WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14		
Applicant:											Pennington		
Investigators: NTT/BEH			Subregion (MLRA or LRR): MLRA 56							MN			
Soil Unit:	I46A						'I Classification	າ:					
Landform:	Depression			100000	Local Relie		1=10			Sample Point	w-154n44w28-f2		
Slope (%):	8 - 15%	. P.C	Latitude: 48.			de: -96.314		<u>Datum</u>					
		nditions on the site						✓ Yes	□ No	Section:			
Are Vegetation		□, or Hydrology	•	•		Ar	e normal circui	•	esent?	Township:			
Are Vegetation		□, or Hydrology	□aturally p	roblematic?				□ No		Range:	Dir:		
SUMMARY C			Yes										
Hydrophytic Vegetation Present?									ils Present?				
Wetland Hyd			Yes			1 1 1 11 11 1							
Remarks:	The wetland	l is a scrub-shrub l	located in a	aepression	near a roa	asiae aitcr	n. Dominant ve	egetation inc	ludes mead	ow willow an	d lake sedge.		
HYDROLOG	Y												
•	•	cators (Check all	that apply;	Minimum of	one prima	ry or two s	econdary requ	ired):					
Primary:		•			_ 544 6	l. O			Secondary:				
	A1 - Surface \				□ B11 - Sa					B6 - Surface S			
	A2 - High Wat A3 - Saturatio					juatic Fauna Irogen Sulfic					Vegetated Concave Surface	ļ	
	B1 - Water Ma			 □ C1 - Hydrogen Sulfide Odor □ C2 - Dry Season Water Table □ C3 - Oxidized Rhizospheres on Living Roots (tilled) 								s (tilled)	
	B2 - Sedimen	t Deposits			☐ C3 - Oxidized Rhizospheres on Living Roots (not tilled) ☐ C8 - Crayfish Burrows								
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imagery		
	B4 - Algal Mat					n Muck Surf	ace		☑	D2 - Geomorp			
	B5 - Iron Depo	osits n Visible on Aerial Ima	agery		□ Other (E	xpiain)				D5 - FAC-Neu	aved Hummocks (LRR F)		
	B9 - Water-St		agery						_	Di Trostrio	avea Hammooks (ERRY)		
Field Observ	vations:												
Surface Wate	er Present?	Yes	Dep	th:	(in.)								
Water Table		Yes	•		(in.)			Wetland I	Hydrology F	Present?	Υ		
Saturation Pr													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Docaribo Boo	orded Data (c		<u> </u>		(in.)	enactions)	if available:						
	•	tream gauge, monit	toring well, a	erial photos,	previous in	· ·			otion and lo	- do como mos	iti o o		
Describe Reco	•		toring well, a	erial photos,	previous in	· ·		phytic vegeta	ation and lar	ndscape pos	ition.		
Remarks:	•	tream gauge, monit	toring well, a	erial photos,	previous in	· ·		phytic vegeta	ation and lar	ndscape pos	ition.		
Remarks:	No primary	tream gauge, monit	toring well, a	erial photos, Wetland hyd	previous in	ssumed b	ased on hydro _l		ation and lar	ndscape pos	ition.		
Remarks: SOILS Profile Descri	No primary	tream gauge, monit hydrology indicator be to the depth ne	toring well, a	erial photos, Vetland hyou	previous in Irology is a	ssumed b	ased on hydrophe absence of i	ndicators.)	ation and lar	ndscape pos	ition.		
Remarks: SOILS Profile Descri	No primary	tream gauge, monit	toring well, a	erial photos, Vetland hyou	previous in Irology is a	ssumed b	ased on hydrophe absence of i	ndicators.)	ation and lar	ndscape pos	ition.		
Remarks: SOILS Profile Descri	No primary	tream gauge, monit hydrology indicator be to the depth ne	toring well, a	erial photos, Vetland hyou	previous in Irology is a	ssumed b	ased on hydron ne absence of i Pore Lining, M=Mat	ndicators.)	ation and lar	ndscape pos	ition.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	tream gauge, monit hydrology indicator be to the depth nec etion, RM=Reduced Ma Matrix	toring well, a	erial photos, Vetland hyou ument the industried/Coated Sa	previous in Irology is a	ssumed become the confirm the cation: PL=F	ased on hydron ne absence of i Pore Lining, M=Mat	ndicators.)		ndscape pos	ition.		
