| Bridge Culvert Inspection                       |                |                                |  |           |           |                    |   |                          |             |                    |                       |       |  |
|---|----------------|--------------------------------|--|-----------|-----------|--------------------|---|--------------------------|-------------|--------------------|-----------------------|-------|--|
| Bridge File Number 73273 -1 Bridge Culvert      |                |                                |  |           | Form Type |                    | CULM  |                          |             |                    |                       |       |  |
| Year Built 1960                                 |                |                                |  |           |           |                    |   | Lot No.                  |             | 1                  |                       |       |  |
| Bridge or Town                                  | Name           | DUNVE                          | EGAN   |           |           |                    | Inspec  | Inspector Name           |             | Brian Pientsch     |                       |       |  |
| Located Over                                    |                | TRIBU                          | BUTARY TO BOUCHER CREEK,                     |           |           |                    | Inspector Class                                   |                          |             | BR CLS A           |                       |       |  |
| Logated On                                      |                | 0.10.77                        | C1 7 217                                     |           |           |                    |   | int Name                 |             | Lisbeth Medina     |                       |       |  |
| Water Bedy CL/Vear                              |                |                                |  |           |           |                    | Assistant Class                                   |                          |             |                    |                       |       |  |
| Navigabil CL/X                                  |                |                                |  |           |           |                    | Inspection Date                                   |                          | 24-Feb-2010 |                    |                       |       |  |
| Legal Land Location SW/SEC 27 TWP 80 RGE 4 W/6N |                |                                |  | :N/I      |           | Data E             | Data Entry By Theresa Lacusta                     |                          |             |                    |                       |       |  |
| Longitude Latitude -118:32:55 55:57:40          |                |                                |  | 111       |           | Data Entry Date 08 |   |                          | 08-Mar-2010 |                    |                       |       |  |
| Road Authority Alberta Tra                      |                |                                | 2.35, 55.57.40                               |           |           |                    |   | er Name                  |             | Arnold Assenheimer |                       |       |  |
| Contract Main Area CMA04                        |                |                                |  |           |           |                    |   | / Date                   |             | 08-Mar-2010        |                       |       |  |
| Clear Roadway/Skew 13/-6                        |                |                                | ) deg (LHF)                                  |           |           |                    | Dept. Reviewer Name                               |                          |             | Steve Pasqua       | n                     |       |  |
| AADT/Year                                       | / Citoli       | 2.710/                         | 2008 (A)                                     |           |           |                    | Dept. F   | Review Da                | ite         | 06-Apr-2010        |                       |       |  |
| Road Classifica                                 | ation          | _,,                            |  |           |           |                    | Follow  | Ор Ву                    |             |                    |                       |       |  |
| Detour Length (                                 | (km)           | 3                              |  |           |           |                    |   |                          |             |                    |                       |       |  |
| Bridge Culvert                                  | Inform         | ation                          |  |           |           |                    | 1   |                          |             |                    |                       |       |  |
| Number of Culv                                  | /erts          |                                | 2  |           |           |                    |   |                          |             |                    |                       |       |  |
| Pipe #  | Barrel         |                                | Span   | Rise (or  | Dia.)     | Туре               |   | Length                   |             | Corr. Profile      | PI./Slab<br>Thickness | Shape |  |
| 1   | MAIN           |                                | -  | 1200      |           | MP                 |   | 53                       |             | 68X13              | 2.8                   | ROUND |  |
