WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									09/15/14			
Applicant:					0 1 .	/N 41 D 4	County:	Pennington						
Investigators						`	A or LRR):	State:	MN					
Soil Unit: Landform:	IGp Side slope			l o	cal Paliafe		I Classification:	·		Comple Daint	154p44w21_i1			
Slope (%):														
		nditions on the site typic						✓ Yes	□ No	Section:				
Are Vegetation				disturbed?	e normal circun			Township:						
Are Vegetation			-	olematic?			✓ Yes	□ No	0001111	Range:	Dir:			
SUMMARY C			<i>y</i>							g				
Hydrophytic Vegetation Present? Yes Hydric Soils Present? No														
Wetland Hydrology Present?				No			Is This Sampling Poin				etland? No			
Remarks: An upland point in a gravel mining area. The soils and vegetation are disturbed from past gravel mining activities.														
HYDROLOG	Y													
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):														
Primary:		A		_	D44 0 11	•			Secondary:					
□ A1 - Surface Water□ A2 - High Water Table					B11 - Salt B13 - Aqua					B6 - Surface S	Vegetated Concave Surface			
	A3 - Saturatio				C1 - Hydro					B10 - Drainage				
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗀	C8 - Crayfish I				
	B3 - Drift Dep				C4 - Prese C7 - Thin N		educed Iron				n Visible on Aerial Imagery			
	B4 - Algal Mat B5 - Iron Depo				Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu				
		n Visible on Aerial Imagery		_	Othor (Exp	iaii ij					aved Hummocks (LRR F)			
	B9 - Water-St										,			
Field Observ	vations:													
Surface Wate	er Present?	Yes	Depth:		_ (in.)			Wetland F	łydrology	Present?	N			
Water Table		Yes	Depth:		(in.)			Wetland	iyarology	i resent:				
Saturation Present? Yes Depth: (in.)														
			• •		_ ()									
Describe Reco	orded Data (s	stream gauge, monitoring			•	ections),	, if available:							
Describe Reco	·	stream gauge, monitoring	well, aeria	al photos, pr	•	ections),	, if available:							
Remarks:	·		well, aeria	al photos, pr	•	ections),	, if available:							
Remarks:	No indicator	rs of wetland hydrology a	well, aeria	al photos, pr ent.	evious insp			adiantara \						
Remarks: SOILS Profile Descri	No indicator	es of wetland hydrology a	well, aeria	al photos, prent.	evious insp	onfirm th	e absence of ir							
Remarks: SOILS Profile Descri	No indicator	rs of wetland hydrology a	well, aeria	al photos, prent.	evious insp	onfirm th	e absence of ir							
Remarks: SOILS Profile Descri	No indicator	be to the depth needed etion, RM=Reduced Matrix, CS	well, aeria	al photos, prent.	evious insp	onfirm th	e absence of in ore Lining, M=Matr							
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth needed etion, RM=Reduced Matrix, CS	well, aeria	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Matr	rix)	Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth needed etion, RM=Reduced Matrix, CS	well, aeria are prese to docum S=Covered/	al photos, prent.	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr			with pebbles	Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2	No indicator ption (Descri	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2	well, aeria are prese to docum S=Covered % 100	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	Texture LVFS FS	with pebbles with gravel and p				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16	No indicator ption (Descrintration, D=Depleted Hue_10YR Hue_10YR)	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/2 5/4	well, aeria are prese to docum S=Covered 100 100	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	LVFS	with gravel and p	ebbles			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2	No indicator ption (Descri	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/2 5/4	well, aeria are prese to docum S=Covered % 100	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	LVFS FS		ebbles			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16	No indicator ption (Descrintration, D=Depleted Hue_10YR Hue_10YR)	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/2 5/4	well, aeria are prese to docum S=Covered 100 100	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	LVFS FS	with gravel and p	ebbles			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16	No indicator ption (Descrintration, D=Depleted Hue_10YR Hue_10YR)	be to the depth needed etion, RM=Reduced Matrix. Matrix Color (Moist) 2/2 5/4	well, aeria are prese to docum S=Covered 100 100	al photos, prent. nent the individual of the content of the conte	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	LVFS FS	with gravel and p	ebbles			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21	No indicator ption (Descriptration, D=Depleter) Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3	well, aeria are prese to docum S=Covered 100 100 100	al photos, prent. nent the individual of the content of the conte	cator or co	onfirm the	e absence of in ore Lining, M=Matr	rix)	LVFS FS	with gravel and p	ebbles			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21	No indicator ption (Descrintration, D=Depleted Hue_10YR Hue_10YR)	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3	well, aeria are prese to docum S=Covered 100 100 100	al photos, prent. nent the individual of the content of the conte	cator or co	onfirm the	e absence of in fore Lining, M=Matr es Type	rix)	LVFS FS FS	with gravel and p	ebbles ebbles			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/2 5/4 7/3 Indicators (check heigheden)	well, aeria are prese to docum S=Covered 100 100 100 ere if indi	cal photos, prent. nent the individual Coated Sand Color (icators are in the individual Coated Sand	cator or co Grains; Loca Moist) not presen edox Matrix	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	LVFS FS FS Indicators 1 A9 - 1 cm M A16 - Coast	with gravel and powith gravel and	ebbles ebbles c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check heighed)	well, aeria are prese to docum S=Covered 100 100 100 ere if indi	cators are in S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Loca Moist) Moist) not presented a matrix Mucky Miner	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	LVFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	with gravel and positive with gravel and gravel with gravel and gravel with gravel and gravel with gr	ebbles ebbles c Soils ¹ (LRR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/2 5/4 7/3 Indicators (check heads)	well, aeria are prese to docum S=Covered 100 100 100 ere if indi	cal photos, prent. nent the individual Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C	cator or co Grains; Loca Moist) Moist) not presented waterix Mucky Miner	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	with gravel and p with