WETLAND DETERMINATION DATA FORM - Great Plains Region

wetland

Project/Site: Keystore M- Phase IV	Gity/County: Harding Sampling Date: 11/5/10
Applicant/Owner: TransCanada-Trow -KKL	State: SD Sampling Point: W500 HA00 4
Investigator(s): 6500	Section, Township, Range: Sec3, 19N, 4E
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): 1/alley Slope (%):
Subregion (LRR): Northern Great plains Lat: -	Long: Datum:
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes <u>k</u> No (If no, explain in Remarks.)
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} significantly	disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology \underline{N} naturally pro-	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes K No	
Hydric Soil Present? Yes X No	within a Wetland?
Wetland Hydrology Present? Yes <u>Y</u> No	
Remarks: PEM Located w/in valley.	

VEGETATION - Use scientific names of plants.

1/1	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: // //	<u>% Cover Species?</u> Status	Number of Dominant Species
2		(excluding FAC-):
3.		Total Number of Dominant
4.		Species Across All Strata: (B)
14	= Total Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:/V/		That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3 A		OBL species x 1 =
5		FACW species x 2 =
	= Total Cover	FAC species x 3 =
Herb Stratum (Plot size:)		FACU species x 4 =
1. Elymus virginiana	15 N	UPL species x 5 =
2. J. baltreus	10 N OBL	Column Totals: (A) (B)
3. Corex sp.	ds y fac	Prevalence Index = B/A =
5 pasacaus spicate		Hydrophytic Vegetation Indicators:
6		L 1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
0		3 - Prevalence Index is ≤3.0 ¹
9		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
10		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	<u>90_</u> = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.		Hydrophytic
% Bare Ground in Herb Stratum5%	= Total Cover	Vegetation Present? Yes <u>No</u>
Remarks:		
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SOIL

Sampling Point: WS00HA004

Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	<u>%</u> <u>Typ</u>	e' Loc		Remarks		
0-8	10YR 4/1	98	10 YR 5/4	d C	M	Sandy l	can p.		
8-15	10 YR 5/1	95	104R514	5 C	. M	Schody	day loam.		
						- /	1		
	and the second second			The second second					
-		-	2						
	-		Service and				is a new source that where		
1			1			2			
Type: C=Co Hydric Soil	oncentration, D=Dep Indicators: (Applic	oletion, RM≍F cable to all L	Reduced Matrix, CS	S=Covered or Co wise noted.)	bated Sand G	Indicators for Prob	ematic Hvdric Soils ³ :		
Histosol	(A1)		Sandy (Reved Matrix (S	(4)	1 cm Muck (A9)	(I RR I J)		
Histic Fr	ninedon (A2)		Sandy F	Redox (S5)	()	Coast Prairie Redox (A16) (LRR F. G. H)			
Black Hi	stic (A3)		Stripped	Matrix (S6)		Dark Surface (S7) (LRR G)			
Hydroge	n Sulfide (A4)		Loamy !	Mucky Mineral (I	F1)	High Plains Depressions (F16)			
Stratified	Layers (A5) (LRR	F)	Loamy	Gleyed Matrix (F	-2)	(LRR H outside of MLRA 72 & 73)			
1 cm Mu	ick (A9) (LRR F, G,	H)	X Deplete	d Matrix (F3)		Reduced Vertic (F18)			
Depleted	d Below Dark Surfac	ce (A11)	Redox [Dark Surface (F6	5)	Red Parent Mat	Red Parent Material (TF2)		
Thick Da	ark Surface (A12)		Deplete	d Dark Surface	(F7)	Very Shallow Da	ark Surface (TF12)		
Sandy N	lucky Mineral (S1)	10495	Redox [Depressions (F8)	Other (Explain in	n Remarks)		
2.5 cm M	Aucky Peat or Peat	(S2) (LRR G,	H) High Pla	ains Depression	s (F16)	Indicators of hydrop	hytic vegetation and		
5 cm Mu	icky Peat or Peat (S	53) (LRR F)	(ML	RA 72 & 73 of L	RR H)	wetland hydrolog	gy must be present,		
Restrictive	aver (if present):	- in the second					or problematic.		
Tunor	Layer (il present).								
Type.							A M		
Depth (In	ches):		-	Second and		Hydric Soil Present	Yes No		
Remarks:									
		1			1.11				
YDROLO	GY								
Wetland Hy	drology Indicators	:				S. F. Barrow			
Primary India	cators (minimum of	one required;	check all that appl	y)		Secondary Indicat	ors (minimum of two required)		
Surface	Water (A1)		Salt Crust	(B11)		K Surface Soil (Cracks (B6)		
High Wa	ater Table (A2)		Aquatic In	vertebrates (B13	3)	Sparsely Veg	etated Concave Surface (B8)		
X Saturatio	on (A3)		Hydrogen	Sulfide Odor (C	1)	K Drainage Pat	erns (B10)		
Water M	larks (B1)		Dry-Seaso	on Water Table (C2)	Oxidized Rhiz	cospheres on Living Roots (C3)		
Sediment Deposits (B2)			Oxidized P	Rhizospheres on	Living Roots	(C3) (where tille	d)		
Drift Dep	posits (B3)		(where i	not tilled)		Crayfish Burn	ows (C8)		
Algal Ma	at or Crust (B4)		Presence	of Reduced Iron	(C4)	Saturation Vis	sible on Aerial Imagery (C9)		
Iron Dep	oosits (B5)		Thin Muck	Surface (C7)		K Geomorphic I	Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Other (Exp	Other (Explain in Remarks)			Test (D5)			
Water-Stained Leaves (B9)					,	Frost-Heave	Hummocks (D7) (LRR F)		
Field Obser	vations:	-	100 100 100 100 100 100 100 100 100 100		1		······································		
Surface Wat	er Present?	Yes N	Denth (in	ches):					
Nater Table	Present?	Yes N	Depth (in	ches):					
Saturation D			Deput (in	chee):		land Hydrology Drogon	2 Yos X No		
includes car	pillary fringe)	Nes N	Depth (in	cnes):	wet	iand Hydrology Presen			
Describe Re	corded Data (stream	n gauge, mon	itoring well, aerial	photos, previous	inspections)	, if available:			
Remarks:					5 E. J. L. P.		and the second		