## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/23/14
Applicant:										County:	Pennington
Investigators					Subregion (MLRA or LRR): MLRA 56					State:	MN
Soil Unit:	162A		NWI Classification:								
Landform:	Side slope		40		ocal Relief:					Sample Point:	u-154n44w18-a1
Slope (%):	8 - 15%	عاد و حاد و حاد الدور	Latitude: 48.			-96.36326565	6	Datum:			
		nditions on the site					-1 -1		□ No	Section:	
Are Vegetation	•	□, or Hydrology	•	•				stances pre	esent?	Township:	
Are Vegetation		□, or Hydrology	Daturally p	roblematic?		<u> </u>	☑ Yes	□ No		Range:	Dir:
SUMMARY C									D 10	N	
Hydrophytic \			No		<u>_</u>			Hydric Soil			11 10 N
Wetland Hyd			No		<del> </del>					nt Within A W	
Remarks:	•		ominated by	common rag	weed and ye	ellow foxtail. Tr	ne site is	on a hillside	e upslope fi	rom a wetland	d complex within a petroleum
	pipeline cor	ridor.									
HYDROLOG'	Y										
Wetland Hy	drology Indi	icators (Check all	I that apply;	Minimum of o	ne primary	or two seconda	ary requir	ed):			
Primary:	<u>.</u>	•						•	Secondary:	<u>.</u>	
	A1 - Surface \				B11 - Salt (					B6 - Surface S	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio					gen Sulfide Odor				B10 - Drainage	
	B1 - Water Ma B2 - Sedimen				•	eason Water Tab ed Rhizospheres		Roots (not tille		C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•				nce of Reduced I		ixoots (not till		•	n Visible on Aerial Imagery
	B4 - Algal Mat					luck Surface	1011			D2 - Geomorp	
	B5 - Iron Depo								_	D5 - FAC-Neu	
		n Visible on Aerial Im	nagery		` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Dep	oth:	(in.)			Watland H	lydrology	Drocont?	N
Water Table	Present?	Yes □	Dep	oth:	(in.)			Wetland H	iyarology i	rieseni :	N
Seturation Dr	resent?	V	Dan								
Saturation Pr	CSCIIL:	Yes □	Dep	oth:	(in.)						
			<u> </u>			ections) if avail	lable:				
Describe Reco	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	ections), if avail	lable:				
	orded Data (s		itoring well, a	erial photos, p	revious insp	ections), if avail	lable:				
Describe Reco	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	ections), if avail	lable:				
Describe Reco	orded Data (s No primary	stream gauge, moni or secondary hydr	itoring well, a	erial photos, p cators were c	previous insposerved.	·		dicators )			
Describe Reco Remarks: SOILS Profile Descri	orded Data (s No primary ption (Descri	stream gauge, monior secondary hydrobe to the depth ne	itoring well, a rological indi	erial photos, p	brevious insposerved.	onfirm the abse	ence of in				
Describe Reco Remarks: SOILS Profile Descri	orded Data (s No primary ption (Descri	stream gauge, moni or secondary hydr	itoring well, a rological indi	erial photos, p	brevious insposerved.	onfirm the abse	ence of in				
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Describe Reconstruction Remarks:  SOILS Profile Descripe: C=Concert	orded Data (s No primary  ption (Descri	or secondary hydror secondary hydror be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, a rological indi	erial photos, p cators were c cument the incored/Coated Sanc	brevious insposerved.	onfirm the absetion: PL=Pore Linin	ence of in		Texture		Remarks
Describe Reconstruction Remarks:  SOILS Profile Descripation (Type: C=Concertion)  Depth (In.)  0-12	orded Data (s No primary  ption (Descri	be to the depth neetion, RM=Reduced Matrix  Color (Moist)	itoring well, a rological indi	erial photos, p cators were continued.  cument the income of the continued.  Color of the color	brevious insposerved.  dicator or co	onfirm the absetion: PL=Pore Linin	ence of in ng, M=Matri	x)	SL		Remarks
Describe Reconstruction Remarks:  SOILS Profile Descripe: C=Concert  Depth (In.) 0-12 12-19	orded Data (s No primary  ption (Descriptration, D=Depleted  Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2	itoring well, a rological indi	erial photos, p cators were continued the income continued content the income content	brevious insposerved.  dicator or co	onfirm the absetion: PL=Pore Linin	ence of in ng, M=Matri	x)			
Describe Reconstruction Remarks:  SOILS Profile Descripation (Type: C=Concertion)  Depth (In.)  0-12	orded Data (s No primary  ption (Descri	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2	itoring well, a rological indi	erial photos, p cators were continued the income continued content the income content	brevious insposerved.  dicator or co	onfirm the absetion: PL=Pore Linin	ence of in ng, M=Matri	x)	SL	Abundant gravel t	
