## WETLAND DETERMINATION DATA FORM Great Plains Region

Project Size   Service													
Investigation:   File	,												
Solid Mary Continues and Solid Research Country (Solid			•										
Landbrank   Procedular   Local Rober   Loc								,			State:	MN	
Supple (S)   3 - 7%									PEIVIC		Sample Point	w-155n45w28-h1	
And comparison protecting countribunes on the site typical for this time of year? Interspersion is a recognition of the site typical for this time of year? Interspersion is a recognition of the site of year?  Are Vegelation 1, Soil E, or Hydrology dusturally problemate?  Yes   No   No   No   No   No   No   No   N				atitude: 48.22				987	Datum:			W-1001140W20 D1	
Are normal circumstances present?   Township:   Dispetition   Soil   List Privillogy   Solid properties   Solid   List Privillogy   Solid properties   Solid propertie	. , ,										1		
Soli   D. or Hydrology   Solizon				•		( , , , , ,	1				Township:		
Mydric Soils Present? Yes	_			•					-		•	Dir:	
Wetland Hydrology Present?   Ves	SUMMARY C	OF FINDINGS	3										
Remarks:   Soils are disturbed by previous pipeline activities and show signs of mixing. All parameters of wetland conditions are met.	Hydrophytic \	Vegetation P	esent?	Yes		-							
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):    Maintenance   Maintena												etland? <b>Yes</b>	
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required);	Remarks:	Soils are dis	sturbed by previous	pipeline activ	ities and sh	ow signs c	of mixing	. All paramete	rs of wetlan	d conditions	s are met.		
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required);													
Primary   A1 - Surface Water   B11 - Sult Crust   B13 - Sult Crust   B14 - Algal Mat or Crust   C4 - Presence of Reduced from Crust Crust   C4 - Presence of Reduced from Crust Crust Crust   C4 - Presence of Reduced from Crust	HYDROLOG	Y											
A1 - Surface Water   B11 - Set Cnast   B13 - Aquatic Fauna   B13	_	•	cators (Check all the	nat apply; Mir	nimum of or	e primary	or two s	econdary requii	red):				
A2 - High Water Table   B13 - Aquatic Fanna   B15 - Squarely Vegetated Concave Surface   B1 - Water Marks   C2 - Dy Soason Water Table   C3 - Obdition of Processing Surface   C3 - Obdition Surface   C4			Matau			D44 C=14 (	O					tail Oranka	
A3 - Saturation   C1 - Hydrogen Sulfide Obder   B10 - Dinning Patterns   C2 - Obsided Phizospheres on Living Roots (tilled)   C3 - Obsided Phizospheres on Living Roots (tilled)   C4 - Obsid													
B1 - Water Marks						•							
B3 - Orint Deposits						C2 - Dry Se	eason Wa	iter Table					tilled)
B4 - Algal Mail or Crust			•						Roots (not till	le 🗆	•		
B5 - fron Deposits													
B7 - Inuration Visible on Aerial Imagery   B9 - WaterStained Leaves   Briefly Observations:   Surface Water Present? Yes   Depth;   (in.)   Wetland Hydrology Present? Yes   Depth;   (in.)   Saturation Present? Yes   Depth;   (in.)   (in.)   Wetland Hydrology Present? Yes   Depth;   (in.)   Saturation Present? Yes   Depth;   (in.)   (in.)   Wetland Hydrology Present? Yes   Depth;   (in.)   We								ace		<b>☑</b>			
Field Observations:  Surface Water Present? Yes				gery	_	Ott 101 (2)	,						
Surface Water Present? Yes   Depth:		B9 - Water-St	ained Leaves										
Surface Water Present? Yes   Depth:								1					
Water Table Present? Yes   Depth:						<i>(</i> 1. )							
Water Table Present? Yes				•		-			Wetland F	lvdrology l	Present?	Υ	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Indicators of wetland hydrology are present.    Indicators of wetland hydrology are present.				•		• '						<u> </u>	
Remarks: Indicators of wetland hydrology are present.    SOILS	Saturation Pi	resent?	Yes ⊔	Depth:		_ (In.)							
