WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R Fabridae									Date:	09/25/14
Applicant: Investigators	•	Enbridge NTT/BEH	Subregion (MLRA or LRR): MLRA 56						County: State:	Marshall MN		
Soil Unit:	I707A				NWI Classification: PEMAd							
Landform:	Depression Local Relief: CC									Sample Point	w-154n45w11-a1	
Slope (%):	3 - 7%	aditions on the sid	Latitude: 48			Longitude:			Datum:			
		nditions on the sit				I I ? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology □, or Hydrology	•				Ale	e normal circun ☑ Yes	Istances pre	esent?	Township: Range:	Dir:
SUMMARY C			Hattirally	probl				E 163			Range.	
Hydrophytic V			Ye	es					Hydric Soil	s Present?	Yes	
· · · · · · · · · · · · · · · · · · ·					Yes Is This Sampling Poir							/etland? Yes
Remarks:		d is a seasonally-f parse bog yellow				-		-	ion growing	within the v	wetland. The	only vegetation throughout the
HYDROLOG		parse bog yenow	01033.10030	. vege			a on by i					
Wetland Hy	drology Ind	icators (Check al	ll that apply;	; Mini	mum of on	e primary	or two se	econdary requi	red):			
Primary:	: A1 - Surface	Mator				B11 - Salt	Cruct			<u>Secondary:</u> ☑	B6 - Surface S	Soil Cracks
	A1 - Sunace A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro	gen Sulfid	le Odor			B10 - Drainag	je Patterns
	B1 - Water M B2 - Sedimer					C2 - Dry Se		iter Table spheres on Living	Roots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•									•	on Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust		 □ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □ Other (Explain) 							D2 - Geomorp	phic Position
	B5 - Iron Dep	osits on Visible on Aerial In	magany								D5 - FAC-Neu	utral Test aved Hummocks (LRR F)
		tained Leaves	nagery									
Field Observ	vations:											
Surface Wat		Yes 🗆	De	epth:		(in.)						N/
Water Table		Yes 🗆		epth:		(in.)			Wetland H	ydrology	Present?	Y
Saturation Pr	resent?	Yes 🗆	De	epth:		(in.)						
Describe Reco	orded Data (s	stream gauge, mon	nitorina well.	aerial	I nhotos nre	winus iner	octions)	if available:				
	```			aonai	i priotos, pre	svious misp	ecuons),	li avaliable.				
Remarks:	No primary	hydrology indicate	<b>.</b>		•	•			I cracking a	nd landsca	pe position.	
	No primary	<u> </u>	<b>.</b>		•	•			I cracking a	nd landsca	pe position.	
SOILS		hydrology indicate	ors are pres	sent. \	Wetland hy	drology is	assume	d based on so	-	nd landsca	pe position.	
SOILS Profile Descri	ption (Descr	<u> </u>	ors are pres	sent. \ bcume	Wetland hy	drology is	assume	ed based on so e absence of ir	ndicators.)	nd landsca	pe position.	
SOILS Profile Descri	ption (Descr	hydrology indicate ibe to the depth ne etion, RM=Reduced M	ors are pres	sent. \ bcume	Wetland hy	drology is	assume onfirm the tion: PL=Pe	ed based on so e absence of ir ore Lining, M=Mati	ndicators.)	nd landsca	pe position.	
SOILS Profile Descri (Type: C=Concer	ption (Descr	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix	eeded to do	Sent. \ Dcume vered/C	Wetland hy ent the indic Coated Sand C	drology is cator or co Grains; Loca	assume onfirm the tion: PL=Pe Mottle	ed based on so e absence of ir ore Lining, M=Mati	ndicators.)		pe position.	
