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| Barrier Evaluation Form - Multiple Culverts at Crossing | | | | | | | | | | | | | | | | | | | | | |
| **Location Information** | | | | | | | | | | | | | | | | | | | | | |
| Project Name: **Coulter Creek Culvert #1** | | | | | | | SRFB Project #: 11-1347 | | | | | | | | | County: **Chelan** | | | | | |
| Parcel #: | | | | | | | HPA #: N/A | | | | | | | | | | | | | | |
| GPS Location: Datum - WGS84 - decimal degrees | | | | | | | Latitude: 47.765336N | | | | | | | | | Longitude: 120.80312W | | | | | |
| ¼ Section: NE of the SE | | Section: 11 | | | | | Township: 26N | | | | | | | | | Range: 16  East  West | | | | | |
| Stream Name: **Coulter Creek** | | | | | | | Tributary To: Nason Creek | | | | | | | | | | | | | WRIA #: **45** | |
| Driving Directions: The culverts can be accessed from Highway 2 – 0.5 miles from the Washington State rest stop then left onto West Dardenelles Road. This is a private gravel road that crossed Coulter Creek at RM 0.4. | | | | | | | | | | | | | | | | | | | | | |
| **Landowner Information** | | | | | | | | | | | | | | | | | | | | | |
| Landowner Name: Ralph Byther | | | | | | | | | Mailing Address: PO Box 923 | | | | | | | | | | | | |
| City: Graham | | State: WA | | | | | | | Zip: 98338 | | | | | | | | Phone: 253-847-6675 | | | | |
| Cell: (   ) | | | | | Fax: (   ) | | | | | | | Email: dbyther\_ms@msn.com | | | | | | | | | |
| Landowner Agent: Mike Kane | | | | | | | | | Mailing Address: 316 Washington Street, Suite 401 | | | | | | | | | | | | |
| City: Wenatchee | | | State: Wa | | | | | | Zip: 98801 | | | | | | | | Phone: (509-667-6467) | | | | |
| Cell: (   ) | | | | Fax: (   ) | | | | | | | | Email: Mike.Kane@CO.CHELAN.WA.US | | | | | | | | | |
| **Evaluator Information** | | | | | | | | | | | | | | | | | | | | | |
| Evaluator Name: **Colin Forsyth** | | | | | | | | Affiliation: **Bureau of Reclamation** | | | | | | | | | | | | | |
| Mailing Address: **301 Yakima St., Room 319** | | | | | | | | City: **Wenatchee** | | | | | | State: **WA** | | | | | | Zip: **98801** | |
| Phone: **509-708-8320** | | | Fax: | | | | | Cell: | | | | | | Email: **cforsyth@usbr.gov** | | | | | | | |
| **Barrier Information (measurements in meters)** | | | | | | | | | | | | | | | | | | | | | |
| Is the stream fish-bearing?  Yes  No  Unknown | | | | | | | | | Species, if known: Steelhead | | | | | | | | | Date of Visit: 06/01/2011 | | | |
| Fish-bearing criteria:  Fish Observation  Stream Type  SSASI/Stream Catalog  Physical Criteria  Other: | | | | | | | | | | | | | | | | | | | | | |
| Stream flow:  Perennial  Intermittent  Unknown Source of information: | | | | | | | | | | | | | | | | | | | | | |
| Will this culvert be entered into the WDFW-FPDSI database?  Yes  No If yes, Site ID #: | | | | | | | | | | | | | | | | | | | | Culvert 1 of **2** | |
| Shape: **RND** | Material: **CST** | | | | | Apron:  None  Upstream  Downstream Both | | | | | | | | | | | | | | | Span/Diam: **0.14** |
| Rise: **0.61m** | Length: **6.096m** | | | | | Water depth in culvert: **0.24** | | | | | | | Water Surface Drop(WSD): **0.15** | | | | | | | | |
| Drop Location:  Outlet  Inlet  Inside | | | | | | Countersunk:  Yes  No Unknown | | | | | | | | | Culvert Slope(%): **3.5** | | | | | | |
| Bankfull width (upstream of culvert): 2.59 | | | | | | Culvert span/bankfull width ratio: **0.47** (Add all spans, divide by bankfull width) | | | | | | | | | | | | | | | |
| Plunge pool: Length to tailout: **4.42** OHW width: **3.26** Max depth: **0.75** | | | | | | | | | | | Road fill at DS end: **1.22** | | | | | | | | Road width: | | |
| Fishway Present?  Yes  No  Unknown (if yes, describe in comments) | | | | | | | | | | | Tide gate Present?  Yes  No  Unknown | | | | | | | | | | |
| Is this culvert a fish passage barrier?  Yes  No  Unknown  Level B needed | | | | | | | | | | | | | | | | | | | | | |
| Problem with culvert:  WSD  Slope  Velocity  Depth | | | | | | | | | | Percent passability:  0%  33%  67%  100% | | | | | | | | | | | |
| Habitat Quality:  Excellent  Good  Poor  Unknown | | | | | | | | | | | | | | | | | | | | | |
| Comments(Describe crossing condition, fish observations, habitat quality etc): | | | | | | | | | | | | | | | | | | | | | |
