

Drinking Water Quality Management Plan (DWQMP) report

For the financial year: 2018-2019

Scheme: LAKELAND

Cook Shire Council

SPID: 511

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COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Glossary of terms

ADWG 2011	Australian Drinking Water Guidelines (2011). Published by the National Health and Medical Research Council of Australia
<i>E. coli</i>	<i>Escherichia coli</i> , a bacterium which is considered to indicate the presence of faecal contamination and therefore potential health risk
mg/L	Milligrams per litre
µg/L	Micrograms per litre
NTU	Nephelometric Turbidity Units
HU	Hazen units
µS/cm	Micro Siemens per centimetre
MPN/100mL	Most probable number per 100 millilitres
CFU/100mL	Colony forming units per 100 millilitres
<	Less than
>	Greater than
NATA Lab	Accredited by the National Association of Testing Authorities of Australia. Cook Shire Council currently uses the Cairns Regional Council Laboratory as its NATA registered Lab.
CCP's	Critical Control Point
RMIP	Risk Management Improvement Program

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table of Contents

1. Introduction	4
2. Overview of Operations.....	4
3. Actions taken to implement the DWQMP	4
4. Compliance with water quality criteria for drinking water	6
Table 1 Location of sampling sites within Lakeland’s water reticulation network.	6
5. Notifications to the Regulator	6
6. Customer complaints related to water quality	6
7. DWQMP review outcomes	7
8. DWQMP audit findings	7
Appendix A – Summary of compliance with water quality criteria	8
Table 2A Lakeland Reticulation – Physical Chemical (NATA Lab).....	8
Table 2B Lakeland Reticulation – Metals (NATA Lab)	9
Table 2C Lakeland Reticulation – E.coli (CSC Annan WTP Lab plus NATA verification).....	10
Table 2D Lakeland Reticulation – Physical Chemical – (CSC Annan WTP Lab)	10
Table 2E Lakeland Reticulation – Trihalomethanes and Chlorates (NATA Lab)	11
Table 3A Lakeland Treated Water Final - Physical Chemical (NATA Lab).....	12
Table 3B Lakeland Treated Water Final – Metals – (NATA Lab).....	13
Table 3C Lakeland Treated Water Final – Free Chlorine – (On-line chlorine analyser).....	13
Table 3D Lakeland Treated Water Final – E.coli monitoring (CSC Annan WTP Lab plus NATA verification)	14
Table 4A Lakeland Raw Water - Physical Chemical (NATA Analysed)	15
Table 4B Lakeland Raw Water – Metals (NATA Analysed).....	16
Table 4C Lakeland Raw Water – E.coli monitoring (CSC Annan WTP Lab).....	17
Table 5 Reticulation <i>E. coli</i> 12 Month Rolling Average	18

1. Introduction

This is the Drinking Water Quality Management Plan (DWQMP) report for Cook Shire Council for the financial year 2018-2019 for the Lakeland Water Scheme.

Cook Shire Council is a registered service provider with identification (SPID) number 511. Cook Shire Council is operating under an approved DWQMP to ensure consistent supply of safe quality drinking water in order to protect public health. This is done through proactive identification and minimisation of public health risks associated with drinking water.

The DWQMP report includes:

- The activities undertaken over the financial year in operating our drinking water service
- Drinking water quality summary
- Summary of our performance in implementing our approved DWQMP

This report is submitted to the Regulator to fulfil our regulatory requirement, and is also made available to our customers through our website or for inspection upon request at Council office.

2. Overview of Operations

Lakeland's Water was sourced from 2 bores, 1 located within the Lakeland Compound (1/RP741362) and the 2nd being Army bore which is situated on the road reserve of the Peninsular Development Road.

Water is pumped from the bores to a ground level Reservoir and is chlorinated. Three pressure pumps are used to maintain pressure within the reticulation system.

Lakeland currently has 43 water connections:

- Residential – 63%
- Commercial/Industrial – 25%
- Council/Institutional -12%

3. Actions taken to implement the DWQMP

Water and Wastewater department staff meet fortnightly to discuss the department's operational issues. This provided an opportunity to refer to the approved DWQMP and emphasise the importance of using the plan. These meetings are chaired by the Manager of Water and Wastewater and the Team Leader.

Cook Shire Council has written a draft Drinking Water Policy in the 2018-19 financial year. This policy confirms Councils management of water quality through the on-going implementation of the DWQMP. Presentations on the DWQMP's were given to high level management and Councillors on the purpose and regulatory requirements of the 4 Cook Shire Council DWQMP's.

