

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 2/03/2023. Lab Job No. N8175.

Samples submitted by Lise Bolton. Your Job: SMC-Blakebrook WQ- Surface Water- March 2023

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	<i>Job No.</i>	<i>N8175/1</i>	<i>N8175/2</i>	<i>N8175/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	73	24	18
Phosphate (mg/L P)	APHA 4500 P-G	0.019	0.037	0.036
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	0.106	0.101
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.090	0.104	0.071

Notes:

- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
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- Results relate only to the samples tested.
- This report was re-issued on 04/05/2023 and replaces the report issued on 9/03/2023. Job reference amended to March 2023 at client request.



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ACCREDITATION
Accreditation No. 14960
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with ISO/IEC 17025 - Testing

checked:
Graham Lancaster
Laboratory Manager

BLAKEBROOK QUARRY- SURFACE WATER QUALITY ASSESSMENT

Sampling Observations- March 2023.

Blakebrook Surface Water Sample Information				
Site name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	02/03/23	02/03/23	02/03/23	02/03/23
Time	13:46	13:47	14:16	14:00
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low- moderately turbid.	Moderate flow, moderately turbid.	Moderate flow, moderately turbid.	Not flowing
Analyte	Water Quality Observations			
pH	7.95	6.74	6.88	
EC μS/cm	534.78	118.91	113.29	
DO (%)	77.13	87.23	82.34	
Temperature ($^{\circ}$C)	28.53	30.24	30.20	
ORP	90.93	158.65	180.44	
Turbidity	17.22	37.30	27.86	

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 7/06/2023. Lab Job No. P1615.

Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ- Surface Water -June 23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW 1	SW 2	SW 3
	<i>Job No.</i>	<i>P1615/1</i>	<i>P1615/2</i>	<i>P1615/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	4	17	13
Phosphate (mg/L P)	APHA 4500 P-G	0.008	0.022	0.022
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	0.100	0.102
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.018	0.024	0.021

Notes:

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- Analysis conducted between sample arrival date and reporting date.
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- Results relate only to the samples tested.
- This report was issued on 20/06/2023.



BLAKEBROOK QUARRY- SURFACE WATER QUALITY ASSESSMENT

Sampling Observations- June 2023.

Blakebrook Surface Water Sample Information				
Site name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	06/06/23	06/06/23	06/06/23	06/06/23
Time	14:25	14:52	15:30	15:15
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low-moderate flow, moderate turbidity .	Low-moderate flow, moderate turbidity .	Not flowing
Analyte	Water Quality Observations			
pH	7.34	8.32	8.04	
EC μS/cm	574.57	122.06	127.39	
DO (%)	77.32	95.28	93.13	
Temperature ($^{\circ}$C)	17.81	17.07	17.01	
ORP	17.74	65.09	127.52	
Turbidity	5.89	19.4	19.1	

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 4/09/2023. Lab Job No. P4894.

Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ-Surface Water_SEPT23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	<i>Job No.</i>	<i>P4894/1</i>	<i>P4894/2</i>	<i>P4894/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	6	17	19
Phosphate (mg/L P)	APHA 4500 P-G	0.006	0.017	0.017
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	<0.005	0.008	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	<0.005	<0.005	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.011	<0.005	0.008

Notes:

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- Analysis conducted between sample arrival date and reporting date.
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- This report was issued on 7/09/2023.



BLAKEBROOK QUARRY- SURFACE WATER QUALITY ASSESSMENT

Sampling Observations- September 2023.

Blakebrook Surface Water Sample Information				
Site name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	04/09/23	04/09/23	04/09/23	04/09/23
Time	13:05	13:30	13:45	13:40
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low flow, moderate turbidity.	Low flow, moderate turbidity.	Not flowing
Analyte	Water Quality Observations			
pH	7.56	8.32	8.26	
EC μS/cm	803.89	186.55	197.09	
DO (%)	72.96	94.67	98.81	
Temperature (°C)	19.47	19.01	19.60	
ORP	-1.60	49.81	97.27	
Turbidity	7.24	20.6	19.0	

RESULTS OF WATER ANALYSIS

3 samples supplied by Ecoteam on 4/12/2023. Lab Job No. P8330.

Samples submitted by Lise Bolton. Your Job: SMC010-Blakebrook WQ- Surface Water - DEC 23

13 Ewing Street LISMORE NSW 2480

Parameter	Methods reference	Sample 1	Sample 2	Sample 3
		SW1	SW2	SW3
	<i>Job No.</i>	<i>P8330/1</i>	<i>P8330/2</i>	<i>P8330/3</i>
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	14	19	19
Phosphate (mg/L P)	APHA 4500 P-G	0.019	0.053	0.052
Nitrate (mg/L N)	APHA 4500 NO ₃ ⁻ -F	0.025	0.024	<0.005
Nitrite (mg/L N)	APHA 4500 NO ₂ ⁻ -I	0.006	0.007	<0.005
Ammonia (mg/L N)	APHA 4500 NH ₃ -H	0.046	0.017	0.019

Notes:

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- Results relate only to the samples tested.
- This report was issued on 12/12/2023.



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checked:
Graham Lancaster
Laboratory Manager

BLAKEBROOK QUARRY- SURFACE WATER QUALITY ASSESSMENT

Sampling Observations- December 2023.

Blakebrook Surface Water Sample Information				
Site Name	SW1	SW2	SW3	SW5
Site Type	Downstream	Upstream	Downstream	Downstream
Date	04/12/23	04/12/23	04/12/23	04/12/23
Time	14:22	14:39	14:47	14:40
Sample Method	Grab Sample 300mm deep	Grab Sample 300mm deep	Grab Sample 300mm deep	Not sampled
Oil and Grease	Not Present	Not Present	Not Present	Not Present
Odour	Not Present	Not Present	Not Present	Not Present
Site/Water Observations	Low flow, low turbidity.	Low flow, moderate turbidity.	Low flow, moderate turbidity.	Not flowing
Analyte	Water Quality Observations			
pH	7.27	7.97	8.46	
EC μS/cm	584.00	175.74	193.92	
DO (%)	23.18	113.29	134.54	
Temperature ($^{\circ}$C)	25.12	29.83	30.57	
ORP	7.14	84.42	196.56	
Turbidity	10.21	29.1	30.3	