color (Moist) Indicators (ch	eeded to do	ocumovered/0	ent the indic Coated Sand C Color (N Cators are n	cator or constrains; Location Moist) ot present	nfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplementation, D=Deplementation, D=Deplementation) ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chain)	eeded to do	ocume vered/0	ent the indic Coated Sand C Color (N Cators are n S5 - Sandy Re S6 - Stripped	cator or constraints; Location Moist) ot present; edox Matrix	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chappedonestic	eeded to do	ocumovered/0	ent the indicated Sand Coated Sand Color (Note that the indicated Sand Color (Note that the indicated Sand Color (Note that the indicated Sand Sand Sand Sand Sand Sand Sand San	ot present	nfirm the on: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)	
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Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplementation, D=Depleme	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chappedon stice in Sulfide in Layers (LRR F) ck (LRR FGH)	eeded to do atrix, CS=Cov	f indic	ent the indice Coated Sand Sand Sand Sand Sand Sand Sand San	cator or cor Grains; Location Moist) ot present; edox Matrix ucky Minera leyed Matrix Matrix ark Surface	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplementation, D=Depleme	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chain sulfide I Layers (LRR FGH) and Below Dark Surface	eeded to do atrix, CS=Cov	f indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted	cator or cor Grains; Location Moist) ot present; edox Matrix ucky Minera leyed Matrix Matrix Matrix ark Surface Dark Surface	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Conce	iption (Descrintration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (chapted on Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Park Surface	eeded to do atrix, CS=Cov	f indic	ent the indice Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	edox Matrix ucky Minera leyed Matrix Matrix ark Surface pressions	Mottle %	e absence of inore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descr (Type: C=Conce	iption (Description, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) Indicators (characters) Sipedon Stice (Characters) Indicators (Characters) Sipedon Stice (Characters) S	eeded to do atrix, CS=Covered	f indic	ent the indice Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	edox Matrix ucky Minera leyed Matrix Matrix ark Surface pressions	Mottle %	e absence of inore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S Pain in Remarks)	ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	esent,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w18-b1
					•
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
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: 3 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(742)
8.					Prevalence Index Worksheet
9.					
10.					Total % Cover of: Multiply by:
10.	Total Cover	0			$CBL SPP. \qquad 21 \qquad X \mid 1 = \qquad 21$
	Total Cover = _	0			FACW Spp. $\frac{17}{2}$ \times $2 = \frac{34}{2}$
0 11 /01 1					OBL spp. 21
	Stratum (Plot size: 15 ft. radius)				FACU spp1
1.					UPL spp. $0 X 5 = 0$
2.					
3.					Total <u>59</u> (A) <u>119</u> (B)
4.					
5.					Prevalence Index = B/A = 2.017
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
101	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	10101				
Llowb Ctwotywo /	District Eft radius)				Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)	00	V	ГЛС	Problem Hydrophytic Vegetation (Explain) *
1.	Echinochloa crus-galli	20	T	FAC	* In dispate up of budgin and produced budge lagur groups by
2.	Agrostis gigantea	15	Y	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Eleocharis obtusa	15	Y	OBL	· · · · · · · · · · · · · · · · · · ·
4.	Alisma triviale	5	N	OBL	Definitions of Vegetation Strata:
5.	Persicaria maculosa	2	N	FACW	
6	Epilobium coloratum	1	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Ambrosia artemisiifolia	1	N	FACU	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
13.	Total Cover				vvoody villes - 7 iii woody villos, rogalaloss of floight.
	Total Cover = _	59			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	Hydrophytic vegetation is present. The plant	communi	ty is domir	ated by a	nnuals and perennials in their first year of growth.
Additional F	Pomarke:				
Additional F	Nemaiks.				