WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/01/14
Applicant:		Enbridge				(A 41 D A				County:	Pennington
Investigators		RAJ/BJC			Subregion	n (MLRA o	,	MLRA 56		State:	MN
Soil Unit:	NWI Classification: Sample Point: w-153n44w13-b1									w 152514w12 b1	
Landform: Slope (%):	Depression 0 - 2%		Latitude: 48.07			-96.24528	20	Datum:		Sample Point:	W-1531144W13-D1
. ,		nditions on the site						✓ Patum.	□ No	Section:	
Are Vegetation		✓, or Hydrology			11 : (11 110, CXP		ormal circum			Township:	
Are Vegetation			□aturally pro			7 (10 11	□ Yes	⊠ No	, , , , , , , , , , , , , , , , , , ,	Range:	Dir:
SUMMARY C			Therear all y pro-				00	- 110		r tailige.	
Hydrophytic \			Yes					Hydric Soil	s Present?	Yes	
Wetland Hyd	_		Yes							t Within A We	etland? Yes
Remarks:											ne wetland is in a drainage swale that i
				-			-				vel was to the top of the swale bank for
	an extended personal sedimentation.	eriod. All parameters of	wetiand conditio	ns are present.	The vegetati	ion is disturbe	ea from nerbiciae	e use. The sol	is are disturbe	a from periodic ti	llage at the edge of the swale and fron
HYDROLOG'											
		icators (Check all t	that apply: Mi	nimum of one	a nrimary (or two seco	ondary requir	ad)•			
Primary:		Cators (Check all t	ιτιαι αρριγ, ινιι	minum or one	e primary (or two sect	oridary requir	eu).	Secondary:		
<u>- 11111 (21 y 2</u>	A1 - Surface	Nater			B11 - Salt (Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua				V		egetated Concave Surface
	A3 - Saturation B1 - Water M				•	gen Sulfide (B10 - Drainage	
	B2 - Sedimen					eason Water ed Rhizosph	nable heres on Living	Roots (not tille		C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
✓	B3 - Drift Dep	•		nce of Reduc	•	(•	Visible on Aerial Imagery		
V	B4 - Algal Ma					luck Surface)		☑	D2 - Geomorph	
	B5 - Iron Dep	osits n Visible on Aerial Ima	agery.		Other (Expl	laın)				D5 - FAC-Neut	ral Test ved Hummocks (LRR F)
	B9 - Water-St		agery							Di - Flost-flea	ved Fidiliffocks (ERR F)
_											
Field Observ	vations:										
Surface Wate	er Present?	Yes 🗆	Depth	:	(in.)			387 41 111		- 10	
Water Table		Yes □	Depth		(in.)			Wetland H	lydrology F	resent?	Y
Saturation Pr		Yes □	Depth								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s		<u>'</u>		(in.)	ections) if a	available:				
		tream gauge, monit	oring well, aer	ial photos, pre	evious insp			e soil crack	ing through	out the wetlar	nd area, and there are drift
Describe Reco	The swale b	stream gauge, monito	oring well, aer	ial photos, pre n algal crust	evious insp in some lo	ocations; th	ere is surfac		ing through	out the wetlar	nd area, and there are drift
	The swale b	tream gauge, monit	oring well, aer	ial photos, pre n algal crust	evious insp in some lo	ocations; th	ere is surfac		ing through	out the wetlar	nd area, and there are drift
Remarks: SOILS Profile Descri	The swale by deposits of ption (Descri	stream gauge, monito oottom is unvegetat crop residue around be to the depth nee	oring well, aer ed and has a d the edges o	ial photos, prender algal crust of the swale.	evious insp in some lo Indicators cator or co	ocations; the of wetland	nere is surfaced hydrology and bsence of in	re present.	ing through	out the wetlar	nd area, and there are drift
Remarks: SOILS Profile Descri	The swale by deposits of ption (Descri	stream gauge, monito oottom is unvegetat crop residue aroun	oring well, aer ed and has a d the edges o	ial photos, prender algal crust of the swale.	evious insp in some lo Indicators cator or co	ocations; the of wetland	nere is surfaced hydrology and bsence of in	re present.	ing through	out the wetlar	nd area, and there are drift
Remarks: SOILS Profile Descri	The swale by deposits of ption (Descri	etream gauge, monitored to the depth need to the depth need to the Reduced Market need to the depth need to the Reduced Market need to the depth need to the	oring well, aer ed and has a d the edges o	ial photos, prender algal crust of the swale.	evious insp in some lo Indicators cator or co	ocations; the of wetland on firm the action: PL=Pore	nere is surfaced hydrology and absence of in Lining, M=Matri	re present.	ing through	out the wetlar	nd area, and there are drift
