## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date: County:	08/07/14	
Applicant:										Marshall	
Investigators				Subregion (MLRA or LRR): MLRA 56					State:	MN	
Soil Unit:	I15A				and Dalinty C	NWI Classification:				w 155p15w20 b1	
Landform: Slope (%):	Depression 0 - 2%		Latitude: 48.2		cal Relief: C	96.46611139	Datum:		Sample Point:	w-155n45w20-b1	
		onditions on the site					✓ Vatum.	□ No	Section:		
		I □, or Hydrology			ar: (II flo, explai				1		
Are Vegetation  Are Vegetation	•	, ,	•	•		Are normal circu ☑ Yes	-	esent?	Township:	Dir:	
SUMMARY C			Haturally pi	oblematic:		<u> </u>	□ INO		Range:	ЫI.	
			Yes				Hydric Soi	le Present?	Voc		
Hydrophytic Vegetation Present? Wetland Hydrology Present?					_		Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes				
Remarks:			Yes Yes	located in a d	onression at	the edge of an exist		minated by reed canary grass			
Nemarks.				iocaleu iii a u	epression at	the edge of all exist	ing pipeline c	orridor. ve	getation is do	illilated by feed cariary grass	
HADBOLOG		of other graminoids	and lorbs.								
HYDROLOG											
Primary:	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio B9 - Water-S	Water Iter Table Iter		viinimum oi or	B11 - Salt Cru B13 - Aquatio C1 - Hydroge C2 - Dry Seas C3 - Oxidized	c Fauna en Sulfide Odor son Water Table d Rhizospheres on Livin ee of Reduced Iron ck Surface	ŕ		B6 - Surface S B8 - Sparsely B10 - Drainage C3 - Oxidized C8 - Crayfish E C9 - Saturation D2 - Geomorp D5 - FAC-Neur	Vegetated Concave Surface Patterns Rhizospheres on Living Roots (tilled) Burrows No Visible on Aerial Imagery Chic Position	
Surface Water		Voc. □	Dont	th	(in )						
Water Table		Yes □ Yes □	Dept	tn: th:	_ (in.) _ (in.)		Wetland F	lydrology l	y Present? Y		
Saturation Pr		Yes	Dept		_ (in.) _ (in.)					<del>_</del>	
Saturation	1636111:	100	DEN	u i.							
	<del></del>		<u> </u>								
	<u> </u>	stream gauge, moni	toring well, a	erial photos, pi	revious inspec	·					
Describe Reco	<u> </u>	stream gauge, moni	toring well, a	erial photos, pi	revious inspec	ctions), if available: I the presence of hyd	drophytic veg	etation.			
Remarks:	<u> </u>	stream gauge, moni	toring well, a	erial photos, pi	revious inspec	·	drophytic veg	etation.			
Remarks:	Hydrology i	stream gauge, moni s indicated by the I	toring well, acocation withi	erial photos, pi in a depressio	revious inspec onal area and	I the presence of hyd	, , ,	etation.			
Remarks:  SOILS Profile Descri	Hydrology is	stream gauge, moni s indicated by the I ibe to the depth ne	toring well, according withing	erial photos, pi in a depression	revious inspectonal area and icator or conf	I the presence of hyd	indicators.)	etation.			
Remarks:  SOILS Profile Descri	Hydrology is	stream gauge, moni s indicated by the I ibe to the depth ne	toring well, according withing	erial photos, pi in a depression	revious inspectonal area and icator or conf	I the presence of hyd	indicators.)	etation.			
Remarks:  SOILS Profile Descri	Hydrology is	stream gauge, moni s indicated by the I ibe to the depth ne letion, RM=Reduced Ma	toring well, according withing	erial photos, pi in a depression	revious inspectonal area and icator or conf	I the presence of hyd firm the absence of n: PL=Pore Lining, M=Ma	indicators.)	etation.			