In the 2018-2019 financial year, Cook Shire has expanded the use of the SWIM database to incorporate the Task function. This is being used for as a program for recording calibration of equipment, safety requirements such as safety showers, maintenance of equipment such as fluoride analysers, running emergency generators and maintaining verification records for temperature for Colisure E. coli analysis.

On-going work has been done on Standard Operating Procedures. Training of staff in procedures is on-going. Individual actions taken for the Lakeland Water Scheme are listed in the table below.

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Scheme	Component	Improvement Action and Origin of Action	Target Date	Actions undertaken to date	Status and revised target date	Responsible officer
Lakeland	Water Supply	Water supply strategy for Lakeland going forward.	30 th June 2019	Investigation into a Water supply strategy in Lakeland including a new bore location in the future.	Not funded and not completed	Director Infrastructure Services
Lakeland	Water supply	SE and NE bores decommissioned. New bore required.	30 th June 2019	Funding application	Applying for funding in 2019/2020 FY	Manager
Lakeland	Raw Water	E.coli monitoring in raw water	30 th June 2019	Commenced E. coli monitoring in raw water.	On-going	Manager
Lakeland	Raw Water	Bore inspections	On-going	Bore inspections are part of hazard inspection of site and are done routinely every six months.	On-going	Manager
Lakeland	Reticulation	THM sampling	30 th June 2019	Commenced THM sampling	On-going	Manager
Lakeland	Reticulation	Replace valves for isolation of system	30 th June 2019	Valves have been replaced. This will allow areas of town to be isolated for repairs.	Complete	Manager
Lakeland	Army Bore	Possible contamination of Army bore from pesticide contamination (RMIP)	On-going	Continue to monitor army bore for pesticide contamination	On-going	Manager/ Team Leader

4. Compliance with water quality criteria for drinking water

All drinking water in Lakeland met the recommended values in the Australian Drinking Water Guidelines and the Public Health Regulation for E.coli.

The following results for Lakeland are in Appendix A:

Table 2A: Lakeland Reticulation – Physical Chemical (NATA Lab)
Table 2B: Lakeland Reticulation – Metals (NATA Lab)
Table 2C: Lakeland Reticulation – E.coli (Annan WTP and NATA Lab verification)
Table 2D: Lakeland Reticulation – Physical Chemical including free chlorine – (CSC Annan WTP Lab)
Table 2E: Lakeland Reticulation – Trihalomethanes and chlorates (NATA Lab)
Table 3A: Lakeland Treated Water Final – Physical Chemical (NATA Lab)
Table 3B: Lakeland Treated Water Final - Metals (NATA Lab)
Table 3C: Lakeland Treated Water Final – Free Chlorine – (CSC Annan WTP Lab and online analyser)
Table 3D: Lakeland Treated Water Final – E.coli (CSC Annan WTP plus NATA verification)
Table 4A: Lakeland Raw Water - Physical Chemical (NATA Lab)
Table 4B: Lakeland Raw Water - Metals (NATA Lab)
Table 4C: Lakeland Raw Water – E.coli monitoring (CSC Annan WTP Lab)
Table 5: Reticulation E. coli 12 Month Rolling Average

Note: results do not show < signs as SWIM reports do not pick them up.

Table 1 Location of sampling sites within Lakeland’s water reticulation network.

Sample Location Name	Street Name	Site Chosen Because	GPS Coordinates *
SES	Peninsular Development Road	Towards the end of the line	15°51'42.27"S - 144°51'21.53"E
MRD Depot	Cooktown Development Road	Ease of access, Central	15°51'32.22"S - 144°51'27.84"E
Lakeland Library	Sesame Street	Ease of access, Central	15°51'31.05"S - 144°51'18.66"E
Wash Down Bay	Peninsular Development Road	End of the Line	15°51'49.78"S - 144°51'28.11"E
Lakeland Lodge	Back Street	Northern end of Town	15°51'23.10"S - 144°51'19.75"E

All reticulation sampling for all parameters are collected from these fixed sites for the reasons listed.

5. Notifications to the Regulator

The Regulator was notified in 21 November 2018 due to a free chlorine reading of 5.2mg/L at the Lakeland Library. This was caused by a fault in the chlorine analyser. There were no other incidents in the 2018-2019 financial year where the Regulator needed to be notified.

6. Customer complaints related to water quality

There were no water quality complaints in the 2018-2019 financial year.

