WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R									Date:	08/23/14		
Applicant:	• •									County:	Pennington	
Investigators:	· · · · · · · · · · · · · · · · · · ·			Subregion (MLRA or LRR): MLRA 56 NWI Classification:						State:	MN	
Soil Unit: Landform:	I62A Toeslope			_	cal Relief:		Classification:			Sample Point	w-154n44w18-a1	
Slope (%):	0 - 2%		atitude: 48.1		Longitude:		459	Datum:			W 10-111-1-W 10-d1	
. , ,		nditions on the site t						✓ Yes	□ No	Section:		
Are Vegetation				ly disturbed?			normal circum			Township:		
Are Vegetation			•	oblematic?			Yes	□ No ˈ		Range:	Dir:	
SUMMARY O	F FINDINGS											
				Yes			Hydric Soils Present?					
Wetland Hydrology Present?			Yes				Is This Sampling Poin					
Remarks:	The wet mea	adow community is	located at	the edge of a	shallow ma	arsh in a	n existing, clea	red utility co	orridor. All	parameters o	f wetland conditions are met.	
HYDROLOGY	Y											
_		cators (Check all th	nat apply; N	linimum of on	e primary	or two se	econdary requir	ed):				
Primary:					D11 0-11 (•			Secondary	_		
☑	A1 - Surface V A2 - High Wat				B11 - Salt 0 B13 - Aqua					B6 - Surface S		
V V	A3 - Saturation				C1 - Hydrog		e Odor			B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns		
	B1 - Water Ma				C2 - Dry Se				_		Rhizospheres on Living Roots (tille	d)
	B2 - Sediment	•			C3 - Oxidize	ed Rhizos	pheres on Living	Roots (not till		C8 - Crayfish E	Burrows	
	B3 - Drift Depo			□ C4 - Presence of Reduced Iron □							Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Depo			□ C7 - Thin Muck Surface□ Other (Explain)						D2 - Geomorphic Position D5 - FAC-Neutral Test		
		n Visible on Aerial Imag	aerv		Other (Expi	iaii i)					ved Hummocks (LRR F)	
	B9 - Water-Sta		, , ,								(=::::,	
Field Observ	vations:											
Surface Wate	er Present?	Yes ☑	Dep	:h: <u>1</u>	_ (in.)			Wetland H	lydrology	Present?	Υ	
Water Table	Present?	Yes ☑	Dep	th: 0	(in.)			vvetiana n	iyurology	rieseiit:	<u>'</u>	
Saturation Pr	esent?	Saturation Present? Yes Depth: 0 (in.)									4	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s				<u> </u>	ections),	if available:					
Describe Reco	<u>`</u>		oring well, a	erial photos, pro	<u> </u>	ections),	if available:					
	<u>`</u>	tream gauge, monito	oring well, a	erial photos, pro	<u> </u>	ections),	if available:					
Remarks:	Indicators of	tream gauge, monitor f wetland hydrology	oring well, a	erial photos, pro	evious insp	·						
Remarks: SOILS Profile Descri	Indicators of	tream gauge, monitor wetland hydrology be to the depth need	are preser	erial photos, pro	evious inspe	onfirm the	e absence of in					
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-22 22-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogen A5 - Stratified	be to the depth needetion, RM=Reduced Matrix Color (Moist) 2/1 2/1 5/1 Indicators (checking Sulfide Layers (LRR F)	oring well, action are preserted ded to doctrix, CS=Cover 10 10 70 ck here if in	crial photos, protest. ument the indicators are respectively. Standard Coated Sand Coate	Moist) Sedox I Matrix Mucky Mineral Gleyed Matrix d Matrix	Mottle % 5 25 t):	e absence of incre Lining, M=Matri	Location	C SC SC SC SC A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	streaking for Problemation fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic	Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-22 22-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogen A5 - Stratified A9 - 1 cm Muc	tream gauge, monitor f wetland hydrology be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 5/1 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	oring well, action are preserted ded to doctrix, CS=Cover 10 10 70 ck here if in	crial photos, protest. cument the indicators are respectively. S5 - Sandy R Hue_10YR Hue_10YR Color (Incomplete to the color) S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	Moist) Sedox I Matrix Mucky Minera Gleyed Matrix Dark Surface	Mottle % 5 25 t):	e absence of incre Lining, M=Matri	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FF	streaking for Problematic Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material	rganic content Soils LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-22 22-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogen A5 - Stratified A9 - 1 cm Muc A11 - Depleted	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 5/1 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	oring well, action are preserted ded to doctrix, CS=Cover 100 100 100 100 100 100 100 100 100 10	crial photos, protest. ument the indicators are respectively. Solution of the indicators are respectively. Solution of the indicators are respectively. Solution of the indicators and respectively.	Moist) Sedox I Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle % 5 25 t):	e absence of incre Lining, M=Matri	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	streaking for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark S	rganic content Soils LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w18-a1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	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: 2 (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.					ORL spp. 22 v 1 – 22
10.	_l Total Cover =	0			52 X 1 = 32 X 1 = 32 X 1 = 32 X 2 = 434
	Total Cover =	0	_		FACTOR Spp. $\frac{62}{2}$ $\times 2 = \frac{124}{2}$
0 1: /0	Otracticus (Diet sines AF ft and live)				OBL spp. 32
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{1}{\sqrt{5}}$ \times $\frac{4}{\sqrt{5}}$
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
3.					Total 100 (A) 175 (B)
4.					
5.					Prevalence Index = B/A = 1.750
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance 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.	Phalaris arundinacea	60	Υ	FACW	Problem riyarophytic vegetation (Explain)
			<u>'</u> Ү		* Indicators of hydric soil and wetland hydrology must be
2.	Scirpus pallidus	25	<u> </u>	OBL	present, unless disturbed or problematic.
3.	Echinochloa crus-galli	5	N N	FAC	
4.	Schoenoplectus tabernaemontani	5	N	OBL	Definitions of Vegetation Strata:
5.	Carex aurea	1	N	OBL	_
6	Bidens frondosa	1	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Symphyotrichum lateriflorum	1	N	FACW	height (DBH), regardless of height.
8.	Glyceria grandis	1	N	OBL	
9.	Ambrosia artemisiifolia	1	N	FACU	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.
15.	Total Cover	100			TVOOGY VIIIes - viii meedy viiies, reguiremeed er neeginii
	Total Cover =	100	_		
	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	A wet meadow community dominated by reed	d canary g	rass and b	olack bulru	ush with many additional species at low coverage. Hydrophytic vegetation is
	present.	, ,			
	•				
۸ ماما:۱: م ۱ ا	Pomorko:				
Additional I	nemarks:				