Remarks:  SOILS Profile Descri (Type: C=Concer	Hydrology is	stream gauge, moning indicated by the last indicated by the last ibe to the depth network etion, RM=Reduced Matrix	toring well, accation withing well, accation withing well, accepted to documents, CS=Cover	erial photos, pi in a depression ument the induced/Coated Sand	revious inspectonal area and icator or conf	firm the absence of hydric presence of hydric presence of his PL=Pore Lining, M=Ma	indicators.)			Remarks	
Remarks:  SOILS Profile Descri	Hydrology is	stream gauge, moni s indicated by the I ibe to the depth ne letion, RM=Reduced Ma	toring well, according withing	erial photos, pi in a depression ument the induced/Coated Sand	revious inspectonal area and icator or conf	I the presence of hyd firm the absence of n: PL=Pore Lining, M=Ma	indicators.)	etation.  Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descr	stream gauge, moni s indicated by the I ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docu	erial photos, prin a depression and	revious inspectonal area and icator or conference (Moist)	firm the absence of hydric presence of hydrogen firm the absence of his PL=Pore Lining, M=Ma  Mottles  Type	indicators.)			Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descrintration, D=Deplementation, D=Deplementation)  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplementation A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	ibe to the depth ne etion, RM=Reduced Matrix  Color (Moist)  Indicators (characters)  Sipedon Stic (Characters)  All Layers (LRR F)  Color (LRR FGH)  Color (LR	eded to docuatrix, CS=Cover	crial photos, property in a depression of the independent the independent the independent of the independent	revious inspectonal area and icator or conference (Moist)  (Moist)  Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface d Dark Surface Depressions	firm the absence of hydric plants of the presence of hydric plants	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	ed Vertic Parent Material Shallow Dark S ain in Remarks)	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.)	iption (Descrintration, D=Depleter A1- Histosol A2 - Histic Epic A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick District Canada Miscript Canada Miscr	ibe to the depth ne etion, RM=Reduced Matrix  Color (Moist)  Indicators (characters)	eded to docuatrix, CS=Cover	crial photos, property in a depression of the indicators are  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F F1 - Loamy F F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F F1 - Loamy F	revious inspectonal area and icator or conference (Moist)  (Moist)  (Moist)  not present):  Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface Depressions Plains Depressions	firm the absence of hyden: PL=Pore Lining, M=Ma  Mottles % Type  Dons (MLRA 72, 73 of LR	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 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 Ain 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.)	iption (Description, Depoint attains, and attains,	ibe to the depth ne etion, RM=Reduced Matrix  Color (Moist)  Indicators (characters)  Indicators	eded to docu atrix, CS=Cover	crial photos, property in a depression of the independent to a color (in	revious inspectonal area and icator or confunctions; Location (Moist)  (Moist)  not present): Redox d Matrix Mucky Mineral Gleyed Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface Depressions Plains Depressions	firm the absence of hydric Section in the absence of his PL=Pore Lining, M=Market Mottles  Mottles  Type  Hydric S	Location    Continue	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sc 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 ain in Remarks)  hydrophytic vegetat red 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: w-155n45w20-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: 4 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 5 (B)					
5.					Total Nambel of Bollinian Openies / to coo / in Citata.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp22					
	Total Cover =	0			FACW spp. $\frac{76}{}$ $\times 2 = \frac{152}{}$					
			<del>_</del>		FAC spp. 20 x 3 = 60					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{25}{}$ $x = 4 = \frac{100}{}$					
1.	Salix interior	20	Y	FACW	UPL spp. $0 \times 5 = 0$					
2.	Jana III. Grior	20		171000	0, 2 opp					
3.					Total 142 (A) 224 (D)					
					Total 143 (A) 334 (B)					
4.										
5.					Prevalence Index = B/A = 2.336					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover =	20			X Prevalence Index is ≤ 3.0 *					
	10101 -		<del></del>							
	(D)				Morphological Adaptations (Explain) *					
	(Plot size: 5 ft. radius)			E4 0)4/	Problem Hydrophytic Vegetation (Explain) *					
1.	Phalaris arundinacea	40	Y	FACW						
2.	Solidago gigantea	20	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be					
3.	Scirpus atrovirens	20	Υ	OBL	present, unless disturbed or problematic.					
4.	Lotus comiculatus	20	Y	FACU	Definitions of Vegetation Strata:					
5.	Agrostis gigantea	10	N	FACW						
6	Cirsium arvense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Carex retrorsa	2	N	OBL	height (DBH), regardless of height.					
8.	Verbena hastata	2	N	FACW						
9.		2	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
	Carex projecta				Sapinig/Sinub - Weesly Plante less than 2211, Tegan alless of Helighti					
10.	Mentha arvensis	2	N	FACW						
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 =	123								
	. 3.4. 33731 –									
Woody Vine St	tratum (Plot size: 30 ft. radius)									
1	Tatam (Flot 5120. 55 ft. faulus)									
2.										
					Undrambatic Venetation Decree (2)					
3.					Hydrophytic Vegetation Present?Y					
5.										
4.										
	Total Cover =									
Remarks:	Vegetation is dominated by reed canary gras	sh, and bird's-foot trefoil.								
Additional !	Pomarke:									
Additional Remarks:										
1										
4										