

| Bridge Inspection | | | | | | | | | |
|------------------------|-------------------------------------|--------|------|--------|---------------------|-----------------|---|--|--|
| Bridge File Number | 77885 -1 Bridge | | | | Form Type | PCS | | | |
| Year Built/Year Supstr | 1975/1975 | | | | Lot No. | 2 | | | |
| Bridge or Town Name | SIMON LAKES | | | | Inspector Name | Brian Pientsch | | | |
| Located Over | CADOTTE RIVER, 8.10.47, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | |
| Located On | 986:02 C1 48.288 | | | | Assistant Name | Clem Guenette | | | |
| Water Body Cl./Year | | | | | Assistant Class | BR CLS B | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 12-Mar-2013 | | | |
| Legal Land Location | NE SEC 27 TWP 86 RGE 16 W5M | | | | Data Entry By | Theresa Lacusta | | | |
| Longitude, Latitude | -116:26:06, 56:29:21 | | | | Data Entry Date | 08-Apr-2013 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | |
| Contract Main. Area | CMA02 | | | | Review Date | 03-Apr-2013 | | | |
| Clear Roadway/Skew | 8.8 / | | | | Dept. Reviewer Name | | | | |
| AADT/Year | 1,120 / 2012 (A) | | | | Dept. Review Date | | | | |
| Road Classification | RCU-209-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 135 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | HS25 | | | | | | ----> Primary Span | | |

| Posting Information | | | | | | | | | |
|-------------------------------|--------------|----|-------------------|----|------------------|----|-----------------|----|--|
| Required Load Posting (t) | Single | | | | Semi | | Truck Train | | |
| Posted Loading (t) | Single | | | | Semi | | Truck Train | | |
| Posted: | Lane | EB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | WB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Remarks | Not required | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | |
|------------------------|----------------------|--|--|--|---------------|--|----|--|--|
| Utility Attachments | | | | | | | | | |
| Telephone | North curb | | | | Gas | | | | |
| Power | South 20 m - 1 wire | | | | Municipal | | | | |
| Others | Fibre optic @ S. r/w | | | | Problem (Y/N) | | No | | |
| Remarks | | | | | | | | | |

| Approach Road | | | | | | | | | |
|-------------------------------------|-------------|--|-------------|------------|--|--|--|--|--|
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 6 | 6 | Intersection at SE, SW & NE Corners | | | | |
| Vertical Alignment | | | 6 | 6 | In gradual sag curve. No passing both directions. | | | | |
| Roadway Width (m) | 8.500 | | | | | | | | |
| Approach Bump | | | 4 | 6 | | | | | |
| Guardrail (Y/N) | Yes | | | | 1 broken post, 2 damaged sections NE. -photo-01-Apr-2011 | | | | |
| Guardrail | | | 4 | N | Snow covered | | | | |
| Length (m) | 49.000 | | | | | | | | |
| Current Standard (Y/N) | No | | | | | | | | |
| Termination Type | TURNED DOWN | | | | | | | | |
| Drainage | | | 6 | 6 | | | | | |
| Approach Road General Rating | | | 6 | 6 | | | | | |

| Superstructure | | | | | |
|--|-----------|-------------|-----------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : VS, 3 Spans, Lengths(m): 10.7-10.7-10.7, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | 10.0 | | | | |
| Wearing Surface | | | 4 | 4 | Wide crack over piers. |
| (Material Type : CONCRETE) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 6 | 6 | |
| Deck Joints | | | 6 | 6 | |
| Bump (Y/N) | | No | | | |
| Deck Drainage | | | X | X | No drains. |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 5 | 5 | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 1 | | | |
| Bridge Rail | | | 5 | 5 | |
| (Type : FLEX BEAM;GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts | | | 5 | 5 | |
| (Type : POST STEEL;POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 6 | 5 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | | | | | |
| Now | | | | | |
| Girders | | | 4 | 4 | 14/24 have narrow longitudinal cracks. Span 3, girder 7 has a 100x100 spall originating from low cover in forms during casting. Most girders have corrosion spots from debris left in forms during casting. |
| Last Complete Inspection Date | | 12-Mar-2013 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 0 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | | | | |
| (Number Of Girders : 24) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |
| Superstructure General Rating | | | 4 | 4 | |

| Substructure | | | | | | |
|---|-----------|-----------|-----------|--------------------------|---|--|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| Abutments | | | | | | |
| (Extended Backwall Piles (Y/N) : N) | | | | | | |
| (Extended Backwall Piles Spacing(mm) :) | | | | | | |
| (Total Number of Caps/Corbels : 1:1) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 7 | 7 | |
| (Type : CONCRETE) | | | | | | |
| (Depth(mm) : 600) | | | | | | |
| (Width(mm) : 500) | | | | | | |
| Backwalls/Breastwalls | | | | 7 | 7 | |
| Greatest Height (m) | | 1.20 | | | | |
| Wingwalls | | | | 7 | 7 | |
| (Total Number of Bearing Piles : 0:0) | | | | Not visible | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 1 | 0 | 0 | 0 | | |
| Now | 1 | | | | | |
| Piles | | | | N | N | |
| Paint/Coating | | | | X | X | |
| Abutment Stability | | | | 7 | 7 | |
| Scour/Erosion | | | | 6 | 6 | |
| Piers/Bents | | | | | | |
| (Type : PIER-COLUMN) | | | | | | |
| (Total Number of Caps/Corbels : 1:1) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 7 | 7 | |
| (Type : CONCRETE) | | | | | | |
| (Depth(mm) : 600) | | | | | | |
| (Width(mm) : 500) | | | | | | |
| (Total Number of Bearing Piles : 6:6) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Pier Shaft/Piles | | | | 7 | 7 | |
| Greatest Height (m) | | 4.20 | | | | |
| Bracing/Struts/Sheathing | | | | 6 | 6 | |
| Nose Plate | | | | X | X | |
| Paint/Coating | | | | 7 | 7 | |
| (Colour Description : GREEN) | | | | | | |
| (Colour Code : 14090) | | | | | | |
| Pier Stability | | | | 7 | 7 | |

| Substructure | | | | |
|--|----|----------|----------|--------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Scour | | 6 | 6 | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : N) | | | | |
| (D/S Direction : S) | | | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | 6 | 6 | |
| HWM (m below Top of Curb) | | | | HWM not visible |
| Drift (Y/N) | No | | | |
| Slope Protection | | 6 | 6 | |
| (Type : NATURAL) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 7 | 7 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 6 | 6 | |

| Maintenance Recommendations | | | | | | | |
|---|------------------|--|---------------------------|----------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL STRUTS | | | | | | | |
| OTHER ACTION | 2013 | Repair guard rail. - Unable to confirm | | | | | |
| OTHER ACTION | 2013 | Seal cracks in deck. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 61.1/61.1 | Sufficiency Rating (Last/Now) (%) | 62.1/60.7 | Est. Repl. Yr | 2034 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | | Estimated Total | 0 |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Brian Pientsch | | Previous Assistant's Name | Lisbeth Medina | | | |
| Next Inspection Date | 12-Jun-2016 | | Previous Inspection Date | 01-Apr-2011 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |