WETLAND DETERMINATION DATA FORM Great Plains Region

Droinet/Cite		LOD									Dete	00/04/44
Project/Site: Applicant:		L3R Enbridge									Date: County:	09/24/14 Pennington
Investigators:		RAJ/BJC				Subregion	n (MLRA or I	RR):	MLRA 56		State:	MN
Soil Unit:	I70A	10.0,200				Cabi eg. s.	•	assification:			Olalo.	TVII V
Landform:	Dip Local Relief: CC									Sample Point:	w-154n44w33-bb1	
Slope (%):	0 - 2%		Latitude: 48				-96.311255		Datum:			
	·	nditions on the site				r? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology	•	•			Are noi		nstances pre	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally	y prob	lematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY O			V	,					Lludria Sail	- Dracont?	\/aa	
Hydrophytic \ Wetland Hyd	_			'es 'es						s Present?	res t Within A We	etland? Yes
Remarks:					d halsam popl	ar with a frir	nge of willow a	t the edge ar				et side of the wetland where the
Nemants.		-					-	_				ographic change and a shift in plant
	species abund	lances. All paramete										
HYDROLOGY	Y											
_	• •	cators (Check all	that apply	y; Min	imum of one	e primary o	or two secon	ndary requi	red):			
<u>Primary:</u>		· ·			_		<u> </u>	-	•	Secondary:	75 0 6 2 0	
□ A1 - Surface Water□ A2 - High Water Table						B11 - Salt C B13 - Aqua					B6 - Surface S	oil Cracks Vegetated Concave Surface
	A3 - Saturatio					•	gen Sulfide Od	lor			B10 - Drainage	
	B1 - Water Ma	arks				C2 - Dry Se	eason Water T	able			C3 - Oxidized I	Rhizospheres on Living Roots (tilled)
	B2 - Sediment	•					ed Rhizospher		Roots (not tille		C8 - Crayfish E	
	B3 - Drift Dep B4 - Algal Mat						nce of Reduce luck Surface	d Iron			C9 - Saturation D2 - Geomorpl	n Visible on Aerial Imagery
	B5 - Iron Depo					Other (Expl				✓	D5 - FAC-Neut	
	B7 - Inundatio	n Visible on Aerial Im	nagery		_	(- 1	,					aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves	-									
	. •											
Field Observ		_	_			P v A						
Surface Water		Yes		epth: _		(in.)			Wetland H	lydrology I	Present?	Υ
Water Table		Yes		epth: _		(in.)						
Saturation Present? Yes Depth: (in.)												
	<u> </u>	tream gauge, moni	itoring well,	, aeria			ections), if av	vailable:				
Describe Reco	<u> </u>	tream gauge, moni	itoring well,	, aeria			ections), if av	vailable:				
Remarks:	<u> </u>		itoring well,	, aeria			ections), if av	vailable:				
Remarks:	The wetland	I shows signs of pe	itoring well, periodic inu	, aeria undati	on.	vious insp	·		edicatore)			
Remarks: SOILS Profile Descri	The wetland		itoring well, periodic inu	, aeria undati ocum	on. ent the indic	evious inspectator or co	onfirm the ab	sence of in				
Remarks: SOILS Profile Descri	The wetland	I shows signs of pe	itoring well, periodic inu	, aeria undati ocum	on. ent the indic	evious inspectator or co	onfirm the ab	sence of in				
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Remarks: SOILS Profile Descri	The wetland	be to the depth ne	itoring well, periodic inu peded to do latrix, CS=Co	, aeria undati ocum	on. ent the indic	evious inspectator or co	onfirm the ab	sence of in		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland	be to the depth ne etion, RM=Reduced Ma	itoring well, periodic inu peded to do latrix, CS=Co	, aeria undati ocum overed/	on. ent the indic Coated Sand G	evious inspectator or co	onfirm the ab ion: PL=Pore Li Mottles	sence of in ining, M=Matr	ix)	Texture CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	itoring well, periodic inu eeded to do latrix, CS=Co	ocum	on. ent the indic Coated Sand G	evious inspectator or co	onfirm the ab ion: PL=Pore Li Mottles	sence of in ining, M=Matr	ix)			Remarks
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Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-12 12-14	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1	itoring well, periodic inu eeded to do atrix, CS=Co	ocum overed/ % 100	on. ent the indic Coated Sand G	evious inspectator or co	onfirm the ab ion: PL=Pore Li Mottles	sence of in ining, M=Matr	ix)	CL FSL		Remarks
Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-12 12-14	The wetland ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1	itoring well, periodic inu eeded to do atrix, CS=Co	ocum overed/ % 100	on. ent the indic Coated Sand G	evious inspectator or co	onfirm the ab ion: PL=Pore Li Mottles	sence of in ining, M=Matr	ix)	CL FSL		Remarks
