WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/03/14
Applicant:		Enbridge						= . = .		County:	Polk
Investigators				Subregion (MLRA or LRF				MLRA 56		State:	MN
Soil Unit:	712			NWI Classification:							4504004 44
Landform:	Rise				cal Relief:		4450	D-4		Sample Point:	u-150n40w24-d1
Slope (%): 0 - 2% Latitude: 47.802273 Longitude: -95.7251150 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes ☐ No Section:											
					al ! (IT no, exp		arks) e normal circum			Section:	
Are Vegetation Are Vegetation		☐ or Hydrology [☐ or Hydrology [☐				Ait	rioiiilai ciicuii ☑ Yes	Istances pre □No	esent?	Township:	Dir:
			 tturally pr	Jule Halle?			<u> </u>			Range:	DII.
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present? No											
Wetland Hyd			No No		-					nt Within A W	etland? No
		sample point is loca		aht rise within	a arazed	nasture	Vegetation is	dominated b	ny creening	wild rve time	othy and redton
ixemarks.	The upland	sample point is loca	ieu on a sii	grit rise within	i a grazeu	pasitire	. vegetation is	Johnnateu i	by creeping	wiid rye, tirric	only, and rediop.
HYDROLOG	V										
		icators (Check all th	at apply; M	linimum of on	e primary	or two s	econdary requi	red):			
Primary:	: A1 - Surface \	Nator			B11 - Salt	Cruet			Secondary	B6 - Surface S	Coil Cracks
l H	A2 - High Wa										Vegetated Concave Surface
	A3 - Saturatio										e Patterns
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen				C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep B4 - Algal Ma				C7 - Thin N					D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				Other (Exp		300			D5 - FAC-Neut	
		n Visible on Aerial Imag	ery			,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
							1				
Field Observations:											
Surface Water		_	Depti	n:	(in.)			Wetland H	lvdrology	Present?	N
Water Table		Yes 🔲		1:					.,		<u></u>
Saturation Pr	resent?	Yes	Depti	n:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary or secondary indicators of wetland hydrology were observed.											
Remarks:	NO primary	or secondary indicat	OIS OI WELIG	ana nyarology	were obs	ervea.					
Remarks:	NO primary	or secondary indicat	ors or wella	and nydrology	were obs	ervea.					
SOILS	. ,	·		, 0,							
SOILS Profile Descri	iption (Descri	be to the depth need	led to docu	ment the indi	cator or co	onfirm th					
SOILS Profile Descri	iption (Descri	·	led to docu	ment the indi	cator or co	onfirm th					
SOILS Profile Descri	iption (Descri	be to the depth need etion, RM=Reduced Matri	led to docu	ment the indi	cator or co	onfirm th	ore Lining, M=Matr			I	
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth need etion, RM=Reduced Matri Matrix	ded to docu x, CS=Covere	ment the indi	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ore Lining, M=Matr	ix)	Toytura		Domarko
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth need etion, RM=Reduced Matri Matrix Color (Moist)	ded to docu x, CS=Covere	ment the indi	cator or co Grains; Loca	onfirm th	ore Lining, M=Matr		Texture		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16	iption (Descriptration, D=Deplination, D=Deplinatio	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3	// seed to docu x, CS=Covere // % // 100 // 80 // 20	ment the indi- ed/Coated Sand (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl %	ore Lining, M=Matres Type	Location	LS LS S		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18	iption (Descrintration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2	% 100 80 20	ment the indi	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	ore Lining, M=Matr	ix)	LS LS S	Mixed matrix.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16	iption (Descriptration, D=Deplination, D=Deplinatio	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3	// seed to docu x, CS=Covere // % // 100 // 80 // 20	ment the indi- ed/Coated Sand (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl %	ore Lining, M=Matres Type	Location	LS LS S	Mixed matrix. Mixed matrix.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18	Hue 10YR Hue 10R	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1	% 100 80 20 20	Color (I	cator or co Grains; Locar Moist)	Mottle %	ore Lining, M=Matr	Location	LS LS S		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18	iption (Descrintration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1	% 100 80 20 20	ment the indi- ed/Coated Sand (cator or co Grains; Locar Moist)	Mottle %	ore Lining, M=Matres Type	Location	LS S S C	Mixed matrix.	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1	// / / / / / / / / / / / / / / / / / /	Color (I Hue_10YR dicators are r	cator or co Grains; Loca Moist)	Mottle %	ore Lining, M=Matr	Location M	LS LS S C	Mixed matrix.	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check	// / / / / / / / / / / / / / / / / / /	ment the indicator Sand (Coated	cator or co Grains; Local Moist) 3/1 anot presen	Mottle %	ore Lining, M=Matr	Location	LS S S C C	Mixed matrix. for Problematic luck (LRR I, J)	c Soils ¹
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (checking the control of the control	% 100 80 20 ck here if in	ment the indicators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) 3/1 not presen edox Matrix	Mottle 90 20 20	ore Lining, M=Matr	Location	LS S S C Indicators 1 A9 - 1 cm M A16 - Coast	Mixed matrix. for Problematic luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (checking the control of the	// / / / / / / / / / / / / / / / / / /	ment the indicator Sand (Coated	Moist) 3/1 anot presen edox Matrix Mucky Minera	Mottli % 20 21	ore Lining, M=Matr	Location	LS S S C Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18	Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Al- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (checking the control of the control	// / / / / / / / / / / / / / / / / / /	ment the indicator are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted	Moist) 3/1 anot presen edox Matrix	Mottle 20	ore Lining, M=Matr	Location M	LS S S C C M9 - 1 cm N A16 - Coast F - Dark S F16 - High F F18 - Reduce	for Problematic Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	c <u>Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A9 - 1 cm Mu	be to the depth need betton, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check ipedon stic no Sulfide Layers (LRR F) ck (LRR FGH)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	Moist) 3/1 anot presented Matrix lucky Minerix luky Minerix luky Minerix luky Minerix luky Minerix	Mottle 20	ore Lining, M=Matr	Location	LS S S C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Depth (In.) 0-10 10-16 10-16 16-18 16-18	Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10R Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1 - Deplete	