WETLAND DETERMINATION DATA FORM Great Plains Region

Applicant: Enricinge Subregion (MLRA or LRR): MLRA 66 State: NT/RRG Subregion (MLRA or LRR): MLRA 66 State: NT/RRG 66 State: NT/	Project/Site:		L3R									Date:	07/28/14	
Solution 130A	Applicant:		Enbridge							County:	Marshall			
Landforms: Depression	Investigators	:	NTT/KRG	Subregion (MLRA				or LRR): MLRA 56			State:	MN		
Slope (%): 3 - 7% Lander 48 466916 Longater 48 789225 Datum: Are CimatchyPricioglog conditions on the last hybrid for this time of year? Longater framework No. 2016 Control of the contr	Soil Unit:	I130A						NWI	Classification:					
Are climationly/clogic conditions on the site typical for this time of year? une extent inventors. Yes No No No No No No No N		Depression				Loc						Sample Point	w-158n48w36-a1	
Are Vegetation Soil Girchydrology Indicators Are normal circumstances present? Township: A Revegetation Soil Girchydrology Indicators Yes No Range Dr.										Datum:				
Are Vegetation Soil or Hydrology Distrally problematic? If yes Distrally problematic. If yes D	Are climatic/l	nydrologic co	nditions on the site	e typical f	for this	s time of yea	r? (If no, exp	olain in rema	arks)	⊡Yes	□ No	Section:		
SUMMARY OF FINDINGS Hydrochylic Vegetation Present? Yes	Are Vegetation				cantly o	disturbed?		Are	e normal circum	nstances pro	esent?	Township:		
Hydroc Solia Present? Yes	Are Vegetation	on 📮 Soil	☐ or Hydrology	□turall	ly prob	lematic?			Yes	□No		Range:	Dir:	
Wetland Hydrology Present? Wetland Is a wet meadow located within a roadside ditch and dominated by Elecohars palustris and Phalarias arundinaces. **POROLOGY** Wetland Hydrology Indicators (Check all that apply, Minimum of one primary or two secondary required): **PURPLINES** A1 - Surface Water B1 - Surface Water B2 - Surface Water B2 - Surface Water B2 - Surface Water B2 - Surface Water B3 - Surface Water B4 - Surface B4 - Surface Water B4 - Surface B4 - Surfa	SUMMARY (OF FINDINGS	3											
NORSOLOSY Wetland Hydrology Indicators (Check all that apply, Minimum of one primary or two secondary required):	Hydrophytic '	Vegetation Pr	esent?	`	Yes					Hydric Soi	Is Present?	Yes		
Wetland Hydrology Indicators (Check all that apply, Minimum of one primary or two secondary required):	Wetland Hyd	Irology Prese	nt?	`	Yes					Is This Sai	mpling Poin	t Within A W	etland? Yes	
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):	Remarks:	The wetland	is a wet meadow	located v	within a	a roadside o	litch and o	dominate	ed by Eleocharis	s palustris a	and Phalaris	arundinace	а.	•
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):														
Primary: A1 - Surface Water B11 - Salt Crust B11 - Salt Crust B12 - Arguite Faunt B13 - Arguite Fau	HYDROLOG	Υ												
Primary: A1 - Surface Water B11 - Salt Crust B11 - Salt Crust B12 - Arguite Faunt B13 - Arguite Fau	Wetland Hy	drology Indi	cators (Check all	I that ann	lv: Min	imum of on	nrimary	or two se	econdary requir	red).				,
A1 - Surface Water B11 - Said Crast B13 - Aquatic Faura B14 - Aquatic Faura B1			cators (or con an	i tilat appi	ıy, ıvıııı	iiiiiaiii oi oi i	primary	01 1110 31	coordary requir	cu).	Secondary:			
A3 - Saluration C1 - Hydrogen Suffice Odor B10 - Drainage Patterns C2 - Dy Season Water Table C3 - Oxidized Rizosopheres on Living Roots (not tilk C3 - Oxidized Rizosopheres on Living Rizosopheres on Living Roots (not tilk C3 - Oxidized Rizosopheres on Living Roots (not tilk C3 - Oxidized Rizosopheres on Living Rizosopheres on Living Roots (not tilk C3 - Oxidized Rizosopheres (not tilk C3 - Oxidized Rizosopheres on Living Rizosopheres (not tilk C3 - Oxidized Rizosopheres (not tilk C3 - Oxidized Rizosopheres (not tilk C3 - Oxidize			Vater				B11 - Salt (Crust				B6 - Surface S	Soil Cracks	
B1 - Water Marks C3 - Dirist Senson Water Table C3 - Oxidated Ribrosopheres on Living Roots (not tilling C3 - Oxidated Ribrosopheres (not tilling C3 - Oxidated Ribrosopheres on Living Roots (not tilling C3 - Oxidated Ribrosopheres on Living Roots (not tilling C3 - Oxidated Ribrosopheres on Living Roots (not tilling C3 - Oxidated Ribrosopheres on Living Roots (not tilling C3 - Oxidated Ribrosopheres on Living Roots (not tilling Root														ce
B2 - Sediment Deposits G3 - Oxidized Rhizospheres on Living Roots (not tall G3 - Startation Visible on Aerial Imagery G3 - Visible Visible on Aeri														
B3- Drift Deposits C4- Presence of Reduced fron C7- Thin Muck Surface D2- Geomorphic Position D5- FACN-Neutral Test D7- Frost-Heaved Hummooks (LRR F) D7- Frost-										Pooto (not till				oots (tilled)