Soil S  Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)    Matrix	Describe Rec												
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)   Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered/Coated Sand Grains; Location: PL=Pore Lining, Mi=Matrix	Describe Med	orded Data (s	tream gauge, monito	ring well, aeri	al photos, pr	evious insp	ections),	if available:					
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)  Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered/Coated Sand Grains; Location: PL=Port Lining, M=Matrix    Matrix		<u>`</u>			al photos, pr	evious insp	ections),	if available:					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)   Depth (in.)	Remarks:	<u>`</u>			al photos, pr	evious insp	ections),	if available:					
Matrix	Remarks:	Indicators o	f wetland hydrology	are present.		·	,		dicators				
Depth (In.)	Remarks:  SOILS Profile Descri	Indicators o	f wetland hydrology be to the depth need	are present.	nent the indi	cator or co	onfirm th	e absence of in					
Depth (In.)	Remarks:  SOILS Profile Descri	Indicators o	f wetland hydrology be to the depth need	are present.	nent the indi	cator or co	onfirm th	e absence of in					
0-7   Hue_2.5Y   4/2   74   Hue_2.5Y   5/4   5   C   M   C	Remarks:  SOILS Profile Descri	Indicators o	be to the depth need	are present.	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr					
Hue_10YR 5/6 1 C M C  T-21 Hue_2.5Y 4/1 90 Hue_10YR 3/3 10 C M CL  NRCS Hydric Soil Field Indicators (check here if indicators are not present):    A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators o	be to the depth need etion, RM=Reduced Matrix	are present.  ded to documix, CS=Covered	nent the indi /Coated Sand	cator or co	onfirm th	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
T-21 Hue_2.5Y 4/1 90 Hue_10YR 3/3 10 C M CL  NRCS Hydric Soil Field Indicators (check here if indicators are not present):  A1- Histosol  A2- Histic Epipedon  A3- Black Histic  A3- Black Histic  A3- Black Histic  A3- Stratified Layers (LRR F)  A9- 1 cm Muck (LRR F, G, H)  F1- Loamy Mucky Mineral  A9- 1 cm Muck (LRR F, G, H)  F2- Loamy Gleyed Matrix  F3- Depleted Matrix  F6- Redox Dark Surface  F7- Depleted Dark Surface  A11- Depleted Below Dark Surface  A12- Thick Dark Surface  F3- Seady Mucky Mineral  S1- Sandy Mucky Mineral  F7- Depleted Dark Surface  F8- Redox Dark Surface	Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth need etion, RM=Reduced Matrix Color (Moist)	are present.  ded to documents, CS=Covered	nent the indi /Coated Sand Color (	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	Texture		Remarks	
Type:    Hue_2.5Y	Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth need etion, RM=Reduced Matrix Color (Moist)	are present.  ded to documents, CS=Covered	nent the indi /Coated Sand Color ( Hue_2.5Y	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type C	Location M	Texture C		Remarks	
NRCS Hydric Soil Field Indicators (check here if indicators are not present):    A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer	Indicators of In	be to the depth need etion, RM=Reduced Matrix Color (Moist)	are present.  ded to documents, CS=Covered	Color (Hue_10YR	cator or co Grains; Locat Moist) 5/4 5/6	Mottle  5	e absence of in ore Lining, M=Matr es Type C C	Location M M	Texture C C		Remarks	
A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7	Indicators of In	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  4/2	ded to documix, CS=Covered	Color ( Hue_2.5Y Hue_2.5Y Hue_2.5Y	Cator or co Grains; Locat Moist) 5/4 5/6 2.5/1	Mottle % 5 1 20	e absence of in ore Lining, M=Matr es Type C C	Location M M M	C C C		Remarks	
A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7	Indicators of In	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  4/2	ded to documix, CS=Covered	Color ( Hue_2.5Y Hue_2.5Y Hue_2.5Y	Cator or co Grains; Locat Moist) 5/4 5/6 2.5/1	Mottle % 5 1 20	e absence of in ore Lining, M=Matr es Type C C	Location M M M	C C C		Remarks	
A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7	Indicators of In	be to the depth need etion, RM=Reduced Matrix  Color (Moist)  4/2	ded to documix, CS=Covered	Color ( Hue_2.5Y Hue_2.5Y Hue_2.5Y	Cator or co Grains; Locat Moist) 5/4 5/6 2.5/1	Mottle % 5 1 20	e absence of in ore Lining, M=Matr es Type C C	Location M M M	C C C		Remarks	
A1- Histosol	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21	Indicators of In	be to the depth needetion, RM=Reduced Matrix  Color (Moist)  4/2	are present.  ded to document, CS=Covered  74  90	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M	C C C		Remarks	
A2 - Histic Epipedon	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21	Indicators of In	be to the depth needetion, RM=Reduced Matrix  Color (Moist)  4/2	are present.  ded to document, CS=Covered  74  90	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M	C C C CL	or Problematic		
A4 - Hydrogen Sulfide	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Indicators of In	be to the depth needetion, RM=Reduced Matrix  Color (Moist)  4/2	are present.  ded to document, CS=Covered  % 74  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR icators are r	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location  M  M  M  M	C C C CL			