| 2   | MAIN           |                                | -  | 1200      |           | MP                 |   | 53                       |             | 68X13              | 2.8                   | ROUND |  |
| Special Feature                                 | es             |                                |  |           |           |                    |   |                          |             |                    |                       |       |  |
| Special Feature                                 | es Comr        | nent                           |  |           |           |                    |   |                          |             |                    |                       |       |  |
|   |                |                                |  |           |           |                    |   |                          |             |                    |                       |       |  |
| Utility Attachme                                | ents           |                                |  |           | Uti       | lities (L          | ocated  | at)                      |             |                    |                       |       |  |
| Telephone                                       | Buried         | ed cable along East ditch. Gas |  |           |           |                    |   |                          |             |                    |                       |       |  |
| Power   |                |                                |  |           |           |                    | Municipal   |                          |             |                    |                       |       |  |
| Others  |                |                                |  |           |           |                    | Problem (Y/N) Yes                                 |                          |             |                    |                       |       |  |
| Remarks   | Telus          | cable a                        | cross d/s bevel e                            | end-North | n pipe a  | and Sou            | ith pipe.   |                          |             |                    |                       |       |  |
| A   |                |                                |  |           |           | h Roac             | l / Emba  | ankment                  |             |                    |                       |       |  |
|   |                |                                |  |           | Last      | Now                | Explan  | Explanation of Condition |             |                    |                       |       |  |
| Horizontal Align                                | nment          |                                |  |           | 7         | 7                  | Form Ent.<br>Slight sag curve 1000m of sight dist |                          |             |                    |                       |       |  |
| Vertical Alignme                                | ent            |                                |  |           | 8         | 8                  | ongrit say curve roooni of signit dist.           |                          |             |                    |                       |       |  |
| Roadway Width                                   | n (m)          |                                | 13.000                                       |           |           |                    |   |                          |             |                    |                       |       |  |
| Embankment                                      |                |                                |  |           | 2         | 2                  |   |                          |             |                    |                       |       |  |
| Sideslope (                                     | :1)            |                                | 3.0  |           |           |                    | 3:1 @ South pipe., 4:1 @ North pipe.              |                          |             |                    |                       |       |  |
| (Height of Cov                                  | - ,<br>ver (m) | : 4)                           |  |           | 1         |                    | 100m up channel).                                 |                          |             |                    |                       |       |  |
| Guardrail (Y/N)                                 |                |                                | No   |           |           |                    |   | -                        |             |                    |                       |       |  |
| Approach Roa                                    | d / Emb        | ankme                          | nt General Rati                              | ing       | 2         | 2                  |   |                          |             |                    |                       |       |  |
|   |                |                                |  |           |           | Unstro             | am End  |                          |             |                    |                       |       |  |
| Culvert Compo                                   | nent           |                                |  |           | Last      | Now                | Explan  | ation of (               | Condit      | tion               |                       |       |  |
| (Pipe # : <b>1. Sp</b>                          | an Type        | e: Prima                       | arv Span)                                    |           | Luot      | non                | Елріан  |                          | Jonan       |                    |                       |       |  |
