

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGEN SHIRE COUNCIL
CRAIG SALMON
P.O. BOX 117
BELLINGEN NSW 2454

BATCH NUMBER: 20/0179
No. of SAMPLES: 3
DATE COLLECTED: 20/01/20
DATE RECEIVED: 20/01/20
TIME RECEIVED: 14:00
DATE TESTING COMMENCED:
20/01/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/0179/1	1 - UPSTREAM OF LANDFILL
20/0179/2	2 - SEDIMENT POND
20/0179/3	3 - WETLAND

ANALYSIS	UNITS	20/0179/1	20/0179/2	20/0179/3	METHOD NO
pH	pH unit	5.7	7.1	5.8	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	4	5	3	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	9	41	10	APHA 2320 B
Total Suspended Solids	mg/L	42	71	8	APHA 2540 D
Ammonia Nitrogen	mg/L	<0.02	0.04	<0.02	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.04	<0.02	EL15F
Total Kjeldahl Nitrogen	mg/L	1.20	1.09	1.29	EL16F
Total Nitrogen	mg/L	1.20	1.13	1.29	EL30F
Calcium	mg/L	7.5	14	6.0	EL9A
Potassium	mg/L	3.3	12	3.1	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

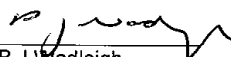
Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 29/01/20

Approved:


B J Wadleigh
Laboratory Manager



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGEN SHIRE COUNCIL
SAMTATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/1684
No. of SAMPLES: 3
DATE COLLECTED: 27/07/20
DATE RECEIVED: 27/07/20
TIME RECEIVED: 10:30
DATE TESTING COMMENCED:
27/07/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/1684/1	1 - UPSTREAM OF LANDFILL
20/1684/2	2 - WETLAND
20/1684/3	3 - SEDIMENT POND

ANALYSIS	UNITS	20/1684/1	20/1684/2	20/1684/3	METHOD NO
pH	pH unit	6.4	6.7	7.4	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	3	2	3	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	12	9	71	APHA 2320 B
Total Suspended Solids	mg/L	32	20	46	APHA 2540 D
Ammonia Nitrogen	mg/L	0.03	0.02	0.02	EL13F
Nitrate Nitrogen	mg/L	0.11	0.11	0.15	EL15F
Total Kjeldahl Nitrogen	mg/L	0.79	0.36	1.04	EL16F
Total Nitrogen	mg/L	0.90	0.47	1.19	EL30F
Calcium	mg/L	3.3	2.6	23	EL9A
Potassium	mg/L	1.8	0.69	10	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

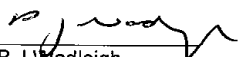
Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 3/08/20

Approved:


B J Wadleigh
Laboratory Manager



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGEN SHIRE COUNCIL
SAMTATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/1684
No. of SAMPLES: 3
DATE COLLECTED: 27/07/20
DATE RECEIVED: 27/07/20
TIME RECEIVED: 10:30
DATE TESTING COMMENCED:
27/07/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/1684/1	1 - UPSTREAM OF LANDFILL
20/1684/2	2 - WETLAND
20/1684/3	3 - SEDIMENT POND

ANALYSIS	UNITS	20/1684/1	20/1684/2	20/1684/3	METHOD NO
pH	pH unit	6.4	6.7	7.4	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	3	2	3	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	12	9	71	APHA 2320 B
Total Suspended Solids	mg/L	32	20	46	APHA 2540 D
Ammonia Nitrogen	mg/L	0.03	0.02	0.02	EL13F
Nitrate Nitrogen	mg/L	0.11	0.11	0.15	EL15F
Total Kjeldahl Nitrogen	mg/L	0.79	0.36	1.04	EL16F
Total Nitrogen	mg/L	0.90	0.47	1.19	EL30F
Calcium	mg/L	3.3	2.6	23	EL9A
Potassium	mg/L	1.8	0.69	10	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