7. DWQMP review outcomes

An internal review of the DWQMP was done in the 2017-2018 financial year. Changes were made to the plan and the plan was approved on the 19/07/2018. Next review of the plan is due by 31 March 2020.

8. DWQMP audit findings

There was no audits on the DWQMP due in the 2018-2019 financial year. The next audit is due by 30 June 2021.

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Appendix A – Summary of compliance with water quality criteria

Table 2A Lakeland Reticulation – Physical Chemical (NATA Lab)

Date Sampled – 01/07/2018 – 30/06/2019									
Parameter	Unit	No of samples required to be collected	No of Samples collected	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG	
				Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Alkalinity	mg/L as CaCO ₃	4	4	230.0	270.0	250.0	-	-	-
Calcium	mg/L	4	4	29.0	32.0	30.3	-	-	-
Chloride	mg/L	4	4	77.0	81.0	78.0	< 250 mg/L	-	0
Colour	HU	4	4	1.0	1.0	1.0	< 15 HU	-	0
Electrical Conductance	µS/cm	4	4	670.0	810.0	722.5	-	-	-
Fluoride	mg/L	4	4	0.21	0.27	0.24	< 1.5 mg/L	0	-
Magnesium	mg/L	4	4	34.0	39.0	35.50	-	-	-
Ph	pH units	4	4	7.80	8.00	7.93	6.5-8.5	-	0
Potassium	mg/L	4	4	1.6	1.8	1.73	-	-	-
Salinity	mg/L	4	4	325	395	352	-	-	-
SAR		4	4	1.80	2.10	1.90	-	-	-
Sodium	mg/L	4	4	60.0	74.0	64.8	< 180 mg/L	-	0
Sulphate	mg/L	4	4	3.7	4.3	4.0	< 250 mg/L	0	0
Total Dissolved Solids	mg/L	4	4	410	480	432.5	< 600 mg/L	-	0
Total Hardness	mg/L as CaCO ₃	4	4	210.0	250.0	220.0	< 200 mg/L	-	5
Turbidity	NTU	4	4	0.1	0.5	0.2	< 5 NTU	-	0

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Table 2B Lakeland Reticulation – Metals (NATA Lab)

Date Sampled – 01/07/2018 – 30/06/2019									
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG	
				Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Arsenic	mg/L	4	4	0.001	0.001	0.001	0.01 mg/L	0	-
Barium	mg/L	4	4	0.012	0.012	0.012	< 2 mg/L	0	-
Beryllium	mg/L	4	4	0.0001	0.0010	0.0003	< 0.06 mg/L	0	-
Cadmium	mg/L	4	4	0.0001	0.0001	0.0001	< 0.002 mg/L	0	-
Chromium	mg/L	4	4	0.0002	0.0010	0.0005	< 0.05 mg/L	0	-
Cobalt	mg/L	4	4	0.0005	0.001	0.0006	-	-	-
Copper	mg/L	4	4	0.0130	0.0450	0.0178	< 2 mg/L	0	0
Iron	mg/L	4	4	0.0080	0.0100	0.0085	< 0.3 mg/L	-	0
Lead	mg/L	4	4	0.0010	0.0013	0.0012	< 0.01 mg/L	0	-
Manganese	mg/L	4	4	0.000	0.002	0.001	< 0.1 mg/L	0	0
Mercury	µg/L	4	4	0.06	0.06	0.06	<1.0 µg/L	0	-
Nickel	mg/L	4	4	0.0005	0.0010	0.0007	< 0.02 mg/L	0	-
Selenium	mg/L	4	4	0.0020	0.0050	0.0028	< 0.01 mg/L	0	-
Vanadium	mg/L	4	4	0.0190	0.0217	0.0204	-	-	-
Zinc	mg/L	4	4	0.0100	0.0330	0.0188	< 3.0 mg/L	-	0

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table 2C Lakeland Reticulation – E.coli (CSC Annan WTP Lab plus NATA verification)

Date Sampled – 01/07/2018 – 30/06/2019								
	Parameter	Sampling Location	Time Period	No of samples required to be taken	No of samples taken	No of samples with E.coli detected	Public Health Regulation standard (2018)	Laboratory
E.coli and Coliforms	E.coli – MPN/100ml	5 set Locations within the Lakeland Reticulation	01/07/18 – 30/06/19	52	50	0	0	Annan WTP
E.coli and Coliforms	E. coli cfu/100ml		01/07/18 – 30/06/19	4	4	0	0	Cairns Regional Council

