(3)
Aug 20

ACTIVE

BC Ministry of Forests and Range

Corporate Bridge Register (CBR)

Structure Inventory Data Form "BRIDGES"

GENERAL	
*Structure #	*Site #: CK-2140
*Type/Class: ☑ Permanent Bridge ☐ Temporary Bridge	Crossing Name:
*Forest District: Chilliwack	Management Area:
*Forest Service Road: Harrison West	Kilometres: 46.5
*Project File ID#: 6314	*Br. 61

Built For: ☐ BC Timber Sales ☐ Other Commercial Users ☐ Road Use Permit Holder ☐ Operations Division ☐ Road Permit Holder

***Source:** ☐ Inherited: Found Structure ☐ Inherited: Non-Status Road ☐ Inherited: Reallocation ☐ New Structure ☐ Replacement Structure ☐ Inherited: From Oil & Gas/ Other Ministry ☐ Inherited: Transfers from Other Ministries

Year Built:	Year Added to Inventory:
Current Load Rating GVW (tonnes): (PEng to enter / update this value on structure details screen in CBR)	**Design Load Rating GVW (tonnes):** (Typically obtained from design drawings)

Design Vehicle Configuration:

☐ BCL625 ☐ CL625 ☐ L100 ☐ L120 ☐ L150 ☐ L165

☐ L45 ☐ L60 ☐ L75 ☐ L90 ☐ Other

*Primary User Client Number:	*Client Location Code:
Primary User Name:	
As Built Information on File? ☐ Yes ☐ No	
Installation Cost ($):	Material Cost ($):

REPLACEMENT DETAILS	
Original Replacement (year):	Estimated Closure (year):
Light Vehicle Traffic Replacement (year):	*Full Log Haul Traffic Replacement (year): (PEng to review and evaluate inspector's estimate, and to enter /update this value on structure details screen in CBR).
Estimated Replacement Cost ($):	
Replacement Cost Comments:	

* Denotes Mandatory Information for Corporate Bridge Register

4x 5 the
2x 5th

CK-2140

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Structure Inventory Data Form "BRIDGES"

STRUCTURAL DETAILS

Number of Spans: 1

Length of Spans (m) [e.g. for a 3-span bridge – 20, 35, 20]: 17.4

Number of Piers: —

Pier Type:
- ☐ Concrete
- ☐ Crib - Timber
- ☐ Piles - Concrete
- ☐ Piles - Steel
- ☐ Piles – Timber Treated
- ☐ Piles – Timber Untreated
- ☐ Steel Column on Concrete Pad

Needle Beams? ☐ Yes ☑ No

Portable Structure? ☐ Yes ☑ No

Portable Superstructure Status: ☐ Installed ☐ Storage

Portable Superstructure Storage Location:

***Bridge Length (metres):** 18.3

***Superstructure:**
- ☐ Compo Girders
- ☐ Concrete Box Beam
- ☐ Rail Car
- ☐ Concrete Cast in Place
- ☐ Concrete I/T Beam
- ☐ Other
- ☐ Concrete Slab Girders
- ☐ Glulam Girder
- ☐ Log Stringer
- ☐ Steel Box Beam
- ☑ Steel I-Beam
- ☐ Steel Truss/Bailey/Acrow
- ☐ Timber-Treated Stringers
- ☐ Timber-Untreated Stringers

***Deck Type:**
- ☐ Concrete
- ☐ Concrete Composite
- ☐ Gravel
- ☐ Concrete Removable
- ☐ Concrete - Steel Free
- ☐ Steel
- ☐ Timber-Treated
- ☐ Timber-Untreated
- ☐ Other
- ☐ Timber-Treated Panels
- ☑ Timber-Untreated Panels

***Deck Width (metres):** 4.3

***Running Surface:**
- ☐ Anti-Skid
- ☐ Asphalt
- ☐ Concrete
- ☐ Gravel
- ☐ Not Available
- ☑ Timber Planks

***Left Abutment:**
- ☐ Binwall
- ☐ Concrete Cast in Place
- ☐ Concrete Lock Blocks
- ☐ Concrete Precast
- ☑ Crib, Log or Untreated Timber
- ☐ Other
- ☐ Pile-Temporary Materials
- ☐ Pile-Permanent Materials
- ☐ Sill-Permanent Materials
- ☐ Sill-Temporary Materials
- ☐ Steel Pipe & Precast Pad

