

Table F2 - Field and Laboratory Results for Surface water - January 2023 - Q2

Analytes		Units	PQL	ANZECC 2000 FW 95%	EPL Groundwater Trigger Levels Licence 6269	S4	S5	S6	S7	L8
						MP4 10/01/2022	MP5 10/01/2022	MP6 10/01/2022	MP7 10/01/2022	MP8 10/01/2022
Field	Dissolved Oxygen	mg/L			12.057	-	4.77	-	9.92	3.46
	EC (field)	µS/cm			1065	-	450	-	2310	4840
	pH (Field)	pH_Units			6.5 - 8.0	-	6.7	-	9.7	8.1
	Temp	°C				-	24.0	-	30.5	29.9
HM in water - dissolved	Iron (Filtered)	mg/L	0.01		1.84	-	0.57	-	<0.01	10
	Manganese (Filtered)	mg/L	0.005	1.9	1.9	-	0.07	-	<0.005	0.46
HM in water - total	Iron	mg/L	0.01		1.84	-	9.8	-	0.79	11
	Manganese	mg/L	0.005	1.9	1.9	-	0.35	-	0.048	0.46
Ion Balance	Alkalinity (Carbonate)	mg/L	5			-	<5	-	69	<5
	Alkalinity (Hydroxide) as CaCO ₃	mg/L	5			-	<5	-	<5	<5
	Alkalinity (total) as CaCO ₃	mg/L	5		12.283	-	49	-	130	1100
	Alkalinity (Bicarbonate as	mg/L	5			-	49	-	60	1100
	Calcium (Filtered)	mg/L	0.5		2.05	-	7.8	-	41	51
	Chloride	mg/L	1		54.49	-	73	-	640	960
	Ionic Balance	%				-	-16	-	-4	-22
	Magnesium (Filtered)	mg/L	0.5		10.05	-	5.2	-	22	29
	Potassium (Filtered)	mg/L	0.5		2.282	-	7.9	-	29	100
	Sodium (Filtered)	mg/L	0.5		34	-	40	-	360	550
Miscellaneous Inorganics	Sulphate	mg/L	1		3.1	-	35	-	66	23
	Ammonia as N	mg/L	0.005	0.9	0.9	-	3.8	-	0.027	160
	Fluoride	mg/L	0.1			-	<0.1	-	0.2	0.2
	Nitrate (as N)	mg/L	0.005	0.7	0.7	-	0.26	-	0.54	0.1
	TOC	mg/L	1		33.1	-	28	-	59	190
Total Phenolics	Phenolics Total	mg/L	0.05	0.32	0.32	-	<0.05	-	<0.05	<0.05

Notes

Only EPL Trigger Level Exceedances highlighted

No data collected at S4 and S6 as locations were dry