WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/25/14
Applicant:	Enbridge											Marshall
Investigators									State:	MN		
Soil Unit:	I707A NWI Classification:										and the different disc of	
Landform:	DepressionLocal Relief: CC0 - 2%Latitude: 48.177221Longitude: -96.390897Datum:								Sample Point:	w-154n45w11-c1		
Slope (%):	0 - 2%	nditions on the si				-			Datum ☑ Yes	: □ No	Section:	
Are Vegetatio		□, or Hydrology				u: (ii no, exp		e normal circu				
Are Vegetation		□, or Hydrology	•					e normai circu ☑ Yes		CSCIIL!	Township: Range:	Dir:
SUMMARY C		· · · · · ·	platarany	problo				- 103	- 140		Runge.	
			Ye	es					Hvdric Soi	ils Present?	? Yes	
	Ohytic Vegetation Present? Yes Hydric Soils Present? Yes Is This Sampling Point Within A Wetland?									etland? Yes		
Remarks:												
	wetland. The only vegetation throughout the wetland is sparse patches of barnyard grass an bog yellowcress. Most vegetation has been killed off by herbicide											
HYDROLOG	Y				-							
Wetland Hy	droloav Indi	cators (Check al	Il that apply	: Minim	num of one	e primarv	or two s	econdary requ	ired):			
Primary:	•••			,		o princi y	01 110 0			Secondary	<u>:</u>	
	A1 - Surface \					B11 - Salt				V	B6 - Surface S	
	A2 - High Wat					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma					C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sediment							spheres on Living	a Roots (not til	le 🗆	C8 - Crayfish I	
	B3 - Drift Dep	•				C4 - Prese						n Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin M		ace			D2 - Geomorp	
	B5 - Iron Depo		magan			Other (Exp	olain)				D5 - FAC-Neu	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Ir ained Leaves	nagery							L		aved Hummocks (LRR F)
Field Observ	vations:											
Surface Wate		Yes 🗆	De	epth:		(in.)						
Water Table		Yes D		epth:		(in.)			Wetland H	Hydrology	Present?	Y
Saturation Pr		Yes D		epth:		(in.)						—
					nhataa nra			if available.				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on soil cracking and landscape position.												
SOILS					-						•••	
SOILS Profile Descri	ption (Descri	be to the depth n	eeded to do	ocumer	nt the indic							
Profile Descri		be to the depth ne etion, RM=Reduced M				cator or co	onfirm th	e absence of i	ndicators.)			
Profile Descri						cator or co	onfirm th	e absence of i	ndicators.)		· ·	
Profile Descri (Type: C=Concer		etion, RM=Reduced M Matrix	Matrix, CS=Cov	vered/Co	oated Sand G	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of i ore Lining, M=Ma	ndicators.)			
Profile Descri	ntration, D=Deple	etion, RM=Reduced M Matrix Color (Moist)	Matrix, CS=Cov	vered/Co		cator or co Grains; Loca	onfirm th tion: PL=P	e absence of i ore Lining, M=Ma	ndicators.)	Texture		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12		Matrix Color (Moist) 2/1	Matrix, CS=Cov	vered/Co % 100	oated Sand G Color (N	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of i ore Lining, M=Ma es Type	ndicators.)			Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Deple	etion, RM=Reduced M Matrix Color (Moist)	Matrix, CS=Cov	vered/Co % 100	oated Sand G	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of i ore Lining, M=Ma es	ndicators.)			Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	Hue_10YR	Matrix Color (Moist) 2/1	Matrix, CS=Cov	vered/Co % 100 60 H	oated Sand G Color (N	Cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of i ore Lining, M=Ma es Type	ndicators.) trix)		Mixed matrix.	Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	Hue_10YR	etion, RM=Reduced M Matrix Color (Moist) 2/1	Matrix, CS=Cov	vered/Co % 100 60 H	oated Sand G Color (N lue_10YR	Cator or co Grains; Loca Moist) 5/8	onfirm th tion: PL=P Mottl % 20	e absence of i ore Lining, M=Ma es Type C	ndicators.) trix) Location M			Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	Hue_10YR	etion, RM=Reduced M Matrix Color (Moist) 2/1	Matrix, CS=Cov	vered/Co % 100 60 H	oated Sand G Color (N lue_10YR	Cator or co Grains; Loca Moist) 5/8	onfirm th tion: PL=P Mottl % 20	e absence of i ore Lining, M=Ma es Type C	ndicators.) trix) Location M			Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	Hue_10YR	etion, RM=Reduced M Matrix Color (Moist) 2/1	Matrix, CS=Cov	vered/Co % 100 60 H	oated Sand G Color (N lue_10YR	Cator or co Grains; Loca Moist) 5/8	onfirm th tion: PL=P Mottl % 20	e absence of i ore Lining, M=Ma es Type C	ndicators.) trix) Location M			Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	Hue_10YR	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	Matrix, CS=Cov	vered/Co % 100 60 H H	oated Sand G Color (N lue_10YR lue_10YR	Cator or co Grains; Loca Moist) 5/8 2/1	onfirm th tion: PL=P Mottl % 20 20	e absence of i ore Lining, M=Ma es Type C	ndicators.) trix) Location M			Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	Hue_10YR Hue_10YR Hue_10YR	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1	Matrix, CS=Cov	vered/Co % 100 60 H H if indica	Color (N lue_10YR lue_10YR ators are n	Cator or co Grains; Loca Moist) 5/8 2/1	onfirm th tion: PL=P Mottl % 20 20	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C	Mixed matrix.	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 5/1	Matrix, CS=Cov	vered/Co % 100 60 H H if indica	oated Sand G Color (N lue_10YR lue_10YR ators are n 5 - Sandy Re	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen	onfirm th tion: PL=P Mottl % 20 20	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C <u>Indicators</u> A9 - 1 cm M	Mixed matrix.	<u>c Soils¹</u>
