RESULTS OF WATER ANALYSIS

6 samples supplied by Ground Water Data Collection Service on 18th September, 2018. Lab Job No.H4143

Samples submitted by Mathew Baker. Your Job: LCC Water

2 Tildon Drive CLUNES NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
		LFPB1	LFPB2	LFPB3	LFPB4	LFPB5	LFPSW1
	Job No.	*H4143/1*	*H4143/2*	*H4143/3*	*H4143/4*	*H4143/5*	*H4143/6*
pH	APHA 4500-H^+-B	7.66	7.06	6.99	7.18	7.18	8.65
Conductivity (EC) (dS/m)	APHA 2510-B	1.30	2.49	2.37	3.62	2.16	0.50
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	883	1,695	1,610	2,460	1,466	340
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	572	1,082	41	376	285	147
Biochemical Oxygen Demand$_5$ (mg/L O_2)	APHA 5210-B	1.7	3.3	1.9	8.6	3.5	13.4
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	< 2	6	< 2	3	3	3
Total Phosphorus (mg/L P)	In house method W4	0.87	0.51	0.65	0.51	0.52	1.32
Phosphate (mg/L P)	APHA 4500 P-G	0.391	0.132	0.633	0.342	0.068	0.119
Total Nitrogen (mg/L N)	In house method W4	0.17	0.11	0.29	0.20	0.06	1.69
Total Kjeldahl Nitrogen (mg/L N)	** Calculation: TN – NOx	0.16	0.09	0.28	0.19	0.05	1.68
Nitrate (mg/L N)	APHA 4500 NO_3^--F	0.009	0.015	0.006	0.008	0.009	0.006
Nitrite (mg/L N)	APHA 4500 NO_2^--I	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ammonia (mg/L N)	APHA 4500 NH_3-H	0.100	0.092	0.269	0.138	0.048	0.064
Faecal Coliforms (cfu/100 ml)	** APHA 9222-D	< 10	< 10	20	< 10	< 10	190
Silver (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.013	0.003	< 0.005	0.004	< 0.005	0.018
Arsenic (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.001	0.001	< 0.001	0.004	< 0.001	< 0.001
Cadmium (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Copper (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.001	< 0.001	< 0.001	0.009	0.004	0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.022	0.015	0.005	0.009	0.006	0.593
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.005	1.648	0.212	0.311	1.098	0.012
Nickel (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.001	0.001	0.001	0.002	0.002	0.003
Lead (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001
Selenium (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Zinc (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	0.003	0.003	0.002	0.101	0.060	0.003
Mercury (mg/L)	Dissolved - APHA 3125 ICPMS* note 1&2	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005

Notes:

1. Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH < 2
   Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
2. Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
3. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
4. For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
5. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
6. Analysis conducted between sample arrival date and reporting date.
7. ** NATA accreditation does not cover the performance of this service.
8. .. Denotes not requested.
9. This report is not to be reproduced except in full.

checked: .....
Graham Lancaster
Laboratory Manager