

Name:	ASHBURTON R	VER (HAKATERE) BR DGE		BSN:	4306	Structure No.:	32004
Highway:	1S	Route Position:	430 / 0 6	Direction:	Two Way	Region:	
Structure Type:	Bridge	Span Arrangement:	32 / 10 7	Length:	342 4	Width Between Kerbs:	8 5
Inspected By:	s 9(2)(a)	Inspected Date:	03/06/2020	Reviewed By:	s 9(2)	Reviewed Date:	03/07/2020
Approved By:	s 9(2)(a)	Approved Date:	03/07/2020	Inspection Type:	General		

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Set	No	Description	Mark	Brief description of fault and comments
	1	Primary load carrying element	4	cracking / spalling in beams - particularly at ends of spans
S	2	Secondary element(s) - Transverse beams	1	
The	3	Secondary element(s) - Other (incl deck)	3	Spalling on deck edges Light corrosion on footway decking
ipers ruct. Elements		Half joints	NA	
Supers ructure Elements	5	Seismic linkages/Holding Down bolts	3	Brids nesting on linkages
Jre		Parapet beam or cantilever	1	
	7	Cross bracing	NA	
	8	Foundations	1	
s L	9	Abutments	1	<u>^</u> '
Load-bearing Substructure	10	Head wall	1	
-be stru		Pier / column	2	Pile abrasion
Load-bearing Substructure	12	Cross-head / capping beam	1	
e Q	13	Bearings	2	Corrosion on steelwork
		Bearing plinth / shelf	NA	
		Superstructure drainage	4	consider extending drainage channels
mσ	16	Subs ructure drainage	0	
Durability Elemen s	17	Movement / expansion joints	2	Deck joints leak
bilit		Painting Superstructure elemen s	NA	
s <		Painting substructure elemen s	NA	
	20	Painting barriers/guardrails	1	
Π		Access / walkways / gantries	1	
Safety Elemen		Guardrail / handrail / safety fences	2	spalling on H/R
Safety Elemen s	_	Carriageway surfacing	1	
0		Footway / verge / footbridge surfacing	1	
		nvert / river bed	1	
<u> </u>		Aprons	NA	
Waterway Elemen s		River bed upstream		
way en s		River bed downs ream	XV	
0) <	-	Scour	2	Exposed pier foundations due to scour Debris on piers
		River banks	1	
프 문	_	Revetment / batter slope paving	NA	
Re aining Elemen s		Wing walls	NA	
Re aining Elemen s		Retaining walls	1	
·· 🖵		Embankmen s	1	0.11
		Approach rails / barriers / walls	4	Cracking spalling
0	_	Approach adequacy	1	
Other		Signs	1	O served as an light server
er		Lighting	4	Corrosion on light pos s
	_	Services	1	On William shadow to the
	40	Appearance	1	Graffiti on abutments and piers
king Co	de			
ot inspec				
atisfactor	гy			

4 - Structural Maintenance

ended last inspection has been completed? No

Inventory Changes Required

Remedial y

Item	Inventory	Description	Date
Commen	ts and Recommendations for Ma	intenance/Repairs	
W/E = 114	A (Routine Maintenance) 114B (Struc	tural Maintenance) 215A (Routine Component Replacement) 215B (Structural Component Replacement) 215E (Component Replace	cement
Pro ession	al Services) (nvestigate)		

Item	Ref	Brief description of fault and recommendations for repairs	Priority	W/E	Cost Estimate	Complete (Y/N)
1		Footway steelwork corroding (Refer attached e-mail) 2020 detritus and local vegeta ion promoting corrosion critical can ilever connection at risk clean and reat	High	215B	125000	No
2	35	Cracking spalling 2020 1x transverse crack in PC footpath slab mid span downstream	High	215B	5000	No
3	38	Corrosion on light posts Bent post south west abutment replace	High	215B	12000	No

