

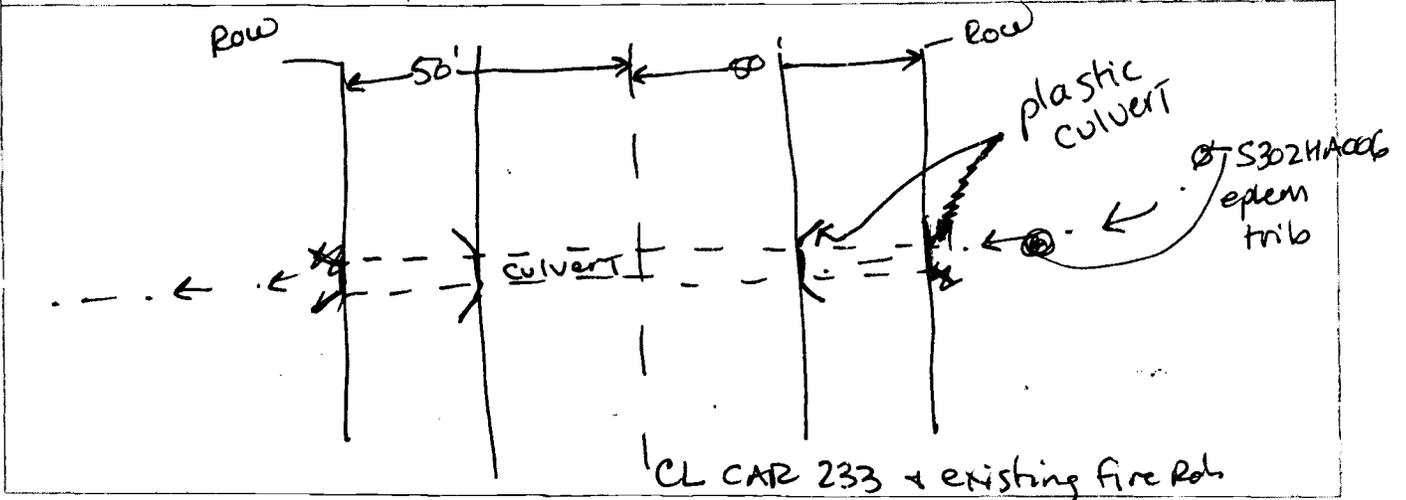
Waterbody Data Form

S302 HA006
CAR 233

Centerline Re-Route Access Road Ancillary Facility Transmission Line Other

Centerline ID: <i>issued 2012-07-07</i>		Project Designated Name: <i>KYL pipeline</i>	
Date: <i>7.18.12</i>	Client/Project Name:		Milepost Enter/Exit: <i>CAR 233 MP 1.0</i>
Team: <i>Bio 302</i>	State/County: <i>* SD/HA</i>		Quad Name:
Logbook No.:	Logbook Page No.:	Tract No.: <i>AR-SD-HA-13150.000</i>	

Drawing (Please provide orientation arrow, all features identified, location to centerline, etc.)



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 - <i>ephem</i>
Flow Type:	<input type="checkbox"/> Perennial (Flows year round) <input type="checkbox"/> Intermittent (Flows <3 month) <input type="checkbox"/> None <input checked="" type="checkbox"/> Seasonal (Continuous flow ≥ 3 months) <input checked="" 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 checked="" type="checkbox"/> S <input checked="" type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Flow
OHWM Width (ft.):	<i>2'</i>
Sinuosity:	<input type="checkbox"/> Braided <input checked="" type="checkbox"/> Meandering <input type="checkbox"/> Straight <input type="checkbox"/> N/A
Stream Width (ft.):	<i>TOB → TOB = 4'</i> Water Surface (At Crossing Location) <i>None - impacted by roadn culvert</i>
Stream Depth (ft.):	<input 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:	<i>bedn bank - disturbed w/in existing roadway</i>
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 type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input checked="" type="checkbox"/> 1:1 <input type="checkbox"/> Vertical Right: <input type="checkbox"/> 4:1 <input type="checkbox"/> 3:1 <input type="checkbox"/> 2:1 <input checked="" type="checkbox"/> 1:1 <input type="checkbox"/> Vertical

photos: -001 NW
-002 N (up)
-003 SW (down)
-004/W

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Qualitative Attributes

Water Appearance:
 Clear Turbid Sheen on Surface Floating Algal Mats
 Slightly Turbid Very Turbid Greenish Color Obvious Surface Scum
 No Flow Other:

Stream Substrate %: *Sand / Silt*

Aquatic Habitats:
 Sand Bar Gravel Riffle In-stream Emergent Plant % Cover:
 Gravel Bar Deep Pools In-stream Submerged Plant % Cover:
 Mud Bar Bank Root Systems Fringing Wetlands Characteristics:
 Undercut Banks Overhanging Trees/Shrubs None

Aquatic Organisms Observed: *dragon/damselflies*

Riparian Zone:

Width of Natural Vegetation Zone from Edge of Active Channel out to Flood Plain (ft): Left - 100' Right - 100'

Vegetative Layers: Herbs Shrubs Trees Multiple

Significant Bare Areas Within Riparian Zone Yes No Unknown

Evidence Of Non-Buffered Concentrated Flows: Yes No Unknown ? *some blow-outs upgradient perhaps*

Tributary Condition: Natural Artificial (Man-Made) Manipulated - *Fire Rd. + culvert*

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

Disturbances: Livestock Access to Riparian Zone Manure In Stream or On Banks
 Waste Discharge Pipes Present
 Other: *fire Rd. | field Rd. + ^{15"} corrugated plastic culvert*

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Habitat ID Number: *low spp. + structural diversity w/ in flow.*

Comments:

Stream Quality: High Moderate Low - *disturbed*