WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/13/14	,
Applicant: Enbridge											Pennington	
Investigators	:	BEH/MRK/RAJ			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	127A					NW	Classification:	PEM/SS1E	3g			
Landform:	Depression				Local Relief:	CL				Sample Point	w-154n44w31-b1	
Slope (%):	0 - 2%		Latitude: 48	3.1220364	Longitude:	-96.366	11507	Datum:				
Are climatic/h	nydrologic co	nditions on the site	e typical for	r this time of	year? (If no, exp	olain in rema	arks)	Yes	□ No	Section:		
Are Vegetation	on 🛭 Soil	☑, or Hydrology	⊏significa	ntly disturbe	d?	Are	e normal circum	stances pre	esent?	Township:		
Are Vegetation			•	problematic			Yes	□ No		Range:	Dir:	
SUMMARY C										Ü		
Hydrophytic \			Ye	es.				Hydric Soil	s Present?	Yes		
Wetland Hyd	_		Ye							nt Within A W	etland? Yes	
Remarks:					s The site is	located i	n a gravel pit n					
Remarks: Wet meadow dominated by grasses and rush species. The site is located in a gravel pit near a large excavated pond.												
HYDROLOG'	V											
•	•	cators (Check all	l that apply;	; Minimum o	one primary	or two se	econdary requir	red):				
<u>Primary:</u>		••							Secondary:			
☐ A1 - Surface Water					□ B11 - Salt					B6 - Surface S		
☑	A2 - High Wat				☐ B13 - Aqua						Vegetated Concave Surface)
	A3 - Saturatio B1 - Water Ma				□ C1 - Hydro□ C2 - Dry S					B10 - Drainag	e Patterns Rhizospheres on Living Roo	ata (tillad)
	B2 - Sediment						spheres on Living	Roots (not tille		C8 - Crayfish		is (tilled)
	B3 - Drift Dep	•			☐ C4 - Prese			110013 (1101 1111		•	n Visible on Aerial Imagery	
	B4 - Algal Mat				☐ C7 - Thin N				☑	D2 - Geomorp	0 1	
	B5 - Iron Depo				□ Other (Exp				✓	D5 - FAC-Neu		
	B7 - Inundatio	n Visible on Aerial Im	nagery		` '	,				D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes □	De	epth:	(in.)						.,	
Water Table		Yes ☑		epth: 4	(in.)			Wetland H	lydrology	Present?	Υ	
		Yes ☑										
Saturation Present? Yes ☑ Depth:3 (in.)												
		 		·								
	<u> </u>	tream gauge, moni		aerial photos	, previous insp	ections),	if available:					
Describe Reco	<u> </u>	tream gauge, moni able was observed		aerial photos	, previous insp	ections),	if available:					
Remarks:	<u> </u>			aerial photos	, previous insp	ections),	if available:					
Remarks:	The water ta	able was observed	d 4 inches b	aerial photos	, previous insp I surface.	·						
Remarks: SOILS Profile Descri	The water ta	able was observed	d 4 inches beeded to do	aerial photos pelow the so	, previous insp I surface.	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	The water ta	able was observed	d 4 inches beeded to do	aerial photos pelow the so	, previous insp I surface.	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	The water ta	be to the depth ne	d 4 inches beeded to do	aerial photos pelow the so	, previous insp I surface.	onfirm the	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	The water ta	be to the depth ne	eeded to do	aerial photos pelow the so	, previous insp I surface. ndicator or co	onfirm the	e absence of in ore Lining, M=Matr	(x)				
Remarks: SOILS Profile Descri	The water ta	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	aerial photos pelow the so	, previous insp I surface.	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The water ta	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	aerial photos pelow the so	, previous insp I surface. ndicator or co	onfirm the	e absence of in ore Lining, M=Matr	(x)	Texture MMI		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water to ption (Descriptration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 6/1 6/1 Indicators (characters)	eeded to do latrix, CS=Cov	aerial photos pelow the so pelo	ndicator or condicator or condicator or condicator or condicator or condicator or condicator or (Moist) 5/5GY re not presently Redox ped Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type D	Location	MMI LFS FS Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water ta ption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 6/1 6/1 Indicators (characters)	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the vered/Coated Sa Col OO Gley OO Sindicators a Sindicators a Sindicators a Sindicators a	ndicator or condicator or cond	Mottle % 10 tion: PL=Pe	e absence of in ore Lining, M=Matr es Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water to ption (Descriptration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histoger A4 - Hydroger	be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 6/1 6/1 Indicators (characters)	eeded to do latrix, CS=Cov	aerial photos pelow the so pelo	ndicator or condicator or cond	Mottle % 10 tion: PL=Pe	e absence of in ore Lining, M=Matr es Type D	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water ta ption (Descri ntration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 6/1 6/1 Indicators (characters) Sulfide Layers (LRR F)	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Si Col Go Gley Gley Gley Gley Gley Gley Gley Gley	ndicator or coand Grains; Loca or (Moist) 5/5GY re not presently Redox ped Matrix ny Mucky Miner ny Gleyed Matrix eted Matrix	Mottle Mottle 10 tion: PL=Pe	e absence of in ore Lining, M=Matr es Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water to ption (Descriptration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y Hue_5Y Hue_5Y A3 