WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/11/14	_	
Applicant:		Enbridge									County:	Polk	_	
Investigators	:	NTT/BEH				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	_	
Soil Unit:	nit: 47C						NWI	I Classification	:					
Landform:	Rise				Lo	cal Relief:	VV				Sample Point:	u-150n39w34-a2	2	
Slope (%):	8 - 15%		Latitude: 47	7.762	686	Longitude:	-95.628	083	Datum:		1			
		nditions on the site								□No	Section:			
Are Vegetation	, ,	☐ or Hydrology	<i>,</i> ,			(-, -		normal circun			Township:			
Are Vegetation		□ or Hydrology					,	☑ Yes	□No		Range:	Dir:		
SUMMARY C			Liturally	prob	icmatic:			_ 100	<u></u>		range.	DII.		
									Lloudai - O - il	I- D	NI-			
, , , ,				No			Hydric Soils Present? No Is This Sampling Point Within A Wetland? No							
			No.											
Remarks:	The upland	point is located on	n a rise in a	an op	en meadow	area. Do	minant p	lants are smoo	oth brome, ti	mothy, and	Kentucky blu	ie grass.		
HYDROLOG	Υ													
Wetland Hy	drology Ind	icators (Check all	that apply	· Mini	imum of on	e nrimary	or two se	econdary requi	red):					
Primary		ioatoro (oncon an	i iliat appiy	,		o primary	0	occircuity roqui	100/1	Secondary:				
A1 - Surface Water						B11 - Salt (Crust				B6 - Surface S	oil Cracks		
	A2 - High Wa					B13 - Aqua						Vegetated Concave S	Surface	
I 🗀	A3 - Saturation					C1 - Hydro						B10 - Drainage Patterns		
	B1 - Water M	arks				C2 - Dry Se						Rhizospheres on Livir	ng Roots (tilled)	
	B2 - Sedimen	t Deposits						spheres on Living	Roots (not till		C8 - Crayfish E		-	
	B3 - Drift Dep			☐ C4 - Presence of Reduced Iron ☐								n Visible on Aerial Ima	agery	
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorp			
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu			
		on Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRF	₹ F)	
	B9 - Water-St	tained Leaves												
Field Obser	vations:													
Surface Wat	er Present?	Yes	De	epth:		(in.)					- 40			
Water Table	Present?	Yes \Box	De	enth:		(in.)			wetland H	lydrology I	Present?	N		
Saturation Pr		Yes 🗆		epth:		(in.)						_		
						()								
Describe Rec		stream gauge, moni			l photos, pre	evious insp	ections),	if available:						
Remarks:		stream gauge, moni hydrology indicato			Il photos, pre	evious insp	ections),	if available:						
					l photos, pre	evious insp	ections),	if available:						
					Il photos, pre	evious insp	ections),	if available:						
Remarks: SOILS Profile Descri	No wetland	hydrology indicato	ors present	i. ocum	ent the indi	cator or co	onfirm th	e absence of ir						
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Remarks: SOILS Profile Descri	No wetland	hydrology indicato	ors present	i. ocum	ent the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Mati						
Remarks: SOILS Profile Descri	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	ocumo vered/0	ent the indi Coated Sand (cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati	rix)	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	DCUM/ vered/0	ent the indi	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to do atrix, CS=Cov	% 100	ent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	FSL FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No wetland iption (Descriptration, D=Depl	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	% 100	ent the indi Coated Sand (cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati	rix)	FSL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to do atrix, CS=Cov	% 100	ent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	FSL FS		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to do atrix, CS=Cov	% 100	ent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	FSL FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21	No wetland iption (Descrintration, D=Depi Hue_10YR Hue_10YR Hue_10YR	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1	present seeded to do atrix, CS=Cov	% 100 100 99 H	ent the indi Coated Sand (Color (I Hue_7.5YR	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location	FSL FS		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1	present seeded to do atrix, CS=Cov	% 100 100 99 H	ent the indicoated Sand (Coated	cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Mati es Type	Location M	FSL FS LFS	or Problematic			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 Indicators (ch	present seeded to do atrix, CS=Cov	% % 1000 1000 F indicate the control of the control	ent the indicoated Sand (Color (I	cator or co Grains; Local Moist) 4/6 aot presen edox Matrix	Mottle % 1 tt):	e absence of ir ore Lining, M=Mati es Type	Location M	FSL FS LFS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1 Indicators (chains)	present seeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Coated	cator or co Grains; Local Moist) 4/6 4/6 not presen edox Matrix lucky Minera	onfirm theion: PL=Pi Mottle % 1	e absence of ir ore Lining, M=Mati es Type	Location M	FSL FS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: <u>Soils¹</u> LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 Indicators (ch	present seeded to do atrix, CS=Cov		ent the indicoated Sand (Color (I	Cator or co Grains; Local Moist) 4/6 4/6 oot presen edox Matrix lucky Mineraleyed Matrix	onfirm theion: PL=Pi Mottle % 1	e absence of ir ore Lining, M=Mati es Type	Location M	FSL FS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹	73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	present seeded to do atrix, CS=Cov		ent the indicoated Sand (Color (I	Moist) 4/6 aot presen edox Matrix leyed Matrix Matrix Matrix	monfirm the months of the mont	e absence of ir ore Lining, M=Mati es Type	