Remarks: SOILS Profile Descri (Type: C=Concer	The swale by deposits of ption (Descri	ottom is unvegetate crop residue around be to the depth need to the Matrix	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prender algal crust of the swale. The ment the indicated Sand Control	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on on the action: PL=Pore	nere is surfaced hydrology and absence of in Lining, M=Matri	re present. dicators.)		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer	The swale by deposits of ption (Descriptration, D=Depl	ottom is unvegetate crop residue around be to the depth need to the depth need to make the depth around the detion, RM=Reduced Materix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prender algal crust of the swale.	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on firm the action: PL=Pore	nere is surfaced hydrology and absence of in Lining, M=Matri	re present.	Texture	out the wetlar	nd area, and there are drift Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	The swale by deposits of ption (Descriptration, D=Deplementation)	ottom is unvegetate crop residue around be to the depth need to the Matrix Matrix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100	ial photos, prender algal crust of the swale. ment the indication of the content of the swale. Color (N	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on firm the action: PL=Pore Mottles	nere is surfaced hydrology and absence of in Lining, M=Matri	dicators.) x) Location		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer	The swale by deposits of ption (Descriptration, D=Depl	ottom is unvegetate crop residue around be to the depth need to the Matrix Matrix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prender algal crust of the swale. The ment the indicated Sand Control	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on on the action: PL=Pore	nere is surfaced hydrology and absence of in Lining, M=Matri	re present. dicators.)		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	The swale by deposits of ption (Descriptration, D=Deplementation)	ottom is unvegetate crop residue around be to the depth need to the Matrix Matrix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100	ial photos, prender algal crust of the swale. ment the indication of the content of the swale. Color (N	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on firm the action: PL=Pore Mottles	nere is surfaced hydrology and absence of in Lining, M=Matri	dicators.) x) Location		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	The swale by deposits of ption (Descriptration, D=Deplementation)	ottom is unvegetate crop residue around be to the depth need to the Matrix Matrix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100	ial photos, prender algal crust of the swale. ment the indication of the content of the swale. Color (N	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on firm the action: PL=Pore Mottles	nere is surfaced hydrology and absence of in Lining, M=Matri	dicators.) x) Location		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	The swale by deposits of ption (Descriptration, D=Deplementation)	ottom is unvegetate crop residue around be to the depth need to the Matrix Matrix Color (Moist)	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100	ial photos, prender algal crust of the swale. ment the indication of the content of the swale. Color (N	evious insp in some lo Indicators cator or co Grains; Locat	ocations; the of wetland on firm the action: PL=Pore Mottles	nere is surfaced hydrology and absence of in Lining, M=Matri	dicators.) x) Location		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18	The swale k deposits of ption (Descriptration, D=Depl	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prender algal crust of the swale. The swale indicated sand control of the swale. Color (Note: The swale indicated sand control of the swale indicated sand contro	evious insp in some lo Indicators cator or co Grains; Locat Moist)	ocations; the of wetland on firm the action: PL=Pore Mottles 5	nere is surfaced hydrology and	dicators.) x) Location		out the wetlar	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	The swale k deposits of ption (Descriptration, D=Depl	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100	ial photos, prender algal crust of the swale. The swale indicated sand control of the swale. Color (Note: The swale indicated sand control of the swale indicated sand contro	evious insp in some lo Indicators cator or co Grains; Locat Moist)	ocations; the of wetland on firm the action: PL=Pore Mottles 5	nere is surfaced hydrology and	dicators.) x) Location	Texture C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prenalgal crust of the swale. ment the indicator of the swale. Color (Note: The state of the swale.) Color (Note: The swale of the swale.)	