

| Bridge Inspection | | | | | | | | | |
|------------------------|-----------------------------------|---------------|------|--------|---------------------|----------------|---|--|--|
| Bridge File Number | 07168 -1 Bridge | | | | Form Type | PSR | | | |
| Year Built/Year Supstr | 1957/1957 | | | | Lot No. | 4 | | | |
| Bridge or Town Name | MORECAMBE | | | | Inspector Name | Jason Saly | | | |
| Located Over | VERMILION RIVER, 6.5, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | |
| Located On | 870:10 C1 11.157 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 14-Dec-2012 | | | |
| Legal Land Location | NW SEC 6 TWP 54 RGE 10 W4M | | | | Data Entry By | Marcia Chavez | | | |
| Longitude, Latitude | -111:28:28, 53:38:29 | | | | Data Entry Date | 14-Jan-2013 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | John O'Brien | | | |
| Contract Main. Area | CMA14 | | | | Review Date | 20-Dec-2012 | | | |
| Clear Roadway/Skew | 8 / | | | | Dept. Reviewer Name | Andrew Smikles | | | |
| AADT/Year | 160 / 2011 (A) | | | | Dept. Review Date | 17-Jan-2013 | | | |
| Road Classification | RCU-209-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 5 | | | | | | | | |
| Allowable Load (t): | Single | CS1 37 GIRDER | Semi | CS2 49 | Train | CS3 62 GIRDER | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | HS20 | | | | | | ----> Primary Span | | |

| Posting Information | | | | | | | | | |
|-------------------------------|-------------------------------|----|-------------------|------|------------------|----|-----------------|----|--|
| Required Load Posting (t) | Single | | | Semi | | | Truck Train | | |
| Posted Loading (t) | Single | | | Semi | | | Truck Train | | |
| Posted: | Lane | NB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | SB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Remarks | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | Too high; HM at SE & Nw only. | | | | | | | | |
| Other Sign Types | Curve - at S end of bridge. | | | | | | | | |

| Utilities (Located at) | | | | | | | | | |
|------------------------|--|--|--|--|---------------|----|--|--|--|
| Utility Attachments | | | | | | | | | |
| Telephone | | | | | Gas | | | | |
| Power | NE corner across road; 2 wire o/h W r/w. | | | | Municipal | | | | |
| Others | Dam upstream 75m NW. | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |

| Approach Road | | | | | | | | | |
|-------------------------------------|--|-------------|----------|--|--|--|--|--|--|
| | | Last | Now | Explanation of Condition | | | | | |
| Horizontal Alignment | | 5 | 5 | Bridge located at end of 400 m radius curve to sout. | | | | | |
| Vertical Alignment | | 7 | 7 | | | | | | |
| Roadway Width (m) | | 9.900 | | | | | | | |
| Approach Bump | | 5 | 5 | | | | | | |
| Guardrail (Y/N) | | Yes | | Mostly snow covered. | | | | | |
| Guardrail | | 7 | N | | | | | | |
| Length (m) | | 53.000 | | Thriebeam transition. | | | | | |
| Current Standard (Y/N) | | Yes | | | | | | | |
| Termination Type | | TURNED DOWN | | | | | | | |
| Drainage | | 7 | N | Snow covered. | | | | | |
| Approach Road General Rating | | 5 | 5 | | | | | | |

| Superstructure | | | | | |
|---|-----------|--------------|-----------|--|---------------|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : PO, 2 Spans, Lengths(m): 21.3-21.3, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | 8 | 8 | | |
| (SType : EXT SHEAR STIRRUP) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | Snow covered. |
| Last | 0 | 0 | 0 | 0 | |
| Now | 70.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | 8 | 7 | Silica fume with steel fibre concrete overlay '03. | |
| (Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT) | | | | | |
| (Thickness(mm) : 70) | | | | | |
| Lateral Connection Problem (Y/N) | No | | | | |
| Deck Top | | N | N | | |
| Deck Rideability | | 8 | 8 | | |
| Deck Joints | | 8 | N | Snow covered. | |
| Temperature (deg. C) | | -9 | | | |
| (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) | | | | | |
| (Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| 66 | Pier | | | | |
| 71 | N abut | | | | |
| 65 | S abut | | | | |
| Deck Drainage | | 7 | 7 | | |
| Drains Clogged (Y/N) | | | | | |
| Curbs/Median | | X | X | | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | | | | |
| Bridge Rail | | 8 | 8 | | |
| (Type : GALVANIZED STEEL THRIE BEAM) | | | | | |
| Bridge Rail Posts | | 8 | 8 | | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | 8 | 8 | | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | X | X | | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 0 | 0 | 0 | 0 | |
| Girders | | 7 | 6 | Typical shoe plate cracks. | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 0 | | | |
| (Number Of Girders : 10) | | | | | |

| Superstructure | | | | |
|---|-----|----------|----------|--|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : PO, 2 Spans, Lengths(m): 21.3-21.3, A-Ident Number:) | | | | |
| Diaphragms/Cross Frame | | 6 | 6 | |
| Bearings | | 6 | 6 | |
| Temperature (deg. C) | -9 | | | |
| (Expansion Type : SLIDING PLATE) | | | | |
| (Fixed Type :) | | | | |
| Coating Adequate (Y/N) | Yes | | | |
| Functioning (Y/N) | Yes | | | |
| Deck Underside | | 7 | 7 | |
| Stains (Percent Area) | 0 | | | |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | No | | | |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 7 | 6 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 7 | 7 | |
| Wingwalls | | 7 | 7 | |
| Piles | | N | N | Buried. |
| Paint/Coating | | 6 | 5 | Sealer. |
| Abutment Stability | | 7 | 7 | |
| Scour/Erosion | | 7 | 7 | |
| Piers/Bents | | | | |
| (Type : PIER-SOLID) | | | | |
| Bearing Seats/Caps | | 7 | 7 | |
| (Type : CONCRETE) | | | | |
| (Total Number of Bearing Piles : 0) | | | | |
| Pier Shaft/Piles | | 7 | 7 | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | 5 | 5 | |
| Paint/Coating | | 7 | 6 | Pigmented sealer good; surface rust on nose plate. |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 7 | 7 | |
| Scour | | 6 | N | Snow/ice covered. |
| Debris (Y/N) | No | | | Old piles in streambed. |
| Substructure General Rating | | 7 | 7 | |

| Structure Usage | | | | |
|--|-----|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : N) | | | | Flow control gate & dam 75m u/s to NW. |
| (D/S Direction : S) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 6 | N | Snow covered. |
| HWM (m below Top of Curb) | | | | HWM not visible. Old piles in stream. |
| Drift (Y/N) | Yes | | | |
| Slope Protection | | 7 | 7 | Small riprap covering entire south headslope. 50 mm rock - natural at north. |
| (Type : RIP RAP; NATURAL) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 8 | 8 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | 7 | |

| Maintenance Recommendations | | | | | | | |
|---|--|--|---------------------|---------------|-----------|-------------------|----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| SEAL DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 77.8/72.2 | Sufficiency Rating (Last/Now) (%) | 73.0/70.5 | Est. Repl. Yr | 2030 | Maint. Req. (Y/N) | No |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | | Estimated Total | 0 |
| Proposed Long-Term Strategy | Monitor horizontal crack in East girder at North abutment. | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Owen Salava | Previous Assistant's Name | | | | | |
| Next Inspection Date | 14-Mar-2016 | Previous Inspection Date | 15-Jul-2011 | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |