## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		_							Date:09/26/14County:Pennington		
Investigators		Enbridge RAJ/BJC	_	Subregion (MLRA or LRR): MLRA 56						State: MN	
Soil Unit:	169A		NWI Classification:								
Landform:	rm: Dip Local Relief: LC									Sample Point: w-153n44w3-e1	
Slope (%):	0 - 2%		e: 48.10		Longitude:			Datum:			
	· · ·	nditions on the site typica			ar? (If no, exp	1		☑ Yes		Section:	
Are Vegetation		□, or Hydrology □signi □, or Hydrology □atur					e normal circum ☑ Yes	Istances pr □ No	esent?	Township: Range: Dir:	
SUMMARY C			any pro							Nalige. Dil.	
Hydrophytic V			Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	-		Yes		-					nt Within A Wetland? Yes	
Remarks: A wet prairie community dominated by northern reedgrass, woolly sedge, and big bluestem with scattered quaking aspen and balsam poplar. To the north, outside the survey corridor, the wetland transitions into a forested wetland. All indicators of wetland conditions are met.											
HYDROLOG											
Wetland Hv	drology Indi	i <b>cators</b> (Check all that a	iM :vlac	nimum of on	e primarv	or two s	econdarv requi	red):			
Primary:	<u>.</u>		· [· · <b>]</b> ,		- p			00.)1	Secondary:	<u>.</u>	
□ A1 - Surface Water □ B11 - Salt Crust										B6 - Surface Soil Cracks	
	A2 - High Wat A3 - Saturatio				C1 - Hydro					B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns	
	B1 - Water Ma				C2 - Dry S	eason Wa		C3 - Oxidized Rhizospheres on Living Roots (tilled			
	B2 - Sediment	•			C3 - Oxidiz		C8 - Crayfish Burrows				
	B3 - Drift Dep B4 - Algal Mat				C4 - Prese C7 - Thin M					C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	
	B5 - Iron Depo	osits			Other (Exp				V	D5 - FAC-Neutral Test	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves									
Field Observ	vations.										
Surface Wate		Yes 🗆	Depth	•	(in.)						
Water Table		Yes D	Depth		(in.)			Wetland H	lydrology	Present? Y	
Saturation Pr		Yes 🗆	Depth		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Indicators of wetland hydrology are present.											
SOILS											
SOILS											
		be to the depth needed t									
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS									
Profile Descri		etion, RM=Reduced Matrix, CS				tion: PL=P	ore Lining, M=Matr				
Profile Descri (Type: C=Concer		etion, RM=Reduced Matrix, CS Matrix	=Covered	d/Coated Sand (	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	ix)	Texture	Remarks	
Profile Descri (Type: C=Concer Depth (In.)	htration, D=Deple	etion, RM=Reduced Matrix, CS Matrix Color (Moist)	=Covered	d/Coated Sand ( Color (I	Grains; Loca	tion: PL=P	ore Lining, M=Matr		Texture	Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-7	Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	=Covered % 100	d/Coated Sand ( Color (I	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Matr es Type	Location	SC	Remarks	
Profile Descri (Type: C=Concer Depth (In.)	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	=Covered	Color (I Hue_10YR	Grains; Loca Moist)	tion: PL=P Mottle	ore Lining, M=Matr es	ix)	SC SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11	Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2	=Covered % 100 90	d/Coated Sand ( Color (I	Grains; Loca Moist) 4/6	tion: PL=P Mottle % 10	ore Lining, M=Matr es Type C	Location	SC	Remarks much gravel and cobble	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2	=Covered % 100 90	Color (I Hue_10YR	Grains; Loca Moist) 4/6	tion: PL=P Mottle % 10	ore Lining, M=Matr es Type C	Location	SC SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2	=Covered % 100 90	Color (I Hue_10YR	Grains; Loca Moist) 4/6	tion: PL=P Mottle % 10	ore Lining, M=Matr es Type C	Location	SC SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18	Hue_10YR Hue_10YR	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 6/2	=Covered % 100 90 80	Color (I Hue_10YR	Grains; Loca Moist) 4/6 6/8	tion: PL=P Mottle % 10 20	ore Lining, M=Matr es Type C	Location	SC SCL		
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18	Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 6/2	=Covered % 100 90 80	d/Coated Sand ( Color (I Hue_10YR Hue_2.5Y	Grains; Loca Moist) 4/6 6/8 not presen	tion: PL=P Mottle % 10 20	ore Lining, M=Matr es Type C C	Location	SC SCL SCL	much gravel and cobble	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 6/2 Indicators (check he	=Covered % 100 90 80	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y dicators are r S5 - Sandy R	Grains; Loca Moist) 4/6 6/8 not presen	tion: PL=P Mottle % 10 20	ore Lining, M=Matr es Type C C	Location M M	SC SCL SCL <u>SCL</u> <u>Indicators f</u> A9 - 1 cm M	much gravel and cobble for Problematic Soils <sup>1</sup> fuck (LRR I, J)	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field	etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 6/2 Indicators (check he	=Covered % 100 90 80	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped	Grains; Loca Moist) 4/6 6/8 not presen edox Matrix	tion: PL=P Mottle % 10 20 t):	ore Lining, M=Matr es Type C C	Location M M	SC SCL SCL