RESULTS OF WATER ANALYSIS

12 samples supplied by Ground Water Data Collection Service on 3/03/2020 . Lab Job No. J1370.

Samples submitted by Mathew Baker. Your Job: Blakebrook Quarry

2 Tildon Drive CLUNES NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
		BQSI-S	BQSI-I	BQSI-D	BQNI-B	BQNI-A
	Job No.	*J1370/1*	*J1370/2*	*J1370/3*	*J1370/4*	*J1370/5*
pH	APHA 4500-H^+-B	7.07	8.07	8.25	7.18	9.39
Conductivity (EC) (dS/m)	APHA 2510-B	0.428	1.536	1.804	1.108	1.957
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	291	1,044	1,227	753	1,331
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	18	51	137	2	96
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	155	180	135	210	50
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	3	< 2	2	< 2	7
Phosphate (mg/L P)	APHA 4500 P-G	0.075	0.010	0.013	0.538	0.016
Nitrate (mg/L N)	APHA 4500 NO_3^--F	0.041	< 0.005	0.059	< 0.005	0.092
Nitrite (mg/L N)	APHA 4500 NO_2^--I	< 0.005	< 0.005	0.009	0.009	0.064
Ammonia (mg/L N)	APHA 4500 NH_3-H	0.137	0.096	0.117	0.113	0.173
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	0.005	0.005	0.013	0.001	0.011
Iron (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	0.006	0.003	0.006	0.93	0.002
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	0.170	0.054	0.023	0.135	0.001
Lead (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Iron (mg/L)	Total Available - APHA 3125 ICPMS** note 1&2	0.614	0.218	0.454	1.86	0.519
Lead (mg/L)	Total Available - APHA 3125 ICPMS** note 1&2	< 0.001	< 0.001	0.004	< 0.001	< 0.001
Calcium (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	22.6	35.0	13.0	28.4	24.8
Magnesium (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	8.17	6.71	1.73	17.5	4.95
Potassium (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	3.73	6.13	4.09	4.30	8.35
Sodium (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	59.4	275	347	170	349
Chloride (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	19	336	426	215	541
Sulfur (mg/L)	Dissolved - APHA 3125 ICPMS** note 1&2	1.6	6.2	13.6	1.7	7.1
BTEX						
Benzene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 1	< 1	< 1	< 1	< 1
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE203569	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Total Recoverable Hydrocarbons (TRH)						
C6-C9 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569					
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 50	< 50	< 50	< 50	< 50
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 100	< 100	< 100	100	< 100
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 50	< 50	< 50	< 50	< 50
C10-C16 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 60	< 60	< 60	< 60	< 60
C16-C34 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 200	< 200	< 200	< 200	< 200
C34-C40 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 100	< 100	< 100	< 100	< 100
Sum C10-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE203569	< 100	< 100	< 100	100	< 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.
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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 17/03/2020.

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Graham Lancaster
Laboratory Manager

Sample 6	Sample 7	Sample 8	Sample 9
BQNI-D	**BQNZ-B**	**BQNZ-A**	**BQNZ-D**
J1370/6	*J1370/7*	*J1370/8*	*J1370/9*
8.90	11.34	8.00	8.88
1.452	1.021	1.078	0.980
987	694	733	666
98	57	6	17
130	95	195	345
7	5	3	< 2
0.033	0.024	0.213	0.081
0.031	0.380	0.066	0.091
0.007	0.012	< 0.005	0.005
0.140	0.111	0.288	0.162
0.01	0.027	0.009	0.009
0.01	0.011	0.041	0.004
0.008	0.000	0.035	0.003
< 0.001	< 0.001	< 0.001	< 0.001
3.88	0.130	0.109	0.084
< 0.001	< 0.001	< 0.001	< 0.001
9.10	21.0	31.1	3.43
0.59	0.38	8.90	0.58
3.00	7.52	9.92	2.32
287	165	175	222
319	209	153	102
24.1	10.7	33.4	5.6
< 0.5	< 0.5	< 0.5	< 0.5
< 0.5	< 0.5	< 0.5	< 0.5
< 0.5	< 0.5	< 0.5	< 0.5
< 1	< 1	< 1	< 1
< 0.5	< 0.5	< 0.5	< 0.5
< 0.5	< 0.5	< 0.5	< 0.5
< 50	< 50	< 50	< 50
< 100	< 100	< 100	< 100
< 50	< 50	< 50	< 50
< 60	< 60	< 60	< 60
< 200	< 200	< 200	< 200
< 100	< 100	< 100	< 100
< 100	< 100	< 100	< 100

