## WETLAND DETERMINATION DATA FORM Great Plains Region

D (/O:/		LOD								I D. C.	00/00/4.4	
Project/Site:		L3R								Date:	09/26/14 Dennington	
Applicant:		Enbridge BEH/NTT			Subrogion		\ or I DD\·	MLRA 56		County: State:	Pennington MN	
Investigators: Soil Unit:	I48A	DEH/INT I			_Subregior	•	A or LRR): I Classification			State.	IVIIN	
Landform:	Shoulder			_	cal Relief:		i Ciassilication	•		Sample Point	u-154n44w20-c1	
Slope (%):	3 - 7%	Latitud	le: 48.14		Longitude:		7229341	Datum:			<u>u 1041144W20 01</u>	
. ,		nditions on the site typic						✓ Yes	□ No	Section:		
Are Vegetation				disturbed?	(,		e normal circun			Township:		
Are Vegetation			•	blematic?			□ Yes	☑ No	0001111	Range:	Dir:	
SUMMARY C										901		
Hydrophytic \			No					Hydric Soi	Is Present?	No No		
Wetland Hyd			No		-					nt Within A W	etland? <b>No</b>	
Remarks:		ple point in a recently till	led gras	sland; veget	ation is sp	arse. Th	ne area is upslo					
	•		Ü		•		·	•				
<b>HYDROLOG</b>	Υ											
		icators (Check all that a	nnly: Mi	nimum of on	e nrimary	or two s	econdary requi	red)•				
Primary:		Cators (Crieck all triat a	ppry, iviii		e pilitially	OI TWO S	econdary requi	ied).	Secondary	•		
<u> </u>	A1 - Surface \	Water			B11 - Salt (	Crust				<u>.</u> B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		(411 - IX
	B1 - Water Ma B2 - Sedimen				C2 - Dry Se		ater Table spheres on Living	Roots (not till	L -	C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (	tillea)
	B3 - Drift Dep	•					educed Iron	110013 (1101 1111		-	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorp		
	B5 - Iron Dep				Other (Expl	lain)				D5 - FAC-Neu		
		n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
Surface Water		Voc. □	Donth:		(in )							
Water Table		Yes □ Yes □	Depth: Depth:		_ (in.) _ (in.)			Wetland F	Hydrology	Present?	N	
			•		• :						<del></del>	
	Saturation Present? Yes   Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	<u>`</u>					ections),	, if available:					
Describe Reco	<u>`</u>	stream gauge, monitoring or secondary hydrological				ections),	, if available:					
Remarks:	<u>`</u>					ections),	, if available:					
Remarks:	No primary	or secondary hydrologica	al indica	tors were ob	served.			adiantora )				
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydrologica	al indica to docun	tors were ob	cator or co	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydrologica	al indica to docun	tors were ob	cator or co	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No primary ption (Descri	or secondary hydrological be to the depth needed to the depth need	al indica to docun	tors were ob	cator or co	onfirm th	ne absence of ir Pore Lining, M=Mati					
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydrological be to the depth needed to the depth needed to the depth needed Matrix, CS	al indica to docun S=Covered	tors were ob nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary hydrological be to the depth needed to the depth need	to docum S=Covered	tors were ob	cator or co	onfirm th	ne absence of ir Pore Lining, M=Mati		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	or secondary hydrological be to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1	to docum S=Covered % 100	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	SL	abundant gravel	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-15	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth needed to	to documents with the second s	tors were ob nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr	rix)	Texture SL LS	abundant gravel	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	be to the depth needed to	to docum S=Covered % 100	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	SL	abundant gravel	Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-15	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth needed to	to documents with the second s	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	SL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-15	No primary  ption (Descrintration, D=Depleter)  Hue_10YR  Hue_10YR	be to the depth needed to	to documents with the second s	nent the indi	cator or co	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	SL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21	No primary  ption (Descrintration, D=Deplete Deplete D	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  5/3	mal indicate documents of the documents	nent the indi	cator or co Grains; Locat Moist)	Mottle	e absence of in Pore Lining, M=Matr es Type C	Location	SL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-15	No primary  ption (Descrintration, D=Deplete Deplete D	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  5/3	mal indicate documents of the documents	nent the indi	cator or co Grains; Locat Moist)	Mottle	e absence of in Pore Lining, M=Matr es Type	Location	SL LS S	abundant gravel		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	No primary  ption (Descrintration, D=Deplete   Hue_10YR Hue_10YR Hue_10YR	be to the depth needed tetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  