| Direction                                       |                |                                | <i>,</i> , , , , , , , , , , , , , , , , , , |           | W         |                    | North pipe  |                          |             |                    |                       |       |  |
| End Treatment (Concrete, Steel, STEEL           |                |                                | .,   |           |           |                    |   |                          |             |                    |                       |       |  |
| Headwall  |                |                                |  |           | Х         | Х                  |   |                          |             |                    |                       |       |  |
| Collar  |                |                                |  |           | Х         | X                  |   |                          |             |                    |                       |       |  |

|  |                     |        | Upstre  | eam End   |  |  |  |  |
|--|---------------------|--------|---------|---|--|--|--|--|
| Culvert Component                            |                     | Last   | Now     | Explanation of Condition  |  |  |  |  |
| (Pipe # : 1, Span Type: Primary              | / Span)             |        |         |   |  |  |  |  |
| Wingwalls                                    |                     | X      | X       |   |  |  |  |  |
| (Shape : )                                   |                     |        |         |   |  |  |  |  |
| Cutoff Wall                                  |                     | X      | Х       |   |  |  |  |  |
| Bevel End                                    |                     | 3      | 3       | Damage at 11:00 minor dent.   |  |  |  |  |
| Heaving (mm)                                 | 200                 |        |         | Bevel not attached to barrel @ top. 60mm separation.  |  |  |  |  |
| Invert Above/Below Stream Bed                | BELOW               |        |         |   |  |  |  |  |
| Above/Below (mm)                             | 50                  |        |         |   |  |  |  |  |
| Scour Protection                             |                     | 3      | 3       |   |  |  |  |  |
| (Type : NONE, NATURAL)                       |                     |        |         |   |  |  |  |  |
| (Avg. Rock Size (mm) : )                     |                     |        |         |   |  |  |  |  |
| Scour/Erosion                                |                     | 3      | 3       | Erosion along N. edge of bevel 2m long. 1.0m wide. Scoured beneath bevel & water accesses pipe through floor02-May-2008 |  |  |  |  |
| Beavers (Y/N)                                | No                  |        |         |   |  |  |  |  |
| Upstream End General Rating                  | 1                   | 3      | 3       |   |  |  |  |  |
|  |                     | Bri    | dge Cu  | Ivert Barrel  |  |  |  |  |
| Culvert Component                            |                     | Last   | Now     | Explanation of Condition  |  |  |  |  |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Sp | an (mr | ı): -,R | ise (mm): 1200, Type: MP)   |  |  |  |  |
| Barrel Last Accessible Date 24-Feb-2010      |                     |        |         | North pipe.<br>-60 skew under embankment, -45 skew on   |  |  |  |  |
| Special Features                             |                     |        |         |   |  |  |  |  |
| Special Feature                              |                     |        |         | berels north structure  |  |  |  |  |
| (Type : )                                    |                     |        | _       | _   |  |  |  |  |
| Special Feature                              |                     |        |         | _   |  |  |  |  |
| (Type : )                                    |                     |        |         |   |  |  |  |  |
| Roof   |                     | 6      | 5       | @ CL.   |  |  |  |  |
| Measured Rise (mm)                           | 1118                |        |         | -   |  |  |  |  |
| Measured At Ring No.                         |                     |        |         |   |  |  |  |  |
| Sag (mm)                                     | 82                  |        |         |   |  |  |  |  |
| Percent Sag                                  | 7                   |        |         |   |  |  |  |  |
| Sidewall                                     |                     | 3      | 3       | @ CL.   |  |  |  |  |
| Measured Span (mm)                           | 1309                |        |         | arge bulge 520mm x 450mm(photo). Smaller cut 500mm X 70mm   |  |  |  |  |
| Measured At Ring No.                         |                     |        |         |   |  |  |  |  |
| Deflection (mm)                              | 109                 |        |         |   |  |  |  |  |
| Percent Deflection                           | 9                   |        |         |   |  |  |  |  |
| Floor  |                     | 2      | 2       | Holes and perforations along floor.   |  |  |  |  |
| Bulge (mm)                                   | 0                   |        |         | Pieces of rusted floor heaving up.  |  |  |  |  |
| Measured At Ring No.                         |                     |        |         |   |  |  |  |  |
| Abrasion (Y/N)                               |                     |        |         |   |  |  |  |  |
| Circumferential Seams                        |                     | 3      | 3       | 820mm scour behind pipe CL. Infiltration @ CL.  |  |  |  |  |