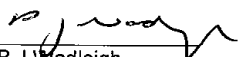
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Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 3/08/20

Approved:


B J Wadleigh
Laboratory Manager



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2498
No. of SAMPLES: 2
DATE COLLECTED: 26-28/10/20
DATE RECEIVED: 28/10/20
TIME RECEIVED: 10:30
DATE TESTING COMMENCED:
28/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2498/1	S1 OUTLET SEDIMENT POND
20/2498/2	S2 OUTLET SEDIMENT POND

ANALYSIS	UNITS	20/2498/1	20/2498/2			METHOD NO
pH	pH unit	9.2	7.7			APHA 4500-H+ B
Total Suspended Solids	mg/L	12	5			APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 2/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart - Delegate for

B J Wadleigh
Laboratory Manager

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2515
No. of SAMPLES: 3
DATE COLLECTED: 29/10/20
DATE RECEIVED: 29/10/20
TIME RECEIVED: 12:55
DATE TESTING COMMENCED:
29/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2515/1	1 - UPSTREAM OF LANDFILL
20/2515/2	2 - WETLAND
20/2515/3	3 - SEDIMENT POND

ANALYSIS	UNITS	20/2515/1	20/2515/2	20/2515/3	METHOD NO
pH	pH unit	5.9	6.1	6.6	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	4	3	6	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	11	11	27	APHA 2320 B
Total Suspended Solids	mg/L	276	17	218	APHA 2540 D
Ammonia Nitrogen	mg/L	<0.02	0.02	0.07	EL13F
Nitrate Nitrogen	mg/L	0.05	0.04	0.15	EL15F
Total Kjeldahl Nitrogen	mg/L	1.46	0.72	1.27	EL16F
Total Nitrogen	mg/L	1.51	0.76	1.42	EL30F
Calcium	mg/L	5.5	3.9	11	EL9A
Potassium	mg/L	2.6	3.6	9.6	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 9/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart - Delegate for

B J Wadleigh
Laboratory Manager

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2515
No. of SAMPLES: 3
DATE COLLECTED: 29/10/20
DATE RECEIVED: 29/10/20
TIME RECEIVED: 12:55
DATE TESTING COMMENCED:
29/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2515/1	1 - UPSTREAM OF LANDFILL
20/2515/2	2 - WETLAND
20/2515/3	3 - SEDIMENT POND

ANALYSIS	UNITS	20/2515/1	20/2515/2	20/2515/3	METHOD NO
pH	pH unit	5.9	6.1	6.6	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	4	3	6	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	11	11	27	APHA 2320 B
Total Suspended Solids	mg/L	276	17	218	APHA 2540 D
Ammonia Nitrogen	mg/L	<0.02	0.02	0.07	EL13F
Nitrate Nitrogen	mg/L	0.05	0.04	0.15	EL15F
Total Kjeldahl Nitrogen	mg/L	1.46	0.72	1.27	EL16F
Total Nitrogen	mg/L	1.51	0.76	1.42	EL30F
Calcium	mg/L	5.5	3.9	11	EL9A
Potassium	mg/L	2.6	3.6	9.6	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 9/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart - Delegate for

B J Wadleigh
Laboratory Manager

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2521
No. of SAMPLES: 1
DATE COLLECTED: 30/10/20
DATE RECEIVED: 30/10/20
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
30/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2521/1	LEACHATE

ANALYSIS	UNITS	20/2521/1			METHOD NO
pH	pH unit	6.8			APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	8			APHA 5210 B
Alkalinity	mg CaCO ₃ /L	314			APHA 2320 B
Total Suspended Solids	mg/L	20			APHA 2540 D
Ammonia Nitrogen	mg/L	11.9			EL13F
Nitrate Nitrogen	mg/L	0.06			EL15F
Total Kjeldahl Nitrogen	mg/L	13.5			EL16F
Total Nitrogen	mg/L	13.6			EL30F
Calcium	mg/L	83			EL9A
Potassium	mg/L	20			EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 9/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart - Delegate for