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 6/1 6/1 Indicators (characters) ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Sa Col Gley Gley Gley Gley Gley Gley Gley Gle	ndicator or condicator or cond	Mottle Mottle 10 t):	e absence of in ore Lining, M=Matr es Type D	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red F	Muck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water to ption (Descriptration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y Hue_5Y Hue_5Y A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 6/1 6/1 Indicators (chain a Sulfide Layers (LRR FGH) ck (LRR FGH) de Below Dark Surface	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Si Col Go Gley Go Gley Go F1 - Loar F2 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep	ndicator or condicator or cond	Mottle Mottle 10 t):	e absence of in ore Lining, M=Matr es Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Muck (LRR I, J) The Prairie Redox Urface (LRR G) Plains Depressing The Vertic Parent Material The Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water ta ption (Descri- ntration, D=Deple Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mo	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 6/1 6/1 ipedon stic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Si Col Go Gley Go Gley Go F1 - Loar F2 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep F8 - Red	ndicator or condicator	Mottle Mottle 10 tion: PL=Pe	e absence of in ore Lining, M=Matr es Type D	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Muck (LRR I, J) The Prairie Redox Urface (LRR G) Plains Depressing The Vertic Parent Material The Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water ta ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleterateration A11 - Depleterateration S1 - Sandy Mic S2 - 2.5 cm Mice	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 6/1 6/1 Indicators (characters) ipedon itic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Si Col Go Gley Go Gley Go F1 - Loar F2 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep F8 - Red	ndicator or condicator	Mottle Mottle 10 tion: PL=Pe	e absence of inore Lining, M=Matrices Type D	Location	MMI LFS FS Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox Urface (LRR G) Plains Depressi Ced Vertic Parent Material Shallow Dark Sain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	pe present.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-4 4-21 NRCS Hydr	The water ta ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleterateration A11 - Depleterateration S1 - Sandy Mic S2 - 2.5 cm Mice	be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 6/1 6/1 6/1 Indicators (characters) Expected to the depth neetion, RM=Reduced Marix Color (Moist) (characters) (characte	eeded to do latrix, CS=Cov	aerial photos pelow the so cument the rered/Coated Si Col Go Gley Go Gley Go F1 - Loar F2 - Loar F2 - Loar F3 - Dep F6 - Red F7 - Dep F8 - Red	ndicator or condicator	Mottle Mottle 10 tion: PL=Pe	e absence of inore Lining, M=Matrices Type D	Location	MMI LFS FS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Muck (LRR I, J) Prairie Redox Urface (LRR G) Plains Depressi Ced Vertic Parent Material Shallow Dark Sain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	pe present,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w31-b1
					•
VEGETATIO	N (Species identified in all uppercase a	are non-native	e species.)		
Tree Stratum	(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: 2 (A)
3.		1			
4.	<u></u>				Total Number of Dominant Species Across All Strata: 2 (B)
5.		1			`` ,
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					(742)
8.	J	-			Prevalence Index Worksheet
9.					4
10.					Total % Cover of: Multiply by:
10.	_l Total Cover	= 0			OBL spp. 18
	Total Cover	=	_		FACVV Spp. $\frac{40}{2}$ \times $2 = \frac{80}{2}$
0 11 /01 1	0				FAC spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Stratum (Plot size: 15 ft. radius)				FACU spp0
1.					UPL spp. $0 x 5 = 0$
2.		_			
3.					Total 66 (A) 122 (B)
4.					
5.]			Prevalence Index = B/A =
6.]			
7.					
8.		1			Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	i e				X Dominance Test is > 50%
	Total Cover	= 0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Harb Stratum (Plot size: 5 ft. radius)				
			Υ	FACW	Problem Hydrophytic Vegetation (Explain) *
1.	Agrostis gigantea	20	<u> Т</u>		* Indicators of hydric soil and wetland hydrology must be
2.	Phalaris arundinacea	20		FACW	present, unless disturbed or problematic.
3.	Juncus nodosus	10	N	OBL	·
4.	Echinochloa crus-galli	5	N	FAC	Definitions of Vegetation Strata:
5.	Juncus alpinoarticulatus	5	N	OBL	
6	Typha X glauca	3	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Agrostis scabra	3	N	FAC	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.		1			Herb - All herbaceous (non-woody) plants, regardless of size.
13.		1			
14.		,			
15.	, [-			Woody Vines - All woody vines, regardless of height.
15.	Total Cover	= 66			, 1, 100 m m m m m m m m m m m m m m m m m m
	Total Cover	= 00			
10/2 1 27 2	Victoria (Distriction 2004)				
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.	1				
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover	= 0			
Remarks:	The sample site is dominated by redtop and	d reed cana	ry grass. F	Rush spec	ies are also prevalent.
			-	-	
Additional F	Remarks:				
Additional	Contains.				