Describe Recordance Remarks:  SOILS Profile Descri (Type: C=Concerd  Depth (In.) 0-12 12-19	orded Data (s No primary  ption (Descriptration, D=Depleted  Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2	itoring well, a rological indi	erial photos, p cators were continued the income continued content the income content	brevious insposerved.  dicator or co	onfirm the absetion: PL=Pore Linin	ence of in ng, M=Matri	x)	SL	Abundant gravel t	
Describe Recordance Remarks:  SOILS Profile Descri (Type: C=Concerd  Depth (In.) 0-12 12-19	orded Data (s No primary  ption (Descriptration, D=Depleted  Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2	itoring well, a rological indi	erial photos, p cators were continued the income continue	brevious insposerved.  dicator or co	onfirm the absetion: PL=Pore Linin	ence of in ng, M=Matri	x)	SL	Abundant gravel f	
Describe Reco	orded Data (s No primary  ption (Descriptration, D=Depleted)  Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2	eeded to doc latrix, CS=Cove	erial photos, p cators were of cument the incorred/Coated Sand Color Color Color Color Color	previous insposerved.  dicator or cod Grains; Locat  (Moist)	onfirm the abse	ence of in ng, M=Matri	x)	SL	Abundant gravel t	
Describe Reco	orded Data (s No primary  ption (Descriptration, D=Depleted  Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2	eeded to doc latrix, CS=Cove	erial photos, p cators were continued the income continue	previous insposerved.  dicator or cod Grains; Locat  (Moist)	onfirm the abse	ence of in ng, M=Matri	x)	SL	Abundant gravel t	
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Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21	ption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist)  2/1 3/2 4/2  Indicators (ch	eeded to doc latrix, CS=Cove	erial photos, p cators were of cument the incorred/Coated Sand Color Col	corevious insponential insponen	onfirm the abse	ence of in ng, M=Matri	Location	SL LS S Indicators f A9 - 1 cm M	for Problemation	fragments
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	orded Data (s No primary  ption (Descriptration, D=Depleted)  Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2  Indicators (characters)	eeded to doc latrix, CS=Cove	erial photos, p cators were of cument the incored/Coated Sand Color colo	corevious insponentation of contents of the co	mottles % T	ence of in ng, M=Matri	Location	SL LS S Indicators f A9 - 1 cm M A16 - Coast	for Problemation  for Problemation  fuck (LRR I, J)  Frairie Redox (	fragments  c Soils <sup>1</sup> (LRR F, G, H)
Describe Reco	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters)	eeded to doc latrix, CS=Cove	erial photos, p cators were contained.  cument the income of the contained	corevious insponentation of present and matrix Mucky Mineral previous insponentation of the present and the pr	Mottles  % T	ence of in ng, M=Matri	Location	SL LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  for Problemation  fuck (LRR I, J)  Frairie Redox (  furface (LRR G)	fragments  c Soils <sup>1</sup> (LRR F, G, H)
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2  Indicators (characters)	eeded to doc latrix, CS=Cove	cators were continued the incorrect coated Sand  Color  Co	mot present Redox dicaty Minera Gleyed Matrix	Mottles  % T	ence of in ng, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation  for Problemation  fuck (LRR I, J)  Frairie Redox (  furface (LRR G)  Plains Depression	fragments  c Soils <sup>1</sup> (LRR F, G, H)
Describe Reco	norded Data (some No primary spition (Descriptration, Deplementation, Deplemen	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (chain ipedon stice in Sulfide Layers (LRR F)	eeded to doc latrix, CS=Cove	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix ed Matrix	Mottles  % T  t):	ence of in ng, M=Matri	Location	SL LS S  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox ( furface (LRR G)  Plains Depression  foed Vertic	fragments  c Soils <sup>1</sup> (LRR F, G, H)
Describe Reco	ption (Descrintration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, a rological indicated to document to doc	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface	mottles  Mottles  w t):	ence of in ng, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problemation  Muck (LRR I, J)  Prairie Redox (urface (LRR G)  Plains Depression  Plains Depression  Parent Material	fragments  c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
