| Bridge Culvert Inspection | | | | | | | | | | | | | | | |
|--|----------|------------------------|---|------------|----------------|--|---|-------------|--------------|-----------------|-----------------------|---------|--|--|--|
| Bridge File Number 70937 | | | 1 Bridge Culver | | Form Type | | | CULM | | | | | | | |
| Year Built 1969 | | | | | | Lot No. | | 2 | | | | | | | |
| Bridge or Town Name MYRN | | | ١M | | Inspector Name | | Jason Saly | | | | | | | | |
| Located Over TRIBU WATER | | | UTARY TO SLAWA CREEK, 6.19.2, FRCRS-ST | | | | | or Class | | BR CLS A | | | | | |
| Located On 45:08 C | | | C1 44.179 | | | | | nt Name | | | | | | | |
| Water Body Cl./Year | | | | | | | Inspection Date | | | 22 Jan 2012 | | | | | |
| Navigabil. Cl./Year | | | | | | | Data E | otry By | | Azeia Chavez | | | | | |
| Legal Land Location SW SE | | | C 15 TWP 54 R | GE 8 W4I | М | | Data E | ntry Date | | 25-Feb-2013 | - | | | | |
| Longitude, Latitude -111:06 | |)6:25, 53:39:27 | | | | | | | John O'Brien | | | | | | |
| Road Authority Alberta | | Alberta | a Transportation (AIT) | | | | | Date | | 13-Feb-2013 | | | | | |
| Contract Main. Area CMA1 | | CMA15 | 5 | | | | | leviewer Na | ame | Chris Black | | | | | |
| Clear Roadway | /Skew | 9 / | | | | | | eview Date |)) | 14-Mar-2013 | | | | | |
| AADT/Year | | 580 / 20 | 011 (A) | | | | Follow- | Up Bv | | | | | | | |
| Road Classifica | ition | RAU-20 | 09-110 | | | | | -1 2 | | | | | | | |
| Detour Length (| (km) | 6 | | | | | | | | | | | | | |
| Bridge Culvert | Inform | ation | | | | | | | | | | | | | |
| Number of Culv | verts | | 2 | | | | | | | | 1 | | | | |
| Pipe # | Barrel | | Span | Rise (or I | Dia.) Type | | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | | |
| 1 | MAIN | | 2019 | 2226 | | SPE | | 50 | | 152X51 | 2.8 | ELLIPSE | | | |
| 2 | MAIN | | - | 914 | | MP | | 50 | | 68X13 2.8 ROUND | | | | | |
| Special Features | | | | | | | | | | | | | | | |
| Special Feature | es Comn | nent | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | | | |
| Utility Attachments | | | | | | | | | | | | | | | |
| Telephone | Plowe | Plowed in South ditch. | | | | | | | | | | | | | |
| Power | 3 wire | OH 25r | n North of c/l alo | line. | | Municip | bal | | | | | | | | |
| Others | ers | | | | | | Probler | n (Y/N) N | 0 | | | | | | |
| Remarks | | | | | | | | | | | | | | | |
| Approa | | | | | | ch Road | l / Emba | ankment | | | | | | | |
| | | | | | Last | Now | Explan | ation of Co | ondit | ion | | | | | |
| Horizontal Align | ment | | | | 7 | 7 | Long grade up to West over 2 crest curves. No passing WB. | | | | | | | | |
| Vertical Alignme | ent | | 0.000 | | 6 | 6 | _09 9 | | | | | .9 | | | |
| Roadway Width | n (m) | | 9.300 | | | | | | | | | | | | |
| Embankment | | | | 6 | N | (Riprap in drainage ditch @ SE corner. 07Jun2011) - Snow covered, | | | | | | | | | |
| Sideslope (| .:1) | | 2.5 | | | | | | | | | | | | |
| (Height of Cov | ver(m) : | 4.7) | | | | | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | Damaged down turned terminal end at SE. Broken post along S rail. | | | | | | | | | |
| Approach Roa | d / Emb | bankme | nt General Rat | ing | 6 | 6 | | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | Explan | ation of Co | ondit | ion | | | | | |
| (Pipe # : 1, Spa | an Type | e: Prima | ry Span) | | | | | | | | | | | | |
| Direction | | | | S | | | | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | | |
| Headwall | | | | Х | Х | | | | | | | | | | |
| Collar | | | Х | Х | | | | | | | | | | | |
| Wingwalls | | | | | Х | Х | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | | |

| | | | Upstre | am End | | | | | | |
|--|-------------------------|--------|-----------------|---|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Span Type: Primary | / Span) | | | | | | | | | |
