

RESULTS OF WATER ANALYSIS

1 sample supplied by Greensill Bros on 27th May, 2020. Lab Job No. J4136

Samples submitted by Jarrod Greensill. Your Job: Mt Zion Water

22 Lillypool Road SOUTH GRAFTON NSW 2460

Parameter	Methods reference	Sample 1
	Job No.	J4136/1
pH	APHA 4500-H ⁺ -B	8.47
Conductivity (EC) (dS/m)	APHA 2510-B	0.500
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	340
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	2
Silver (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Aluminium (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	0.033
Arsenic (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Cadmium (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Chromium (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Copper (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	0.001
Iron (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	0.039
Manganese (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	0.003
Nickel (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Lead (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.001
Selenium (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.002
Zinc (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	0.005
Mercury (mg/L)	Total Available - APHA 3125 ICPMS ^{*note 1&2}	<0.0005
BTEX		
Benzene (µg/L or ppb)	Subcontracted: SGS report SE206921	1.4
Toluene (µg/L or ppb)	Subcontracted: SGS report SE206921	38
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE206921	7.5
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE206921	28
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE206921	10
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE206921	3
Total Recoverable Hydrocarbons (TRH)		
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<50
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<100
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<100
C10-C16 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<60
C10-C16 less Naphthalene Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<50
C16-C34 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<200
C34-C40 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<100
Sum C10-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE206921	<100

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.
10. All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal or on request).
11. Results relate only to the samples tested.
12. This report was issued on 11/06/2020.

