WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/13/14				
Applicant:	-				Subregion (MLRA or LRR): MLRA 56					County: Pennington				
Investigators Soil Unit:	I75A	BEH/MRK/RAJ				•	I Classification:	MLRA 56	State: <u>MN</u>					
Landform:	Talf	cal Relief:				Sample Point: u-154n44w31-	-g1							
Slope (%):	0 - 2%		Latitude: 48.1		Longitude: -96.35788063 Datum:]				
	•	onditions on the sit			ar? (If no, exp	1		☑ Yes	□ No	Section:				
Are Vegetati		I ☑, or Hydrology	•	y disturbed?		Are	e normal circum	-	esent?	Township:				
Are Vegetatio		I □, or Hydrology	Daturally pr	oblematic?			☑ Yes	□ No		Range: Dir:				
SUMMARY OF FINDINGS Hydrophytic Vegetation Present?														
	Iydrophytic Vegetation Present? No Vetland Hydrology Present? No						Hydric Soils Present? No Is This Sampling Point Within A Wetland? No							
Remarks:				ed gravel pit.	The sampl	e point is	s located above							
Remarks: Upland sample point in a sparsely vegetated gravel pit. The sample point is located above an excavated wetland.														
HYDROLOG	Y													
Wetland Hy	drology Ind	icators (Check all	l that apply; N	linimum of on	e primary	or two se	econdary requir	ed):						
Primary	<u>:</u>	·	11.						<u>Secondary</u> □					
	A1 - Surface A2 - High Wa				B11 - Salt (B13 - Aqua			B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave	- Surface					
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns	e Sunace			
	B1 - Water M				C2 - Dry Se	eason Wa	ater Table			C3 - Oxidized Rhizospheres on Li	iving Roots (tilled)			
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till	є П	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial II	magery			
	B4 - Algal Ma				C7 - Thin M					D2 - Geomorphic Position	magery			
	B5 - Iron Dep	osits			Other (Exp	olain)				D5 - FAC-Neutral Test				
		on Visible on Aerial In tained Leaves	nagery							D7 - Frost-Heaved Hummocks (L	.RR F)			
Field Obser	vations:													
Surface Wat	_	Yes 🛛	Dept	h:	(in.)			Motiond L	h dralogy	Bracento N				
Water Table	Present?	Yes 🛛	Dept		(in.)			Wetland	lydrology	Present? N				
Saturation P	resent?	Yes 🛛	Dept	h:	(in.)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
		stream gauge, mon	ittoring well, ac	rial photos, pro	evious insp	pections),	if available:							
Remarks:	•	or secondary hydi	<u> </u>			pections),	if available:							
Remarks:	•		<u> </u>			pections),	if available:							
Remarks: SOILS	No primary	or secondary hydi	rological indic	ators were ob	oserved.			dicators)						
Remarks: SOILS Profile Descri	No primary		rological indic	ators were ob	cator or co	onfirm th	e absence of in							
Remarks: SOILS Profile Descri	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M	rological indic	ators were ob	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matri							
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix	rological indic eeded to docu latrix, CS=Cover	ators were ob iment the indi	cator or co Grains; Locat	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matri	ix)						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	rological indic eeded to docu latrix, CS=Cover %	ators were ob Iment the indi ed/Coated Sand (Color (cator or co Grains; Locat	onfirm th tion: PL=P	e absence of in ore Lining, M=Matri		Texture	Remarks				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2	rological indic eeded to docu latrix, CS=Cover % 100	ators were ob ment the indi ed/Coated Sand (Color (1	cator or co Grains; Locat Moist)	onfirm the tion: PL=P Mottle	e absence of in ore Lining, M=Matri es Type	Location	FS	abundant pebbles				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second	rological indic eeded to docu latrix, CS=Cover % 100 97	ators were ob iment the indi ed/Coated Sand (Color (1 Hue_10YR	cator or co Grains; Locat Moist)	onfirm the tion: PL=P Mottle %	e absence of in ore Lining, M=Matri es Type C	Location	FS FS					
