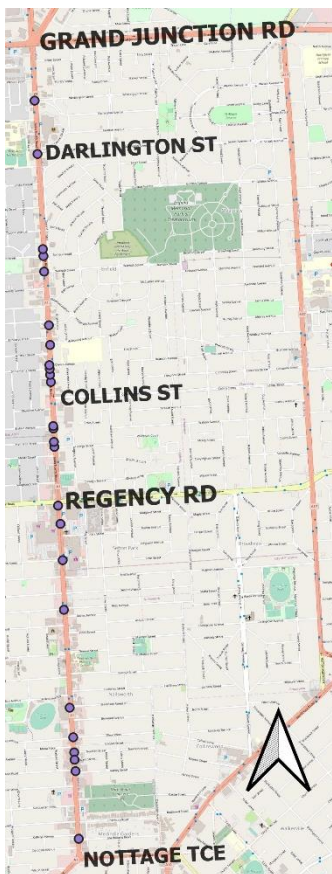


RAA Sinking Pit Cover Assessment



Road being assessed:

Main North Road from Nottage Terrace to Grand Junction Road

Direction and number of lanes tested: Northbound and southbound lanes were assessed. Note that where sections of Main North Road widened to three lanes, the centre lane was assessed instead of the kerbside lane and denoted as the left lane for the purposes of this assessment.

Date of assessment: 14-6-2023

Total sites assessed: 124

Total sites exceeding comfort benchmark: 26

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 31 sites we believe to be under the care of SA Water. 26 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 Main North Road.

Location Description	Latitude	Longitude	Direction/Lane	Comment
OPPOSITE STEVENSON ST	-34.88512859	138.6027288	NB LH	
GORDON RD INTERSECTION	-34.87966978	138.6023372	NB LH	
OPPOSITE GEORGE ST	-34.87058079	138.6016893	NB LH	
HENRIETTA ST INTERSECTION	-34.87030318	138.6016599	NB LH	
S OF ENFIELD AVE	-34.86955913	138.601625	NB LH	
ENFIELD AVE INTERSECTION	-34.86942196	138.6016102	NB LH	
#346 MAIN NORTH RD	-34.86696352	138.6014514	NB LH	
#354 MAIN NORTH RD	-34.86655787	138.6014009	NB LH	
ST CLEMENTS ST INTERSECTION	-34.86623183	138.6013716	NB LH	
N OF ST CLEMENTS ST	-34.86602256	138.6013532	NB LH	
OPPOSITE WARWICK ST	-34.86080563	138.6009967	NB LH	2 covers
BARTON ST INTERSECTION	-34.85993979	138.6009497	NB LH	
#426 MAIN NORTH RD	-34.85954915	138.6009084	NB LH	
S OF DARLINGTON ST	-34.85424213	138.6005427	NB LH	patch with road surface defects
S OF WHITTINGTON ST	-34.85126433	138.6003502	NB LH	
BUS STOP #17	-34.8748765	138.6021032	SB LH	
EDGEWORTH ST INTERSECTION	-34.87690229	138.6022533	SB LH	surrounding road surface defects
ELLEN ST INTERSECTION	-34.88678124	138.6029678	SB LH	
NEWBON ST INTERSECTION	-34.8876208	138.6030367	SB LH	surrounding road surface defects

Location Description	Latitude	Longitude	Direction/Lane	Comment
EDWARD ST INTERSECTION	-34.88803354	138.6030631	SB LH	sunken patch
HARVEY ST INTERSECTION	-34.88867	138.60313	SB LH	motorcycle hazards, 5 covers
REGENCY RD INTERSECTION	-34.87386	138.60194	NB RH	2 covers
S OF BRISTOL AVE	-34.86379627	138.6013167	SB RH	
S OF HAREWOOD AVE	-34.86489707	138.6014033	SB RH	
SHERBOURNE RD	-34.89243959	138.6033417	SB 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 this section of Main North Road and recommends these results be reviewed and verified by SA Water prior to scheduling works.