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descr	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist)	eeded to do	Sent. \ Docume vered/C	Wetland hy	drology is cator or co Grains; Loca	assume onfirm the tion: PL=Pe	ed based on so e absence of ir ore Lining, M=Mati	ndicators.)	nd landsca Texture	pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	ption (Descr ntration, D=Depl Hue_10YR	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C %	Wetland hy ent the indic Coated Sand C Color (N	drology is cator or co Grains; Loca Moist)	assume onfirm the tion: PL=Po Mottle	ed based on soi e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)		pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descr	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C %	Wetland hy ent the indic Coated Sand C	drology is cator or co Grains; Loca	assume onfirm the tion: PL=Pe Mottle	ed based on so e absence of ir ore Lining, M=Mati	ndicators.)		pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	ption (Descr ntration, D=Depl Hue_10YR	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C %	Wetland hy ent the indic Coated Sand C Color (N	drology is cator or co Grains; Loca Moist)	assume onfirm the tion: PL=Po Mottle	ed based on soi e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)		pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	ption (Descr ntration, D=Depl Hue_10YR	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C %	Wetland hy ent the indic Coated Sand C Color (N	drology is cator or co Grains; Loca Moist)	assume onfirm the tion: PL=Po Mottle	ed based on soi e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)		pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	ption (Descr ntration, D=Depl Hue_10YR	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C %	Wetland hy ent the indic Coated Sand C Color (N	drology is cator or co Grains; Loca Moist)	assume onfirm the tion: PL=Po Mottle	ed based on soi e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)		pe position.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	ption (Descr ntration, D=Depl Hue_10YR Hue_10YR	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1	eeded to do Matrix, CS=Cov	Sent. \ Docume vered/C % 100 80 H	Wetland hy ent the indic Coated Sand C Color (N Hue_10YR	drology is cator or co Grains; Loca Moist) <u>6/8</u>	assume onfirm the tion: PL=Po Mottle %	ed based on soi e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)		pe position.	Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	Ption (Descr htration, D=Depl Hue_10YR Hue_10YR ic Soil Field A1- Histosol	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (cl	eeded to do Aatrix, CS=Cov	Sent. \ Docume Vered/C % 100 80 F f indic	Wetland hy ent the indic Coated Sand C Color (N Hue_10YR cators are n	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen	assume onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M	or Problemati	ic Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (cl	eeded to do Aatrix, CS=Cov	Sent. \ Dcume vered/C % 100 80 F f indic	Wetland hy ent the indic Coated Sand C Color (N Hue_10YR Hue_10YR cators are n S5 - Sandy Ro S6 - Stripped	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix	assume onfirm the tion: PL=Po Mottle % 20	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast	or Problemati luck (LRR I, J) Prairie Redox	i <u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (cl stic	eeded to do Aatrix, CS=Cov	Sent. \ Docume Vered/C % 100 80 F f indic G S S G F	Wetland hy ent the indic Coated Sand C Color (N Hue_10YR cators are n	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Miner	assume onfirm the tion: PL=Po Mottle % 20 20 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G)	i <u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicato ibe to the depth no etion, RM=Reduced N Matrix Color (Moist) 2/1 6/1 ibe don stic n Sulfide Layers (LRR F)	eeded to do Aatrix, CS=Cov	Sent. \ Dcume vered/C % 100 80 F 6 indic S S S F S F F F F F F F F F F F F F F	Wetland hy ent the indic Coated Sand C Color (I Hue_10YR Hue_10YR Hue_10YR Cators are n S5 - Sandy Ro S5 - Sandy Ro	drology is cator or co Grains; Loca Moist) 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8 6/8	assume onfirm the tion: PL=Po Mottle % 20 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	i <mark>c Soils¹</mark> (LRR F, G, H) )
