## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14
Applicant:				Outro view (MIDA en I						County:	Pennington
Investigators		BEH/NTT			Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I62A Talf		aal Daliafu		I Classification:	·		- Canada Baint	154n44w29 d4		
Landform: Slope (%):	3 - 7%		Latitude: 48.12		cal Relief: Longitude:		12162	Datum	•	Sample Point	u-154n44w28-d1
		onditions on the site						✓ Ves	□ No	Section:	
Are Vegetation			significantly		<b>λΙ:</b> (ΙΙ 110, <del>Ε</del> ΛΓ	1	e normal circun			Township:	
Are Vegetation			□aturally pro			/ //	✓ Yes		Coont:	Range:	Dir:
SUMMARY C			production production	biomatio.			_ 100	- 110		range.	<b>5</b> 11.
Hydrophytic \			No					Hvdric Soi	Is Present?	<sup>o</sup> No	
Wetland Hyd	•		No		-					nt Within A W	etland? <b>No</b>
Remarks:		ple point in a grass		ield, upslope	from a wi	llow-don	ninated depres		J		
	•			, , ,			•				
<b>HYDROLOG</b>	Υ										
		icators (Check all t	that annly: Mi	nimum of or	e nrimary	or two se	econdary requi	red):			
Primary:		icators (Check an i	triat apply, ivii	minum or or	e primary	OI TWO SE	econdary requi	ieu).	Secondary		
<u>- 11111a. y.</u>	A1 - Surface	Water			B11 - Salt (	Crust				<u>.</u> B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	
	B1 - Water M B2 - Sedimer				C2 - Dry Se		iter Table spheres on Living	Roots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•					duced Iron	rtoots (not the			n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			C7 - Thin N	/luck Surfa	ace			D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu	
		on Visible on Aerial Ima tained Leaves	agery							D7 - Frost-Hea	aved Hummocks (LRR F)
	ba - water-S	tailled Leaves									
Field Observ	vations:										
Surface Wate		Yes □	Donth		(in )						
Water Table		Yes	Depth Depth		_ (in.) _ (in.)			Wetland H	Hydrology	Present?	N
Saturation Pr		Yes $\square$	Depth		- (in.)						<del></del>
	COCITE.	-	Борин		()						
D				'alabataa	<u> </u>	(' \	'C 'U - L - L -				
	`	stream gauge, monito				ections),	if available:				
Describe Reco	`	stream gauge, monito or secondary hydro				ections),	if available:				
Remarks:	`					ections),	if available:				
Remarks:	No primary	or secondary hydro	ological indica	tors were ob	served.			ndicators )			
Remarks:  SOILS Profile Descri	No primary ption (Descr	or secondary hydro	ological indica	itors were ob	eserved.	onfirm the	e absence of ir				
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Remarks:  SOILS Profile Descri	No primary ption (Descr	or secondary hydro	ological indica	itors were ob	eserved.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks:  SOILS Profile Descri	No primary ption (Descr	or secondary hydro ibe to the depth nee etion, RM=Reduced Mat	ological indica	itors were ob	cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concen	No primary ption (Descr	or secondary hydro ibe to the depth nee etion, RM=Reduced Mat  Matrix Color (Moist)	eded to docur	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent	No primary  ption (Descr	or secondary hydro ibe to the depth nee etion, RM=Reduced Mat  Matrix Color (Moist)	eded to docur	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	No primary  ption (Descriptration, D=Depl	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1 3/1	eded to docur trix, CS=Covered	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL	gravel fragments	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12	No primary  ption (Description, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_5Y	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1 3/1	eded to docur trix, CS=Covered % 100 100	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL	gravel fragments	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-10 10-12	No primary  ption (Description, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_5Y	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1 3/1	eded to docur trix, CS=Covered % 100 100	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr	ix)	SCL	gravel fragments	Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-10 10-12 12-20	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_5Y  Hue_10YR	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/1  8/1	eded to docur trix, CS=Covered % 100 100	ment the indi	cator or co	Mottle	e absence of ir ore Lining, M=Matr	ix)	SCL	gravel fragments	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_5Y  Hue_10YR	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/1  8/1	eded to docur trix, CS=Covered % 100 100	ment the indi	cator or co	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	SCL SCL C	gravel fragments	,
Remarks:  SOILS Profile Descri (Type: C=Concent)  Depth (In.) 0-10 10-12 12-20	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_5Y Hue_10YR	or secondary hydro  ibe to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/1  8/1	eded to docur trix, CS=Covered % 100 100	ment the indi	cator or co Grains; Locat Moist)	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	SCL SCL C		,
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	Ption (Description, Depoint Intration, Depoint Intr	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (checking the content of t	eded to docur trix, CS=Covered % 100 100	ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist)  not present	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL SCL C Indicators: A9 - 1 cm N A16 - Coast	for Problemation  Muck (LRR I, J)  t Prairie Redox	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	No primary  ption (Descriptration, D=Depletration, D=Depletrat	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (checking the stice)	eded to docur trix, CS=Covered % 100 100	ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist)  Moist)  not present	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	SCL SCL C Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  the Prairie Redox (contract (LRR G))	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	Ption (Descriptration, D=Deplementation, D=Deple	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (checking stice in Sulfide)	eded to docur trix, CS=Covered % 100 100 100 eck here if ind	ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy 0	cator or co Grains; Locat Moist)  Moist)  not present edox Matrix Mucky Minera	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	SCL SCL C Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I	for Problemation  Muck (LRR I, J)  t Prairie Redox (curface (LRR G))  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	hue_10YR Hue_5Y Hue_10YR Hue_10YR Hue_5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (check in Sulfide I Layers (LRR F)	eded to docur trix, CS=Covered  100 100 100  ceck here if inc	ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or co Grains; Locat Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix Matrix	Mottle  Mottle  kion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	SCL SCL C Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce	for Problemation  Muck (LRR I, J)  t Prairie Redox (curface (LRR G)  Plains Depression  ced Vertic	c Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (check in Sulfide I Layers (LRR FGH)	eded to docur trix, CS=Covered    %	ment the indid/Coated Sand  Color (  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D	cator or co Grains; Locat Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix Matrix Matrix eark Surface	mottle  Mottle  %  t):	e absence of in ore Lining, M=Matr es Type	Location	SCL SCL C Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F	for Problemation  Muck (LRR I, J)  t Prairie Redox (curface (LRR G)  Plains Depression  Plains Depression  Parent Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1 3/1 8/1  Indicators (checking stice in Sulfide in Sulfide in Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	eded to docur trix, CS=Covered    %	dicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Bleyed Matrix ark Surface I Dark Surface	Mottle % tion: PL=Po	e absence of inore Lining, M=Matres  es  Type	Location	SCL SCL C Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  t Prairie Redox (curface (LRR G)  Plains Depression  ced Vertic	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (check in Sulfide	eded to docur trix, CS=Covered % 100 100 100 eck here if ind	dicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Bleyed Matrix ark Surface I Dark Surface	Mottle % tion: PL=Po	e absence of inore Lining, M=Matres  es  Type	Location	SCL SCL C Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expl	for Problemation  Muck (LRR I, J)  It Prairie Redox (curface (LRR G)  Plains Depression  Ced Vertic  Parent Material  If 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=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	ption (Descriptration, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	or secondary hydro  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (check in Sulfide	eded to docur trix, CS=Covered % 100 100 100 eck here if ind	dicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Bleyed Matrix ark Surface I Dark Surface	Mottle % tion: PL=Po	e absence of inore Lining, M=Matres  es  Type	Location	SCL SCL C  Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemation  Muck (LRR I, J)  It Prairie Redox ( Furface (LRR G)  Plains Depression  Ced Vertic  Parent Material  Y Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-12 12-20  NRCS Hydri	ption (Descriptration, D=Depleteration, D=Depleteration) Hue_10YR Hue_5Y Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleteration A11 - Depleteration S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary hydro  ibe to the depth need etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  8/1  Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface fucky Mineral Mucky Peat or Peat (LRR cky Peat or Peat (LRR leyed Matrix	eded to docur trix, CS=Covered % 100 100 100 eck here if ind	dicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix ark Surface I Dark Surface pressions ains Depres	Mottle % tion: PL=Po	e absence of inore Lining, M=Matres  Type	Location	SCL SCL C Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemation  Muck (LRR I, J)  It Prairie Redox ( Furface (LRR G)  Plains Depression  Ced Vertic  Parent Material  Y Shallow Dark Stain in Remarks)	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-154n44w28-d1				
<b>VEGETATIO</b>	(Species identified in all uppercase	e are 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: 1 (A)				
3.					(, , ,				
		1			Total Neverbour of Dansie and Occasion Associated Assoc				
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.	<u>'</u>				Prevalence Index Worksheet				
9.					4				
	_	<u> </u>							
10.					OBL spp. 0				
	Total Cove	er = <u> </u>	FACW spp. $5   x 2 = 10$						
					FAC spp. $30$ $x 3 = 90$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $30$ $x = 4$ $120$ UPL spp. $55$ $x = 5$ $275$				
1.		*			UPL spp. $\frac{55}{}$ $x = \frac{275}{}$				
2.	<u>'</u>	1			<u> </u>				
3.	_				Total 120 (A) 495 (B)				
		#			Total 120 (A) 495 (B)				
4.									
5.					Prevalence Index = B/A = 4.125				
6.		1							
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cove	r = <u> </u>	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	55	Υ	UPL					
2.	Solidago gigantea	20	Y	FAC	* Indicators of hydric soil and wetland hydrology must be				
					present, unless disturbed or problematic.				
3.	Poa pratensis	20		FACU					
4.	Helianthus giganteus	5	N	FAC	Definitions of Vegetation Strata:				
5.	Cirsium arvense	5	N	FACU					
6	Equisetum hyemale	5	N	<b>FACW</b>	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Zizia aurea	5	N	FAC	height (DBH), regardless of height.				
8.	Fragaria virginiana	5	N	FACU	1				
	Fragana virginiana		- 11	17100	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Sapling/Snrub - Woody plants less than 3 m. DBH, regardless of height.				
10.									
11.									
12.				-	<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.					1				
15.	1				Woody Vines - All woody vines, regardless of height.				
15.					Woody Vines - All Woody Vines, Tegardless of Height.				
	Total Cove	r = <u>120</u>							
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cove	r = 0							
Remarks: Field is dominated by smooth brome, late goldenrod, and Kentucky bluegrass.									
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Additional Remarks:									