checked: .....
Graham Lancaster
Laboratory Manager

RESULTS OF WATER ANALYSIS

9 samples supplied by Ground Water Data Collection Service on 3/06/2020 . Lab Job No. J4462.
Samples submitted by Mathew Baker. Your Job: Blakebrook Quarry
2 Tildon Drive CLUNES NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQS1-S	BQS1-I	BQS1-D	BQN1-B	BQN1-A	BQN1-D	BQN2-B	BQN2-A	BQN2-D
	Job No.	*J4462/1*	*J4462/2*	*J4462/3*	*J4462/4*	*J4462/5*	*J4462/6*	*J4462/7*	*J4462/8*	*J4462/9*
pH	APHA 4500-H^+-B	6.69	8.07	8.04	7.15	10.99	8.74	9.29	8.11	8.87
Conductivity (EC) (dS/m)	APHA 2510-B	0.415	1.421	1.687	1.048	1.790	1.379	1.021	0.883	0.942
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	282	966	1,147	713	1,217	938	694	600	641
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	118	226	63	4	104	55	48	7	1,635
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	183	188	128	200	131	125	114	195	340
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	4	2	<2	<2	2	3	3	4	<2
Phosphate (mg/L P)	APHA 4500 P-G	0.015	0.020	0.023	0.439	0.007	0.027	0.151	0.206	0.076
Nitrate (mg/L N)	APHA 4500 NO_3-F	0.033	0.024	0.183	<0.005	0.146	0.058	0.009	0.044	0.151
Nitrite (mg/L N)	APHA 4500 NO_2-I	<0.005	<0.005	0.007	<0.005	0.197	<0.005	0.012	<0.005	0.019
Ammonia (mg/L N)	APHA 4500 NH_3-H	0.016	0.164	0.148	0.092	0.118	0.115	0.190	0.288	0.269
Sodium (mg/L)	APHA 3125 ICPMS*note 1&2	55	262	344	172	331	274	182	144	227
Potassium (mg/L)	APHA 3125 ICPMS*note 1&2	3	5	4	4	11	3	7	10	2
Calcium (mg/L)	APHA 3125 ICPMS*note 1&2	25	31	14	29	27	9	19	27	3
Magnesium (mg/L)	APHA 3125 ICPMS*note 1&2	10	6	2	18	2	1	3	9	1
Sodium Absorption Ratio (SAR)	** By calculation	2.4	11.2	23.0	6.1	16.4	23.5	10.1	6.1	31.7
Chloride (mg/L)	APHA 3125 ICPMS*note 1&2	21	304	402	185	450	285	218	126	103
Sulfate (mg/L SO_4^{2-})	APHA 3125 ICPMS*note 1&2	3	16	40	4	17	70	24	40	15
Chloride/Sulfate Ratio	** Calculation	7.0	19.0	10.1	45.6	25.8	4.1	9.0	3.2	6.7
Iron (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	2.229	1.249	0.406	1.772	1.093	4.030	0.534	0.093	12.964
Lead (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.002	0.002	0.002	<0.001	0.001	<0.001	0.001	<0.001	0.010
Aluminium (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.007	0.004	0.006	0.000	0.018	0.003	0.013	0.009	0.046
Iron (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.007	<0.005	<0.005	0.636	<0.005	<0.005	<0.005	0.028	0.021
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.232	0.061	0.016	0.140	<0.001	0.005	0.005	0.028	0.002
Lead (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE 207192	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<50	<50	<50	<50	<50	<50	52	<50	<50
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<50	<50	<50	<50	<50	<50	160	<50	<50
C10-C16 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<60	<60	<60	<60	<60	<60	62	<60	<60
C16-C34 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<200	<200	<200	<200	<200	<200	<200	<200	<200
C34-C40 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum C10-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 207192	<100	<100	<100	<100	<100	<100	210	<100	<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.
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11. Results relate only to the samples tested.
12. This report was issued on 19/06/2020.