***Right Abutment:**
- ☐ Binwall
- ☐ Concrete Cast in Place
- ☐ Concrete Lock Blocks
- ☐ Concrete Precast
- ☑ Crib, Log or Untreated Timber
- ☐ Other
- ☐ Pile-Temporary Materials
- ☐ Pile-Permanent Materials
- ☐ Sill-Permanent Materials
- ☐ Sill-Temporary Materials
- ☐ Steel Pipe & Precast Pad

Comments:

BC Ministry of Forests and Range

Routine Condition Bridge Inspection Form
(except for log stringer or timber stringer bridges)

GENERAL INFORMATION

(enter either long/lat or UTM below – not both)

*Site #: CK-2140 *Structure #:	*Crossing Name:	*Type/Class: ☐ Temporary bridge ☑ Permanent bridge	*Project File ID#: 6814 *Br. 01
*FSR Name: Haunam West	*Forest District: Chilliwack	*Kilometres: 46.5	User km: 45.5

Longitude: (ddd / mm / ss.s) 49 36 34.7 Latitude: (ddd / mm / ss.s) 121 57 25.9	OR	UTM Zone	UTM Easting	UTM Northing

LEFT/RIGHT APPROACHES (as seen facing downstream)

E = excellent; G = good; F = fair; P = poor; N/A = not appl., UR = Unrated

Item	Present Condition (circle or fill-in)	Comments (a comment is mandatory if condition "Poor" is selected)
Alignment	E G F (P) UR	TIGHT HORIZONTAL CURVE IMPEDES VISIBILITY.
Bridge Ahead Signs Missing	(0) 1 2	
Brushing Required	Yes (No)	
Delineator Missing Left	(0) 1 2	
Delineator Missing Right	(0) 1 2	
Fender Condition	E G F (P) None UR	ONLY INSTALLED ON DOWNSTREAM LEFT ABUT.
Posted Load Rating	68 (tonnes) or None	
Road Surface	E G (F) P UR	SOME POTHOLES ON APPROACHES.

LEFT/RIGHT ABUTMENTS (as seen facing downstream)

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Log/Timber Cribs	E G (F) P N/A UR	RIGHT ABUT: 6x LOG CRIB (X̄ DIAM: 60-80cm) w/ 200mm of ROT. TOP FACE LOG SQUARE TIMBER X2. LEFT ABUT: 2X LOG CRIB, w/ TOP FACE LOG AS SQUARE TIMBER.
Tie-backs	E G (F) P N/A UR	5x (55-70 cm) w/ 150mm of ROT.
Bin Wall	E G F P (N/A) UR	
Concrete (cast in place; lock blocks, precast)	E G F P (N/A) UR	
Caps or Sills	E G F P (N/A) UR	
Piles or Posts	E G F P (N/A) UR	
Ballast Wall	E (G) F P N/A UR	TREATED TIMBER.
Wing Wall	E G F P (N/A) UR	
Bracing	E G F P (N/A) UR	
Hardware	E G F P (N/A) UR	
Fill	E G (F) P N/A UR	
Riprap	E G (F) P N/A UR	BEDROCK CONTROLED ON LEFT ABUT.
Bearings	E G (F) P N/A UR	TOP FACE LOG RESTS ACCROSS THE BACK.
Corrosion Protection	E G (F) P N/A UR	

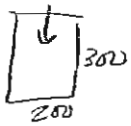
Span 1 of 1 (spans are numbered consecutively starting from the left abutment)

Use "Additional Spans" Sheet for Multiple Spans

DECK

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Running Surface (N/A if running surface is gravel or timber planks)	E G F P (N/A) UR	
Running Planks	E G F (P) N/A UR	SOME DAMAGE & ROT.
Sub-deck	E G (F) P N/A UR	TIMBER
Ties	E G (F) P N/A UR	SOME HAVE ~ 20mm of ROT. WHERE RAIL RISERS HAVE BEEN DAMAGE THE TIE IS ROTTEN
Nails	E G F (P) N/A UR	SOME STICKING OUT
Deck to Girder Bolts	E G F P N/A UR	
Concrete Deck	E G F P N/A UR	
Grout Pockets	E G F P N/A UR	
Deck Joints	E G F P N/A UR	
Steel Deck Plate	E G F P N/A UR	
Gravel Surface	E G F P N/A UR	
Gravel Deck Depth	____ metres or N/A	
Curb Rail/Blocks/Posts	E G F (P) UR	DAMAGED & WILL REQUIRE REPLACING RISERS.
Handrails/ Walkouts	E G F P (N/A) UR	
Hardware	E G F (P) N/A UR	LOOSE DUE to impact
Overall Deck Condition	E G (F) P UR	