B J Wadleigh
Laboratory Manager

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRE COUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2522
No. of SAMPLES: 1
DATE COLLECTED: 30/10/20
DATE RECEIVED: 30/10/20
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
30/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2522/1	SEDIMENT POND

ANALYSIS	UNITS	20/2522/1				METHOD NO
pH	pH unit	6.8				APHA 4500-H+ B
Total Suspended Solids	mg/L	94				APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 6/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

Approved:


Geraldine Giles - Delegate for

B J Wadleigh
Laboratory Manager

COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRE COUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2522
No. of SAMPLES: 1
DATE COLLECTED: 30/10/20
DATE RECEIVED: 30/10/20
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
30/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2522/1	SEDIMENT POND

ANALYSIS	UNITS	20/2522/1				METHOD NO
pH	pH unit	6.8				APHA 4500-H+ B
Total Suspended Solids	mg/L	94				APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

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Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 6/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

Approved:


Geraldine Giles - Delegate for

B J Wadleigh
Laboratory Manager

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2525
No. of SAMPLES: 3
DATE COLLECTED: 30/10/20
DATE RECEIVED: 30/10/20
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
30/10/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2525/1	SAMPLE # 1
20/2525/2	SAMPLE # 2
20/2525/3	SAMPLE # 3

ANALYSIS	UNITS	20/2525/1	20/2525/2	20/2525/3	METHOD NO
POLY AROMATIC HYDROCARBONS*					
Naphthalene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Acenaphthylene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Acenaphthene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Fluorene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Phenanthrene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Anthracene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Fluoranthene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Pyrene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Benz(a)anthracene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Chrysene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Benzo(b)&(k)fluoranthene	ug/L	<1	<1	<1	NGCMS_1122
Benzo(a)pyrene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Indeno(1,2,3-cd) pyrene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Dibenz(a,h)anthracene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
Benzo(g,h,i)perylene	ug/L	<0.5	<0.5	<0.5	NGCMS_1122
TOTAL RECOVERABLE HYDROCARBONS					
TRHC6-C9*	ug/L	<25	<25	300	NGCMS_1121
TRHC10-C14*	ug/L	<25	<25	730	NGCMS_1112



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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ANALYSIS	UNITS	20/2525/1	20/2525/2	20/2525/3		METHODNO
TRHC15-C28*	ug/L	<100	250	<100		NGCMS_1112
TRHC29-C36*	ug/L	<100	<100	<100		NGCMS_1112
TRHC10-C36(sum)	ug/L	<100	250	1,030		NGCMS_1112
TOTAL RECOVERABLE HYDROCARBON*						
TRHC6- C10	ug/L	<25	<25	330		NGCMS_1121
TRHC6- C10less BTEX(F1)	ug/L	<25	<25	190		NGCMS_1121
TRH>C10-C16	ug/L	<25	<25	790		NGCMS_1112
TRH>C10 - C16less Naph (F2)	ug/L	<25	<25	790		NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	210	<100		NGCMS_1112
TRH>C34-C40(F4)	ug/L	<100	<100	<100		NGCMS_1112
BTEX*						
Benzene	ug/L	<1	<1	<1		NGCMS_1121
Toluene	ug/L	<1	<1	26		NGCMS_1121
Ethyl Benzene	ug/L	<1	<1	13		NGCMS_1121
m,p-Xylene	ug/L	<2	<2	45		NGCMS_1121
o-Xylene	ug/L	<1	<1	52		NGCMS_1121

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN1294045.

Report Date: 16/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2526
No. of SAMPLES: 1
DATE COLLECTED: 31/10/20
DATE RECEIVED: 02/11/20
TIME RECEIVED: 10:20
DATE TESTING COMMENCED:
02/11/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2526/1	SEDIMENT POND

ANALYSIS	UNITS	20/2526/1				METHOD NO
pH	pH unit	6.9				APHA 4500-H+ B
Total Suspended Solids	mg/L	62				APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 6/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

Approved:

G. Giles
Geraldine Giles - Delegate for

B J Wadleigh
Laboratory Manager

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2526
No. of SAMPLES: 1
DATE COLLECTED: 31/10/20
DATE RECEIVED: 02/11/20
TIME RECEIVED: 10:20
DATE TESTING COMMENCED:
02/11/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2526/1	SEDIMENT POND

ANALYSIS	UNITS	20/2526/1				METHOD NO
pH	pH unit	6.9				APHA 4500-H+ B
Total Suspended Solids	mg/L	62				APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.


Report Date: 6/11/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

Approved:

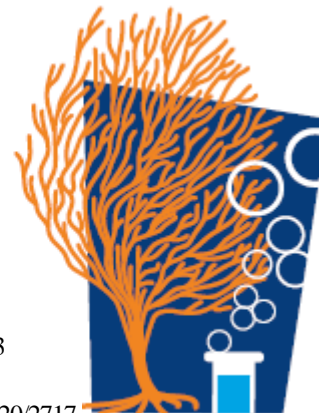

Geraldine Giles - Delegate for

B J Wadleigh
Laboratory Manager

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 3



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2717
No. of SAMPLES: 1
DATE COLLECTED: 23/11/20
DATE RECEIVED: 23/11/20
TIME RECEIVED: 15:50
DATE TESTING COMMENCED:
23/11/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2717/1	BSC RALEIGH LEACHATE 2

ANALYSIS	UNITS	20/2717/1			METHOD NO
pH	pH unit	6.9			APHA 4500-H+ B
Total Suspended Solids	mg/L	41			APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	10			APHA 5210 B
Alkalinity	mg CaCO ₃ /L	978			APHA 2320 B
Ammonia Nitrogen	mg/L	50.7			EL13F
Nitrate Nitrogen	mg/L	0.23			EL15F
Total Kjeldahl Nitrogen	mg/L	51.4			EL16F
Total Nitrogen	mg/L	51.6			EL30F
Calcium	mg/L	202			EL9A
Potassium	mg/L	41			EL9A
Arsenic*	ug/L	1.7			EL9A

ANALYSIS	UNITS	20/2717/1			METHOD NO
ORGANOCHLORINE PESTICIDES *					
Hexachlorobenzene (HCB)	ug/L	<0.01			NR_19
Heptachlor	ug/L	<0.01			NR_19
Heptachlor Epoxide	ug/L	<0.01			NR_19
Aldrin	ug/L	<0.01			NR_19
gamma BHC (Lindane)	ug/L	<0.01			NR_19
alpha BHC	ug/L	<0.01			NR_19