| Separation (mm)                              | 250                 |        |         |   |  |  |  |  |
| Longitudinal Seams                           |                     | X      | X       |   |  |  |  |  |
| Total No. of Cracked Rings                   |                     |        |         |   |  |  |  |  |
| Total No. of Rings with Two<br>Cracked Seams |                     |        |         |   |  |  |  |  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                     |        |         |   |  |  |  |  |
| Proper Lap (Y/N)                             |                     |        |         |   |  |  |  |  |
| Longitudinal Stagger (Y/N)                   |                     |        |         |   |  |  |  |  |

Bridge Inspection & Maintenance System (Web 2005)

73273 -1 Bridge Culvert

|  | Bridge Culvert Barrel |              |        |   |  |  |  |  |  |  |
|--|-----------------------|--------------|--------|---|--|--|--|--|--|--|
| Culvert Component                                      |                       | Last         | Now    | Explanation of Condition  |  |  |  |  |  |  |
| (Pipe # : 1, Primary Span, Loca                        | tion Code: MAIN, Spa  | <u>n (mm</u> | ): -,R | ise (mm): 1200, Type: MP)   |  |  |  |  |  |  |
| Coating  |                       | 3            | 3      | Perforations and section loss along   |  |  |  |  |  |  |
| Corrosion By Soil (Y/N)                                | No                    |              |        | floor(photo).   |  |  |  |  |  |  |
| Corrosion By Water (Y/N)                               | Yes                   |              |        |   |  |  |  |  |  |  |
| Camber POS/ZERO/NEG                                    | NEG                   |              |        |   |  |  |  |  |  |  |
| Ponding (Y/N)  | No                    |              |        |   |  |  |  |  |  |  |
| Fish Passage Adequacy                                  |                       |              | 2      | D/S end cantilevered over scour & erosion.                                    |  |  |  |  |  |  |
| Baffle   |                       |              | Х      |   |  |  |  |  |  |  |
| (Туре:)  |                       |              | -      |   |  |  |  |  |  |  |
| Waterway Adequacy                                      |                       | 5            | 5      |   |  |  |  |  |  |  |
| Icing (Y/N)  | No                    |              |        |   |  |  |  |  |  |  |
| Silting (Y/N)  | No                    |              |        |   |  |  |  |  |  |  |
| Drift (Y/N)  | No                    |              |        |   |  |  |  |  |  |  |
| Barrel General Rating                                  |                       | 3            | 3      |   |  |  |  |  |  |  |
|  |                       | D            | ownstr | eam End   |  |  |  |  |  |  |
| Culvert Component                                      |                       | Last         | Now    | Explanation of Condition  |  |  |  |  |  |  |
| (Pipe # : 1, Span Type: Primary                        | v Span)               |              |        |   |  |  |  |  |  |  |
| Direction  |                       | E            |        | North pipe  |  |  |  |  |  |  |
| End Treatment (Concrete, Steel, STEEL<br>Others, None) |                       |              |        |   |  |  |  |  |  |  |
| Headwall   |                       |              | X      |   |  |  |  |  |  |  |
| Collar   |                       | Х            | Х      |   |  |  |  |  |  |  |
| Wingwalls  |                       | Х            | Х      |   |  |  |  |  |  |  |
| (Shape : )   |                       |              |        |   |  |  |  |  |  |  |
| Cutoff Wall  |                       | Х            | Х      |   |  |  |  |  |  |  |
| Bevel End  |                       | 4            | 4      | Unsupported for 0.8m. 350mm above water.                                      |  |  |  |  |  |  |
| Heaving (mm)   | 50                    |              |        |   |  |  |  |  |  |  |
| Invert Above/Below Stream Bed                          | ABOVE                 |              |        |   |  |  |  |  |  |  |
| Above/Below (mm)                                       | 1500                  |              |        |   |  |  |  |  |  |  |
| Scour Protection                                       |                       | 3            | 3      | Scour hole at end of bevel 6m x 4m.   |  |  |  |  |  |  |
| (Type : NATURAL, NONE)                                 |                       |              |        | Undermining around bevel 0.8 x 0.8m.<br>(3m x 6m slump S of bevelMay 2, 2008) |  |  |  |  |  |  |
| (Avg. Rock Size (mm) : )                               |                       |              |        | Couldn't tell-covered with snow.  |  |  |  |  |  |  |
| Scour/Erosion  |                       | 3            | 3      |   |  |  |  |  |  |  |
| Beavers (Y/N)  | No                    |              |        |   |  |  |  |  |  |  |
| Downstream End General Rating                          |                       |              | 3      |   |  |  |  |  |  |  |
|  |                       |              | Upstre | am End  |  |  |  |  |  |  |
| Culvert Component                                      |                       | Last         | Now    | Explanation of Condition  |  |  |  |  |  |  |
| (Pipe # : 2, Span Type: Second                         | ary Span)             |              |        |   |  |  |  |  |  |  |
| Direction  |                       | W            |        | South pipe.   |  |  |  |  |  |  |