Table 2D Lakeland Reticulation – Physical Chemical – (CSC Annan WTP Lab)

Date Sampled – 01/07/2018 – 30/06/2019						
Parameter	Unit	No of samples required to be collected	No of Samples collected	Summary of Results		
				Min. Value	Max. Value	Avg. Value
Free chlorine residual	mg/L	12	12	0.32	1.05	0.63
Colour	mg/L	12	12	0	4	0.33
Dissolved Oxygen	mg/L	12	12	5.44	7.70	6.31
Electrical Conductivity	mg/L	12	12	648.0	702.0	679.8
pH	mg/L	12	12	6.92	7.38	7.23
Turbidity	mg/L	12	12	0.07	0.79	0.25
Total Hardness	mg/L	12	12	195.0	280.0	217.60

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Table 2E Lakeland Reticulation – Trihalomethanes and Chlorates (NATA Lab)

Date Sampled – 01/07/2018 – 30/06/2019									
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG and WHO	
				Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Chloroform	µg/L	2	2	<5	<5	<5	<250 µg/L	0	
Bromodichloromethane	µg/L	2	2	<5	<5	<5	<250 µg/L	0	
Dibromochloromethane	µg/L	2	2	<5	10	8	< 250 mg/L	0	
Bromoform	µg/L	2	2	15	16	16	<250 µg/L	0	
Total Trihalomethanes	µg/L	2	2	15	26	21	<250 µg/L	0	
Chlorate	mg/L	2	3	0.204	0.368	0.309	<0.7 mg/L*	0	

- WHO provisional guideline.

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table 3A Lakeland Treated Water Final - Physical Chemical (NATA Lab)

Date Sampled – 01/07/2018 – 30/06/2019									
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG	
				Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Alkalinity	mg/L as CaCO ₃	4	4	230.0	250.0	240.0	-	-	-
Calcium	mg/L	4	4	29.0	31.0	29.8	-	-	-
Chloride	mg/L	4	4	71.0	78.0	75.0	< 250 mg/L	-	0
Colour	HU	4	4	1.0	1.5	1.1	< 15 HU	-	0
Electrical Conductance	µS/cm	4	4	680.0	710.0	692.5	-	-	-
Fluoride	mg/L	4	4	0.22	0.26	0.24	< 1.5 mg/L	0	-
Magnesium	mg/L	4	4	33.0	37.0	34.50	-	-	-
pH	pH units	4	4	7.90	8.20	8.03	6.5-8.5	-	0
Potassium	mg/L	4	4	1.70	1.80	1.78	-	-	-
Salinity	psu	4	4	328.0	342.0	333.0	-	-	-
SAR	SAR units	4	4	1.80	1.90	1.85	-	-	-
Sodium	mg/L	4	4	59.0	37.0	32.5	< 180 mg/L	-	0
Sulphate	mg/L	4	4	3.7	4.2	4.0	< 250 mg/L	0	0
Total Dissolved Solids	mg/L	4	4	410.0	420.0	413.3	< 600 mg/L	-	0
Total Hardness	mg/L as CaCO ₃	4	4	210.0	230.0	215.0	< 200 mg/L	-	4
Turbidity	NTU	4	4	0.1	0.7	0.3	< 5 - NTU	-	0

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table 3B Lakeland Treated Water Final – Metals – (NATA Lab)

Date Sampled – 01/07/2018 – 30/06/2019									
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG	
				Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Arsenic	mg/L	4	4	0.001	0.001	0.001	0.01 mg/L	0	-
Barium	mg/L	4	4	0.011	0.013	0.012	< 2 mg/L	0	-
Beryllium	mg/L	4	4	0.0001	0.0010	0.0003	< 0.06 mg/L	0	-
Cadmium	mg/L	4	4	0.0001	0.0010	0.0003	< 0.002 mg/L	0	-
Chromium	mg/L	4	4	0.0002	0.0010	0.0005	< 0.05 mg/L	0	-
Cobalt	mg/L	4	4	0.0005	0.0010	0.0006	-	-	-
Copper	mg/L	4	4	0.0050	0.0070	0.0055	< 2 mg/L	0	0
Iron	mg/L	4	4	0.0080	0.0100	0.0085	< 0.3 mg/L	-	0
Lead	mg/L	4	4	0.0005	0.0050	0.0018	< 0.01 mg/L	0	-
Manganese	mg/L	4	4	0.000	0.001	0.000	< 0.1 mg/L	0	0
Mercury	µg/L	4	4	0.06	0.10	0.07	<1.0 µg/L		
Nickel	mg/L	4	4	0.0005	0.0010	0.0006	< 0.02 mg/L	0	-
Selenium	mg/L	4	4	0.0020	0.0050	0.0028	< 0.01 mg/L	0	-
Vanadium	mg/L	4	4	0.0190	0.0217	0.0207	-	-	-
Zinc	mg/L	4	4	0.0050	0.0080	0.0073	< 3.0 mg/L	-	0

