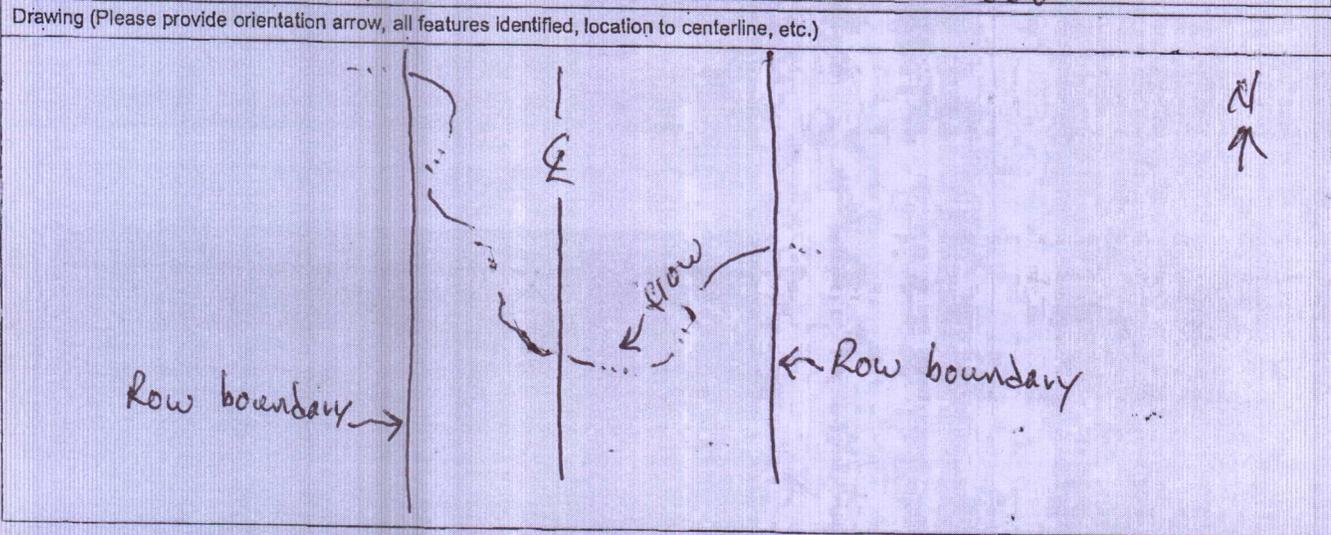


### Waterbody Data Form

S304HA001

Centerline  
  Re-Route  
  Access Road  
  Ancillary Facility  
  Transmission Line  
  Other

Centerline ID:		Project Designated Name:	
Date: 10/22/12	Client/Project Name: Keystone XL Pipeline		Milepost Enter/Exit: 333.95
Team: 304	State/County: SD/Harding		Quad Name:
Logbook No.: 1	Logbook Page No.: 7	Tract No.: ML-SD-HA-02400.000	



Waterbody Type:	<input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Borrow Pit <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Ag. Ditch <input type="checkbox"/> Other
Stream Flow:	<input type="checkbox"/> Fast <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow <input checked="" type="checkbox"/> None
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input checked="" type="checkbox"/> Intermittent (Flows <3 month) <input type="checkbox"/> None <input type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input type="checkbox"/> Ephemeral (Flows only in response to rainfall)
Direction of Flow:	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input checked="" type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	8'
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	8-10'      Water Surface (At Crossing Location) N/A
Stream Depth (ft.):	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1-3 <input type="checkbox"/> 3-6 <input type="checkbox"/> 6-12 <input type="checkbox"/> 12-18 <input type="checkbox"/> 18-24 <input type="checkbox"/> 24-36 <input type="checkbox"/> 36-48 <input type="checkbox"/> 48-60 <input type="checkbox"/> 60+
OHWM Indicators:	Emergent vegetation line
Bank Height (ft.): (Looking Downstream)	Left: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+ Right: <input type="checkbox"/> 0-2 <input checked="" type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input type="checkbox"/> 6-8 <input type="checkbox"/> 8+
Bank Slope: (Looking Downstream)	Left: <input type="checkbox"/> 4:1 <input checked="" type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input type="checkbox"/> Vertical Right: <input type="checkbox"/> 4:1 <input checked="" type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input type="checkbox"/> 1:1 <input type="checkbox"/> Vertical

Photos: S304HA001-001W  
 S304HA001-002E  
 S304HA001-003S  
 S304HA001-004N

Qualitative Attributes

Water Appearance:

<input type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input checked="" type="checkbox"/> No Flow	<input type="checkbox"/> Other:		

Stream Substrate %: Silt - 100%

Aquatic Habitats:

<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffle	<input checked="" type="checkbox"/> In-stream Emergent Plant <u>100%</u> Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plant % Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input type="checkbox"/> Fringing Wetlands Characteristics:
<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input type="checkbox"/> None

Aquatic Organisms Observed: None

Riparian Zone:

Width of Natural Vegetation Zone from Edge of Active Channel out to Flood Plain (ft): Left - 4' Right - 15'

Vegetative Layers:  Herbs  Shrubs  Trees  Multiple

Significant Bare Areas Within Riparian Zone  Yes  No  Unknown

Evidence Of Non-Buffered Concentrated Flows:  Yes  No  Unknown

Tributary Condition:  Natural  Artificial (Man-Made)  Manipulated

Channel Condition:  Channelization/Braiding  Unnatural Straightening  Downcutting  
 Dikes/Berms  Excessive Bank Erosion  N/A

Disturbances:  Livestock Access to Riparian Zone  Manure In Stream or On Banks  
 Waste Discharge Pipes Present  
 Other:

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Habitat ID Number:

Comments:

Stream Quality:  High  Moderate  Low