WETLAND DETERMINATION DATA FORM Great Plains Region

Project30ies L3R												
Investigators: EBDOL Subregion (MLRA or LRR); MLRA 66 State: MM Coll Unit: Tead. Load Relief. LL NWL (Classification: PEAM) State: MM Landom: Tead. Coll RR in the exponention of the state of 7.00.055 (Classification: PEAM) Data: State: MM Active State of Tead. Data: Active State of Tead. Data: State: Torrentp:												
Soil Unit: 1004 Local Relef: LL Sample Point: Local Relef: LL Stop: 0.2% castle the point of the site hyped for this line of year? Local Relef: LL Sample Point: Local Relef: LL Stop: 0.5% 0.2% castle the point of this line of year? Viet normal diversationce present? No Are Vegetation 1.501 Der hydrology guintanty disturbed? Viet normal diversationce present? No Remarks: The sampling Point No Hydri: Sols Present? No Westand Hydrology Indicators (Check all that apply. Minimum of one primary or two secondary required): Secondary Secondary Image: 0.1 911.58 Check all that apply. Minimum of one primary or two secondary required): Secondary Image: 0.1 911.58 Check all that apply. Minimum of one primary or two secondary required): Secondary Image: 0.1 911.58 Check all that apply. Minimum of one primary or two secondary required): Secondary Image: 0.1 911.58 Check all that apply. Minimum of one primary or two secondary required): Secondary Image: 0.1 911.58 Check all that apply. Minimum of one primary or two secondary required): Secondary required (No Ansee Ansee Ansee Ansee Ansee												
Landom: Grit Local Relief:			LEB/DGL								State:	MN
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A2- High Water Table B13-Aquatic Fana B16 B16 B10			Water			B11 - Salt C	Crust				B6 - Surface S	Soil Cracks
B1 - Water Marks C2 - Dry Season Water Table C3 - Oxidized Phitospheres on Living Roots (initility C3 - Oxidized Phitospheres on Living Roots (initility C3 - Oxidized Phitospheres on Living Roots (initility C3 - Statistic Phitospheres on Living Roots (initial Phitospheres on Living Roots (IRR P) Field Observations: Depth:		A2 - High Wa	ter Table									
B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Lxing Roots (not life B3 - Algal Mat or Crust C3 - Oxidized Rhizospheres on Lxing Roots (not life B4 - Algal Mat or Crust C3 - Oxidized Rhizospheres on Lxing Roots (not life B5 - Find Opposite C4 - Presend of Reduced Integery B7 - Inundation Visible on Aerial Imagery C7 - Thin Muck Surface B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Inundation Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Standon Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B7 - Standon Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B8 - Algal Mater Standon Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery B8 - Algal Mater Standon Visible on Aerial Imagery C9 - Standon Visible on Aerial Imagery Depth (Int) C9 - Oxider Aeria Aer												
B3 - Dritt Deposits						C2 - Dry Se C3 - Oxidize	ed Rhizosn	oheres on Living	Roots (not till			
Bs - Iron Deposits Defrer (Explain) D5 - FAC-Neithel Test Brief Observations: Defrer (Explain) D7 - Frost-Heaved Hummocks (LRR F) Surface Water Present? Yes Deptr:						C4 - Preser	nce of Red	uced Iron				
B7 - Inurdiation Visible on Aniral Imagery B7 - Frost-Heaved Hummocks (LRR F) B7 - Nutaction Visible on Aniral Imagery B7 - Frost-Heaved Hummocks (LRR F) Sufface Water Present? Yes Deptr:								ce				
B9 - Water -Stained Leaves Depth:				0000		Other (Expl	ain)					
Field Observations: Surface Water Present? Yes Depth:				lagery						-	D7 - FIOSI-FIE	aved Hummocks (LKK F)
Surface Water Present? Yes Depth: (in.) Wetland Hydrology Present? N Water Table Present? Yes Depth: (in.) (in.) Wetland Hydrology Present? N Survation Present? Yes Depth: (in.) (in.) Wetland Hydrology Present? N Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections). If available: Remarks: No N Remarks: No primary or secondary indicators of wetland hydrology were observed. SOILS P Porfile Describte to the depth needed to document the indicator or confirm the absence of indicators.) Crocentration. D=Depletion. RM-Reduced Matrix, CS=Covered/Coated Sand Grains, Location PL=Pore Lining, M=Matrix) Texture Remarks Depth (in.) Matrix Mottles Texture Remarks 0-6 Hue_10YR 4/2 100 SCL Image: CL 0-6 Hue_10YR 4/2 100 SCL Image: CL Image: CL 0-7 A1 Histoped Matrix SS Sandy Redox SS Sandy Redox SA Sandy Redox (LRR F, G, H) SA Sandy Redox												
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A12 - Thick Dark Surface F8 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Other (Explain in Remarks) S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? N	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr U	No primary ption (Descr tration, D=Depl Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hii A4 - Hydroge A5 - Stratified	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to docum atrix, CS=Covered % 100 100 eeck here if ind	icators are I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	were observed icator or co Grains; Locati Moist) Moist) not present Redox Mucky Minera Sleyed Matrix d Matrix	mfirm the ion: PL=Por Mottles	absence of in re Lining, M=Matr s Type		SICL CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic	<u>c Soils1</u> (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 ruless disturbed or problematic. Restrictive Layer Type: Depth: Depth: Hydric Soil Present?N	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr U U U U U U U U U U U U U	No primary ption (Descr htration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docum atrix, CS=Covered % 100 100 eck here if ind	icators are I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depletec F6 - Redox D	vere observerses icator or co Grains; Locati Moist) Moist) not present Redox I Matrix Jucky Minera Sleyed Matrix Dark Surface	nfirm the ion: PL=Por Mottlee %	absence of in re Lining, M=Matr s Type	Location	SICL CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic arent Material	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