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Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-12 12-14	The wetland ption (Descriptration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 6/1	eeded to do	ocum overed/ % 100 100	on. ent the indic Coated Sand G	cator or co Grains; Locati	Mottles	sence of in ining, M=Matr	ix)	CL FSL		Remarks
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-12 12-14 14-18	The wetland ption (Descriptration, D=Deplete tration, D=Deplete tratio	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 6/1	eeded to do	ocum overed/ % 100 100 if indic	ent the indic Coated Sand G Color (N	cator or co Grains; Locati	Mottles	sence of in ining, M=Matr	Location	CL FSL FS	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 6/1 Indicators (ch	eeded to do	ocum overed/ 100 100 if indic	ent the indic Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Locati Moist) ot present	Mottles	sence of in ining, M=Matr	Location	FSL FS Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 3/1 6/1 Indicators (ch	eeded to do	ocumovered/0 100 100 if indic	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	cator or co Grains; Location Moist) ot presentedox Matrix	Mottles %	sence of in ining, M=Matr	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 6/1 Indicators (ch	eeded to do	ocum overed/ % 100 100 if indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	cator or co Grains; Location Moist) ot presentedox Matrix ucky Minera	Mottles %	sence of in ining, M=Matr	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	Shows signs of person of p	eeded to do	ocum overed/0 100 if indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Location Moist) ot presentedox Matrix ucky Mineraleyed Matrix	Mottles %	sence of in ining, M=Matr	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 Depressic	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-14 14-18 NRCS Hydri	The wetland ption (Descriptration, D=Depletration, D=Depletrat	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 6/1 Indicators (chair) pedon tic n Sulfide Layers (LRR F)	eeded to do	ocumovered/0 100 100 if indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	evious inspectator or coerains; Location of	Mottles %	sence of in ining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic	Soils ¹
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w33-bb1			
					•			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	30	Υ	FAC				
2.	Populus balsamifera	25	Υ	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)			
3.	Salix discolor	20	Υ	FACW				
4.					Total Number of Dominant Species Across All Strata: 6 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.					(A/B)			
					Dravalance Index Warkshoot			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $\frac{5}{160}$ $\frac{1}{1}$ $\frac{5}{1}$ $\frac{5}{1}$ $\frac{5}{1}$			
	Total Cover =	75	_		FACW spp 160			
			FAC spp. 35 $\times 3 = 105$					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 x 4 = 80			
1.	Salix discolor	30	Υ	FACW	UPL spp. $0 x 5 = 0$			
2.	Salix eriocephala	10	Υ	FACW				
3.	Populus tremuloides	5	N	FAC	Total <mark>220</mark> (A) <u>510</u> (B)			
4.					```			
5.					Prevalence Index = B/A = 2.318			
6.								
7.								
					Hydrophytic Vogotation Indicators:			
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					XDominance Test is > 50%			
	Total Cover =	45	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	70	Y	FACW				
2.	Poa pratensis	20	N	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Carex pellita	5	N	OBL	present, unless disturbed or problematic.			
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:			
5.		5	N	171011	Deminions of Vegetation Strata.			
	Agrostis gigantea		IN		Troo			
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.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.	1			_				
15.					Woody Vines - All woody vines, regardless of height.			
13.	Tatal O	405			TYOOGY VIIIGS - 7 III 11000, Togaraious of Holgitt.			
	Total Cover =	105						
Woody Vine S	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =	0						
Remarks:			ar nueev	willow and	d reed canary grass. The trees decline and willows increase to the west side of the			
Nemarks.								
	wettand area, but it is not distinct enough to t	be separat	ed as a sn	rub-domir	nated community. Hydrophytic vegetation is present.			
Additional	Remarks:							