

Fish Passage Evaluation Data Sheet

Stream: Lemon Cr culvert #1

Road #233

Passage ID: _____

Coordinates: Lat 44° 15.732 Long 119° 15.399

Date: 7/06/17

Crew: Neal

General

Type: **Culvert** | Irrigation | Other Dam | Natural

Rating: **RED** | GREY | GREEN

Fish bearing: No | below only | **above** | potentially

Impassable| **adults only**| juveniles| meets criteria

Jump height to Pool: 0.0 ft,

Depth of jump Pool: 0.6 ft Length of Jump Pool: 1.1 ft

Depth of downstream controlling riffle: 0.1 ft

Debris blocking jump pool: **Yes** / No **Thick debris**

blocking jump pool

Water Velocity: Above: 10ft / 15.83 seconds = 0.6 fps

Below: 10ft / 21.22 seconds = 0.5 fps

Stream Substrate size: 10 mm (Fine Serpentine)

Potential for debris blockage at inlet: **Yes** | No

Stream Slope: Above: rise: 2.31 ft, run: 45.0 ft = 5.1 %

Below: rise: 0.4 ft, run: 45.0 ft = 0.8 %

Culvert statistics

Shape: **Circular** | Smashed | Damaged

Material: **CMP** | Other

Condition: Bent inlet | **Debris plugging Outlet** | Bottom worn through| **Water under culvert** |

Top of culvert creates 8" bump in the road

Structural Condition: Good | Fair | **Poor** | Critical

Length: 27.5 ft, Width: 3.0 ft, Height: 3.0 ft

Culvert Slope: rise: 2.75 ft / run: 27.5 ft = 10.0%

Substrate inside of Culvert: **Fine silt plugging lower 1/3 of culvert**

Inlet

Blockage: **None** | <10% | >10%

Outfall

Drop to Pool: 0.0 ft [perch height]

Depth of Pool: 0.6 ft Length of Jump Pool: 1.1 ft

Depth of downstream controlling riffle: 0.1 ft

Bankfull Width/Active Channel Width

Bankfull Width at Culvert inlet: 20.8 ft

Two bankfull width measurements above and three below culvert

$$\underline{7.9\text{ft}} + \underline{7.5\text{ft}} + \underline{8.6\text{ft}} + \underline{7.3\text{ft}} + \underline{7.7\text{ft}} / 5 = \underline{7.8\text{ft}}$$

Road Width: 13.0 ft

Surface: Dirt | **Gravel** | Pavement

Road Surface Height Above Inlet: 1.95 ft **Top of culvert inlet is 1 foot above the surface of the road**

Road Skewed from Culvert: 5 degrees

Wildlife

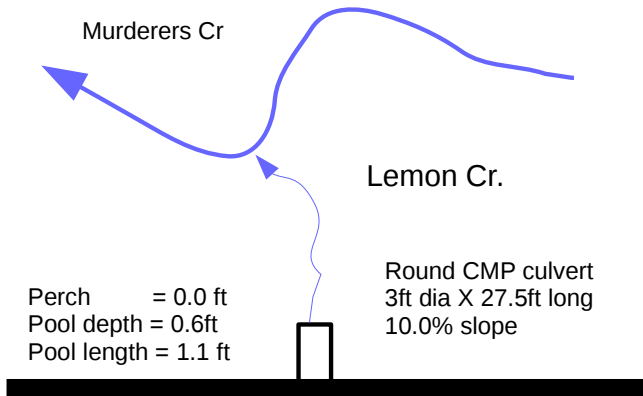
Beaver Presence: Yes | **No**

Beaver Created Obstruction: Yes | **No**

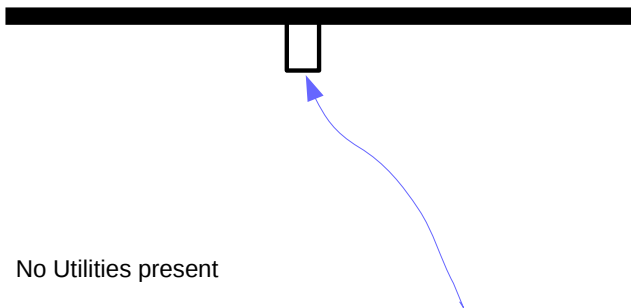
Additional Miles Accessed: 0.68 mi

Sketch

North 



USFS Rd 233
Road surface width = 13.0 ft
Skewed 5° from stream





Lemon Cr culvert # 1 outlet plugged with debris



Culvert Inlet and road bed showing bump