B4 - Agal Matior Crust										Roots (not till				,
B5 - froit Deposits D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)														!
B9 - Water-Stained Leaves							Other (Exp	lain)						
Field Observations: Surface Water Present? Yes				nagery								D7 - Frost-He	aved Hummocks (LRR F)	
Surface Water Present? Yes		B9 - Water-St	ained Leaves											
Surface Water Present? Yes									ı					
Water Table Present? Yes Depth: 0 (in.) Depth: 0 (i														
Soluration Présent? Yes			_	[Depth:					Wetland F	lydrology l	Present?	Υ	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The wetland has roughly four inches of standing water throughout. SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered/Coated Sand Grains, Location: PL-Porte Lining, M-Matrix; Depth (In.)	Water Table	Water Table Present? Yes Depth: 0 (in.)										<u> </u>		
Remarks: The wetland has roughly four inches of standing water throughout. Soil S	Saturation Present? Yes Depth: 0 (in.)													
Remarks: The wetland has roughly four inches of standing water throughout. Soils	Saturation Pr	resent?	Yes ☑	I	Depth:		(in.)							
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix) Matrix						0	. ,	ections),	if available:					
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix Matrix	Describe Rec	orded Data (s	tream gauge, moni	itoring wel	II, aeria	0 al photos, pre	vious insp		if available:					
Matrix Mottles	Describe Rec	orded Data (s	tream gauge, moni	itoring wel	II, aeria	0 al photos, pre	vious insp		if available:					
Matrix	Describe Reco	orded Data (s	tream gauge, moni	itoring wel	II, aeria	0 al photos, pre	vious insp		if available:					
Depth (In.) Color (Moist)	Describe Recorded Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moning that roughly four the to the depth ne	itoring wel	II, aeria	0 al photos, preling water the	evious insproughout.	onfirm the	e absence of in					
Depth (In.) Color (Moist)	Describe Recorded Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moning that roughly four the to the depth ne	itoring wel	II, aeria	0 al photos, preling water the	evious insproughout.	onfirm the	e absence of in					
NRCS Hydric Soil Field Indicators (check here if indicators are not present): A1- Histosol	Describe Recorded Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria	0 al photos, preling water the	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri					
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)				
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol	Describe Recorder Remarks: SOILS Profile Descri	orded Data (s The wetland ption (Descri	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma	itoring wel	II, aeria f stand docum	0 al photos, pre ling water th ment the indic Coated Sand C	evious insproughout.	onfirm the	e absence of in ore Lining, M=Matri es	ix)	Texture		Remarks	
A1- Histosol A2- Histic Epipedon A3- Black Histic A4- Hydrogen Sulfide A5- Straiffied Layers (LRR F) A5- Straiffied Layers (LRR F) A9- 1 cm Muck (LRR F, G, H) B7- Loamy Mucky Mineral B7- Loamy Gleyed Matrix B7- Depleted Matrix B7- Depleted Matrix B7- Depleted Below Dark Surface B7- Depleted Dark Surface	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.)	ption (Descri	tream gauge, moni has roughly four be to the depth ne tion, RM=Reduced Ma Matrix Color (Moist)	itoring well inches of eeded to o latrix, CS=C	III, aeria f stand docum covered/	0 al photos, pre ling water th ent the indic Coated Sand C	vious insproughout. cator or cograins; Locat	onfirm the	e absence of in ore Lining, M=Matri es Type	ix)	Texture		Remarks	
A2 - Histic Epipedon	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.)	ption (Descri	tream gauge, moni has roughly four be to the depth ne tion, RM=Reduced Ma Matrix Color (Moist)	itoring well inches of eeded to o latrix, CS=C	III, aeria f stand docum covered/	0 al photos, pre ling water th ent the indic Coated Sand C	vious insproughout. cator or cograins; Locat	onfirm the	e absence of in ore Lining, M=Matri es Type	ix)		or Problemati		
A4 - Hydrogen Sulfide	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Deple	tream gauge, moni has roughly four be to the depth ne tion, RM=Reduced Ma Matrix Color (Moist)	itoring well inches of eeded to o latrix, CS=C	II, aeria f stand docum covered//	o al photos, pre ling water th ent the indid Coated Sand C	vious insproughout. cator or ccsrains; Local Moist) ot presen	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f			