evious inspin some lo Indicators cator or co Grains; Locat Moist)	ocations; the of wetland on firm the action: PL=Pore Mottles 5	nere is surfaced hydrology and	cocation M	Texture C C	or Problematic	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18	The swale k deposits of ption (Descriptration, D=Depl	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered	ial photos, prender algal crust of the swale. The swale indicated sand control of the swale. Color (Note: The swale indicated sand control of the swale indicated sand contro	evious inspin some lo Indicators cator or co Grains; Locat Moist) 5/8 ot presentedox	ocations; the of wetland on firm the action: PL=Pore Mottles 5	nere is surfaced hydrology and	Location	Texture C C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descri- ntration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100 95 eck here if inc	algal crust of the swale. ment the indicators and Color (Note of Sand Color) Hue_10YR dicators are note of Sand Color (Note of Sandy Research Color) S5 - Sandy Res6 - Stripped F1 - Loamy Months	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5	nere is surfaced hydrology and	Location M	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G)	Remarks Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depletration,	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100 95 eck here if inc	ial photos, prenalgal crust of the swale. ment the indicator of the swale. Color (Note: The striped of the swale.) Solution of the swale. Color (Note: The swale.) Color (Note: The swale.) Solution of the swale. Color (Note: The swale.) Solution of the swale. Solution of the swale.	in some lo Indicators Cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5	nere is surfaced hydrology and	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depletration,	itream gauge, monitored to the depth need to the depth need to the depth need to make the d	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered % 100 95 eck here if inc	algal crust of the swale. ment the indicators and Color (Note of Sand Color) Color (Note of Sand Color) Hue_10YR dicators are note of Sandy Research San	evious insperior some lo Indicators cator or co Grains; Locator or	ocations; the action: PL=Pore Mottles % 5	nere is surfaced hydrology and	Location M	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic	Remarks Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depletration,	be to the depth need to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered %	ial photos, prenalgal crust of the swale. ment the indicator of the swale. Color (Note: The striped of the swale.) Solution of the swale. Color (Note: The swale.) Color (Note: The swale.) Solution of the swale. Color (Note: The swale.) Solution of the swale. Solution of the swale.	in some lo Indicators Cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface	ocations; the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Deplete Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	iream gauge, monitored to the depth need to the depth need to the depth need to the depth need to the detion, RM=Reduced Matrix Color (Moist) 2/1 5/1 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered 95	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	more of wetland on firm the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and absence of in Elining, M=Matri	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depleted Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface aucky Mineral	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered 95	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	more of wetland on firm the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleteration A11 - Depleteration A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	iream gauge, monitorectom is unvegetate crop residue around be to the depth need betton, RM=Reduced Matrix Color (Moist) 2/1 5/1 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) depth surface ark S	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered %	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and absence of in Elining, M=Matri	Location M	Texture C C C A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark Sonin in Remarks)	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleteration A11 - Depleteration A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	iream gauge, monitorectom is unvegetate crop residue around be to the depth need be to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered %	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and absence of in Elining, M=Matri	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark Sonin in Remarks)	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descri- ntration, D=Depl