

Wetland Determination Data Form

Feature ID: W104TR001

<input checked="" type="checkbox"/> Centerline <input type="checkbox"/> Re-Route <input type="checkbox"/> Access Road <input type="checkbox"/> Ancillary Facility <input type="checkbox"/> Transmission Line <input type="checkbox"/> Other			
Survey Description: DEPRESSION			
Centerline ID: 2009215CL			
Date: 2009/04/22	Client/Project Name: Keystone XL- 10623-007		
Investigators: BEB & RAR	Milepost: 574.61 - 574.69	Tract No.: ML-SD-TR-11365.000	
State/County: SD - Tripp	Section, Township, Range: T 97 N R 76 W		
Lat/Long: 43.247735*	Quad Name: Wewela NE	Region: Western Great Plains	
Subregion (LRR or MLRA): LRR G	Datum: NAD 83	Soil Map Name: Doger	
NWI classification: PEM	Landform (Hillslope, Terrace, etc.): DEPRESSION		
Local Relief (Concave, Convex, None): CONCAVE	Slope (%): 0		
Logbook No.: 1	Logbook Page No.: 5		
Are climatic/hydrologic conditions on the site typical for this time of year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Are "Normal Circumstances" present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Significantly Disturbed: <input type="checkbox"/> Vegetation <input type="checkbox"/> Soil <input type="checkbox"/> Hydrology <input checked="" type="checkbox"/> None			
Naturally Problematic: <input type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Hydrology <input type="checkbox"/> None			
Wetland Type: <input type="checkbox"/> PFO <input checked="" type="checkbox"/> PEM <input type="checkbox"/> PSS <input type="checkbox"/> Other			
Remarks: NO REDOX			

VEGETATION

VEGETATION - Tree Stratum			
Plot Size: NA			
Scientific And Common Name	% Cover	Dominant	Indicator
Total Cover: 0			
VEGETATION - Sapling Stratum			
Plot Size: NA			
Scientific And Common Name	% Cover	Dominant	Indicator
Total Cover: 0			
VEGETATION - Shrub Stratum			
Plot Size: NA			
Scientific And Common Name	% Cover	Dominant	Indicator
Total Cover: 0			
VEGETATION - Herb Stratum			
Plot Size: NA			
Scientific And Common Name	% Cover	Dominant	Indicator
Juncus balticus	10	NO	OBL
Juncus balticus	10	NO	OBL
Panicum virgatum	20	YES	FAC
Spartina pectinata	40	YES	FACW
Spartina pectinata	40	YES	FACW
Sporobolus airoides	20	YES	FAC
Total Cover: 70			

VEGETATION - Vine Stratum

Plot Size: **NA**

Scientific And Common Name	% Cover	Dominant	Indicator
Total Cover: 0			

Dominance Test Worksheet:		Prevalence Index Worksheet:		
Number of Dominant Species that are OBL, FACW, or FAC:	2	Total % Cover of:		
Total Number of Dominant Species Across All Strata:	2	OBL Species:	10 X 1 =	10
Percent of Dominant Species that are OBL, FACW, or FAC:	100	FACW Species:	40 X 2 =	80
		FAC Species:	20 X 3 =	60
		FACU Species:	0 X 4 =	0
		UPL Species:	0 X 5 =	0
		Column Totals:	70 (A)	150 (B)
			PI = B/A	2.1

Hydrophytic Vegetation Indicators

Rapid Test for Hydrophytic Vegetation
 Prevalence index is < 3
 Morphological Adaptations
 Problematic Hydrophytic Vegetation
 Dominance Test is >50%
 None

Nonvascular Plants

Scientific And Common Name	% Cover
Mean % Wetland Specialist Bryophytes:	0

Hydrophytic Vegetation Present? Yes No Unknown

Remarks:

HYDROLOGY

Primary Indicators

HIGH WATER TABLE (A2)
 SATURATION (A3)
 SURFACE WATER (A1)

Secondary Indicators

DRAINAGE PATTERNS IN WETLANDS (B10)
 FAC-NEUTRAL TEST (D5)
 GEOMORPHIC POSITION (D2)

Field Observations

Surface Water Present: Yes No Unknown Depth (inches): 2
 Water Table Present: Yes No Unknown Depth (inches): 0
 Saturation Present: Yes No Unknown Depth (inches): 0
 Wetland Hydrology Present? Yes No Unknown

Remarks:

HYDRIC SOIL

Soil Profile Description								
Depth (in)	Matrix		Redox Features				Texture	Remarks
	Color (Moist)	%	Color (Moist)	%	Type	Loc		
0-4	10 YR 2/1	100	NA	0			LOAM	HIGH ORGANIC
4-6	10 YR 2/1	100	NA	0			SANDY LOAM	
6-20	7.5 YR 3/2	100	NA	0				

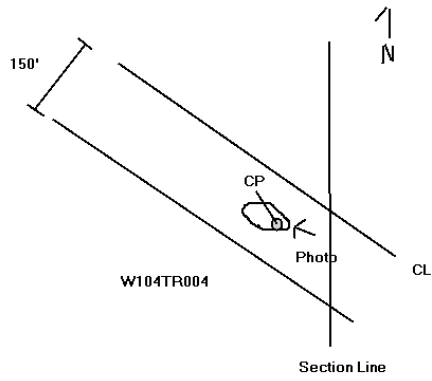
Matrix Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Sand or Coated Sand Grains. 2 Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators	
OTHER (EXPLAIN)	
Problematic Hydric Soil:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Hydric Soil Criteria:	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2(A) <input type="checkbox"/> 2(B)(1) <input type="checkbox"/> 2(B)(2) <input type="checkbox"/> 2(B)(3) <input type="checkbox"/> 3 <input type="checkbox"/> 4
Restrictive Layer Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
Hydric Soil Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Remarks: NO REDOX	

JURISDICTIONAL DETERMINATION

Sampling Point Within a Wetland:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Isolated Wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Wetland Proximity Associated Waterbody:	<input type="checkbox"/> Adjacent <input type="checkbox"/> Abutting <input checked="" type="checkbox"/> Unknown		
Associated Waterbody Name or Feature ID#:			
Berm or Barrier Separation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown		
Flow Type between Wetland and Stream:	<input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> No Flow		
Surface flow between Wetland and Stream:	<input type="checkbox"/> Discrete <input type="checkbox"/> Confined <input type="checkbox"/> Discrete and Confined <input type="checkbox"/> Overland Sheet-flow <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Unknown		
Direction of Surface flow between Wetland and Waterbody :	<input type="checkbox"/> From Wetland to Waterbody <input type="checkbox"/> From Waterbody to Wetland <input type="checkbox"/> Both To/From Wetland to Waterbod <input checked="" type="checkbox"/> No Flow <input type="checkbox"/> Unknown		
Subsurface Connection:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown		
Surface Water Appearance:	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Floating Algal Mats <input type="checkbox"/> Grenish Color <input type="checkbox"/> Obvious Surface Scum <input type="checkbox"/> Other <input type="checkbox"/> Sheen On Surface <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Turbid <input type="checkbox"/> Very Turbid <input type="checkbox"/> No Flow		
Wetland Supports Riparian Buffer:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
Wetland Quality	<input type="checkbox"/> High <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Low		
Remarks:			

Sketch



Description of Habitat Characteristics, Aquatic Terrestrial Diversity or General Comments

General Comments