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Graham Lancaster
Laboratory Manager

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 3rd September, 2020. Lab Job No.J7919
Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ-Groundwater-SEPT20
43 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1 BQN1-B	Sample 2 BQN1-A	Sample 3 BQN1-D	Sample 4 BQN2-B	Sample 5 BQN2-A	Sample 6 BQN2-D	Sample 7 BQS1-S	Sample 8 BQS1-I	Sample 9 BQS1-D
Job No.		*J7919/1*	*J7919/2*	*J7919/3*	*J7919/4*	*J7919/5*	*J7919/6*	*J7919/7*	*J7919/8*	*J7919/9*
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	226	66	126	109	190	346	141	188	125
Water Hardness (mg/L $CaCO_3$ equivalent)	** Using Ca and Mg calculation	142	143	36	77	104	14	79	106	41
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	1	<2	2	3	2	6	6	4	4
Sodium (mg/L)	APHA 3125 ICPMS*note 1&2	169	333	281	183	120	225	47	269	348
Potassium (mg/L)	APHA 3125 ICPMS*note 1&2	3.9	7.3	2.8	7.5	7.8	2.3	3.1	5.8	3.9
Calcium (mg/L)	APHA 3125 ICPMS*note 1&2	28.0	45.8	11.2	25.0	25.7	4.3	19.9	32.6	13.3
Magnesium (mg/L)	APHA 3125 ICPMS*note 1&2	17.6	6.9	1.9	3.6	9.6	0.8	7.1	5.9	1.8
Sodium Absorption Ratio (SAR)	** By calculation	6.2	12.1	20.3	9.0	5.1	26.2	2.3	11.4	23.8
Chloride (mg/L)	APHA 3125 ICPMS*note 1&2	215	516	319	231	110	89	19	325	441
Sulfate (mg/L SO_4^{2-})	APHA 3125 ICPMS*note 1&2	8	21	89	26	24	16	6	15	40
Chloride/Sulfate Ratio	** Calculation	27.2	25.0	3.6	9.0	4.5	5.4	3.3	21.8	11.1
Iron (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	1.380	0.243	2.815	0.341	0.136	1.247	0.269	0.165	0.305
Lead (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001
Iron (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.056	<0.005	<0.005	0.016	0.057	0.042	<0.005	0.006	<0.005
Lead (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BTEX										
Benzene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<0.5	<0.5	0.8	3.5	1.5	1.4	0.5	0.6	0.7
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE 210912	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)										
C6-C9 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<40	<40	<40	<40	<40	<40	<40	<40	<40
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<100	<100	<100	<100	120	180	<100	<100	<100
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<50	<50	<50	<50	<50	54	<50	<50	<50
C10-C16 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<60	<60	<60	<60	<60	<60	<60	<60	<60
C16-C34 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<200	<200	<200	<200	<200	230	<200	<200	<200
C34-C40 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum C10-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE 210912	<100	<100	<100	<100	120	230	<100	<100	<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.
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11. Results relate only to the samples tested.
12. This report was issued on 18/09/2020.