| End Treatment (Concrete, Steel, Others, None)          | STEEL                 |              |        |   |  |  |  |  |  |  |
| Headwall   |                       | Х            | Х      |   |  |  |  |  |  |  |
| Collar   |                       | Х            | X      |   |  |  |  |  |  |  |

|  |                       | 1       | Upstre         | eam End   |  |  |  |  |
|--|-----------------------|---------|----------------|---|--|--|--|--|
| Culvert Component                            |                       | Last    | Now            | Explanation of Condition                                  |  |  |  |  |
| (Pipe # : 2, Span Type: Second               | lary Span)            |         |                |   |  |  |  |  |
| Wingwalls                                    |                       | X       | Х              |   |  |  |  |  |
| (Shape : )                                   |                       |         |                |   |  |  |  |  |
| Cutoff Wall                                  |                       | X       | Х              |   |  |  |  |  |
| Bevel End                                    | I                     | 2       | 2              | Detached from pipe.                                       |  |  |  |  |
| Heaving (mm)                                 |                       |         |                |   |  |  |  |  |
| Invert Above/Below Stream Bed                |                       |         |                | -   |  |  |  |  |
| Above/Below (mm)                             | 0                     |         |                |   |  |  |  |  |
| Scour Protection                             |                       | 3       | 3              | 2m x 4m hole @ bevel.                                     |  |  |  |  |
| (Type : NONE, NATURAL)                       |                       |         |                | -   |  |  |  |  |
| (Avg. Rock Size (mm) : )                     |                       |         |                |   |  |  |  |  |
| Scour/Erosion                                |                       | 3       | 3              |   |  |  |  |  |
| Beavers (Y/N)                                | No                    |         |                |   |  |  |  |  |
| Upstream End General Rating                  | 1                     | 2       | 2              |   |  |  |  |  |
|  |                       | Bri     | d <u>ge Cu</u> | lvert Barrel  |  |  |  |  |
| Culvert Component                            |                       | Last    | Now            | Explanation of Condition                                  |  |  |  |  |
| (Pipe # : 2, Secondary Span, Lo              | ocation Code: MAIN, S | Span (ı | nm): -         | , Rise (mm): 1200, Type: MP)                              |  |  |  |  |
| Barrel Last Accessible Date                  | 14-Nov-2005           |         |                | South pipe.   |  |  |  |  |
| Special Features                             | 1                     |         |                |   |  |  |  |  |
| Special Feature                              |                       |         |                |   |  |  |  |  |
| (Type : )                                    |                       |         |                |   |  |  |  |  |
| Special Feature                              |                       |         |                |   |  |  |  |  |
| (Type : )                                    |                       |         |                |   |  |  |  |  |
| Roof   |                       | N       | 5              | @cl.  |  |  |  |  |
| Measured Rise (mm)                           | 1111                  |         |                | d/s 15m of pipe detached.                                 |  |  |  |  |
| Measured At Ring No.                         |                       |         |                |   |  |  |  |  |
| Sag (mm)                                     | 89                    |         |                |   |  |  |  |  |
| Percent Sag                                  | 7                     |         |                |   |  |  |  |  |
| Sidewall                                     |                       | N       | 3              |   |  |  |  |  |
| Measured Span (mm)                           | 1350                  |         |                |   |  |  |  |  |
| Measured At Ring No.                         |                       |         |                | @ cl  |  |  |  |  |
| Deflection (mm)                              | 150                   |         |                |   |  |  |  |  |
| Percent Deflection                           | 12                    |         |                |   |  |  |  |  |
| Floor  |                       | N       | 3              |   |  |  |  |  |
| Bulge (mm)                                   | 0                     |         |                | Severe corrosion and perforations on floor.               |  |  |  |  |
| Measured At Ring No.                         |                       |         |                |   |  |  |  |  |
| Abrasion (Y/N)                               |                       |         |                |   |  |  |  |  |
| Circumferential Seams                        |                       | 2       | 2              | (320mm gap behind pipe d/s coupler has come apart(photo). |  |  |  |  |
| Separation (mm)                              | 250                   |         |                | Perforations through circum seams                         |  |  |  |  |
|  |                       |         |                | 15m d/s section detached                                  |  |  |  |  |