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato	eeded to do Matrix, CS=Cov	Sent. \ Dcume vered/C % 100 80 F 6 indic S S S S F S F S F S F F F F F F F F F	Wetland hy ent the indic Coated Sand C Color (M Hue_10YR Hue_10YR Hue_10YR Color Sandy Re So - Sandy Re So - Stripped So - Strip	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Minera leyed Matrix leyed Matrix ark Surface	assume onfirm the tion: PL=Po Mottle % 20 20 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	i <mark>c Soils¹</mark> (LRR F, G, H) ) iONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 ibedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	eeded to do Matrix, CS=Cov	sent. \ cume vered/C % 100 80 F 0 6 100 S 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wetland hy ent the indic Coated Sand C Color (M Hue_10YR Hue_10YR Hue_10YR Cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted	drology is cator or co Grains; Locar Moist) 6/8 6/8 6/8 6/8 60t presen edox Matrix lucky Minera leyed Matrix lucky Minera leyed Matrix ark Surface Dark Surface	assume onfirm the tion: PL=Po Mottle % 20 20 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	ic Soils ¹ (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	hydrology indicato	eeded to do Matrix, CS=Cov	sent. \ cume vered/C % 100 80 F 00 80 F 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Wetland hy ent the indic Coated Sand C Color (M Hue_10YR Hue_10YR Hue_10YR Color Sandy Re So Sandy Re So Sandy Re So Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Miner leyed Matri leyed Matri Matrix ark Surface Dark Surfa epressions	assume onfirm the tion: PL=Po Mottle % 20 20 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	ic Soils ¹ (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73) Surface
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	htration, D=Depl Hue_10YR 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 S2 - 2.5 cm N	hydrology indicators ibe to the depth not etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 indicators (cl pipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LR	eeded to do Matrix, CS=Cov	Sent. \ Dcume vered/C % 100 80 F 0 6 indic S S S F S F F F F F F F F F F F F F F	Wetland hy ent the indic Coated Sand C Color (M Hue_10YR Hue_10YR Hue_10YR Color Sandy Re So Sandy Re So Sandy Re So Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Miner leyed Matri leyed Matri Matrix ark Surface Dark Surfa epressions	assume onfirm the tion: PL=Po Mottle % 20 20 t):	e absence of ir ore Lining, M=Matri es Type C	Location M	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark s ain in Remarks)	i <mark>c Soils¹</mark> (LRR F, G, H) ) iONS (LRR H, outside MLRA 72, 73) Surface )
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	hydrology indicato hydrology indicato ibe to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 6/1 indicators (cl bipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eeded to do Matrix, CS=Cov	Sent. \ Dcume vered/C % 100 80 F 0 6 indic S S S F S F F F F F F F F F F F F F F	Wetland hy ent the indic Coated Sand C Color (M Hue_10YR Hue_10YR Hue_10YR Color Sandy Re Sandy Re San	drology is cator or co Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Miner leyed Matri leyed Matri Matrix ark Surface Dark Surfa epressions	assume onfirm the tion: PL=Po Mottle % 20 t):	e absence of ir ore Lining, M=Mati es Type C C	Location M M M M M N N N N N N	Texture CL C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	i <mark>c Soils¹</mark> (LRR F, G, H) ) iONS (LRR H, outside MLRA 72, 73) Surface )

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w11-a1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>/// Cover</u>	Dominant	<u>inu.status</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.	I				
4.	<u></u> _				Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $15$ X 1 = $15$
	Total Cover =	0			OBL spp.       15       x       1 =       15         FACW spp.       0       x       2 =       0         FAC spp.       5       x       3 =       15         FACU spp.       0       x       4 =       0
					FAC spp. 5 $x 3 = 15$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total 20 (A) 30 (B)
4.					
5.					Prevalence Index = $B/A = $ <b>1.500</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	 Total Cover -	0			$\underline{X}$ Dominance Test is > 50%
	Total Cover =	0			$X = Prevalence Index is \le 3.0 *$
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)	15	V	OBL	Problem Hydrophytic Vegetation (Explain) *
	Rorippa palustris	15			* Indicators of hydric soil and wetland hydrology must be
2. 3.	Echinochloa crus-galli	5	ľ	FAC	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.	I				
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.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	20			
			-		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Tatal Oassa				
Domorke	Total Cover =	0			of borbioido tractod bog vollowerces and boroverd grass
Remarks:	The majority of the ground layer is bare soll t	vesides ver	y sparse a	amounts (	of herbicide-treated bog yellowcress and barnyard grass.
Additional F	Remarks:				