Location M	FSL FS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ded Vertic	: <u>Soils¹</u> LRR F, G, H)	73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	hydrology indicato be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 2/1 Indicators (ch ipedon stic	eeded to do atrix, CS=Cov		ent the indicoated Sand (Coated Sand (Coated Sand (Coated Sand (Coated Sand (Coated Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Local Moist) 4/6 4/6 oot presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface	Mottle % 1 tt):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material	C Soils 1 LRR F, G, H) DNS (LRR H, outside MLRA 72,	73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (chairpedon etic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface	eeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Color (I	doist) 4/6 4/6 dot presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface	Mottle % 1 tt):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Red pc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils 1 LRR F, G, H) ONS (LRR H, outside MLRA 72,	73)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (Li	eeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Coated	Moist) 4/6 dot presented Matrix Mucky Mineraleyed Matrix Matrix Matrix Eleyed Matrix Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Eleyed Matrix Matrix Eleyed Eleyed Matrix Eleyed	Mottle % 1 t):	e absence of ir	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sq F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils ¹ LRR F, G, H) DIS (LRR H, outside MLRA 72,		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	hydrology indicators be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Coated	Moist) 4/6 dot presented Matrix Mucky Mineraleyed Matrix Matrix Matrix Eleyed Matrix Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Eleyed Matrix Matrix Eleyed Eleyed Matrix Eleyed	Mottle % 1 t):	e absence of ir	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils 1 LRR F, G, H) ONS (LRR H, outside MLRA 72,		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu	hydrology indicators be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ucky Mineral fucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR)	eeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Coated	Moist) 4/6 dot presented Matrix Mucky Mineraleyed Matrix Matrix Matrix Eleyed Matrix Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Eleyed Matrix Matrix Eleyed Eleyed Matrix Eleyed	Mottle % 1 t):	e absence of ir	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Prairie Redox (urface (LRR G) Plains Depression Plains	E Soils ¹ LRR F, G, H) DIS (LRR H, outside MLRA 72,		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A1- Toeplete A12- Thick D S1- Sandy M S3- 5 cm Mu S4- Sandy G	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	eeded to do atrix, CS=Cov	% 100 10	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist) 4/6 dot presented Matrix Mucky Mineraleyed Matrix Matrix Matrix Eleyed Matrix Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Eleyed Matrix Matrix Eleyed Eleyed Matrix Eleyed	Mottle % 1 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Indicators of Management of Ma	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Prairie Redox (urface (LRR G) Plains Depression Plains	E Soils ¹ LRR F, G, H) DIS (LRR H, outside MLRA 72,		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-16 16-21 NRCS Hydr	No wetland iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A1 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	hydrology indicators be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 2/1 2/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	eeded to do atrix, CS=Cov	% 100 10	ent the indicoated Sand (Coated	Moist) 4/6 dot presented Matrix Mucky Mineraleyed Matrix Matrix Matrix Eleyed Matrix Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Matrix Eleyed Matrix Eleyed Matrix Matrix Eleyed Eleyed Matrix Eleyed	Mottle % 1 t):	e absence of ir ore Lining, M=Mati es Type C	Location M	Indicators of Management of Ma	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Prairie Redox (urface (LRR G) Plains Depression Plains	E Soils ¹ LRR F, G, H) DIS (LRR H, outside MLRA 72,		

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n39w34-a2
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u> </u>		<u> </u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					(11)
4.					Total Number of Deminent Cresics Assess All Charter (D)
					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
			_		FAC spp. 0 x 3 = 0
Capling/Chrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 40 x 4 = 160
	Stratum (Flot Size. 15 it. radius)				· · · · · · · · · · · · · · · · · · ·
1.					UPL spp60
2.					
3.					Total 100 (A) 460 (B)
4.					
5.					Prevalence Index = B/A = 4.600
6.					
7.	_				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Cover =	U	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	60	Y	UPL	
2.	Poa pratensis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Phleum pratense	20	Υ	FACU	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.
10.					oupling on ab
11.					All brokensons (non-standard brokensons of sin-
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
	•		_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(12222 22 12 12 12 12 12 12 12 12 12 12				
2.				_	
3.					Hydrophytic Vegetation Present? N
					nyurophytic vegetation Fresent?
5.					
4.				_	
	Total Cover =	0			
Remarks:	The upland vegetation is dominated by smooth	oth brome,	timothy, a	nd Kentuc	cky blue grass.
Additional R	Remarks:				
i					