Image: S3 - 5 cm Mucky Peat or Peat (LRR F) 1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Image: S4 - Sandy Gleyed Matrix Depth: Hydric Soil Present? N	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 10 10 10 10 10 10 10 10 10 10 10 10 10	eded to docum atrix, CS=Covered % 100 100 100 ee	icators are i S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	were observed icator or co Grains: Locati Moist) Moist) not present Redox I Matrix Mucky Minera Gleyed Matrix J Matrix J Matrix J Matrix J Matrix J Matrix J Dark Surface d Dark Surface	mirm the tion: PL=Por Mottles	absence of in re Lining, M=Matr s Type		SICL CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic varent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
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	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic EF A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF	eeded to docum atrix, CS=Covered % 100 100 100 ee e RR G, H)	icators are i S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	were observed icator or co Grains: Locati Moist) Moist) not present Redox I Matrix Mucky Minera Gleyed Matrix J Matrix J Matrix J Matrix J Matrix J Matrix J Dark Surface d Dark Surface	mirm the tion: PL=Por	absence of in re Lining, M=Matr s Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic rarent Material Shallow Dark S in in Remarks)	<mark>c Soils1</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
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Remarks: No hydric soil indicators were observed. The soil is highly compacted throughout the profile.	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF	eeded to docum atrix, CS=Covered % 100 100 100 ee e RR G, H)	icators are I S5 - Sandy R F3 - Schedard S F3 - Schedard S F3 - Depleter F3 - Depleter F6 - Redox E F7 - Depleter F8 - Redox E F1 - Loamy N F2 - Loamy O F3 - Depleter F8 - Redox E F1 - High Pl	Were observed of the second se	mirm the tion: PL=Por	absence of in re Lining, M=Matr s Type Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F18 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic rarent Material Shallow Dark S in in Remarks)	<mark>c Soils1</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR feyed Matrix	eeded to docum atrix, CS=Covered % 100 100 100 ee e RR G, H) R F)	icators are i S5 - Sandy R S6 - Stripped F7 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl Depth:	vere observerses	Infirm the control PL=Port	A 72, 73 of LRF	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F18 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic rarent Material Shallow Dark S in in Remarks)	<mark>c Soils1</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR feyed Matrix	eeded to docum atrix, CS=Covered % 100 100 100 ee e RR G, H) R F)	icators are i S5 - Sandy R S6 - Stripped F7 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D F16 - High Pl Depth:	vere observerses	Infirm the control PL=Port	A 72, 73 of LRF	Location	SICL CL Indicators ff A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic rarent Material Shallow Dark S in in Remarks)	<mark>c Soils1</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-c1
VEGETATIO	N (Species identified in all uppercase ar Plot size: 30 ft. radius)	e non-native	species.)		
The official (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 5 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7. 8.	<u> </u>				Prevalence Index Worksheet
о. 9.					
9. 10.					Total % Cover of: Multiply by: OBL spp. 5 x 1 = 5
10.	Total Cover =	0			FACW spp. 5 x 2 = 10
					FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 70 x 4 = 280
1.	, , , , , , , , , , , , , , , , , , , ,				UPL spp. 20 x 5 = 100
2.					
3.					Total 100 (A) <u>395</u> (B)
4.					
5.					Prevalence Index = B/A = <u>3.950</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation
10.	Total Cover =	0			Dominance Test is > 50% Prevalence Index is < 3.0 *
		0			Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phleum pratense	25	Y	FACU	
2.	Bromus inermis	20	Y	UPL	* Indicators of hydric soil and wetland hydrology must be
3.	Trifolium hybridum	15	Y	FACU	present, unless disturbed or problematic.
4.	Fragaria virginiana	15	Y	FACU	Definitions of Vegetation Strata:
5.	Taraxacum officinale	15	Y	FACU	
6	Symphyotrichum lanceolatum	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Carex pellita	5	N	OBL	height (DBH), regardless of height.
8.				-	O ,
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10. 11.				-	
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.				-	
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.	1				
4.	T-1-1-0	•			
Remarks:	Total Cover = The vegetation is dominated by non-hydroph		e The arc	a has bo	an moderately grazed
itendiks.	The vegetation is commated by non-flydropr	iyuc specie	s. me ale	a nas Det	an moueralery yrazeu.
Additional R	emarke.				
Additional R	Gillal N3.				