| Cutoff Wall | | X | X | | | | | | | |
| Bevel End | | 5 | N | Snow covered. | | | | | | |
| Heaving (mm) | 75 | | | | | | | | | |
| Invert Above/Below Stream Bed BELOW | | | | (Piles in floor of bevel only - photo. 06Sept2006). | | | | | | |
| Above/Below (mm) | 250 | | | | | | | | | |
| Scour Protection | | | N | Snow covered. | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | |
| (Avg. Rock Size(mm) : 250) | | | | | | | | | | |
| Scour/Erosion | | | N | Snow covered. | | | | | | |
| Beavers (Y/N) | Yes | | | 1.2m dam at end of bevel. | | | | | | |
| Upstream End General Rating | | 5 | N | GR was 5 from 07Jun2011. | | | | | | |
| | | Brid | dge <u>Cu</u> | lvert Barrel | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Sp | an (mm |): <u>201</u> 9 | , Rise (mm): 2226, Type: SPE) | | | | | | |
| Barrel Last Accessible Date | 22-Jan-2013 | | | Inspected 8 0f 20 rings before ice height too great. | | | | | | |
| Special Features | 1 | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Туре :) | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Type:) | | | | | | | | | | |
| Roof | | 4 | 4 | Rise at R5=2213=13mm | | | | | | |
| Measured Rise (mm) | 2196 | | | (Rise at R10=2208=18mm | | | | | | |
| Measured At Ring No. | 12 | | | Rise at R15=2236=10mm. 07Jun2011). | | | | | | |
| Sag (mm) | 33 | | | R8 2:00 seam has inward cusping; no action required. | | | | | | |
| Percent Sag | 2 | | | | | | | | | |
| Sidewall | | 5 | 5 | Span at R5=2047=28mm | | | | | | |
| Measured Span (mm) | 2068 | | | (Span at R10=2011=8mm Span at R12=2068=40mm=2.4% | | | | | | |
| Measured At Ring No. | Measured At Ring No. 12 | | | Span at R15=2006=49(1)(1=2.4%) Span at R15=2011=8mm. 07Jun2011). | | | | | | |
| Deflection (mm) | 49 | | | Corrugation crimped at R5/6 5:00. | | | | | | |
| Percent Deflection | 2 | | | | | | | | | |
| Floor | | 6 | N | Patially covered by ice. | | | | | | |
| Bulge (mm) | 0 | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | | | |
| Circumferential Seams | | 6 | 6 | | | | | | | |
| Separation (mm) | 0 | | | | | | | | | |
| Longitudinal Seams | | 4 | 4 | R1,8-9 have poorly nested seams and loose bolts and R8-9 are | | | | | | |
| Total No. of Cracked Rings | 0 | | | covered by beaver debris. | | | | | | |
| Total No. of Rings with Two Cracked Seams | | | | Rating carried forward; no action required. | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | 1N stagger | | | | | | |
| Proper Lap (Y/N) No | | | | III SLAYYEI. | | | | | | |
| Longitudinal Stagger (Y/N) | Yes | | | | | | | | | |
| Coating | | 4 | N | (Pitting on floor 07Jun2011), staining through bolt holes | | | | | | |
| Corrosion By Soil (Y/N) | Yes | | | ice on floor. | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

70937 -1 Bridge Culvert

| | | Bric | lge Cul | vert Barrel | | | | | |
|---|---------------------|-------|---------|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | ion Code: MAIN, Spa | n (mm |): 2019 | , Rise (mm): 2226, Type: SPE) | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) Yes | | | | 1.2m at S end. | | | | | |
| Fish Passage Adequacy | | 4 | 4 | Cannot get through beaver dams. | | | | | |
| Baffle | | Х | X | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | 4 | 4 | (Ices almost completely full. 96/02/20). | | | | | |
| Icing (Y/N) | No | | | (Up to 100mm from D/S crown. 96/02/20). Beaver dam drift @ S bevel/opening. | | | | | |
| Silting (Y/N) | No | | | Rating based on previous comments. | | | | | |
| Drift (Y/N) | Yes | | | | | | | | |
| Barrel General Rating | | 4 | 4 | | | | | | |
| | | D | ownstr | eam End | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Span Type: Primary | v Span) | | | | | | | | |
| Direction | | N | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | |
| Headwall | | | Х | | | | | | |
| Collar | | | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | X | X | | | | | | |
| Bevel End | | N | N | Snow covered. | | | | | |
| Heaving (mm) | | | | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | (03Mar25) | | | | | |
| Above/Below (mm) | 300 | | | | | | | | |
| Scour Protection | | N | N | (Riprap washed into stream. Degradation of s/b at D/S end occuring | | | | | |
| (Туре :) | | | | due to steep nature of channel to North. 03/03/25). | | | | | |
| (Avg. Rock Size(mm) :) | | | | | | | | | |
| Scour/Erosion | | N | N | | | | | | |
| Beavers (Y/N) | Yes | | | | | | | | |
| Downstream End General Ratin | ıg | 5 | N | GR was 5 since 07Sep2006. | | | | | |
| | | | Upstrea | am End | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 2, Span Type: Second | ary Span) | | | | | | | | |
| Direction | | | | South end located 6.8m East of SPCSP. Unable to find. Buried by | | | | | |
| End Treatment (Concrete, Steel, Others, None) | NONE | | | beaver dam. | | | | | |
| Headwall | | Х | Х | | | | | | |
| Collar | | Х | X | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | Х | Х | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

70937 -1 Bridge Culvert

| | | | Upstre | eam End | | | | | | |
|--|---------------------------------------|---------|--------|---|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 2, Span Type: Second | ary Span) | | | | | | | | | |
| Bevel End | | N | N | (80% overgrown, very difficult to find.) Covered by beaver dam. | | | | | | |
| Heaving (mm) | | | | | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | (03/03/25) | | | | | | |
| Above/Below (mm) | 300 | | | | | | | | | |
| Scour Protection | | N | N | | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | |
| (Avg. Rock Size(mm) : 250) | | | | | | | | | | |
| Scour/Erosion | | N | N | (Small scour hole @ U/S end.) | | | | | | |
| Beavers (Y/N) | Yes | | | | | | | | | |
| Upstream End General Rating | | N | N | GR was 7 from 15Dec1997. | | | | | | |
| | | Bri | dae Cu | Ivert Barrel | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 2, Secondary Span, Lo | cation Code: MAIN, S | Span (I | mm): | , Rise (mm): 914, Type: MP) | | | | | | |
| Barrel Last Accessible Date | 15-Dec-1997 | | | Barrel completely inaccessible. | | | | | | |
| Special Features | · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Туре :) | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Туре :) | | | | | | | | | | |
| Roof | | N | N | (03/03/25) | | | | | | |
| Measured Rise (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Sag (mm) | 25 | | | | | | | | | |
| Percent Sag | | | | | | | | | | |
| Sidewall | | N | N | (03/03/25) | | | | | | |
| Measured Span (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Deflection (mm) | 25 | | | | | | | | | |
| Percent Deflection | | | | | | | | | | |
| Floor | | N | N | | | | | | | |
| Bulge (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | | | |
| Circumferential Seams | | N | N | | | | | | | |
| Separation (mm) | | | | | | | | | | |
| Longitudinal Seams | | N | N | | | | | | | |
| Total No. of Cracked Rings | | | | | | | | | | |
| Total No. of Rings with Two Cracked Seams | | | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | | | | | | | |
| Proper Lap (Y/N) | | | | | | | | | | |
| Longitudinal Stagger (Y/N) | | | | | | | | | | |
| Coating | | N | N | | | | | | | |
| Corrosion By Soil (Y/N) | | | | (03/03/25) | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | 1 | | | | | | |
| Camber POS/ZERO/NEG | NEG | | | | | | | | | |
| | | | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

| Bridge Culvert Barrel | | | | | | | | | | |
|---|----------------------|---------|---------|--|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 2, Secondary Span, Lo | cation Code: MAIN, S | Span (r | nm): | , Rise (mm): 914, Type: MP) | | | | | | |