Indicators f A9 - 1 cm M A16 - Coast	much gravel and cobble for Problematic Soils <sup>1</sup> Muck (LRR I, J) t Prairie Redox (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	ipedon stic n Sulfide	=Covered % 100 90 80 ere if ind	d/Coated Sand ( Color (I Hue_10YR Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Grains; Loca Moist) 4/6 6/8 ot presen edox Matrix fucky Miner bleyed Matri	tion: PL=P Mottle % 10 20 t):	ore Lining, M=Matr es Type C C	Location M M	SC SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	ipedon stic Layers (LRR F)	=Covered % 100 90 80 re if ind	d/Coated Sand ( Color (I Hue_10YR Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Grains; Loca Moist) 4/6 6/8 not presen edox Matrix fucky Miner fileyed Matri	tion: PL=P Mottle % 10 20 t):	ore Lining, M=Matr es Type C C	ix) Location M M	SC SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mud	ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	=Covered % 100 90 80 re if ind	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy Q F3 - Depleted F6 - Redox D	Grains; Loca Moist) 4/6 6/8 ot presen edox Matrix Mucky Miner Gleyed Matri Matrix ark Surface	tion: PL=P Mottle % 10 20 t):	ore Lining, M=Matr es Type C C	ix) Location M M	SC SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mud	ipedon stic h Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	=Covered % 100 90 80 re if ind	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 4/6 6/8 00t presen edox Matrix Mucky Miner Gleyed Matri Matrix ark Surface Dark Surface pressions	tion: PL=P Mottle % 10 20 t):	es Type C C	ix) Location M M I I I I I I I I I I I I I I I I I	SC SCL SCL SCL <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y 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 Mic	ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	=Covered % 100 90 80 re if ind	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 4/6 6/8 00t presen edox Matrix Mucky Miner Gleyed Matri Matrix ark Surface Dark Surface pressions	tion: PL=P Mottle % 10 20 t):	ore Lining, M=Matr es Type C C	ix) Location M M I I I I I I I I I I I I I I I I I	SC SCL SCL SCL <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         y Shallow Dark Surface	
Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y 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 Mu S2 - 2.5 cm M	Atrix Matrix Color (Moist) 2/1 4/2 6/2 Indicators (check he ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, H	=Covered % 100 90 80 re if ind	d/Coated Sand C Color (I Hue_10YR Hue_2.5Y Hue_2.5Y dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 4/6 6/8 00t presen edox Matrix Mucky Miner Gleyed Matri Matrix ark Surface Dark Surface pressions	tion: PL=P Mottle % 10 20 t):	es Type C C	ix) Location M M I I I I I I I I I I I I I I I I I	SC SCL SCL SCL <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	much gravel and cobble         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         urface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         v Shallow Dark Surface         ain in Remarks)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-e1			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 5 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>80.0%</b> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 25 X 1 = 25			
	Total Cover =	0			FACW spp. 50 x 2 = 100			
	-				FACW spp.       50       x       2 =       100         FAC spp.       0       x       3 =       0         FACU spp.       35       x       4 =       140			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $35$ x 4 = 140			
<u>1.</u>	Populus balsamifera	10	Y	FACW	$UPL \text{ spp.}  0 \qquad \text{X } 5 = 0$			
2.	Salix bebbiana	5	Ý	FACW				
3.		-	-		Total 110 (A) 265 (B)			
4.								
5.					Prevalence Index = B/A = <b>2.409</b>			
6.								
7.								
8.					Hydronbytic Vagatation Indicators:			
					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.	Tatal Causar	45			X Dominance Test is > 50%			
	Total Cover =	15	15		X			
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Calamagrostis stricta	30	Y	FACW				
2.	Carex pellita	25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Andropogon gerardii	25	Y	FACU	present, unless disturbed or problematic.			
4.	Solidago altissima	5	Ν	FACU	Definitions of Vegetation Strata:			
5.	Spartina pectinata	5	Ν	FACW				
6	Glycyrrhiza lepidota	5	N	FACU	<b>Tree -</b> 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.	<u> </u>							
12.	I				<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
12.								
13.								
					Woody Vince All woody vines regardless of height			
15.		07			Woody Vines - All woody vines, regardless of height.			
	Total Cover =	95						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =	0						
Remarks:	A wet prairie community domunated by north	ern reeda	rass, wool	ly sedge, a	and big bluestem with scattered balsam poplar and willow shrubs. Hydrophytic			
	vegetation is present.	- 3	,					
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Additional Remarka								
Additional Remarks:								
1								