

RAA Sinking Pit Cover Assessment

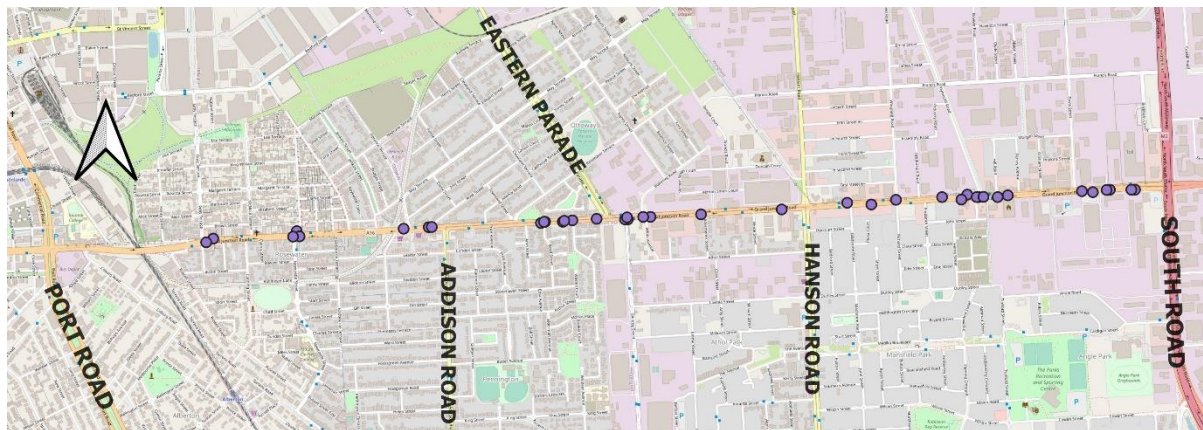
Road being assessed: **Grand Junction Road from Port Road to South Road**

Direction and number of lanes tested: Eastbound and Westbound, all lanes.

Date of assessment: 7-10-2022

Total sites assessed: 119

Total sites exceeding comfort benchmark: 43 (1x telco cover removed from this list)



RAA digitally inspected all covers that exceeded our calculated comfort benchmark using dashcam footage and removed false readings and pit covers that we did not believe to be SA water assets from the list.

Below is the list of 42 sites we believe to be under the care of SA Water. 39 of these recorded a high G-Force reading with visual defects causing driver discomfort or danger. A further three were unable to be measured but were identified to be a high risk for motorcyclists.

RAA does not guarantee that this test has identified all defective plates/castings on Grand Junction Road.

Location Description	Latitude	Longitude	Direction/Lane	Comment
#47 G.J. RD	-34.8519	138.5175	EB LH	motorcycle hazard
NEWCASTLE ST INTERSECTION	-34.8516	138.5216	EB LH	
OPPOSITE GLADSTONE RD	-34.8504	138.5488	EB LH	
E OF WINGFIELD RD	-34.8503	138.5512	EB LH	sunken patch
#465 G.J. RD	-34.8498	138.5535	EB LH	
#473 G.J. RD	-34.8498	138.5537	EB LH	
E OF BUS STOP #27G	-34.8499	138.5630	WB LH	
W OF BUS STOP #27G	-34.8499	138.5628	WB LH	
E OF #500 G.J. RD	-34.8499	138.5617	WB LH	
W OF #500 G.J. RD	-34.8500	138.5609	WB LH	
OPPOSITE HILL RD	-34.8502	138.5562	WB LH	sunken patch
E OF WILLIAM ST	-34.8502	138.5553	WB LH	2 covers, sunken patch
WILLIAM ST INTERSECTION	-34.8502	138.5552	WB LH	
#450 G.J. RD	-34.8503	138.5544	WB LH	sunken patch
#400 G.J. RD	-34.8505	138.5500	WB LH	
#280 G.J. RD	-34.8507	138.5455	WB LH	
#250 G.J. RD	-34.8509	138.5416	WB LH	

Location Description	Latitude	Longitude	Direction/Lane	Comment
E OF WHITE AVE	-34.8510	138.5391	WB LH	
W OF WHITE AVE	-34.8510	138.5387	WB LH	
GLENROY ST INTERSECTION	-34.8511	138.5379	WB LH	
W OF GLENROY ST INTERSECTION	-34.8511	138.5378	WB LH	
50m W OF ARTHUR ST	-34.8512	138.5347	WB LH	
BOYD ST INTERSECTION	-34.8512	138.5339	WB LH	sunken patch
W OF BOYD ST	-34.8513	138.5337	WB LH	
E OF NEWCASTLE ST	-34.8518	138.5217	WB LH	2 covers
W OF NEWCASTLE ST	-34.8518	138.5214	WB LH	
OPPOSITE GRAY TCE	-34.8520	138.5171	WB LH	
W OF MAY TCE	-34.8515	138.5269	EB RH	
ROSE ST INTERSECTION	-34.8514	138.5281	EB RH	motorcycle hazard
E OF ROSE ST	-34.8514	138.5283	EB RH	motorcycle hazard
#500 G.J. RD	-34.8499	138.5616	WB RH	
OPPOSITE DAVIS ST	-34.8500	138.5604	WB RH	
#456 G.J. RD	-34.8501	138.5567	WB RH	sunken patch
E OF WILLIAM ST	-34.8502	138.5555	WB RH	sunken patch
GLENROY ST INTERSECTION	-34.8510	138.5379	WB RH	
W OF EASTERN PDE	-34.8511	138.5364	WB RH	2 covers
ARTHUR ST INTERSECTION	-34.8511	138.5352	WB RH	
40m W OF ARTHUR ST	-34.8512	138.5348	WB RH	
BOYD ST INTERSECTION	-34.8512	138.5338	WB RH	

RAA have calculated a benchmark comfort G-Force of 0.045G in our test vehicle (2015 Subaru Forester) based on averaging the G-Force of multiple runs over a singular pit cover approximately 50mm deep that was perceived to be uncomfortable when crossed. Covers that exceed this benchmark G-Force are subsequently reviewed with false readings and non-SA Water assets removed from the final list. RAA does not guarantee that this test has identified all defective castings on Grand Junction Road and recommends these results be reviewed and verified by SA Water prior to scheduling works.