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check ipedon stric in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	// / / / / / / / / / / / / / / / / / /	Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy Ed F3 - Depleted F6 - Redox D F7 - Depleted	Moist) Moist) 3/1 anot presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface	Mottle 20	ore Lining, M=Matr	Location M	LS S S C Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A9 - 1 cm Mu	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (checking a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	led to docu x, CS=Covere	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locar Moist) 3/1 anot presen edox Matrix lucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfae epressions	Mottli % 20 tt):	es Type	Location M	LS S S C Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	c Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Depth (In.) 0-10 10-16 10-16 16-18 16-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check ippedon in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface aucky Mineral lucky Peat or Peat (LRF Inches)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locar Moist) 3/1 anot presen edox Matrix lucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfae epressions	Mottli % 20 tt):	ore Lining, M=Matr	Location M	LS S S C Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A6 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check lipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locar Moist) 3/1 anot presen edox Matrix lucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfae epressions	Mottli % 20 tt):	ore Lining, M=Matr	Location M	LS S S C Indicators S A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Depth (In.) 0-10 10-16 10-16 16-18 16-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check lipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locar Moist) 3/1 anot presen edox Matrix lucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfae epressions	Mottli % 20 tt):	ore Lining, M=Matr	Location M	LS S S C Indicators S A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problematic duck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression 2 Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) DOS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A6 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check lipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locar Moist) 3/1 anot presen edox Matrix lucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfae epressions	Mottli % 20 tt):	ore Lining, M=Matr	Location M	LS S S C Indicators S A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) DOS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10R Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check lipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) cky Peat or Peat (LRR F)	// Sk here if in	ment the indicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 3/1 anot presen edox Matrix ducky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottli % 20 tt):	es Type C C RA 72, 73 of LRF	Location M	Indicators 1 Indicators 1 A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Red I TF2 - Red F TF12 - Very Other (Explain of the coast) Indicators of the coast o	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) DOS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10R Hue_10YR Hue_10R Hue_10YR Hue_10YR Gric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel 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	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface lucky Mineral lucky Peat or Peat (LRR Feyed Matrix	% 100 80 20	ment the indicators and color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy Ed F6 - Redox D F7 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist) 3/1 anot presen edox Matrix Mucky Minera Bleyed Matrix ark Surface I Dark Surfa epressions ains Depres	month the control of	es Type C RA 72, 73 of LRF	Location M B H)	Indicators of lunless disturbed	for Problematic duck (LRR I, J) Prairie Redox (Plains Depression and Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-16 10-16 16-18 16-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10R Hue_10YR Hue_10YR Hue_10YR Gric Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A4- Tom Mu A11- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm M S3- 5 cm Mu S4- Sandy G Type:	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 5/3 5/2 2/1 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface lucky Mineral lucky Peat or Peat (LRR Feyed Matrix	// See layer of acce layer of acce layer of acce layer of acces ac	ment the indicators and color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy Ed F6 - Redox D F7 - Depleted F6 - Redox D F7 - Depleted F6 - High Pla Depth:	Moist) 3/1 anot presen edox Matrix Mucky Mineralleyed Matrix ark Surface I Dark Surfa epressions ains Depres	monfirm the tion: PL=P Mottli % 20 20 20 by a min	es Type C C Hydric So Red layer of dar	Location M H II Present?	Indicators of unless disturbushed in N	for Problematic duck (LRR I, J) Prairie Redox (Plains Depression and Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) DOS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n40w24-d1			
VEGETATIO		non-native	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:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:3(B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 0 x 1 = 0			
	Total Cover =	0			FACW spp. 20			
			_		FAC spp. 10 x 3 = 30			
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 70 x 4 = 280			
1.	Stratum (Flot Size. 13 it. radius)				UPL spp. 0 x 5 = 0			
2.					0. 2 opp			
3.					Total 100 (A) 350 (B)			
3. 4.					Total 100 (A) 350 (B)			
					Dravelence Index v. D/A = 0.500			
5.					Prevalence Index = B/A = 3.500			
6.	_							
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.	_				Dominance Test is > 50%			
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Elymus repens	40	Υ	FACU				
2.	Phleum pratense	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Agrostis gigantea	20	Υ	FACW	present, unless disturbed or problematic.			
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:			
5.	Cirsium arvense	5	N	FACU				
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.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.				_	Woody Vines - All woody vines, regardless of height.			
15.	Total Course	100			1100uy 111103 - 1			
1	Total Cover =	100	_					
	ratum (Plot size: 30 ft. radius)							
1.								
2.				_				
3.					Hydrophytic Vegetation Present? N			
5.	ļ							
4.				_				
	Total Cover =	0						
Remarks:	The vegetation is dominated by creeping wild	l rye, timot	hy, and re	dtop.				
1								
Additional Remarks:								
- taattional I								
]								