

Attachment 3

Revised version of Table 8-9 of the ERD


Warrambo surface water and groundwater quality

Analyte ¹	ANZECC 95% aquatic ecosystem protection level	Surface water quality Warrambo Creek site				Median surface water quality Sites WARUS1 – WARUS6		Median groundwater quality
		April 2015	April 2016	June 2016	September 2016	May 2016	April 2018	2008-2017
Number of samples		1	1	1	1	2	12	Refer to Table A9-2 in Appendix 9 of the ERD
Aluminium (at pH>6.5)	0.055	0.019	0.31	0.02	1.12	0.052	0.33	0.005
Antimony	*0.009	<0.001	<0.001	<0.0002	-	-	-	<0.001
Arsenic	0.013	<0.001	<0.001	<0.0002	<0.0005	0.0005	<0.001	<0.001
Boron	0.37	0.07	0.08	0.02	<0.1	0.18	<0.02	0.63
Cadmium	0.0002	<0.00005	<0.00005	<0.00005	<0.0002	0.00005	<0.0001	<0.0001
Chromium total	0.001	<0.001	<0.001	<0.0002	0.0011	0.00025	<0.0005	<0.0005
Cobalt	*0.014	<0.001	<0.001	<0.0001	<0.0002	0.0004	<0.0001	0.0005
Copper	0.0014	0.001	0.001	0.003	-	0.002	0.002	<0.001
EC lab (µS/cm)	900	88	78	-	-	260	84	2100
Iron	*0.3	0.029	0.26	0.022	0.92	0.064	0.25	0.01
Lead	0.0034	<0.001	<0.001	<0.0001	0.0002	0.00005	<0.001	<0.0005
Manganese	1.9	0.004	0.004	0.005	0.006	0.078	0.003	0.008
Mercury	0.00006	<0.00005	<0.0001	<0.00004	<0.00004	-	-	<0.0001
Molybdenum	0.034	<0.001	<0.001	<0.0001	<0.0001	0.0005	<0.001	<0.001
Nickel	0.011	<0.001	<0.001	<0.0005	0.0013	0.0015	<0.001	0.0021
N ammonia (NH ₃ -N)	0.9	0.007	-	0.05	<0.01	0.08	<0.01	<0.01
N nitrate (NO ₃ -N)	0.03	0.47	<0.01	0.03	<0.01	0.008	<0.01	1.16

Analyte ¹	ANZECC 95% aquatic ecosystem protection level	Surface water quality Warrambo Creek site				Median surface water quality Sites WARUS1 – WARDS6		Median groundwater quality
		April 2015	April 2016	June 2016	September 2016	May 2016	April 2018	2008-2017
N NOx nitrogen (NOx-N)	0.03	-	<0.01	0.03	<0.01	-	-	1.19
Nitrogen total	0.3	1.2	-	0.4	0.3	1.30	0.27	1.8
pH (pH units)	6 - 8	-	-	-	-	7.9	8.0	7.4
Phosphate (FRP, P-SR)	0.005	0.002	<0.01	<0.01	-	-	-	0.005
Phosphorus total	0.01	0.02	<0.01	0.07	0.01	0.0095	0.01	<0.01
Selenium	0.005	<0.002	<0.01	<0.0002	0.001	0.0005	<0.001	<0.002
Tin	*0.003	<0.001	<0.001	<0.0002	-	-	-	<0.001
Total Dissolved Solids (TDS)	-	63	58	51	47	145	46	1180
Vanadium	*0.006	<0.001	<0.01	-	0.0014	0.0007	0.001	0.0017
Zinc	0.008	0.014	<0.005	0.003	<0.005	0.005	<0.001	0.003

¹ units are mg/L unless otherwise stated

* ANZECC low reliability TV

 toxicants & stressors >95% TV