Hue_10YR Hue_2.5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	iream gauge, monitorectom is unvegetate crop residue around be to the depth need be to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered %	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5 t):	nere is surfaced hydrology and absence of in Elining, M=Matri	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depleteration, D=Depleteration) 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 Mu A11 - Depleteration A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	iream gauge, monitorectom is unvegetate crop residue around be to the depth need be to the de	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered %	algal crust of the swale. ment the indicators are not seed and control of the swale. Color (Note: The seed of the swale of the swale. Color (Note: The swale of the swale of the swale. Color (Note: The swale of the swale of the swale. So and the swale of the swale of the swale. So and the swale of	in some lo Indicators cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Mineral leyed Matrix Matrix ark Surface pressions	ocations; the sof wetland on firm the action: PL=Pore Mottles % 5 t):	here is surfaced hydrology and absence of in Elining, M=Matri	Location M H)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-18 NRCS Hydr	The swale k deposits of ption (Descriptration, D=Depleted) Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	iream gauge, monitorectom is unvegetate crop residue around be to the depth need etion, RM=Reduced Matrix Color (Moist) 2/1 5/1 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surfac	oring well, aer ed and has a d the edges of eded to docur trix, CS=Covered 95 eck here if ince edges of edges	algal crust of the swale. ment the indicators are not so a sandy Results and Control of the swale. Color (Note: The swale of the swale. So and	in some lo Indicators Cator or co Grains; Locat Moist) 5/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depress	more than the action: PL=Pore Mottles % 5 t):	here is surfaced hydrology as absence of in Lining, M=Matri	Location M I Present?	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks) ydrophytic vegetatied or problematic.	Remarks Soils¹ LRR F, G, H) Ins (LRR H, outside MLRA 72, 73) urface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Total Cover = 0 Total Cove	Project/Site	: L3R				Sample Point: w-153n44w13-b1
Total Cover 0 Total Cove						
Species Name			e non-native	species.)		
1	Tree Stratum	·				
Number of Deminant Species may are OBL_FACW, or FAC_22_(B)		Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
Trotal Number at Dominum Species Advances Al Stratus: 2 (B)						
Total Number of Dominant Species Across All Strate 2 (B)	2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
Factor of Dominium Species That Are ORIL, FACW, or FAC 100,0% (A/B)	3.					
Factor of Dominium Species That Are ORIL, FACW, or FAC 100,0% (A/B)	4.					Total Number of Dominant Species Across All Strata: 2 (B)
Research Commant Species That Are OBL. FACV, or FAC. 100.0% (A/B)	5.					
Provalence Index Worksheet						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Prevalence Index Worksheet						(* 4 2)
9						Prevalence Index Worksheet
Total Cover = 0						
Total 57 (A) 122 (B) Total 57 (A) 122 (B) Prevalence Index = BIA = 2.140 Prevalence Index = BIA = 2.140						ODL and A 4
Total 57 (A) 122 (B) Total 57 (A) 122 (B) Prevalence Index = BIA = 2.140 Prevalence Index = BIA = 2.140	10.	Total Cayor				OBL spp.
Total 57 (A) 122 (B) Total 57 (A) 122 (B) Prevalence Index = BIA = 2.140 Prevalence Index = BIA = 2.140		Total Cover =	U			FACVV spp. 31 \times $2 = 62$
2. 3. 4. 4. 5. 6. 7. 8. 8. 9. 10. Total Cover = 0 Herb Stratum (Plot size: 5 ft. radius) 1. Lapoconice fuces 25 Y FACW 2. Prevalence Index a 25 Y FACW 3. Engrence growpor 10 Y FAC 4. Prevalence and western hydrolytic Vegetation (Explain) * 1. Lapoconice fuces 5 N FAC 4. Prevalence and 5 N FACW 5. Ranger and western hydrolytic Vegetation (Explain) * 1. Separate provides and western hydrolytic Vegetation (Explain) * 1. Problem Hy						FAC spp. $\frac{17}{2}$ \times $3 = \frac{51}{2}$
2. Total 57 (A) 122 (B) Prevalence Index = B(A = 2.140)		Stratum (Plot size: 15 ft. radius)				FACU spp. $0 X 4 = 0$
2. Total 57 (A) 122 (B) Prevalence Index = B(A = 2.140)						UPL spp. 0
4.						
Prevalence Index = B/A =						Total <u>57</u> (A) <u>122</u> (B)
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Rapid Test for Hydrophytic Vegetation	4.					
B.	5.					Prevalence Index = B/A = 2.140
Total Cover = 0	6.					