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	Matrix Color (Moist) 2/1 5/1 Indicators (C	Matrix, CS=Cov	vered/Co % 100 60 H H if indica	Color (N Color (N lue_10YR lue_10YR ators are n 5 - Sandy Re 6 - Stripped	Cator or co Grains; Loca Vloist) 5/8 2/1 ot presen edox Matrix	onfirm th tion: PL=P Mottl % 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M I	Texture CL C C Indicators A9 - 1 cm M A16 - Coast	Mixed matrix. Mixed matrix. for Problematic fuck (LRR I, J) t Prairie Redox (<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR General States of the	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (C	Matrix, CS=Cov	vered/Co % 100 60 H H H if indica	oated Sand G Color (N lue_10YR lue_10YR due_10YR due_10YR for sandy Re for sandy Re for stripped for stripped for stripped	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner	onfirm th tion: PL=P Mottl % 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M I	Texture CL C C Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	Mixed matrix. Mixed matrix. for Problemation for Problemation	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (cl	Matrix, CS=Cov	vered/Co % 100 60 H H H if indica	Color (N Color (N lue_10YR lue_10YR lue_10YR doi: 1 - Sandy Re 6 - Stripped 1 - Loamy M 2 - Loamy G	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri	onfirm th tion: PL=P Mottl % 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M I	Texture CL C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 5/1 Indicators (C ipedon stic n Sulfide Layers (LRR F)	Matrix, CS=Cov	vered/Co % 100 60 H H H H St C St C St C St C St S S S C S S S C S S S C S S S S	Color (N Color (N lue_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix	onfirm th tion: PL=P Mottl % 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C C <u>Indicators</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mud	etion, RM=Reduced M Matrix Color (Moist) 2/1 5/1 Indicators (cl	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N Color (N lue_10YR lue_10YR lue_10YR doi: 1 - Sandy Re 6 - Stripped 1 - Loamy M 2 - Loamy G	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface	onfirm th tion: PL=P Mottl % 20 20 20 tt):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 ctic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Furface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 S2 - 2.5 cm M	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (I	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problemation Muck (LRR I, J) t Prairie Redox (Aurface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 Muc	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problemation Muck (LRR I, J) t Prairie Redox (Aurface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 S2 - 2.5 cm M	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C	ndicators.) trix) Location M M	Texture CL C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks) hydrophytic vegetat	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 Mi S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR lue	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C C	ndicators.) trix) Location M M M I I I I I I I I I I I I I I I I	Texture CL C C C <u>Indicators 7</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks) hydrophytic vegetat	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 Mi S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR due_10YR lue_10YR lue_10YR due	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C C	ndicators.) trix) Location M M	Texture CL C C C <u>Indicators 7</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks) hydrophytic vegetat	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Al- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl r Type:	ipedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR lue	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C C	ndicators.) trix) Location M M M I I I I I I I I I I I I I I I I	Texture CL C C C <u>Indicators 7</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks) hydrophytic vegetat	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Al- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mic S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl r Type:	Atrix Matrix Color (Moist) 2/1 5/1 5/1 Indicators (C ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (I cky Peat or Peat (LF eyed Matrix	Matrix, CS=Cov	vered/Co % 100 60 H H H H St St St St St St St St St St St St St	Color (N lue_10YR lue_10YR lue_10YR lue_10YR due_10YR lue	Cator or co Grains; Loca Moist) 5/8 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface Dark Surface	onfirm th tion: PL=P Mottl % 20 20 20 20 t):	e absence of i ore Lining, M=Ma es Type C C C	ndicators.) trix) Location M M M I I I I I I I I I I I I I I I I	Texture CL C C C <u>Indicators 7</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. Mixed matrix. for Problematic Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks) hydrophytic vegetat	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w11-c1			
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.	J				Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					10000700000000000000000000000000000000			
10.	Total Cover =	0			$\frac{1}{1} = \frac{1}{2}$			
		0	_		OBL spp. 5 X 1 = 5 FACW spp. 0 X 2 = 0 FAC spp. 10 X 3 = 30 FACU spp. 0 X 4 = 0			
Copling/Chrub	Otrotum (Dist size: 15 ft. rodius)				$FAC spp. 10 \qquad x \ S = 30$			
	Stratum (Plot size: 15 ft. radius)				$FACU \text{ spp.} \qquad 0 \qquad X \ 4 = \qquad 0 \qquad \qquad$			
1.					UPL spp. 0 $x 5 = 0$			
2.								
3.					Total <u>15</u> (A) <u>35</u> (B)			
4.								
5.					Prevalence Index = $B/A = 2.333$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Echinochloa crus-galli	10	Y	FAC				
2.	Rorippa palustris	5	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.					present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
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.					Herb - All herbaceous (non-woody) plants, regardless of size.			
12.					HELD - An Helbaceous (Holl-woody) plants, regardless of Size.			
13.					4			
14.								
15.	1				Woody Vines - All woody vines, regardless of height.			
	Total Cover =	15	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =	0						
Remarks:			ry sparse a	amounts o	of herbicide-treated bog yellowcress and barnyard grass.			
			•					
Additional	Domarke							
Additional Remarks:								