gravel and p with gravel and p for Problemation fuck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	ebbles ebbles c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check heading tick in Sulfide Layers (LRR F)	well, aeria are prese to docum S=Covered 100 100 100 ere if indi	cators are in S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or co Grains; Loca Moist) Moist) not presented with the content of the co	mottl Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduce	with gravel and positive with gravel and gr	ebbles ebbles c Soils ¹ (LRR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/2 5/4 7/3 Indicators (check heads)	well, aeria are prese to docum S=Covered 100 100 100 100 100	cal photos, prent. nent the individual Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C	cator or co Grains; Loca Moist) Moist) not presen edox Matrix Mucky Miner Bleyed Matri I Matrix ark Surface	mottl Mottl w t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	with gravel and p with gravel and p with gravel and p for Problemation fuck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	ebbles c Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check heatic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	well, aeria are prese to docum S=Covered 100 100 100 100 100	cators are in 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; Loca Moist) Moist) oot presen edox Matrix Mucky Miner Gleyed Matri I Matrix eark Surface I Dark Surface epressions	mottl Mottl % t):	e absence of in fore Lining, M=Matr es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	with gravel and positive with gravel and gr	ebbles c Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 M	be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/2 5/4 7/3 Indicators (check has been been been been been been been bee	well, aeria are prese to docum S=Covered 100 100 100 100 100	cators are in 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; Loca Moist) Moist) oot presen edox Matrix Mucky Miner Gleyed Matri I Matrix eark Surface I Dark Surface epressions	mottl Mottl % t):	e absence of interesting the ses	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FF1712 - Very Other (Explain	with gravel and positive with gravel (LRR G) and positive with gravel with gravel and positive with gravel and grav	ebbles c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mue	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check has been been been been been been been bee	well, aeria are prese to docum S=Covered 100 100 100 100 100	cators are in 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; Loca Moist) Moist) oot presen edox Matrix Mucky Miner Gleyed Matri I Matrix eark Surface I Dark Surface epressions	mottl Mottl % t):	e absence of interesting the ses	Location	LVFS FS FS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	with gravel and positive with gravel (LRR G) and positive with gravel with gravel and positive with gravel and grav	ebbles c Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 M	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check has been been been been been been been bee	well, aeria are prese to docum S=Covered 100 100 100 100 100	cators are in 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; Loca Moist) Moist) oot presen edox Matrix Mucky Miner Gleyed Matri I Matrix eark Surface I Dark Surface epressions	mottl Mottl % t):	e absence of interesting the ses	Location	LVFS FS FS Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	with gravel and positive with gravel and gr	ebbles c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-2 2-16 16-21	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mr S2 - 2.5 cm Mr S3 - 5 cm Muc S4 - Sandy Gl	be to the depth needed etion, RM=Reduced Matrix. Color (Moist) 2/2 5/4 7/3 Indicators (check has been been been been been been been bee	well, aeria are prese to docum S=Covered 100 100 100 H)	cators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F1 - High P	cator or congrains; Loca Moist) Moist) Motrix Mucky Miner Gleyed Matrix Matr	Mottl Mottl % t): al x ace ssions (ML	e absence of infore Lining, M=Matroses Type Array of LRF Hydric So	Location	LVFS FS FS Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	with gravel and positive with gravel and gra	ebbles c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,			

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-154n44w31-i1					
VEGETATIO		re non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.	Populus tremuloides	25	Y	FAC						
2.	Populus deltoides	15	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata:6(B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 0					
	 Total Cover =	40	FACW spp. $\frac{10}{10}$ \times $2 = \frac{20}{10}$							
			FAC spp. $\frac{58}{58}$ \times $3 = \frac{174}{174}$							
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{30}{30}$ $\times 4 = \frac{120}{120}$					
1.	Populus tremuloides	10	Υ	FAC	FACU spp. $\frac{30}{20}$ $x = 4 = \frac{120}{100}$ UPL spp. $\frac{20}{20}$ $x = 5 = \frac{100}{100}$					
2.		10	Y	FACW	Vi ε spp X V =					
3.	Salix interior	10	'	IACVV	Total 119 (A) 414 (D)					
					Total 118 (A) 414 (B)					
4.					Dravialanaa Indaa D/A 0.500					
5.					Prevalence Index = B/A = 3.508					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					XDominance Test is > 50%					
	Total Cover =	20	_		Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Bromus inermis	20	Y	UPL						
2.	Oligoneuron rigidum	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Lotus corniculatus	5	N	FACU	present, unless disturbed or problematic.					
4.	Melilotus officinalis	5	N	FACU	Definitions of Vegetation Strata:					
5.	Solidago gigantea	5	N	FAC						
6	Equisetum laevigatum	3	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	queetam tae ngatam			.,,,,	height (DBH), regardless of height.					
8.										
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.					Capining/Cini ab = 12 cost, passes cost season a sea gastare cost cost gastare cost cost gastare					
11.										
					Herb - All herbaceous (non-woody) plants, regardless of size.					
12.					Herb - All herbaceous (hon-woody) plants, regardless of size.					
13.										
14.					A					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	58								
Woody Vine S	tratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.										
4.										
	Total Cover =	0								
Remarks: A sparse plant community dominated by scattered trembling aspen and cottonwood with an herbaceous layer dominated by smooth brome, goldenrods, and										
	weedy legumes. Hydrophytic vegetation is r									
weedy legalities. Trydrophylic vegetation is not present.										
Additional Remarks:										