A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) B1 - Reduced Vertic B2 - Red Parent Material B3 - Reduced Vertic B4 - Reduced Packet B4 - Reduced Packet B4 - Reduced Packet B4 - Reduced B4 - Reduc	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Indicators of Indicators of Indicators of Indicators of Intration, D=Deplementation,	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (cheed)	are present.  ded to document, CS=Covered  % 74  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR icators are r	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3 not present	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M	C C CL Indicators f	luck (LRR I, J)	c Soils <sup>1</sup>	
A9 - 1 cm Muck (LRR FGH)	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21	Hue_2.5Y  Hue_2.5Y  Cic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking depth of the depth needetion)  ipedon etic	are present.  ded to document, CS=Covered  % 74  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3 not present	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M	C C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> (LRR F, G, H)	
A11 - Depleted Below Dark Surface	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide	are present.  ded to document, CS=Covered  % 74  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR Color ( Hue_2.5Y Hue_10YR Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy R	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3 not present	Mottle % 5 1 20 10	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M	C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression	Soils <sup>1</sup> (LRR F, G, H)	
A12 - Thick Dark Surface	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F)	are present.  ded to document, CS=Covered  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3 not present	Mottle % 5 1 20 10 t):	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M —————————————————————————————	C C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	Soils <sup>1</sup> (LRR F, G, H)	
S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix  Type:  Depth:  Hydric Soil Present? Y  Remarks: Soils are disturbed by previous pipeline activities; there is debris and evidence of mixing in the profile. As the soil currently appears, it fits hydric soil indicator	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	are present.  ded to document, CS=Covered  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D	cator or co Grains; Locat Moist) 5/4 5/6 2.5/1 3/3 not present edox Matrix Mucky Minera Gleyed Matrix d Matrix eark Surface	Mottle  Mottle  Solution: PL=P  Mottle  1  20  10  t):	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M —————————————————————————————	C C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Plains Material	CLRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix    Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.    Restrictive Layer	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR FGH) ck (LRR FGH) d Below Dark Surface	are present.  ded to document, CS=Covered  % 74  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR Color ( Hue_2.5Y Hue_10YR Hue_10YR Color ( Hue_2.5Y Hue_10YR Hue_10YR Color ( Hue_2.5Y Hue_10YR Hue_10YR Color ( Hue_2.5Y Hue_10YR	Cator or co Grains; Locat Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Gleyed Matrix Matrix Park Surface	Mottle  Mottle  Solution: PL=P  Mottle  1  20  10  t):	e absence of inore Lining, M=Matrees  Type  C C C C	Location M M M M —————————————————————————————	C C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	CLRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Restrictive Layer Type:  Depth:  Hydric Soil Present?  Y  Remarks: Soils are disturbed by previous pipeline activities; there is debris and evidence of mixing in the profile. As the soil currently appears, it fits hydric soil indicator	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark S	are present.  ded to document, CS=Covered  90  ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat  Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Gleyed Matrix at Matrix bark Surface d Dark Surface	Mottle % 5 1 20 10 t):	e absence of inore Lining, M=Matrees  Type C C C C	Location M M M M —————————————————————————————	C C C CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	CLRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Restrictive Layer Type: Depth: Hydric Soil Present? Y  Remarks: Soils are disturbed by previous pipeline activities; there is debris and evidence of mixing in the profile. As the soil currently appears, it fits hydric soil indicator	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mis S2 - 2.5 cm M	be to the depth need etion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (check in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ark Surface ark y Mineral lucky Peat or Peat (LRI	are present.  ded to document, CS=Covered    %   74     90     ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat  Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Gleyed Matrix ank Surface d Dark Surface depressions	Mottle % 5 1 20 10 t):	e absence of inore Lining, M=Matrees  Type C C C C	Location M M M M —————————————————————————————	CCCCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	CE Soils <sup>1</sup> CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