5/3	mal indicate documents of the documents	color ( Hue_10YR	cator or co Grains; Locat Moist) 6/8	Mottle	e absence of in Pore Lining, M=Matr es Type C	Location	SL LS S	abundant gravel		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21	No primary  ption (Descrintration, D=Depleted Primary)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol	be to the depth needed to	mal indicate documents of the documents	color ( Hue_10YR  licators are r	cator or co Grains; Locat Moist)  6/8  not present	Mottle	e absence of in Pore Lining, M=Matr es Type C	Location	SL LS S Indicators	abundant gravel  for Problemation  fuck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	No primary  ption (Descrintration, D=Deplete   Hue_10YR Hue_10YR Hue_10YR	be to the depth needed to	mal indicate documents of the documents	color ( Hue_10YR	cator or co Grains; Locat Moist)  6/8  not present	Mottle %	e absence of in Pore Lining, M=Matr es Type C	Location	SL LS S Indicators 1 A9 - 1 cm M A16 - Coast	abundant gravel	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	No primary  ption (Descrintration, D=Deplete   Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger	be to the depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to the detion)  Indicators (check he depth needed to the detion)  Sulfide	sto documents of section of secti	color ( Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Locat Moist)  6/8  not present edox Matrix Mucky Minera	Mottle %	e absence of in Pore Lining, M=Matr es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	abundant gravel  for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needed to	sto documents of second	color (  Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Locat Moist)  6/8  not present edox Matrix Mucky Minera	monfirm the fion: PL=P  Mottle %  1  t):	e absence of in Pore Lining, M=Matr es Type C	Location	Indicators : A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	abundant gravel  for Problemation  fuck (LRR I, J)  t Prairie Redox (  furface (LRR G)  Plains Depression  ced Vertic	C Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	Ption (Descrintration, D=Deplementation, D=Deple	be to the depth needed to the tion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 99 100 ere if ind	color ( Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	cator or co Grains; Locat Moist)  6/8  not present edox Matrix Mucky Minera Gleyed Matrix ark Surface	mottle which was all and the confirm the confirmation. The confirmation is all and confirmation the confirmation that confirmation is all and confirmation the confirmation that confirmation is all and confirmation that confirmation is all a	e absence of in Pore Lining, M=Matr es Type C	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red F	abundant gravel  for Problemation  fuck (LRR I, J)  t Prairie Redox ( curface (LRR G)  Plains Depression  ced Vertic  Parent Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	ntration, D=Deplementation, D=	be to the depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to the detion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  5/3	sto documents of second	color ( Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Locat Moist)  6/8  not present edox Matrix Mucky Minera Gleyed Matrix Hark Surface I Dark Surface	mottle which was all and the confirm the confirmation. The confirmation is all and confirmation the confirmation that confirmation is all and confirmation the confirmation that confirmation is all and confirmation that confirmation is all a	e absence of in Pore Lining, M=Matr es Type C	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very	abundant gravel  for Problemation  Muck (LRR I, J)  t Prairie Redox ( Burface (LRR G)  Plains Depression  Ced Vertic  Parent Material  of Shallow Dark S	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	Ption (Descrintration, D=Deplementation, D=Deple	be to the depth needed to the tion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he tick in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	sto documents of section docum	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix ark Surface I Dark Surface	mottle %  1  t):	e absence of in Pore Lining, M=Matr es Type C	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very	abundant gravel  for Problemation  fuck (LRR I, J)  t Prairie Redox ( curface (LRR G)  Plains Depression  ced Vertic  Parent Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	ntration, D=Deplementation, D=	be to the depth needed to the total needed to the depth needed to the total needed to	% 100 99 100 ere if ind	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix ark Surface I Dark Surface	mottle %  1  t):	es Type C	Location	SL LS S  Indicators (A) A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant gravel  for Problemation  fuck (LRR I, J)  t Prairie Redox ( curface (LRR G)  Plains Depression  ced Vertic  Parent Material  of Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21	Ption (Descrintration, D=Deplementation, D=Deple	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Advantage  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Redu	% 100 99 100 ere if ind	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix ark Surface I Dark Surface	mottle %  1  t):	es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	abundant gravel  for Problematic fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	esent,