| Ponding (Y/N) | No | | | | | | | | | |
| Fish Passage Adequacy | | X | Х | | | | | | | |
| Baffle | | X | Х | | | | | | | |
| (Туре:) | | | | | | | | | | |
| Waterway Adequacy | | 4 | 4 | (Pipe submerged at N end. 07Jun2011). | | | | | | |
| Icing (Y/N) | No | | | (Ices full at D/S end. 20Feb1996). (03Mar25). | | | | | | |
| Silting (Y/N) | No | | | Covered by beaver dam at S end. | | | | | | |
| Drift (Y/N) | No | | | | | | | | | |
| Barrel General Rating | | 4 | 4 | General rating carried over from 20Feb1996. | | | | | | |
| | | D | ownsti | ream End | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 2, Span Type: Second | ary Span) | | | | | | | | | |
| Direction | | N | | Not visible. Submerged. | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | NONE | | | | | | | | | |
| Headwall | Headwall | | X | | | | | | | |
| Collar | | | X | | | | | | | |
| Wingwalls | | Х | Х | | | | | | | |
| (Shape :) | | | | | | | | | | |
| Cutoff Wall | | | X | | | | | | | |
| Bevel End | | N | N | (Submerged. 07Jun2011). | | | | | | |
| Heaving (mm) | 0 | | | | | | | | | |
| Invert Above/Below Stream Bed | | | | | | | | | | |
| Above/Below (mm) | 0 | | | | | | | | | |
| Scour Protection | | N | N | | | | | | | |
| (Туре :) | | | | | | | | | | |
| (Avg. Rock Size(mm) :) | | | - | | | | | | | |
| Scour/Erosion | | N | N | | | | | | | |
| Beavers (Y/N) | Yes | | | | | | | | | |
| Downstream End General Ratin | ng | 5 | N | GR was 5 from 07Sep2006. | | | | | | |
| | | S | Structu | re Usage | | | | | | |
| | | Last | Now | Explanation of Condition | | | | | | |
| Channel (U/S and D/S) | | | | | | | | | | |
| Alignment | | | 7 | | | | | | | |
| Bank Stability | | 7 | 7 | | | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | | | |
| Drift (Y/N) | Yes | | | | | | | | | |
| Channel Bottom Degrading/Aggrading | | | | (100 x 50m ponds @ other end. Aggradation of s/b to S with manure & straw while D/S is degrading due to steep grade in s/b. 03/03/25). | | | | | | |
| Beavers (Y/N) Yes | | | | U/S & D/S dams. | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | | |
| Channel General Rating | | | 7 | | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | | |
|---|----------|---------------------------------|--|-------------------|----------------|-------------------------------------|--------|------------|------------|--------------|-----|--|
| Inspector Recommendations | Year | Inspecto | or Comments | | Department Com | ments | Ta | arget Year | Est. Cost | Cat # | | |
| SHOTCRETE REPAIRS | | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTO | | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | |
| OTHER ACTION | 2013 | Remove U/S oper next insp | beaver dam & debris in barre ning. Remove dam 30m D/S b pection. | el & in before | | | | | | | | |
| OTHER ACTION | 2013 | Locate 8 | k inspect secondary span culv | /ert. | | | | | | | | |
| OTHER ACTION | | 2013 | Replace | guardrail post. | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| Structural Condition Rating (Last/No (%) | 44.4/44. | 4 | Sufficiency Rating (Last/N (%) | ow) 4 | 12.3/42.2 | Est. Repl. | Yr 202 | 0 | Maint. Rec | qd. (Y/N) | Yes | |
| Special Comments for Next Inspection | | | | | | Department Comments | | | | | | |
| Maintenance Reviewed By | | | | | | Date | | | Esti | imated Total | 0 | |
| Proposed Long-Term Strategy | | | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | |
| Previous Inspector's Name Jason | | Saly | | | Previous A | vious Assistant's Name | | | | | | |
| Next Inspection Date 22-Oct | | -2014 | | | Previous I | revious Inspection Date 07-Jun-2011 | | | | | | |
| Inspection Cycle (Default) (months) 21 | | | | | | | | | | | | |
| Comment | | | | | | | | | | | | |