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth need to the depth need to the depth need to the Matrix Color (Moist)	toring well, a	erial photos, Wetland hycument the intered/Coated Sa	previous in Irology is a ndicator or nd Grains; Lo	confirm th	ased on hydron ne absence of i Pore Lining, M=Mat	ndicators.) trix)		ndscape pos			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20	No primary iption (Descri	be to the depth need to the depth need to the depth need to the Matrix Color (Moist)	toring well, a rs present. eded to docutrix, CS=Cove	erial photos, Wetland hycument the intered/Coated Sa	previous in Irology is a ndicator or nd Grains; Lo	confirm the cation: PL=P	ased on hydron ne absence of i Pore Lining, M=Mat les Type	ndicators.) trix) Location	Texture CL	ndscape pos			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 5/2	toring well, a rs present. eded to docutrix, CS=Cove	erial photos, Wetland hyd ument the in red/Coated Sa Colo Hue_2.5	previous in Irology is a Irolog	confirm th cation: PL=F	ased on hydrone absence of increase absence ab	ndicators.) trix) Location	Texture CL	ndscape pos			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicator be to the depth new etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (checking depth)	toring well, a rs present. eded to docutrix, CS=Cove	erial photos, Wetland hyd ument the infred/Coated Sa Colo Hue_2.5 Hue_2.5 S5 - Sand S6 - Stripp F1 - Loam	previous in Irology is a Irolog	confirm the cation: PL=P Mottl % 10 ent):	ased on hydrone absence of increase absence ab	Location M	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G)	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth new etion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (check ipedon stick in Sulfide Layers (LRR F)	toring well, a rs present. eded to doc atrix, CS=Cove	erial photos, Wetland hyd ument the infred/Coated Sa Colo Hue_2.5 Hue_2.5 S5 - Sand S6 - Stripp F1 - Loam	previous in Irology is a Irolog	confirm the cation: PL=P Mottl % 10 ent):	ased on hydrone absence of increase absence ab	Location M	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	Remarks c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 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 new etion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	eded to docatrix, CS=Cove	wment the inced/Coated Sacred	previous in Irology is a Irolog	confirm the cation: PL=P Mottl % 10 ent): eral strix ce	ased on hydrone absence of increase absence ab	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material	Remarks C Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 20-28 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 Muc A11 - Deplete	be to the depth new etion, RM=Reduced Marix Color (Moist) 2/1 5/2 Indicators (check ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	toring well, a rs present. eded to doc atrix, CS=Cove 9 10 9 eck here if	wetland hydroment the intered/Coated Sarandicators are S5 - Sand S6 - Stripp F1 - Loam F2 - Loam F3 - Deple F6 - Redo	previous in Irology is a Irolog	confirm the cation: PL=F Mottl % 10 ent): eral atrix ce rface	ased on hydrone absence of increase absence ab	Location M	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi eed Vertic Parent Material Shallow Dark	Remarks C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w28-f2
VEGETATIO	· · ·	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:6 (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: 100.0% (A/B)
7.					(70)
8.					Prevalence Index Worksheet
9.					
					Total % Cover of: Multiply by:
10.	Total Caver				OBL spp. 50 $x = 50$
	Total Cover =	0			FACW spp. 30
					FAC spp. $\frac{25}{25}$ \times $3 = \frac{75}{25}$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.	Salix petiolaris	25	Y	OBL	UPL spp. $0 x 5 = 0$
2.	Populus tremuloides	15	Y	FAC	
3.	Salix bebbiana	15	Υ	FACW	Total 105 (A) 185 (B)
4.					
5.					Prevalence Index = B/A = 1.762
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	_				
10.					
	Total Cover =	55	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex lacustris	25	Y	OBL	
2.	Calamagrostis stricta	15	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Petasites frigidus	10	Υ	FAC	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
					Sapinig/Siliub - Wessay Plante 1888 than 8 lin. 2211, Tegaraloss of Height.
10.					
11.					All beat account for a wealth about a recording of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	50			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1	Tarani (1 lot oleo: oo iti radiao)				
2.					
3.					Hydrophytic Vogotation Procent?
					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =				
Remarks:	Dominant vegetation includes meadow willow	w, quaking	aspen, an	d Bebb's	willow, with bare soil covering a majority of the ground layer.
Additional F	Remarks:				
Additional	Community.				