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checked: .....
Graham Lancaster
Laboratory Manager

RESULTS OF WATER ANALYSIS

9 samples supplied by Ecoteam on 7/12/2020 . Lab Job No. K1379.
Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ-Groundwater-Dec20
13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9
		BQN1- B 03/12/2020	BQN1- A 03/12/2020	BQN1- D 03/12/2020	BQN2- B 02/12/2020	BQN2- A 02/12/2020	BQN2- D 02/12/2020	BQS1- S 03/12/2020	BQS1- I 03/12/2020	BQS1- D 03/12/2020
	Job No.	*K1379/1*	*K1379/2*	*K1379/3*	*K1379/4*	*K1379/5*	*K1379/6*	*K1379/7*	*K1379/8*	*K1379/9*
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	140	99	160	140	170	330	150	180	120
Water Hardness (mg/L $CaCO_3$ equivalent)	** Using Ca and Mg calculation	142	..	64	72	113	11	80	100	42
Total Oils and Grease (mg/L)	APHA 5520-D (hexane extractable)	4	4	8	3	2	4	4	4	4
Sodium (mg/L)	APHA 3125 ICPMS*note 1&2	167	310	280	187	133	207	46.2	263	339
Potassium (mg/L)	APHA 3125 ICPMS*note 1&2	3.83	10.0	2.98	6.56	8.87	2.04	2.78	5.31	3.90
Calcium (mg/L)	APHA 3125 ICPMS*note 1&2	28.9	20.0	14.3	21.0	30.9	3.51	20.2	31.0	14.0
Magnesium (mg/L)	APHA 3125 ICPMS*note 1&2	17.0	5.2	6.78	4.82	8.66	0.47	7.13	5.63	1.72
Sodium Absorption Ratio (SAR)	** By calculation	6.1	16.0	15.3	9.6	5.5	27.5	2.2	11.4	22.7
Chloride (mg/L)	APHA 3125 ICPMS*note 1&2	201	470	299	237	137	88	23	322	450
Sulfate (mg/L SO_4^{2-})	APHA 3125 ICPMS*note 1&2	7	40	90	23	30	16	4	12	36
Chloride/Sulfate Ratio	** Calculation	30.2	11.8	3.3	10.2	4.6	5.6	5.3	26.4	12.4
Iron (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	1.64	4.20	13.4	0.072	0.018	0.180	0.161	0.062	0.118
Manganese (mg/L)	Total Available - APHA 3125 ICPMS*note 1&2	0.131	..	0.212	0.011	0.010	0.005	0.118	0.038	0.015
Iron (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.03	..	3.6	0.054	0.005	0.060	0.052	0.019	0.012
Manganese (mg/L)	Dissolved - APHA 3125 ICPMS*note 1&2	0.000	..	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BTEX										
Benzene (µg/L or ppb)	Subcontracted: SGS report SE214633	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene (µg/L or ppb)	Subcontracted: SGS report SE214633	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene (µg/L or ppb)	Subcontracted: SGS report SE214633	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene (µg/L or ppb)	Subcontracted: SGS report SE214633	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene (µg/L or ppb)	Subcontracted: SGS report SE214633	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (µg/L or ppb)	Subcontracted: SGS report SE214633	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Recoverable Hydrocarbons (TRH)			..							
C6-C9 Fraction (µg/L or ppb)	Subcontracted: SGS report SE214633	<40	<40	<40	<40	<40	<40	<40	<40	<40
C10-C14 Fraction (µg/L or ppb)	Subcontracted: SGS report SE214633	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction (µg/L or ppb)	Subcontracted: SGS report SE214633	<100	230	260	170	<100	<100	130	<100	<100
C29-C36 Fraction (µg/L or ppb)	Subcontracted: SGS report SE214633	<50	150	190	<50	<50	<50	93	<50	<50
TRH Sum C10-C36 (µg/L or ppb)	Subcontracted: SGS report SE214633	<100	380	450	170	<100	<100	220	<100	<100
>C10-C16 (µg/L or ppb)	Subcontracted: SGS report SE214633	<60	<60	<60	<60	<60	<60	<60	<60	<60
>C16-C34 (F3) (µg/L or ppb)	Subcontracted: SGS report SE214633	<200	350	430	<200	<200	<200	200	<200	<200
>C34-C40 (F4) (µg/L or ppb)	Subcontracted: SGS report SE214633	<100	<100	<100	<100	<100	<100	<100	<100	<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 18/12/2020.

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checked: .....
Graham Lancaster
Laboratory Manager