A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface B1 - F6 - Redox Dark Surface B1 - F7 - Depleted Dark Surface B1 - F8 - Redox Dark Surface B1 - F12 - Very Shallow Dark Surface B1 - F12 - Ve	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Deple	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch	itoring well inches of eeded to o latrix, CS=C	II, aeria f stand docum covered//	o al photos, pre ling water the eent the indid Coated Sand C Color (N	evious insproughout. cator or cc grains; Locat Moist) ot presen	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	uck (LRR I, J)	c Soils ¹	
A9 - 1 cm Muck (LRR FGH)	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.)	ption (Descrintration, D=Deple	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch	itoring well inches of eeded to o latrix, CS=C	II, aeria f stand docum covered//	o al photos, pre ling water the lent the indic Coated Sand C Color (N cators are n S5 - Sandy Rr S6 - Stripped F1 - Loamy M	exious insproughout. cator or costains; Local floist) ot presen edox Matrix ucky Minera ucky Minera	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	uck (LRR I, J) Prairie Redox ırface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)	
A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix Depth: Hydric Soil Present? Y	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Deple Description) ic Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch	itoring well inches of eeded to o latrix, CS=C	II, aeria f stand docum covered/	O al photos, pre ling water the lent the indic Coated Sand C Color (N Cators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	evious insproughout. cator or corrains; Local Moist) ot presen edox Matrix ucky Minera eyed Matrix	onfirm the	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St J F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) lains Depressi	<u>c Soils¹</u> (LRR F, G, H)	
A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix Depth: Hydric Soil Present? Y	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Deple ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch pedon tic n Sulfide Layers (LRR F)	itoring well inches of eeded to o latrix, CS=C	II, aeria f stand docum covered//	o al photos, pre ling water th ent the indid Coated Sand C Color (N Coators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	evious insproughout. cator or cc crains; Locat Moist) ot presen edox Matrix ucky Minera leyed Matrix Matrix Matrix Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox ırface (LRR G) lains Depressi ed Vertic	<u>c Soils¹</u> (LRR F, G, H)	
S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix Systrictive Layer Type: Depth: Hydric Soil Present? Y Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Depletration, D=Deple	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch pedon tic pedon tic p sulfide Layers (LRR F) ck (LRR FGH)	itoring well inches of eeded to o atrix, CS=C	docum covered/	o al photos, pre ling water th ent the indid Coated Sand C Color (N Cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	evious insproughout. cator or cc carains; Local floist) ot presen edox Matrix ucky Minera Matrix Matrix ark Surface	Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F I F18 - Reduc	uck (LRR I, J) Prairie Redox urface (LRR G) lains Depressi ed Vertic arent Material	C Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
S3 - 5 cm Mucky Peat or Peat (LRR F) S4 - Sandy Gleyed Matrix Type: Depth: Hydric Soil Present? Y Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.) NRCS Hydr	ption (Descriptration, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (ch pedon tic Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	itoring well inches of eeded to o atrix, CS=C	II, aeria f stand docum covered//	o al photos, pre ling water the lent the indic Coated Sand C Color (N Color (N Color (N S5 - Sandy Rr S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	exious insproughout. cator or cc Grains; Local Moist) ot presen edox Matrix Matrix Matrix Matrix Surface Dark Surface	Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F16 - Red P TF2 - Red P	uck (LRR I, J) Prairie Redox urface (LRR G) lains Depressi ed Vertic arent Material Shallow Dark S	c Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface	