## **Comments and Recommendations for Maintenance/Repairs** W/E = 114A (Routine Maintenance) 114B (Structural Maintenance) 215A (Routine Component Replacement) 215B (Structural Component Replacement) 215E (Component Replacement) Pro essional Services) (nvestigate) Item Ref Brief description of fault and recommendations for repairs Priority W/E Cost Estimate Complete (Y/N) 38 Upgrade lighting HD bolts and corrosion protection of light masts 2020 some pin holes in tubing indica ing internal 215B 4 High 50000 No corrosion May be best to replace light pos s completely 5 5 Birds nesting and bird droppings on seismic linkages Remove nests and waterblast clean 2020 Medium 114B 10000 No Deck joints leak (incl pier 10) 2020 wide spread all deck joints cracking in pavement see typical photo 6 17 Medium 215B 25000 No 29 Logs on pier J from north end Medium 114A 850 7 No 40 Remove graf iti on abutments and piers provide graffiti resistant paint in reachable areas 20000 8 Medium 114A No 9 Spalling in beams and diaphragms Refer to nspection notes 2018 Low 114B 50000 No 1 10 15 Consider extending deck drainage outlets Cracking evident in beam soffit/edges under drainage outlets widespread Low 114B 6000 No some isolated spalling 11 1 Spalling under beams at south abutment Diagonal linkage bars exposed Likely to be caused by beam de lection Monitor 114B 5000 Similar issue observed at Rangi ata No 1 S h Abu ment Monitor ongoing performance (spall repairs will not last unless separated from the underside of the beam Previous repair failed very quickly) 12 1 Honeycombed concrete cracked concrete spalling see previous reports Also recent spalling south abutment Monitor 114B 10000 Beams 2 3 4 3 50000 13 Spalling in deck edges 114B Monitor No 14 3 10-15% Corrosion on walkway angles and channels 2020 heavy with detritus keep these areas clean critical Monitor 215B 80000 No connection to can ilever walkway 11 Abrasion on exposed piles Pile south channel 2nd from U/S Exposed stirrups 2020 in waterway currently Monitor 215B 10000 15 No 16 13 Light corrosion on bearings No change since 2011 Monitor 215B 100000 No 17 22 Some spalling on Handrail No change since 2020 Monitor 144B 10000 No 29 2m pile exposed S & N channel and central span 12-13-14 +2m 2011 - see photos may be more See management Monitor 14B 18 50000 No plan for monitoring s rategy Pile lengths at centre channel x 4 only 2-2 4 metres exposure all others approx 800 - 1 metre North channel 3 piers have 1 2-1 8 exposure 2018 - Refer Engineers Comments Worst 2 0-2 4m 2020 no

 change

 19
 35
 Cracking and spalling along concrete parapets 2020

Item	Defect/Strategy Person (Br Insp Eng)	Date
1	Pile scour identified as very high risk Bed being monitored by Ecan s 9(2)(a)	14/04/20
2	Asset Management S rategy for bridge attached wi hin database	05/12/2
3	Spalling under beams at south abutment Diagonal linkage bars exposed Likely to be caused by beam deflection or snagging of sliding joints at piers Detailed inspec ion required to determine cause of issue	16/10/20
4	When undertaking detailed inspections look at alternative options to Bridge Access unit Signi icant Traffic Delays can result from single laning his structure during daytime hours	22/03/20
5	Pier scour measuremen s 2018 Pier E =1 4m F =0 9m G =1 0m J=0 9m J=1 4m M=1 5m N=1 5m O=1 8m P = 2 5m (Channel) Q =2 0m R = 0 7m S=1 0m Refer 2018 nspection notes for further information	13/06/20
6	John Keenan (NZTA) and ADC have confirmed that the lighting poles are owned by the NZ Transport Agency	07/09/20
7	nspection of beam ends at each pier done 04/02/2020 River flow, was 4 7m3/s at he ime and all	
	channels along the bridge were less han know doop	04/02/20
		04/02/2

Monitor 114B

Total Estimate

50000

668850

No