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	20/2717/1			METHODNO
beta BHC	ug/L	<0.01			NR_19
delta BHC	ug/L	<0.01			NR_19
trans Chlordane	ug/L	<0.01			NR_19
cis Chlordane	ug/L	<0.01			NR_19
Oxychlordane	ug/L	<0.01			NR_19
Dieldrin	ug/L	<0.01			NR_19
DDE pp	ug/L	<0.01			NR_19
DDD pp	ug/L	<0.01			NR_19
DDT pp	ug/L	<0.01			NR_19
Endrin	ug/L	<0.01			NR_19
Endrin Aldehyde	ug/L	<0.01			NR_19
Endrin Ketone	ug/L	<0.01			NR_19
alpha Endosulfan	ug/L	<0.01			NR_19
beta Endosulfan	ug/L	<0.01			NR_19
Endosulfan sulphate	ug/L	<0.01			NR_19
Methoxychlor	ug/L	<0.01			NR_19
ORGANOPHOSPHATE PESTICIDES*					
Dichlorvos	ug/L	<0.1			NR_19
Demeton-S-methyl	ug/L	<0.1			NR_19
Diazinon	ug/L	<0.1			NR_19
Dimethoate	ug/L	<0.1			NR_19
Chlorpyrifos	ug/L	<0.1			NR_19
Chlorpyrifos-methyl	ug/L	<0.1			NR_19
Malathion	ug/L	<0.1			NR_19
Ethion	ug/L	<0.1			NR_19
Fenthion	ug/L	<0.1			NR_19
Fenitrothion	ug/L	<0.1			NR_19
Chlorfenvinphos (E)	ug/L	<0.1			NR_19
Chlorfenvinphos (Z)	ug/L	<0.1			NR_19
Parathion (Ethyl)	ug/L	<0.1			NR_19
Parathion Methyl	ug/L	<0.1			NR_19
Pirimiphos Methyl	ug/L	<0.1			NR_19
Pirimiphos Ethyl	ug/L	<0.1			NR_19
Azinphos Methyl	ug/L	<0.1			NR_19
Azinphos ethyl	ug/L	<0.1			NR_19
PHENOLS*					
Phenol	ug/L	<1			NGCMS_1111
2-Chlorophenol	ug/L	<1			NGCMS_1111
2-Methylphenol	ug/L	<1			NGCMS_1111
3 & 4-Methylphenols	ug/L	<2			NGCMS_1111
2,4-Dimethylphenol	ug/L	<1			NGCMS_1111
2-Nitrophenol	ug/L	<1			NGCMS_1111
4-Nitrophenol	ug/L	<1			NGCMS_1111
2,4-Dichlorophenol	ug/L	<1			NGCMS_1111
2,6-Dichlorophenol	ug/L	<1			NGCMS_1111



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 [Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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ANALYSIS	UNITS	20/2717/1				METHODNO
4-Chloro-3-methylphenol	ug/L	<2				NGCMS_1111
2,4,6-Trichlorophenol	ug/L	<2				NGCMS_1111
2,4,5-Trichlorophenol	ug/L	<2				NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	<2				NGCMS_1111
Pentachlorophenol	ug/L	<2				NGCMS_1111

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN1296391.

Report Date: 7/12/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2924
No. of SAMPLES: 4
DATE COLLECTED: 12-16/12/20
DATE RECEIVED: 16/12/20
TIME RECEIVED: 10:40
DATE TESTING COMMENCED:
16/12/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2924/1	RALEIGH SEDIMENT POND SAMPLE 1
20/2924/2	RALEIGH SEDIMENT POND SAMPLE 2
20/2924/3	RALEIGH SEDIMENT POND SAMPLE 3
20/2924/4	RALEIGH SEDIMENT POND SAMPLE 4

ANALYSIS	UNITS	20/2924/1	20/2924/2	20/2924/3	20/2924/4	METHOD NO
Total Suspended Solids	mg/L	74	48	18	37	APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 21/12/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2952
No. of SAMPLES: 4
DATE COLLECTED: 18/12/20
DATE RECEIVED: 18/12/20
TIME RECEIVED: 14:30
DATE TESTING COMMENCED:
18/12/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2952/1	1 - UPSTREAM OF LANDFILL
20/2952/2	2 - WETLAND
20/2952/3	3 - SEDIMENT POND
20/2952/4	SAMPLE 5 SEDIMENT POND

ANALYSIS	UNITS	20/2952/1	20/2952/2	20/2952/3	20/2952/4	METHOD NO
pH	pH unit	6.1	6.4	7.1	-	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	7	-	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	15	23	119	-	APHA 2320 B
Total Suspended Solids	mg/L	125	6	38	25	APHA 2540 D
Ammonia Nitrogen	mg/L	0.03	0.18	3.03	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	<0.02	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.99	1.04	4.24	-	EL16F
Total Nitrogen	mg/L	0.99	1.04	4.24	-	EL30F
Calcium	mg/L	4.3	6.4	41	-	EL9A
Potassium	mg/L	2.0	2.9	12	-	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 8/01/21



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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Environmental Analysis