200 X 300mm ←



BC Ministry of Forests and Range

Routine Condition Bridge Inspection Form
(except for log stringer or timber stringer bridges)

GENERAL INFORMATION

*Site #: CK - 2140 | *Structure #:

SUPERSTRUCTURE

Item	Present Condition (circle)	Comments (a comment is mandatory if condition "Poor" is selected)
Girders	E G (F) P UR	2 x STEEL I-BEAM : HEAVY RUST.
Diaphragms	E G (F) P N/A UR	
Bracing	E G (F) P N/A UR	
Under-trussing	E G F P (N/A) UR	
Hardware	E G (F) P N/A UR	
Welded / Grouted Shear Connectors	E G F P (N/A) UR	

Stream CHANNEL

*Est. Present Water Level Depth 0.5 (m) | *Est. Present Water Level ~~Depth~~ HW 5 (m) | *Est. Present Water Level ~~Depth~~ HW 5 (m)

HAZARDS (circle yes or no for each item))

High Water? Yes (No) | Scour? Yes (No) | Ice? Yes (No) | Debris? Yes (No) | Aggradation? Yes (No)

Comments

REPAIRS: ☐ Recommended ☐ Not required (H = High, M= Medium, L = Low)

Repair Item #	*Priority (circle)	*Estimate ($)	*Repair Description
1	(H) M L		REPLACE ROTTEN & DAMAGED RUNNING PLANKS.
2	(H) M L		REPLACE NAILS.
3	(H) M L		INSTALL FENDER LOGS.

*Monitoring Status: ☐ Recommended ☐ Not required

Monitor Item #	*Monitor Description
1	CRIB IS OLD. SHOULD BE MONITORED ANNUALLY.
2	

PHOTO LOG

Photo #	Description	Photo #	Description
	LOAD LIMIT		FROM UPSTREAM
	RAIL DAMAGE X 3		RIGHT ABUT
	RUNNING SURFACE DAMAGE X 2		LEFT ABUT.
	RIGHT TO LEFT		FROM DOWNSTREAM

LEFT ABUT.

INSPECTOR TO COMPLETE THIS SECTION

As-built Drawings Checked? Yes (No) | P Eng Inspection Required? Yes (No) | Inspector's Estimate of Full Log Haul Traffic Replacement Date (year): (PEng to review and evaluate inspector's estimate, and to update "Full Log Haul Traffic Replacement (year)" on structure details screen in CBR)

*Date of Inspection (yyyy/mm/dd)	*Inspection Company Name	*Inspector's Name (print)	Inspector's Signature
2010-08-20	Onsite Engineering Ltd	Ali Sadeghi	

Inspector's Comments

PROFESSIONAL ENGINEER (PEng) TO COMPLETE THIS SECTION

Current Load Rating GVW (tonnes): 68 (PEng to update structure details screen in CBR as necessary) | Date of Next Planned Inspection (yyyy/mm/dd) 2011/09/01

Reviewer Company Name	Reviewed by - PEng's Name (print)		Date Reviewed (yyyy/mm/dd)
MNRO Onsite Engineering LTD	G. Dohm	Greg Dohm	2010/12/01

PEng Reviewer's Comments: Immediate works are to replace broken curb rails and monitor ties from underside over winter to ensure they are not cracking or showing other signs of failure. In order to keep this industrial load rating, the wooden deck will need to be replaced next summer (including ties)

* Denotes Mandatory Information for Corporate Bridge Register

CK2140 Load limit sign

CK2140 Damage rail

CK2140 Damage deck

CK2140 Damage dec 2k

CK2140 Damage rail 3

CK2140 Damage rail 2

SINGLE
LANE
BRIDGE
BRIDGE
LOAD LIMIT
68,040
kg G.V.W.
CK2140 Right to left

CK2140 From upstream

CK2140 Right abutment

CK2140 Left abutment

CK2140 Right abutment 2

CK2140 From downstream

CK2140 Left abutment 2

CK2140 Left to right