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2	rological indic eeded to docu latrix, CS=Cover % 100	ators were ob iment the indi ed/Coated Sand (Color (Hue_10YR Hue_10YR	cator or co Grains; Locat Moist) 5/8 6/8	onfirm the tion: PL=P Mottle % 3 12	e absence of in ore Lining, M=Matri es Type C C	Location M M	FS FS FS	abundant pebbles				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second	rological indic eeded to docu latrix, CS=Cover % 100 97 85	ators were ob ment the indi ed/Coated Sand (Color (1) Hue_10YR Hue_10YR Hue_10YR	Moist)	onfirm the tion: PL=P Mottle % 3 12 3	e absence of in ore Lining, M=Matri es Type C C C	Location M M M M	FS FS FS FS	abundant pebbles abundant pebbles				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second and hydronic second	rological indic eeded to docu latrix, CS=Coverd 100 97 85 90	ators were ob ment the indi ed/Coated Sand (Color (1 Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR	Acator or co Grains; Locat Moist) 5/8 6/8 5/6 3/4	onfirm the tion: PL=P Mottle % 3 12 3 10	e absence of in ore Lining, M=Matri es Type C C C	Location M M M M	FS FS FS FS	abundant pebbles abundant pebbles				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16	No primary	or secondary hydronic secondary hydronic secondary hydronic secondary hydronic second and hydronic second	rological indic eeded to docu latrix, CS=Coverd 100 97 85 90	ators were ob ment the indi ed/Coated Sand (Color (1) Hue_10YR Hue_10YR Hue_10YR	Acator or co Grains; Locat Moist) 5/8 6/8 5/6 3/4	onfirm the tion: PL=P Mottle % 3 12 3 10	e absence of in ore Lining, M=Matri es Type C C C C	Location M M M M	FS FS FS FS	abundant pebbles abundant pebbles				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16 NRCS Hydr	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2 6/3 8/2 5/8 Indicators (ch	rological indic eeded to docu latrix, CS=Coverd % 100 97 85 90 heck here if ir	ators were ob iment the indi ed/Coated Sand (Color (1 Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR dicators are r	edox Matrix	onfirm the tion: PL=P Mottle % 3 12 3 10 t):	e absence of in ore Lining, M=Matri es Type C C C C	Location M M M M	FS FS FS FS Modicators A9 - 1 cm M A16 - Coast	abundant pebbles abundant pebbles oxidized iron for Problematic Soils ¹ luck (LRR I, J) Prairie Redox (LRR F, G, H)				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16 NRCS Hydr	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2 6/3 8/2 5/8 Indicators (ch bipedon stic n Sulfide Layers (LRR F)	rological indic	ators were ob ment the indi ed/Coated Sand (Color (1) Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Action or co Grains; Locat Moist) 5/8 6/8 5/6 3/4 not present edox Matrix Mucky Minera Gleyed Matrix Matrix	onfirm the tion: PL=P Mottle % 3 12 3 10 t):	e absence of in ore Lining, M=Matri es Type C C C C	Location M M M M	FS FS FS FS Main Stress FS FS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce	abundant pebbles abundant pebbles oxidized iron oxidized iron uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA ced Vertic	72, 73)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16 NRCS Hydr	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2 6/3 8/2 6/3 8/2 1 Indicators (ch bipedon stic n Sulfide 1 Layers (LRR F) ick (LRR FGH)	rological indic	ators were ob ment the indi- ad/Coated Sand (Color (1) Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D	Action or co Grains; Locat Moist) 5/8 6/8 5/6 3/4 not present edox Matrix Mucky Minera Gleyed Matrix Matrix Park Surface	onfirm the tion: PL=P Mottle % 3 12 3 10 t):	e absence of in ore Lining, M=Matri es Type C C C C	Location M M M M M	FS FS FS FS FS Mailed and the second second FS FS FS FS FS FS FS FS FS FS FS FS FS	abundant pebbles abundant pebbles oxidized iron oxidized iron uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA ced Vertic Parent Material	72, 73)			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-1 1-7 7-14 14-16 NRCS Hydr	No primary	or secondary hydr ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/2 