

# RAA Sinking Pit Cover Assessment

Road being assessed: **Churchill Rd from Torrens Road to Grand Junction Road**

Direction and number of lanes tested: Northbound and Southbound, all lanes.

Date of assessment: 5-11-2020

Total sites assessed: 138

Total sites exceeding comfort benchmark: 27 (2x telco covers removed from this list)



*Sunken Plate at intersection w  
Montgomery Rd*

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 30 sites we believe to be under the care of SA Water. 25 of these recorded a high G-Force reading with visual defects causing driver discomfort or danger. A further five 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 Churchill Road.

Location Description	Latitude	Longitude	Direction/Lane	Comment
N OF CLIFTON ST	-34.8936	138.5854	NB LH	
S OF DUDLEY AVE	-34.8929	138.5853	NB LH	
N OF ALLAN ST	-34.8921	138.5853	NB LH	
IN FRONT OF #80	-34.8914	138.5852	NB LH	
S OF PALMER ST	-34.8899	138.5851	NB LH	
GURR ST INTERSECTION	-34.8786	138.5843	NB LH	
IN FRONT OF #246	-34.8782	138.5843	NB LH	
BUNNINGS DRIVEWAY	-34.8732	138.584	NB LH	
S OF SUPERCHEAP AUTO	-34.8679	138.5836	NB LH	
IN FRONT OF #414B	-34.8617	138.5831	NB LH	3 covers
CARROLL AVE INTERSECTION	-34.8599	138.583	NB LH	
GRAND JUNC. RD INTERSECTION	-34.84894026	138.5824893	SB RH	
MONTGOMERY RD	-34.8553231	138.582816	SB RH	
S OF MONTGOMERY RD	-34.85565377	138.582831	SB RH	
GOODMAN AVE	-34.8572981	138.5829338	SB RH	
N OF BRUNSWICK ST	-34.85782919	138.58298	SB RH	
BRUNSWICK ST	-34.85805292	138.5829962	SB RH	
IN FRONT OF #421	-34.86051842	138.5831567	SB RH	
IN FRONT OF #353	-34.8671569	138.5830838	SB RH	Unable to test - hazard to motorcycles
GALWAY ST INTERSECTION	-34.867583	138.583668	SB RH	Unable to test - hazard to motorcycles
KITCHENER ST INTERSECTION	-34.8684649	138.5831778	SB RH	Unable to test - hazard to motorcycles
S OF KITCHENER ST	-34.86865226	138.5837173	SB RH	



Location Description	Latitude	Longitude	Direction/Lane	Comment
PALMER AVE	-34.869891	138.583826	SB RH	Unable to test - hazard to motorcycles
ALABAMA AVE	-34.872126	138.583982	SB RH	Unable to test - hazard to motorcycles
CHARLES ST INTERSECTION	-34.87772203	138.5843139	SB LH	
IN FRONT OF #221	-34.87837561	138.5843584	SB LH	
N OF ALEXANDRA ST	-34.88055402	138.5844999	SB LH	
S OF BEATRICE ST (OPP. PYM)	-34.88175939	138.5846001	SB LH	
IN FRONT OF #131	-34.88629564	138.5849445	SB LH	3 covers
OPPOSITE TOTNESS AVE	-34.8865326	138.5849574	SB LH	

*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 Churchill Road and recommends these results be reviewed and verified by SA Water prior to scheduling works.*