| Barrier Evaluation Form - Multiple Culverts at Crossing | | | | | | | | | | | | | | | | | | | | | |
| Location Information | | | | | | | | | | | | | | | | | | | | | |
| Project Name: **Coulter Creek #2** | | | | | | | SRFB Project #: 11-1347 | | | | | | | | | County: **Chelan** | | | | | |
| Parcel #: | | | | | | | HPA #: N/A | | | | | | | | | | | | | | |
| GPS Location: Datum - WGS84 - decimal degrees | | | | | | | Latitude: 47.765336N | | | | | | | | | Longitude: 120.80312W | | | | | |
| ¼ Section: NE of the SE | | Section: 11 | | | | | Township: 26N | | | | | | | | | ¼ Section: NE of the SE | | | | | |
| Stream Name: **Coulter Creek** | | | | | | | Tributary To: Nason Creek | | | | | | | | | | | | | WRIA #: **45** | |
| Driving Directions: The culverts can be accessed from Highway 2 – 0.5 miles from the Washington State rest stop then left onto West Dardenelles Road. This is a private gravel road that crossed Coulter Creek at RM 0.4. | | | | | | | | | | | | | | | | | | | | | |
| **Landowner Information** | | | | | | | | | | | | | | | | | | | | | |
| Landowner Name: Ralph Byther | | | | | | | | | Mailing Address: PO Box 923 | | | | | | | | | | | | |
| City: Graham | | State: WA | | | | | | | Zip: 98338 | | | | | | | | Phone: 253-847-6675 | | | | |
| Cell: (   ) | | | | | Fax: (   ) | | | | | | | Email: dbyther\_ms@msn.com | | | | | | | | | |
| Landowner Agent: Mike Kane | | | | | | | | | Mailing Address: 316 Washington Street, Suite 401 | | | | | | | | | | | | |
| City: Wenatchee | | | State: Wa | | | | | | Zip: 98801 | | | | | | | | Phone: (509-667-6467) | | | | |
| Cell: (   ) | | | | Fax: (   ) | | | | | | | | Email: Mike.Kane@CO.CHELAN.WA.US | | | | | | | | | |
| **Evaluator Information** | | | | | | | | | | | | | | | | | | | | | |
| Evaluator Name: **Colin Forsyth** | | | | | | | | Affiliation: **Bureau of Reclamation** | | | | | | | | | | | | | |
| Mailing Address: **301 Yakima St., Room 319** | | | | | | | | City: **Wenatchee** | | | | | | State: **WA** | | | | | | Zip: **98801** | |
| Phone: **509-708-8320** | | | Fax: | | | | | Cell: | | | | | | Email: **cforsyth@usbr.gov** | | | | | | | |
| **Barrier Information (measurements in meters)** | | | | | | | | | | | | | | | | | | | | | |
| Is the stream fish-bearing?  Yes  No  Unknown | | | | | | | | | Species, if known: | | | | | | | | | Date of Visit: 06/01/2011 | | | |
| Fish-bearing criteria:  Fish Observation  Stream Type  SSASI/Stream Catalog  Physical Criteria  Other: | | | | | | | | | | | | | | | | | | | | | |
| Stream flow:  Perennial  Intermittent  Unknown Source of information: | | | | | | | | | | | | | | | | | | | | | |
| Will this culvert be entered into the WDFW-FPDSI database?  Yes  No If yes, Site ID #: | | | | | | | | | | | | | | | | | | | | Culvert 2 of **2** | |
| Shape: **RND** | Material: **CST** | | | | | Apron:  None  Upstream  Downstream Both | | | | | | | | | | | | | | | Span/Diam: **0.14** |
| Rise: **0.61m** | Length: **6.096m** | | | | | Water depth in culvert: **0.25** | | | | | | | Water Surface Drop(WSD): **0.8** | | | | | | | | |
| Drop Location:  Outlet  Inlet  Inside | | | | | | Countersunk:  Yes  No Unknown | | | | | | | | | Culvert Slope(%): **3.75** | | | | | | |
| Bankfull width (upstream of culvert): 2.59 | | | | | | Culvert span/bankfull width ratio: **0.47** (Add all spans, divide by bankfull width) | | | | | | | | | | | | | | | |
| Plunge pool: Length to tailout: **4.42** OHW width: **3.26** Max depth: **0.75** | | | | | | | | | | | Road fill at DS end: **1.22** | | | | | | | | Road width: | | |
| Fishway Present?  Yes  No  Unknown (if yes, describe in comments) | | | | | | | | | | | Tide gate Present?  Yes  No  Unknown | | | | | | | | | | |
| Is this culvert a fish passage barrier?  Yes  No  Unknown  Level B needed | | | | | | | | | | | | | | | | | | | | | |
| Problem with culvert:  WSD  Slope  Velocity  Depth | | | | | | | | | | Percent passability:  0%  33%  67%  100% | | | | | | | | | | | |
| Habitat Quality:  Excellent  Good  Poor  Unknown | | | | | | | | | | | | | | | | | | | | | |
| Comments(Describe crossing condition, fish observations, habitat quality etc): | | | | | | | | | | | | | | | | | | | | | |