6/3 8/2 5/8 Indicators (ch bipedon stic n Sulfide Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral Aucky Peat or Peat (LR bipedon Peat (LR bipedon stic n Sulfide Layers (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral Aucky Peat or Peat (LR bipedon Pinter) bipedon Pint	rological indic eeded to docu latrix, CS=Cover % 100 97 85 90 heck here if ir	ators were ob ment the indi ad/Coated Sand (Color (Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F6 - Redox D F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	Action or co Grains; Locat Moist) 5/8 6/8 5/6 3/4 not present edox Matrix Mucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Gleyed Matrix Jucky Minera Jucky Minera Bleyed Matrix Jucky Minera Jucky Minera Matrix Jucky Minera Jucky Min	onfirm the tion: PL=P Mottle % 3 12 3 10 t): al x ace ssions (ML	e absence of in ore Lining, M=Matri es Type C C C C C C C C C C C C C C C C C C C	Location M M M M M I I I I I I I I I I I I I I	FS FS FS FS FS Indicators FS FS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High H F18 - Reduc TF2 - Red F TF12 - Very Other (Expla ¹ Indicators of H unless disturb N of various	abundant pebbles abundant pebbles oxidized iron oxidized iron for Problematic Soils ¹ luck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA ced Vertic Parent Material Shallow Dark Surface ain in Remarks)	ogy must be present,			

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w31-g1					
		are non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet					
1.		<u>% Cover</u>	<u>Dominant</u>	<u>ma.status</u>						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.										
4.	<u> </u>	1			Total Number of Dominant Species Across All Strata: 2 (B)					
		1								
<u> </u>		1			Percent of Dominant Species That Are ORL EACIAL or EAC: 0.0% (A/B)					
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
8.	<u> </u>	1			Prevalence Index Worksheet					
9.		1								
10.		1			<u>Total % Cover of:</u> <u>Multiply by:</u>					
10.	 Total Cover =	= 0		OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.3x3 =9FACU spp.43x4 =172						
					FAC spp 3 x 3 = 9					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 43 X 4 = 172					
1.					UPL spp. $0 x 5 = 0$					
2.										
3.					Total <mark>46</mark> (A) <u>181</u> (B)					
4.										
5.					Prevalence Index = B/A = 3.935					
6.]								
7.		1								
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	 Total Cover =	= 0			$\frac{1}{2} = \frac{1}{2} $					
Harb Stratum ((Plot cize: Eft. rodius)				Morphological Adaptations (Explain) *					
	Plot size: 5 ft. radius) Melilotus officinalis	20	V	FACU	Problem Hydrophytic Vegetation (Explain) *					
				FACU	* Indicators of hydric soil and wetland hydrology must be					
<u>2.</u> <u>3.</u>	Medicago lupulina	10	 N	FACU	present, unless disturbed or problematic.					
	Salsola kali	5	N	FACU	Definitions of Vegetation Strata:					
<u>4.</u> 5.	Ambrosia artemisiifolia	5	N	FACU	Deminitions of Vegetation Strata.					
<u> </u>	Artemisia biennis		N	FAC						
7.	Panicum capillare	3	IN	FAU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
8.										
	l				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
<u>9.</u> 10.	<u> </u>				Saping/Sinub - Woody plants loss than o in. 2211, Tegaraloss of height.					
11.										
					Herb - All herbaceous (non-woody) plants, regardless of size.					
12. 13.										
13.	1									
14.	1				. Woody Vines - All woody vines, regardless of height.					
10.	Total Cover =	= 46								
	Total Cover =	= 40								
	(Plat alian 20 ft and live)									
	tratum (Plot size: 30 ft. radius)									
2.	1	 								
3.	1				Hydrophytic Vegetation Present?					
<u> </u>	1				Hydrophytic Vegetation Present? N					
<u> </u>	1									
4.	Total Cover =	= 0								
Remarks:	The sample site is dominated by sweetclov		cmedick							
nomarks.	The sample site is commated by SweetClov									
Additional Remarks:										