| | | | | | Bridg | e Culve | ert Inspe | ection | | | | | | | |
|---|---|--------------|---------------|------------|--------|---------|---|-----------------------------------|-------------|---------------|-----------------------|-------|--|--|--|
| Bridge File Nur | ge File Number 09172 -5 Bridge Culvert | | | | | | Form T | уре | | CUL1 | | | | | |
| Year Built | | 1955 | | | | | | Lot No. | | 4 | | | | | |
| Bridge or Town | Name | Name BULWARK | | | | | Inspect | Inspector Name | | Owen Salava | | | | | |
| Located Over TRIBUTARY TO NELSON CRE WATERCRS-ST | | | | | EK, 5. | 18.2, | Inspector Class | | BR CLS A | | | | | | |
| Located On 599:04 C1 25.863 | | | | | | | Assistant Name | | | | | | | | |
| Water Body Cl. | ./Year | | | | | | Assistant Class | | 47.0 0040 | | | | | | |
| Navigabil. CI./Y | ⁄ear | | | | | | Inspection Date Data Entry By | | 17-Sep-2012 | | | | | | |
| Legal Land Loc | cation | SE SEC | 2 TWP 38 RG | E 11 W4N | Λ | | Data Entry Date | | | Marcia Chavez | | | | | |
| Longitude, Latit | tude | -111:28:0 | 00, 52:13:49 | | | | Reviewer Name | | | 22-Oct-2012 | | | | | |
| Road Authority | , | Alberta T | ransportation | (AIT) | | | Review Date | | | John O'Brien | | | | | |
| Contract Main. Area CMA21 | | | | | | | Dept. Reviewer Name | | | 27-Sep-2012 | | | | | |
| Clear Roadway | Clear Roadway/Skew 8.6 / | | | | | | | | | | | | | | |
| AADT/Year | | 730 / 20 | 11 (A) | | | | | Dept. Review Date Follow-Up By | | 22-Oct-2012 | | | | | |
| Road Classifica | ation | RCU-208 | 3-110 | | | | FOIIOW- | | | | | | | | |
| Detour Length | (km) | 6 | | | | | | | | | | | | | |
| Bridge Culvert | · / | ation | | | | | | | | | | | | | |
| Number of Culv | | 1 | | | | | | | | | | | | | |
| Pipe # | Barrel | 5 | Span | Rise (or I | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | | |
| 1 | U/S | 1 | 810 | 1118 | | FP | | 13.2 | | 68X13 | | ARCH | | | |
| 1 | MAIN | 1 | 810 | 1118 | | FP | | 20.7 | | 68X13 | | ARCH | | | |
| Special Feature | es | | | | | - | | | | | | | | | |
| Special Feature | es Comi | ment | | | | | | | | | | | | | |
| Telephone Power Others Remarks | 3 wire | North r/w | ν. | | | | GasMunicipalProblem (Y/N)No | | | | | | | | |
| | | | | Ар | proa | ch Road | d / Emba | Inkment | | | | | | | |
| | | | | | Last | Now | Explan | ation of | Condi | tion | | | | | |
| Horizontal Aligr | nment | | | | 8 | 8 | 1st pipe from W; 0.2km E of Range Rd. 11-2. | | | | | | | | |
| Vertical Alignm | | | _ | | 8 | 8 | | | | | | | | | |
| Roadway Width (m) | | 8.600 | | | | | | | | | | | | | |
| Embankment | | | | | 8 | 8 | | | | | | | | | |
| Sideslope (:1) | | | 3.0 | | | | - | | | | | | | | |
| (Height of Cover(m) : 1) | | | | | | | | | | | | | | | |
| Guardrail (Y/N) No | | | | | | | | | | | | | | | |
| Approach Roa | Approach Road / Embankment General Rating | | | | | 8 | | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | Explan | ation of | Condi | tion | | | | | |
| Direction | | | _ | | N | | - | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | | |
| Others, None) | | | Headwall | | | × 1 | 1 | | | | | | | | |
| | | | | | Х | X | | | | | | | | | |
| | | | | | X X | X X | | | | | | | | | |
| Headwall | | | | | | | | | | | | | | | |