Describe Reco	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  3/2  4/2  Indicators (chain Sulfide Layers (LRR FGH) d Below Dark Surface	itoring well, a rological indicated to document to document to document the second second	cators were control of the control o	mot present  Redox dicaty Minera Gleyed Matrix Dark Surface	mottles  Mottles  w t):	ence of in ng, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox ( furface (LRR G)  Plains Depression  Plains Depression  Plains Material  Parent Material  Shallow Dark S	fragments  c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	ntration, D=Depleter A1 - Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (chain Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well, a rological indicated to document and the rological indicated at the role indicated at the rological indicated at t	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface Depressions	Mottles    Mottles	ence of ing, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  Prairie Redox (urface (LRR G)  Plains Depression  Plains Depression  Parent Material	fragments  c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
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Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, a rological indicated to document to doc	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface Depressions	Mottles    Mottles	ence of ing, M=Matri	Location	SL LS S  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox ( furface (LRR G)  Plains Depression  proced Vertice  Parent Material	fragments  c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, a rological indicated to document to doc	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface Depressions	Mottles    Mottles	ence of ing, M=Matri	Location	SL LS S  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox ( furface (LRR G)  Plains Depression  Pla	fragments  c Soils¹ (LRR F, G, H)  ons (LRR H, outside MLRA 72, 73)  Surface
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Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21	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 Mi S2 - 2.5 cm Mi S3 - 5 cm Muc S4 - Sandy Gi	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, a rological indicated to document to doc	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface Depressions Plains Depress	Mottles  Mottles  W  T  Al  Ce  Sions (MLRA 72,	ence of in ng, M=Matri	Location	SL LS S  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation  for Problemation  fuck (LRR I, J)  Prairie Redox ( furface (LRR G)  Plains Depression  proced Vertice  Parent Material	fragments  c Soils¹ (LRR F, G, H)  ons (LRR H, outside MLRA 72, 73)  Surface
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-19 19-21  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2 4/2  Indicators (characters) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, a rological indicated to document to doc	cators were control of the control o	mot present Redox Mucky Minera Gleyed Matrix Dark Surface ad Dark Surface	Mottles  Mottles  W  T  Al  Ce  Sions (MLRA 72,	ence of ing, M=Matri	Location	SL LS S  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemation for Problemation fuck (LRR I, J) Frairie Redox ( Frairie Redo	fragments  c Soils¹ (LRR F, G, H)  ons (LRR H, outside MLRA 72, 73)  Surface

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w18-a1
VEGETATION OF Streeture (	· · ·	e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u> </u>	<u> 70 0010.</u>	<u> </u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Caver				OBL spp. 0
	Total Cover =	0	FACW spp. $0 \times 2 = 0$		
Conling/Chrub	Stratum (Plat aiza: 15 ft radius)		FACTION 115 $\times 3 = \frac{45}{100}$		
1.	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					Οι L 3pp
3.					Total 130 (A) 505 (B)
4.					(2)
5.					Prevalence Index = $B/A = 3.885$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
,	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Ambrosia artemisiifolia	65	Y	FACU	* In directors of booking and continued booking according
2.	Setaria pumila	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Echinochloa crus-galli	15	N N	FAC	
4. 5.	Trifolium pratense	10 5	N N	FACU FACU	Definitions of Vegetation Strata:
6	Trifolium hybridum  Medicago lupulina	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	iviedicago iupuliria		11	TACO	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	130	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					Underphytic Variation Present?
3. 5.					Hydrophytic Vegetation Present?N
4.					
4.	Total Cover =	0			
Remarks:	The sample site is dominated by common ra		d vellow for	xtail Gras	ses and clover species are also prevalent
rtomanto.	The dample one is definition by	gwood and	a you ow to	Maii. Orac	account diever operice are also prevalent.
Additional R	Remarks:				
Additional	tomanto.				