

RADIOACTIVITY ANALYSIS REPORT

RESULTS:

Water Samples

ARPANSA Sample i.d.	Client Sample i.d.	Reference Date	Radioactivity Concentration (becquerel/L)				
			Gross Alpha*	Gross Beta* (uncorrected)	Potassium-40 Beta	Radium-226 #	Radium-228 #
EA02-302-1197	Woronora River- Heathcote Rd.	15/10/02	<0.019	0.049 ± 0.012	0.0450 ± 0.0031	<0.01	<0.10
EA02-302-1202	Mills Creek	15/10/02	0.154 ± 0.060	0.186 ± 0.033	0.0355 ± 0.0028	0.06 ± 0.01	0.16 ± 0.05
EA02-302-1206	Woronora River- downstream causeway (saline)	16/10/02	<3.6	7.2 ± 1.6	6.63 ± 0.34	0.03 ± 0.01	<0.11
EA02-302-1210	Woronora River at Causeway	16/10/02	<0.021	0.055 ± 0.013	0.0415 ± 0.0030	<0.01	<0.12

- * The reported uncertainty is an expanded uncertainty calculated using a coverage factor of 2.
The limit of detection is dependent on the concentration of dissolved solids in the sample.
Alpha measurements are ²⁴¹Am equivalent and the beta measurements are ⁴⁰K equivalent.
- # The uncertainty takes into account the counting uncertainties only.

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ARPANSA Sample i.d.	Sample i.d.	Sample Date	Radioactivity Concentration (Bq/L)
			Tritium
EA02-302-1198	Woronora River- Heathcote Road	15/10/02	<20
EA02-302-1203	Mills Creek	15/10/02	<20
EA02-302-1207	Woronora River downstream causeway (saline)	16/10/02	<20
EA02-302-1211	Woronora River at causeway	16/10/02	<20