CK-2505	MURDO SIXTEEN 0.4km	2014 Inspection

CBR iPad Offline Ver 0.17

CBR Data

Latitude	Longitude
49°17'41.79"	-122°13'23.7"

Road Name	MURDO SIXTEEN
User km	0.4
Current Load Rating (tonnes)	
Structure Class	Woodbox/Log Culvert
Portable	N
Superstructure	
Deck Type	
Abutment Left	
Abutment Right	
Spans	0
Total Length (m)	6
Deck Width (m)	

Updated Data

Latitude	Longitude
°0'0"	-122°13'23.7"

HD Diff. (m) 5487488.1 Accuracy (m)

Murdo 16	
0.4	
L120 or 109 tonnes	
Temporary Bridge	
N	
Log Stringer	
Gravel	
Sill -Temporary Materials	
Sill -Temporary Materials	
1	
6.0	

Inspection

Date of Inspection 2014-10-09 1:14:28 PM

Inspector Name Tyson Miller

Inspection Company MFLNRO

Inspection Comments

P.Eng Comments

Replace missing guide log on upstream left approach. Post bridge ahead signs. Monitor the fill on the outlet of this structure. The sill logs ends are already scoured and the remaining fill is over-steepened. If any more scour has taken place then what is pictured in this inspection the hauling should be stopped and a repair plan determined. Present load rating of L120 or 109 tonnes to continue.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. W. MILLER
P.Eng 35665

Feb 3/2015

Approach

Alignment	Fair	
Bridge Ahead Signs Missing	○ 0 ○ 1 ● 2	
Brushing Required	N	
Delineator Missing Left	● 0 ○ 1 ○ 2	
Delineator Missing Right	● 0 ○ 1 ○ 2	
Fender Condition	Fair	missing left upstream
Posted Load Rating		not posted
Road Surface	Fair	

Abutment

Log/Timber Cribs	N/A	
Tie Backs	N/A	
Bin Wall	N/A	
Concrete	N/A	
Caps or Sills	Fair	notched so outside stringers sit in notch
Piles or Posts	N/A	
Ballast Wall	N/A	
Wing Wall	N/A	
Bracing	N/A	
Hardware	N/A	
Fill	Fair	poor on the outlet - requires monitoring
Riprap	Fair	
Bearings	Fair	

Corrosion Protection	N/A	

Deck

Running Surface	N/A	
Running Planks	N/A	
Sub Deck	N/A	
Ties	N/A	
Nails	N/A	
Deck to Girder Bolts	N/A	
Concrete Deck	N/A	
Grout Pockets	N/A	
Deck Joints	N/A	
Steel Deck Plate	N/A	
Gravel Surface	Fair	
Curb Rail/Blocks/Posts	Fair	not fastened to stringers
Hand Rails/Walkouts	N/A	
Hardware	N/A	
Overall Deck Condition	Fair	
Gravel Depth (mm)	400	

Steel/Concrete

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted shear connectors

Log

Log Curbs

Needle Beam

Needle Lashing/ Shimming

Needle Beam to Crib (m)

Needle Diameter (mm)

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Comment
1	Fd	Y	600		
2	Fd	Y	500		
3	Fd	Y	550		
4	Fd	Y	530		
5	Fd	Y	550		
6	Fd	Y	520		
7	Fd	Y	500		
8	Fd	Y	520		
9	Fd	Y	540		
10	Fd	Y	500		
11	Fd	Y	480		
12	Fd	Y	540		

Hazards

Estimated Present Water Level Depth (m)	0.1	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	0.5	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	0.3	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	post bridge ahead signs
2	Medium	replace missing upstream left guide log
3		

Monitor Item	Monitor Description	Monitoring Frequency
1	outlet fill erosion and abutment (log sill) scour	Anually and while active
2		
3		

Sketch
(Select Signature)

FileName CBR iPad Offline Ver 0.17

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Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

Left Bank Abutment when facing downstream

Right Bank Abutment when facing downstream

right downstream abutment scour

left downstream scour