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BELLINGENSHIRE COUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 20/2983
No. of SAMPLES: 1
DATE COLLECTED: 22/12/20
DATE RECEIVED: 22/12/20
TIME RECEIVED: 15:37
DATE TESTING COMMENCED:
22/12/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2983/1	RALEIGH SEDIMENT POND SAMPLE 7

ANALYSIS	UNITS	20/2983/1				METHOD NO
Total Suspended Solids	mg/L	20				APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 23/12/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

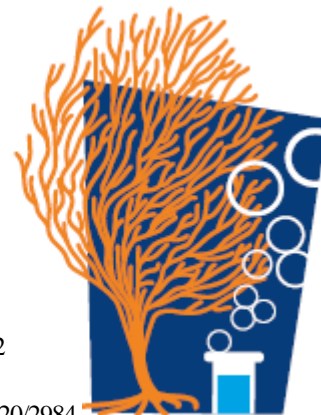
Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
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BELLINGEN NSW 2454

BATCHNUMBER: 20/2984
No. of SAMPLES: 20
DATE COLLECTED: 22/12/20
DATE RECEIVED: 22/12/20
TIME RECEIVED: 15:37
DATE TESTING COMMENCED:
22/12/20

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
20/2984/1	BSCRWF SAMPLE 1
20/2984/2	BSCRWF SAMPLE 2
20/2984/3	BSCRWF SAMPLE 3
20/2984/4	BSCRWF SAMPLE 4
20/2984/5	BSCRWF SAMPLE 5
20/2984/6	BSCRWF SAMPLE 6
20/2984/7	BSCRWF SAMPLE 7
20/2984/8	BSCRWF SAMPLE 8
20/2984/9	BSCRWF SAMPLE 9
20/2984/10	BSCRWF SAMPLE 10
20/2984/11	BSCRWF SAMPLE 11
20/2984/12	BSCRWF SAMPLE 12
20/2984/13	BSCRWF SAMPLE 13
20/2984/14	BSCRWF SAMPLE 14
20/2984/15	BSCRWF SAMPLE 15
20/2984/16	BSCRWF SAMPLE 16
20/2984/17	BSCRWF SAMPLE 17
20/2984/18	BSCRWF SAMPLE 18
20/2984/19	BSCRWF SAMPLE 19
20/2984/20	BSCRWF SAMPLE 20



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[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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ANALYSIS	UNITS	20/2984/1	20/2984/2	20/2984/3	20/2984/4	METHODNO
Total Suspended Solids	mg/L	2	8	17	18	APHA 2540 D

ANALYSIS	UNITS	20/2984/5	20/2984/6	20/2984/7	20/2984/8	METHODNO
Total Suspended Solids	mg/L	24	54	107	130	APHA 2540 D

ANALYSIS	UNITS	20/2984/9	20/2984/10	20/2984/11	20/2984/12	METHODNO
Total Suspended Solids	mg/L	208	297	336	434	APHA 2540 D

ANALYSIS	UNITS	20/2984/13	20/2984/14	20/2984/15	20/2984/16	METHODNO
Total Suspended Solids	mg/L	528	663	728	728	APHA 2540 D

ANALYSIS	UNITS	20/2984/17	20/2984/18	20/2984/19	20/2984/20	METHODNO
Total Suspended Solids	mg/L	954	1,008	1,120	1,316	APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 23/12/20



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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Environmental Analysis

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BELLINGENSHIRE COUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 21/0064
No. of SAMPLES: 3
DATE COLLECTED: 08/01/21
DATE RECEIVED: 08/01/21
TIME RECEIVED: 14:50
DATE TESTING COMMENCED:
08/01/21

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
21/0064/1	1 - UPSTREAM OF LANDFILL
21/0064/2	2 - WETLAND
21/0064/3	3 - SEDIMENT POND