B.						
Section Problem Prob						Hydrophytic Vegetation Indicators:
Total Cover = 0						
Total Cover =						
Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) * Problem Hydrophytic Vege	10.	Total Cover -	0			
Herb Stratum (Plot size: 5 ft. radius)		Total Cover =	0			
1. Legochbor lusce	_					
2. Plantago major 10 Y FAC 3. Echinochico crus-galii 5 N FAC 4. Peracana lagantificia 5 N OBL 5. Rumos fueginus 3 N FACW 6. Peracana macutosa 3 N FACW 7. Altama trivale 3 N OBL 8. Engostis pectinacea 2 N FAC 9. Typha X glauca 1 N OBL 11. Herb - All herbaceous (non-woody) plants, regardless of height. Total Cover = 57 Woody Vine Stratum (Plot size: 30 ft. radius) Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						Problem Hydrophytic Vegetation (Explain) *
Section control cont		Leptochloa fusca	25	<u> </u>		
4. Persicaria lapatrifolia 5 N OBL 5. Rumor funginus 3 N FACW 6 Persicaria maculosa 3 N FACW 7. Alisma tinulate 3 N OBL 8. Engrestis pectinacea 2 N FAC 9. Typha X glauca 1 N OBL 10.	2.	Plantago major	10	Y	FAC	· · · · · · · · · · · · · · · · · · ·
5. Rumex fueginus 6 Persicaria maculosa 3 N FACW 7. Alisma trivulate 3 N OBL 8. Eragnostis pectinacea 2 N FAC 9, Typha X glauca 1 N OBL 11. 12. 13. 14. 15. Total Cover = 57 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. 5. 7. 8. 8. 8. 8. 8. 8. 8. 8	3.	Echinochloa crus-galli	5	N	FAC	present, unless disturbed or problematic.
Face Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height.	4.	Persicaria lapathifolia	5	N	OBL	Definitions of Vegetation Strata:
7. Alisma triviale 3 N OBL 8. Engrostis pectinacea 2 N FAC 9. Typha X glauca 1 N OBL 11.	5.	Rumex fueginus	3	N	FACW	
7. Alisma triviale 3 N OBL 8. Engrostis pectinacea 2 N FAC 9. Trypha X glauca 1 N OBL 11.	6	Persicaria maculosa	3	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
8. Eragrostis pectinacea 2 N FAC 9. Typha X glauca 1 N OBL 10. 11. 12. 13. 14. 15. Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. 5. 4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						
9. Typha X glauca 1 N OBL 10.						
10.						Sanling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
11. 12. 13. 14. 15. Woody Vines - All woody vines, regardless of size. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardl		Typna A giauca		11	ODL	Supmig/Sinus
12.						
13. 14. 15. Woody Vines - All woody vines, regardless of height. Total Cover =57 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. Hydrophytic Vegetation Present? Y 5.						I I All harbassaus (non woody) planta, regardless of size
14.						Herb - All herbaceous (hori-woody) plants, regardless of size.
Total Cover =57						
Total Cover =57						
Woody Vine Stratum (Plot size: 30 ft. radius) 1.	15.					Woody Vines - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 ft. radius) 1.		Total Cover =	57			
1. 2. 3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.				_ _		
1. 2. 3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.	Woody Vine S	tratum (Plot size: 30 ft. radius)				
2. 3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						
3. Hydrophytic Vegetation Present? Y 5. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						
5. 4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						Hydrophytic Vegetation Present?
4. Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						injuroprijuo regetation i resent:
Total Cover = 0 Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.						
Remarks: An annual community dominated by sprangletop grass and common plantain in a seasonally flooded basin. Hydrophytic vegetation is present.	4.	Total Carrain	^			
	Domini			and the		
Additional Remarks:	Remarks:	An annual community dominated by sprangle	etop grass	and comn	non planta	in in a seasonally flooded basin. Hydrophytic vegetation is present.
Additional Remarks:						
Additional Remarks:						
	Additional I	Remarks:				
						