| Bridge Culvert Inspection | | | | | | | | | | | | |
|---|----------|------------------------------|----------------|----------|-----------------|--------------------------|--------------------------|-----------------|--------------------|-----------------------|-------|--|
| Bridge File Number | | 78336 - | | | Form Type | | CUL1 | | | | | |
| Year Built | | 1978 | | | Lot No. | | 1 | | | | | |
| Bridge or Town Name | | LAC LA | | | Inspector Name | | Eric Carcoux | | | | | |
| Located Over | | GULL C | WATERCRS- | | Inspector Class | | BR CLS A | | | | | |
| Located On | | 663:10 | | | Assistant Name | | | | | | | |
| Water Body Cl. | /Year | | | | Assistant Class | | 00 M 0040 | | | | | |
| Navigabil, Cl./Y | ′ear | | | | | | Inspection Date | | 30-Mar-2010 | | | |
| Legal Land Loc | cation | NW SE | /4M | | Data Entry By | | Ineresa Lacus | Theresa Lacusta | | | | |
| Longitude. Latitude | | -111:40 | | | Data Entry Date | | 19-Apr-2010 | | | | | |
| Road Authority | | Alberta Transportation (AIT) | | | | | Review Date | | Arnold Assenneimer | | | |
| Contract Main. | Area | CMA08 | | | | | Dept. Reviewer Name | | Brent Herrick | | | |
| Clear Roadway | //Skew | 7.5 / | | | | | Dept. Reviewer Name | | | | | |
| AADT/Year | | 80 / 2009 (A) | | | | | | | 27-Apr-2010 | | | |
| Road Classifica | ation | RLU-20 | 9G-90 | | | | гоном-ор ву | | | | | |
| Detour Length | (km) | 999 | | | | | | | | | | |
| Bridge Culvert Information | | | | | | | | | | | | |
| Number of Culv | verts | | 1 | | | | | | 1 | 1 | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | Corr. Profile | PI./Slab Thickness | Shape | |
| 1 | MAIN | | - | 1524 | | MP | | 49.4 | 68X13 | 3.5 | ROUND | |
| Special Feature | es | | | | | | | | | | | |
| Special Features Comment | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Litility Attachme | ents | | | | 01 | | ocaleu | at) | | | | |
| Telephone | | | | | | | | | | | | |
| Power | | | | | | Municipal | | | | | | |
| Others | | | | | | Probler | Problem (Y/N) | | | | | |
| Remarks | | | | | | | 1 | | | | | |
| | | | | Α | pproa | ch Road | l / Emba | ankment | | | | |
| | | | | Last | Now | Explanation of Condition | | | | | | |
| Horizontal Alignment | | | | 7 | 7 | In sag curve. | | | | | | |
| Vertical Alignment | | | | 4 | 4 | | | | | | | |
| Roadway Width (m) | | | 7.500 | | | | | | | | | |
| Embankment | | | | | | 5 | | | | | | |
| Sideslope (| _:1) | | 3.5 | | | | | | | | | |
| (Height of Co | ver(m) : | 5) | | | | | | | | | | |
| Guardrail (Y/N) | 1 | | No | | | | | | | | | |
| Approach Roa | nd / Emb | bankmei | nt General Rat | ing | 4 | 4 | | | | | | |
| | | | | | | Upstre | am End | | | | | |
| Culvert Component | | | | | | Now | Explanation of Condition | | | | | |
| Direction | | | S | | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | |
| Headwall | | | X | Х | | | | | | | | |
| Collar | | | | X | Х | | | | | | | |
| Wingwalls | | | | | X | Х | | | | | | |
| (Shape :) | | | | | | | | | | | | |
| Cutoff Wall | | | | | | Х | | | | | | |
| | | | | | | | 1 | | | | | |

Alberta Transportation

| Upstream End | | | | | | | | | | |
|--|----------------------|--------|--------|---|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| Bevel End | | N | N | Bevel completly buried under drift - photo. | | | | | | |
| Heaving (mm) | 0 | | | | | | | | | |
| Invert Above/Below Stream Bed | | | | _ | | | | | | |
| Above/Below (mm) | 0 | | | | | | | | | |
| Scour Protection | | 2 | 2 | | | | | | | |
| (Type : NONE) | | | | _ | | | | | | |
| (Avg. Rock Size(mm) :) | | | | | | | | | | |
| Scour/Erosion | | 2 | 2 | Blocked opening causing severe scour / erosion of embankment - photo. 6m back of bevel, 5m widephoto Pipe susceptible to uplift. | | | | | | |
| Beavers (Y/N) | Yes | | | | | | | | | |
| Upstream End General Rating | | 2 | 2 | | | | | | | |
| | | Brie | dge Cu | Ivert Barrel | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm | ı): | , Rise (mm): 1524, Type: MP) | | | | | | |
| Barrel Last Accessible Date | | | | Inlet covered with drift. Outlet water backed up from beaver pond. | | | | | | |
| Special Features | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Type:) | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Type:) | | | | | | | | | | |
| Roof | | N | N | | | | | | | |
| Measured Rise (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Sag (mm) | | | | | | | | | | |
| Percent Sag | | | | | | | | | | |
| Sidewall | | N | N | | | | | | | |
| Measured Span (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Deflection (mm) | | | | | | | | | | |
| Percent Deflection | | | | | | | | | | |
| Floor | | N | N | | | | | | | |
| Bulge (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | | | | | | | | | | |
| Circumferential Seams | | N | N | (3rd ring from U/S end. 2000/06/22) | | | | | | |
| Separation (mm) | 140 | | | | | | | | | |
| Longitudinal Seams | | X | 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 | | 3 | N | Scaling & section loss from what's visible15-Nov-2006 | | | | | | |
| Corrosion By Soil (Y/N) | | | | 1 | | | | | | |
| Corrosion By Water (Y/N) | | | | | | | | | | |
| Camber POS/ZERO/NEG | NEG | | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