Remarks: Soils are disturbed by previous pipeline activities; there is debris and evidence of mixing in the profile. As the soil currently appears, it fits hydric soil indicator	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  Good Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy Me S2 - 2.5 cm Me S3 - 5 cm Mue S3 - 5 cm Mue	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark	are present.  ded to document, CS=Covered    %   74     90     ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat  Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Gleyed Matrix ank Surface d Dark Surface depressions	Mottle % 5 1 20 10 t):	e absence of inore Lining, M=Matrees  Type C C C C	Location M M M M —————————————————————————————	CCCCL  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	CE Soils <sup>1</sup> CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
Remarks: Soils are disturbed by previous pipeline activities; there is debris and evidence of mixing in the profile. As the soil currently appears, it fits hydric soil indicator	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  Good Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy Me S2 - 2.5 cm Me S3 - 5 cm Mue S3 - 5 cm Mue	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark	are present.  ded to document, CS=Covered    %   74     90     ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat  Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Gleyed Matrix ank Surface d Dark Surface depressions	Mottle % 5 1 20 10 t):	e absence of inore Lining, M=Matrees  Type C C C C	Location M M M M —————————————————————————————	CCCCL  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	CE Soils <sup>1</sup> CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
	Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-7  7-21  NRCS Hydr	Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc S4 - Sandy Gl	be to the depth needetion, RM=Reduced Matrix  Matrix  Color (Moist)  4/2  4/1  Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark	are present.  ded to document, CS=Covered    %   74     90     ck here if ind	Color ( Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR Governormal Solution of the second of the	Moist)  5/4  5/6  2.5/1  3/3  not present edox Matrix Mucky Minera Bleyed Matrix ark Surface d Dark Surface d Dark Surface el Dark Surface el peressions ains Depres	Mottle % 5 1 20 10 t):	e absence of in ore Lining, M=Matrees  Type C C C C C C	Location M M M M	CCCCL  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	CE Soils <sup>1</sup> CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: w-155n45w28-b1
<b>VEGETATIO</b>	` '	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	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)
					Total Number of Dominant Species Across All Strata(D)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $\frac{30}{30}$ $\frac{1}{30}$ $\frac{30}{30}$
	Total Cover =	0			FACW spp. $\frac{56}{56}$ $\times 2 = \frac{112}{112}$
			<del></del>		FAC spp. ${21}$ $\times$ $3 = {63}$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.	Citatam (1 lot 3/26. 10 it. radias)				IIPI enn 0 x 5 - 0
2.					Total % Cover of:         Multiply by:           OBL spp.         30         X 1 =         30           FACW spp.         56         X 2 =         112           FAC spp.         21         X 3 =         63           FACU spp.         0         X 4 =         0           UPL spp.         0         X 5 =         0
3.					Total 107 (A) 205 (B)
4.					
5.					Prevalence Index = B/A = 1.916
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 *
	10101 00001 =		<del>_</del>		
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)			E4 0)4/	Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	50	Y	FACW	
2.	Scirpus cyperinus	30	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Solidago gigantea	20	N	FAC	present, unless disturbed or problematic.
4.	Poa palustris	5	N	FACW	Definitions of Vegetation Strata:
5.	Helenium autumnale	1	N	FACW	
6	Rudbeckia laciniata	1	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9.					Sapinig/Siliub - Woody plants less than 5 in. DBH, Tegardiess of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	107			
	10.01 -		_		
Woody Vino St	tratum (Plot size: 30 ft. radius)				
1	.iatum (i iot size. 30 it. iaulus)				
<u> </u>					
2.					Hadranda da Waratada Barra N
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =				
Remarks:	A riparian wet meadow community dominate	ed by reed	canary gra	iss and wo	pol-grass and located in an existing pipeline corridor.
		•	, 0		
A al aliti 1 =	Damanila.				
Additional F	kemarks:				