Alberta Transportation

| | | | Upstre | am End |
|--|----------------------|-------|--------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | | | X | |
| Bevel End | | 6 | 6 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | | 7 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | 1 | 6 | 6 | |
| | | Brid | dge Cu | lvert Barrel |
| Culvert Component | | Last | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: U/S, Span | (mm): | | |
| Barrel Last Accessible Date | 02-Nov-2009 | | | 1/4 full of water; viewed from ends, shape OK> |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | 1 | | |
| Special Feature | | | | |
| (Type :) | | 1 | | |
| Roof | | 6 | N | |
| | 1100 | 0 | IN | |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | 3 | | | |
| Sag (mm) | 18 | | | (1.1%. 02Nov2009). |
| Percent Sag | 2 | | | |
| Sidewall | | 6 | N | |
| Measured Span (mm) | 1870 | | | |
| Measured At Ring No. | 3 | | | |
| Deflection (mm) | 60 | | | (3.3%. 02Nov2009). |
| Percent Deflection | 3 | | | |
| Floor | | 5 | N | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 6 | N | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | Х | Х | |
| 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 | | | 5 | (Minor floor scaling. 02Nov2009). |
| Corrosion By Soil (Y/N) | No | 5 | - | |
| Corrosion By Water (Y/N) | | | | |
| | Yes | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09172 -5 Bridge Culvert

| Bridge Culvert Barrel | | | | | | | | | | | |
|--|---------------------------------------|------|--------|-----------------------------------|--|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | | |
| (Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): 1810, Rise (mm): 1118, Type: FP) | | | | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | | | |
| Fish Passage Adequacy | | 6 | 6 | | | | | | | | |
| Baffle | | X | х | | | | | | | | |
| (Type :) | | | | | | | | | | | |
| Waterway Adequacy | | 7 | 7 | | | | | | | | |
| Icing (Y/N) | No | | | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | | | |
| Barrel Extension General Ratin | g | 6 | N | GR was 6 from 02Nov2009. | | | | | | | |
| | | D | ownstr | eam End | | | | | | | |
| Culvert Component | | Last | | Explanation of Condition | | | | | | | |
| Direction | | S | | | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | | | |
| Headwall | | X | X | | | | | | | | |
| Collar | | Х | Х | | | | | | | | |
| Wingwalls | | X | X | | | | | | | | |
| (Shape :) | | | | | | | | | | | |
| Cutoff Wall | | X | Х | | | | | | | | |
| Bevel End | 1 | 6 | 6 | | | | | | | | |
| Heaving (mm) | 0 | | | | | | | | | | |
| Invert Above/Below Stream Bed | | | | | | | | | | | |
| Above/Below (mm) | 0 | | 1 | | | | | | | | |
| Scour Protection | | 7 | 7 | | | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | | |
| (Avg. Rock Size(mm) : 250) | | | _ | | | | | | | | |
| Scour/Erosion | | 7 | 7 | | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | | |
| Downstream End General Ratin | ng | 6 | 6 | | | | | | | | |
| | Structure Usage | | | | | | | | | | |
| 0h | | Last | Now | Explanation of Condition | | | | | | | |
| Channel (U/S and D/S) Alignment | | 8 | 8 | Large slough, no defined channel. | | | | | | | |
| Bank Stability | | 8 | 8 | | | | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | | | | |
| Drift (Y/N) | No | | | | | | | | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | | |
| (Fish Compensation Measure 1 : | 1 | | | | | | | | | | |
| (Fish Compensation Measure 2 : | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| Channel General Rating | | 8 | 8 | | | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | | | | |
|---|--------------------------|--------|-------------------------|--|--------------------------------------|----------|--------------------------------------|--------|---------|------|----------|--------------------|-----------|-------|
| Inspector Recommendations | | | Year Inspector Comments | | | | Department Comments | | | | | Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | | | | |
| REMOVE DRIFT | ACCUMULATION | | | | | | | | | | | | | |
| INSTALL CONCR | ETE/STEEL LINING | | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTOFF | | | | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | | | _ |
| OTHER ACTION | | | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | | | _ |
| OTHER ACTION | | | | | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | | 66.7/55.6 | | Sufficiency Rating (Last/Now) (%) | | 70.1/65.0 | Est. R | epl. Yr | 2019 | Ma | Maint. Reqd. (Y/N) | | No |
| Special Comments for Next Inspection | Comments for inspection. | | | | | | Department Comments | | | | | | | |
| Maintenance Reviewed By | | | | | | | Date | | | | Estimate | d Total | 0 | |
| Proposed Long-To | erm Strategy | | | | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | | | |
| Previous Inspector's Name Owe | | | Owen Salava F | | | | Previous Assistant's Name | | | | | | | |
| Next Inspection Date 1 | | 17-Dec | 17-Dec-2015 | | | Previous | Previous Inspection Date 02-Nov-2009 | | | | | | | |
| i i | | 39 | | | | | | | | | | | | |
| Comment | | | | | | | | | | | | | | |