ANALYSIS	UNITS	21/0064/1	21/0064/2	21/0064/3	METHOD NO
pH	pH unit	6.3	6.3	7.1	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	4	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	18	26	105	APHA 2320 B
Total Suspended Solids	mg/L	8	20	31	APHA 2540 D
Ammonia Nitrogen	mg/L	0.04	0.03	0.22	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.02	0.02	EL15F
Total Kjeldahl Nitrogen	mg/L	0.94	1.02	1.59	EL16F
Total Nitrogen	mg/L	0.94	1.04	1.64	EL30F
Calcium	mg/L	5.0	8.0	31	EL9A
Potassium	mg/L	1.9	2.5	11	EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 19/01/21

Approved:

Michael Nolan
Technical Officer



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRE COUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 21/0443
No. of SAMPLES: 5
DATE COLLECTED: 23/02/21
DATE RECEIVED: 23/02/21
TIME RECEIVED: 14:18
DATE TESTING COMMENCED:
23/02/21

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
21/0443/1	1 - UPSTREAM OF LANDFILL
21/0443/2	2 - WETLAND
21/0443/3	3 - SEDIMENT POND
21/0443/4	S1
21/0443/5	S2

ANALYSIS	UNITS	21/0443/1	21/0443/2	21/0443/3	21/0443/4	METHOD NO
pH	pH unit	6.3	6.4	7.2	7.2	APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	<2	3	3	-	APHA 5210 B
Alkalinity	mg CaCO ₃ /L	27	23	123	-	APHA 2320 B
Total Suspended Solids	mg/L	6	9	9	36	APHA 2540 D
Ammonia Nitrogen	mg/L	0.02	<0.02	1.09	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	<0.02	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.04	1.06	2.32	-	EL16F
Total Nitrogen	mg/L	1.04	1.06	2.35	-	EL30F
Calcium	mg/L	6.0	5.7	32	-	EL9A
Potassium	mg/L	1.7	2.0	9.8	-	EL9A



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[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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ANALYSIS	UNITS	21/0443/5				METHODNO
pH	pH unit	7.1				APHA 4500-H+ B
Biochem Oxygen Demand (BOD5)	mg/L	-				APHA 5210 B
Alkalinity	mg CaCO ₃ /L	-				APHA 2320 B
Total Suspended Solids	mg/L	30				APHA 2540 D
Ammonia Nitrogen	mg/L	-				EL13F
Nitrate Nitrogen	mg/L	-				EL15F
Total Kjeldahl Nitrogen	mg/L	-				EL16F
Total Nitrogen	mg/L	-				EL30F
Calcium	mg/L	-				EL9A
Potassium	mg/L	-				EL9A

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 1/03/21



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 21/0469
No. of SAMPLES: 3
DATE COLLECTED: 26/02/21
DATE RECEIVED: 26/02/21
TIME RECEIVED: 11:50
DATE TESTING COMMENCED:
26/02/21

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
21/0469/1	S3
21/0469/2	S4
21/0469/3	S5

ANALYSIS	UNITS	21/0469/1	21/0469/2	21/0469/3	METHOD NO
pH	pH unit	7.1	7.0	7.0	APHA 4500-H+B
Total Suspended Solids	mg/L	44	80	41	APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 1/03/21



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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COFFS HARBOUR LABORATORY

Environmental Analysis

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BELLINGENSHIRECOUNCIL
SAM TATE
P.O. BOX 117
BELLINGEN NSW 2454

BATCHNUMBER: 21/0540
No. of SAMPLES: 2
DATE COLLECTED: 04-05/03/21
DATE RECEIVED: 05/03/21
TIME RECEIVED: 15:07
DATE TESTING COMMENCED:
05/03/21

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
21/0540/1	S9 - 4/3/21
21/0540/2	S10 - 5/3/21

ANALYSIS	UNITS	21/0540/1	21/0540/2	METHOD NO
pH	pH unit	7.2	7.2	APHA 4500-H+ B
Total Suspended Solids	mg/L	27	27	APHA 2540 D

Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 11/03/21



Accredited for compliance with ISO/IEC 17025 - Testing
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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