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	ntration, D=Deplementation, D=	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Advantage  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Redu	% 100 99 100 ere if ind	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix ark Surface I Dark Surface	mottle %  1  t):	es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	abundant gravel  for Problemation  fuck (LRR I, J)  t Prairie Redox ( curface (LRR G)  Plains Depression  ced Vertic  Parent Material  of Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	esent,
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21	Ption (Descrintration, D=Deplementation, D=Deple	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Advantage  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Redu	% 100 99 100 ere if ind	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix ark Surface I Dark Surface	mottle %  1  t):	es Type C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	abundant gravel  for Problematic fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	esent,
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21	ntration, D=Deplementation, D=	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Matrix  Color (Moist)  2/1  4/3  5/3  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Advantage  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Reduced Matrix, CS)  Indicators (check he depth needed to etion, RM=Redu	% 100 99 100 ere if ind	color (  Hue_10YR  Hue_10YR  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; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix lark Surface I Dark Surface la Dark Surface epressions ains Depres	mottle %  1  t):	es Type C  -RA 72, 73 of LRF	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant gravel  for Problematic fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	resent,
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-15 15-21  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth needed to the tion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  5/3  Indicators (check he tick to be stick to be stick to be suffide to be suffide to be sufficed to be sufficient to be sufficient to be sufficed to be sufficient to	% 100 99 100 ere if ind	color ( Hue_10YR  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or co Grains; Locat Moist)  6/8  not present edox Matrix lucky Minera Gleyed Matrix lark Surface d Dark Surface lepressions ains Depres	Mottle %  1  t):	es Type C  LRA 72, 73 of LRF	Location  M  Cil Present?	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	abundant gravel  for Problematic fuck (LRR I, J) t Prairie Redox ( curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)  hydrophytic vegetated or problematic.	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-154n44w20-c1			
VEQETATIO								
VEGETATIO	` ` '	re non-native	species.)					
Tree Stratum (	Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	<u>Species Ivamo</u>	<u> 70 00001</u>	Dominant	<u>ma.otatas</u>				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.					(· ·)			
4.					Total Number of Dominant Species Across All Strata: 1 (B)			
5.					(2)			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.					(142)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 0			
	Total Cover =	0			FACW spp. $3 \times 2 = 6$			
			FAC spp. $0 \times 3 = 0$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 24 x 4 = 96			
1.					UPL spp. $0   x   5 = 0$			
2.								
3.					Total <u>27</u> (A) <u>102</u> (B)			
4.								
5.					Prevalence Index = B/A = 3.778			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
	Total Cover =	· <u> </u>	_		Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Elymus repens	15	Υ	FACU				
2.	Barbarea vulgaris	3	N	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Melilotus officinalis	3	N	FACU	present, unless disturbed or problematic.			
4.	Phalaris arundinacea	3	N	FACW	Definitions of Vegetation Strata:			
5.	Trifolium pratense	3	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.					All and the second seco			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	27						
107	(5)							
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.				_				
2.				-	Hydrophytic Venetation Dreserts N			
3.					Hydrophytic Vegetation Present?N			
5. 4.								
4.	Total Cover -							
Remarks:	Total Cover = 0  Remarks: Sample site is sparsely vegetated with plants coming up after tillage; quack grass is most prevalent.							
Nemarks:	Sample site is sparsely vegetated with plant	s coming u	p arter tilla	iy <del>e</del> , quack	yrass is most prevalent.			
Additional R	Remarks:							
l								