| Longitudinal Seams                           |                       | X       | X              | ואר ערא ארע ארע ארע ארע ארע ארע ארע ארע א                 |  |  |  |  |
| Total No. of Cracked Rings                   |                       | ~       | ~              | 1   |  |  |  |  |
| Total No. of Rings with Two<br>Cracked Seams |                       |         |                |   |  |  |  |  |
| Min. Remaining Steel                         |                       |         |                |   |  |  |  |  |
| Between Cracks (MM)                          |                       |         |                | -   |  |  |  |  |
| Longitudinal Stagger (V/N)                   |                       |         |                |   |  |  |  |  |
|  |                       | 1       |                |   |  |  |  |  |

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 | <u>nm): -</u> | , Rise (mm): 1200, Type: MP)  |  |  |  |  |  |  |
| Coating                                       |                       | N       | 2             | Perforations and section loss along   |  |  |  |  |  |  |
| Corrosion By Soil (Y/N)                       | No                    |         |               |   |  |  |  |  |  |  |
| Corrosion By Water (Y/N)                      | Yes                   |         |               |   |  |  |  |  |  |  |
| Camber POS/ZERO/NEG                           | NEG                   |         |               |   |  |  |  |  |  |  |
| Ponding (Y/N)                                 | No                    |         |               |   |  |  |  |  |  |  |
| Fish Passage Adequacy                         |                       |         | 2             | D/S end 1.5m above stream.  |  |  |  |  |  |  |
| Baffle  |                       |         | Х             |   |  |  |  |  |  |  |
| (Туре : )                                     |                       |         |               |   |  |  |  |  |  |  |
| Waterway Adequacy                             |                       | 2       | 2             | D/S channel erosion extensive, d/s section of pipe detached.                                |  |  |  |  |  |  |
| Icing (Y/N)                                   | No                    |         |               |   |  |  |  |  |  |  |
| Silting (Y/N)                                 | No                    |         |               |   |  |  |  |  |  |  |
| Drift (Y/N)                                   | No                    |         |               |   |  |  |  |  |  |  |
| Barrel General Rating                         |                       | 2       | 2             |   |  |  |  |  |  |  |
|   |                       | D       | ownstr        | ream End  |  |  |  |  |  |  |
| Culvert Component                             |                       | Last    | Now           | Explanation of Condition  |  |  |  |  |  |  |
| (Pipe # : 2, Span Type: Second                | ary Span)             |         |               |   |  |  |  |  |  |  |
| Direction                                     | 1                     | E       |               | South pipe.   |  |  |  |  |  |  |
| End Treatment (Concrete, Steel, Others, None) | STEEL                 |         | -             |   |  |  |  |  |  |  |
| Headwall                                      |                       | Х       | X             |   |  |  |  |  |  |  |
| Collar  |                       | X       | Х             |   |  |  |  |  |  |  |
| Wingwalls                                     |                       | Х       | Х             |   |  |  |  |  |  |  |
| (Shape : )                                    |                       |         |               |   |  |  |  |  |  |  |
| Cutoff Wall                                   |                       | Х       | Х             |   |  |  |  |  |  |  |
| Bevel End                                     |                       | 2       | 2             | Detached from pipe, (located 45m d/sMay 2, 2008.)   |  |  |  |  |  |  |
| Heaving (mm)                                  |                       |         |               |   |  |  |  |  |  |  |
| Invert Above/Below Stream Bed                 |                       |         |               |   |  |  |  |  |  |  |
| Above/Below (mm)                              |                       |         |               |   |  |  |  |  |  |  |
| Scour Protection                              |                       | 2       | 2             | Large scour & erosion channel at end  |  |  |  |  |  |  |
| (Type : NATURAL, NONE)                        |                       |         |               | of pipe. Bevel end lost to under  |  |  |  |  |  |  |
| (Avg. Rock Size (mm) : )                      |                       |         |               | 40m x 100m.(photo).   |  |  |  |  |  |  |
| Scour/Erosion                                 |                       | 2       | 2             |   |  |  |  |  |  |  |
| Beavers (Y/N)                                 | No                    |         | 1             |   |  |  |  |  |  |  |
| Downstream End General Ratin                  | າg                    | 2       | 2             |   |  |  |  |  |  |  |
|   |                       |         | tructu        | re Usage  |  |  |  |  |  |  |
|   |                       | Last    | Now           | Explanation of Condition  |  |  |  |  |  |  |
| Channel (U/S and D/S)                         |                       |         |               |   |  |  |  |  |  |  |
| Alignment                                     |                       |         | 6             | Severe erosion in d/s channel. Major slumping. Channel eroding d/s south pipe approx. 100m. |  |  |  |  |  |  |