Restrictive Layer Type: Depth: Hydric Soil Present? Y Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Deplete A1- Histosol A2- Histosol A4- Hydroger A5- Stratified A9-1 cm Mat. A1- Deplete A12- Thick D.	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch pedon tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	itoring well inches of eeded to o atrix, CS=C	II, aeria F stand docum covered/ %	o al photos, pre ling water the ling water the lent the indic Coated Sand C Color (N	evious insproughout. cator or corrains; Local floist) ot presen edox Matrix ucky Mineral eleved Matrix Matrix	monfirm the tion: PL=Pe Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F16 - Red P TF2 - Red P	uck (LRR I, J) Prairie Redox urface (LRR G) lains Depressi ed Vertic arent Material Shallow Dark S	c Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface	
Restrictive Layer Type: Depth: Hydric Soil Present? Y Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descrintration, D=Depleter A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mt S2 - 2.5 cm M	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch pedon tic	itoring well inches of eeded to o atrix, CS=C	II, aeria F stand docum covered/ %	o al photos, pre ling water the ling water the lent the indic Coated Sand C Color (N	evious insproughout. cator or corrains; Local floist) ot presen edox Matrix ucky Mineral eleved Matrix Matrix	monfirm the tion: PL=Pe Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) lains Depressi ed Vertic arent Material Shallow Dark S in in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	
Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descriptration, D=Depletration, D=Deple	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch pedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral ucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well inches of eeded to o atrix, CS=C	II, aeria F stand docum covered/ %	o al photos, pre ling water the ling water the lent the indic Coated Sand C Color (N	evious insproughout. cator or corrains; Local floist) ot presen edox Matrix ucky Mineral eleved Matrix Matrix	monfirm the tion: PL=Pe Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) 'lains Depressi ed Vertic arent Material Shallow Dark S in in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
Remarks: Soils were not collected due to the wetland's location within a roadside ditch. Soils are assumed to be hydric based on the landscape position and vegetation	Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd) Depth (In.)	ption (Descriptration, D=Depletration, D=Deple	tream gauge, moni has roughly four be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch pedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral ucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well inches of eeded to o atrix, CS=C	II, aeria F stand docum covered/ %	o al photos, pre ling water the ling water the lent the indic Coated Sand C Color (N	evious insproughout. cator or corrains; Local floist) ot presen edox Matrix ucky Mineral eleved Matrix Matrix	monfirm the tion: PL=Pe Mottle % tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) 'lains Depressi ed Vertic arent Material Shallow Dark S in in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface	t be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-158n48w36-a1
VEGETATIO	N (Species identified in all uppercase are	non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 75 x 1 = 75
	Total Cover =	0			FACW spp. 30 x 2 = 60
	-				FAC spp. 0 x 3 = 0
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Stratum (Flot 6)22. To it. radias)				UPL spp. 0 x 5 = 0
2.					
3.					Total 105 (A) 135 (B)
4.					Total 105 (A) 135 (B)
5.					Prevalence Index = B/A = 1.286
					Prevalence Index = B/A = 1.286
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Eleocharis palustris	35	Υ	OBL	
2.	Phalaris arundinacea	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Typha angustifolia	15	N	OBL	present, unless disturbed or problematic.
4.	Typha latifolia	15	N	OBL	Definitions of Vegetation Strata:
5.	Rumex stenophyllus	10	N	FACW	
6	Alisma triviale	10	N	OBL	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.				•	
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
- · · · ·	Total Cover =	105			
	Total Cover -	100	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1.	ratum (1 101 SIZE. 30 II. Taulūs)				
2.					
3.					Hydrophytic Vegetation Present? Y
					Hydrophytic vegetation Present?
5.					
4.	T.1.0	^			
	Total Cover =	0	() DI		II. CT. I
Remarks:	The wetland vegetation is dominated by Eleo	cnaris pail	ustris, Pha	alaris arun	dinacea, and two species of Typna.
Additional R	Remarks:				