78336 -1 Bridge Culvert

| Bridge Culvert Barrel | | | | | | | | | |
|--|----------------------|----------|---------|--|--|--|--|--|--|
| Culvert Component | | Last Now | | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | an (mm): | | , Rise (mm): 1524, Type: MP) | | | | | |
| Ponding (Y/N) Yes | | | | | | | | | |
| Fish Passage Adequacy | | 2 | 3 | U/S end blocked by heavy drift. | | | | | |
| Baffle | | N | N | | | | | | |
| (Type:) | | | | | | | | | |
| Waterway Adequacy | | 3 3 | | (08/Oct/2003) | | | | | |
| Icing (Y/N) | Yes | | | Nedium / large drift. | | | | | |
| Silting (Y/N) | Yes | | | 0/5 end blocked by heavy drift. | | | | | |
| Drift (Y/N) | Yes | | | 1 | | | | | |
| Barrel General Rating | | 3 | 3 | General rating carried forward. | | | | | |
| | | | | | | | | | |
| | | D | ownstr | ream End | | | | | |
| Culvert Component | | Last Nov | | Explanation of Condition | | | | | |
| Direction | OTEEL | N | | vvater/ice to crown 300mm. | | | | | |
| Others, None) | STEEL | | | | | | | | |
| Headwall | | X | X | | | | | | |
| Collar | | X | Х | | | | | | |
| Wingwalls | | X | Х | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | X | Х | | | | | | |
| Bevel End | I | 4 | N | Heavy scaling & corrosion, loss of section15-Nov-2006 | | | | | |
| Heaving (mm) | | | | | | | | | |
| Invert Above/Below Stream Bed | | | | Not visible. | | | | | |
| Above/Below (mm) | | | | | | | | | |
| Scour Protection | | 3 | N | | | | | | |
| (Type :) | | | | - | | | | | |
| (Avg. Rock Size(mm) :) | | | | | | | | | |
| Scour/Erosion | | | N | Evidence of erosion / scour in embankment around pipe - photo15- Nov-2006 | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Ration | ng | 3 | 3 | G.R. carried over. | | | | | |
| | | S | Structu | re Usage | | | | | |
| | | Last Now | | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | · | | | | | | | | |
| Alignment | | 6 | 6 | | | | | | |
| Bank Stability | | 4 | 4 | Some bank erosion along channel U/S and D/S. | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | | |
| Drift (Y/N) Yes | | | | Drift accumulating on inlet. | | | | | |
| Channel Bottom DEGRADING Degrading/Aggrading | | | | Dam 10m d/s. | | | | | |
| Beavers (Y/N) | Yes | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | |
| Channel General Rating | | 4 | 4 | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | | | |
|---|--|---------------------|------------|-------------------------------------|------------------------------|------------|-------------------------------|---------------|-------------------|------------|-----------|-----|--|
| Inspector Recommendations | | | Year | Inspecto | r Comments | | Department Comm | Target Year | Est. Cost | Cat # | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | 2010 | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | 2010 | | | | | | | | | | |
| INSTALL CONCR | ETE/STEEL LINING | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTOFF | | | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | | |
| OTHER ACTION | | | 2010 | Dewater | pipe & Level II inspection. | | | | | | | | |
| OTHER ACTION | | | 2010 | Repair ei | mbankment erosion @ both | sides. | | | | | | | |
| OTHER ACTION | | | 2010 | Perform | assessment. | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | | |
| OTHER ACTION | | | _ | | | | | | _ | | | | |
| Structural Condition Rating (Last/Now) (%) | | | 33.3/33. | .3 Sufficiency Rating (Last/ (%) | | Now) 1 | 0.9/13.4 | Est. Repl. Yr | 2015 | Maint. Red | qd. (Y/N) | Yes | |
| Special Comments for | (Monitor seam sepa 01-26 | ration a | t 3rd ring | from u/s | end. Inspect barrel if acces | sible94- | Department Comments | | | | | | |
| Next Inspection | Pipe inaccessible after 2 ins Do Level II inspection. | | | 5. | | | | | | | | | |
| Maintenance Reviewed By | | | | | | | Date | | Estimated Total 0 | | | | |
| Proposed Long-Term Strategy | | | | | | | · · · · · · | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | | |
| Previous Inspector's Name Dav | | Dave Lam Previous / | | | | | Assistant's Name | | | | | | |
| Next Inspection Date 30 | | 30-Jun-2013 Pi | | | | Previous I | s Inspection Date 15-Nov-2006 | | | | | | |
| Inspection Cycle (Default) (months) 39 | | 39 | | | | | | | | | | | |
| Comment | | | | | | | | | | | | | |