| Bank Stability                                |                       | 2 2     |               | SCOUR HOLE 0.8M DEEP X 2M WIDE AT APPROX. 10M FROM NORTH D/S END PIPE.                      |  |  |  |  |  |  |
| HWM (m below Top of Culvert)                  |                       |         |               | HWM NOT VISIBLE.  |  |  |  |  |  |  |
| Drift (Y/N)                                   | Νο                    |         |               |   |  |  |  |  |  |  |
| ( ,   | L                     |         |               |   |  |  |  |  |  |  |

| Structure Usage                              |       |      |     |                          |  |  |  |  |  |
|--|-------|------|-----|--------------------------|--|--|--|--|--|
|  |       | Last | Now | Explanation of Condition |  |  |  |  |  |
| Channel Bottom DEGRADING Degrading/Aggrading |       |      |     | @ D/S END OF NORTH PIPE. |  |  |  |  |  |
| Beavers (Y/N) No                             |       |      |     |                          |  |  |  |  |  |
| (Fish Compensation Measure 1 :               | NONE) |      |     |                          |  |  |  |  |  |
| (Fish Compensation Measure 2 :               | NONE) |      |     |                          |  |  |  |  |  |
| Channel General Rating                       |       | 2    | 2   |                          |  |  |  |  |  |
|  |       |      |     |                          |  |  |  |  |  |

| Maintenance Recommendations                |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
|--|----------------------------|-------------------------|-----------------------------------|------------|--------------------------------|---------------------------------|---|-----------------|------------------------|-------|--|
| Inspector Recommendations                  | Year                       | Inspect                 | or Comments                       |            | Department Com                 | ments                           |   | Target Year     | Est. Cost              | Cat # |  |
| SHOTCRETE REPAIRS                          |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| PLACE ADDITIONAL RIP RAP                   |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| REMOVE DRIFT ACCUMULATION                  |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| INSTALL CONCRETE/STEEL LINING              |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| INSTALL STRUTS                             |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| INSTALL CONCRETE COLLAR/CUTC               | DFF                        |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| REPAIR SEAMS                               |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| OTHER ACTION                               | 2010                       | Replace                 | ement                             |            |                                |                                 |   |                 |                        |       |  |
| OTHER ACTION                               |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| OTHER ACTION                               |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| OTHER ACTION                               |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| Structural Condition Rating (Last/No (%)   | ow) 22.2/                  | 22.2                    | Sufficiency Rating (Last/I<br>(%) | Now) (     | 0.0/0.0                        | <b>J/0.0</b> Est. Repl. Yr 2010 |   |                 | Maint. Reqd. (Y/N) Yes |       |  |
| Special<br>Comments for<br>Next Inspection | mbankments<br>sent March 2 | 2010                    |                                   |            | Department<br>Comments         |                                 |   |                 |                        |       |  |
| Maintenance Reviewed By                    |                            |                         |                                   |            | Date                           |                                 | E | Estimated Total | 0                      |       |  |
| Proposed Long-Term Strategy                |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| On 3-Year Program (Y/N)                    |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| Proposed Action                            |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| Previous Inspector's Name                  | Brian Pientso              | Brian Pientsch Previous |                                   |            |                                | Assistant's Name Jordan Evans   |   |                 |                        |       |  |
| Next Inspection Date                       | 24-Nov-2011 Previo         |                         |                                   | Previous I | us Inspection Date 02-May-2008 |                                 |   |                 |                        |       |  |
| Inspection Cycle (Default) (months)        | 21                         |                         |                                   |            |                                |                                 |   |                 |                        |       |  |
| Comment                                    |                            |                         |                                   |            |                                |                                 |   |                 |                        |       |  |