Table 3C Lakeland Treated Water Final – Free Chlorine – (On-line chlorine analyser)

Date Sampled – 01/07/2018 – 30/06/2019								
Parameter	Unit	No of Samples	Summary of Results			ADWQ Guidelines Value (2011)	No of Samples exceeding ADWG	
			Min. Value	Max. Value	Avg. Value		Health	Aesthetic
Free Chlorine Residual	mg/L	362	0.21	5.20	0.75	<5	1	-

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Table 3D Lakeland Treated Water Final – E.coli monitoring (CSC Annan WTP Lab plus NATA verification)

Date Sampled – 01/07/2018 – 30/06/2019								
	Parameter	Sampling Location	Time Period	No of samples required to be taken	No of samples taken	No of samples with E.coli detected	Public Health Regulation standard (2018)	Laboratory
E.coli and Coliforms	E.coli – MPN/100ml	Lakeland Water Treatment Plant	01/07/18 – 30/06/19	52	47	0	0	Annan WTP
E.coli and Coliforms	E. coli cfu/100ml	Lakeland Water Treatment Plant	01/07/18 – 30/06/19	4	4	0	0	Cairns Regional Council

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table 4A Lakeland Raw Water - Physical Chemical (NATA Analysed)

Date Sampled – 01/07/2018 – 30/06/2019						
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results		
				Min. Value	Max. Value	Avg. Value
Alkalinity	mg/L as CaCO ₃	4	4	210.0	240.0	227.5
Calcium	mg/L	4	4	25.0	31.0	28.0
Chloride	mg/L	4	4	53.0	75.0	67.5
Colour	HU	4	4	1.0	1.0	1.0
Electrical Conductance	µS/cm	4	4	570.0	720.0	652.5
Fluoride	mg/L	4	4	0.20	0.26	0.23
Magnesium	mg/L	4	4	28.0	36.0	32.5
pH	pH units	4	4	7.60	8.00	7.80
Potassium	mg/L	4	4	1.7	1.8	1.8
Salinity	psu	4	4	276.0	349.0	314.3
SAR	SAR units	4	4	1.60	1.80	1.70
Sodium	mg/L	4	4	50.0	64.0	57.3
Sulphate	mg/L	4	4	3.1	4.1	3.6
Total Dissolved Solids	mg/L	4	4	340.0	420.0	390.0
Total Hardness	mg/L as CaCO ₃	4	4	180.0	230.0	205.0
Turbidity	NTU	4	4	0.1	0.5	0.3

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Table 4B Lakeland Raw Water – Metals (NATA Analysed)

Date Sampled – 01/07/2018 – 30/06/2019						
Parameter	Unit	No of Samples required to be collected	No of Samples collected	Summary of Results		
				Min. Value	Max. Value	Avg. Value
Arsenic	mg/L	4	4	0.0008	0.0016	0.0012
Barium	mg/L	4	4	0.010	0.012	0.011
Beryllium	mg/L	4	4	0.0001	0.0010	0.0003
Cadmium	mg/L	4	4	0.0001	0.0001	0.0001
Chromium	mg/L	4	4	0.0002	0.0010	0.0005
Cobalt	mg/L	4	4	0.0005	0.0010	0.0006
Copper	mg/L	4	4	0.0060	0.0120	0.0093
Iron	mg/L	4	4	0.0080	0.0100	0.0085
Lead	mg/L	4	4	0.0005	0.0010	0.0008
Manganese	mg/L	4	4	0.000	0.001	0.001
Mercury	mg/L	4	4	0.06	0.06	0.06
Nickel	mg/L	4	4	0.0005	0.0053	0.0019
Selenium	mg/L	4	4	0.0020	0.0050	0.0028
Vanadium	mg/L	4	4	0.0156	0.0211	0.0191
Zinc	mg/L	4	4	0.0080	0.0200	0.0130

**COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN
ANNUAL REPORT**

Table 4C Lakeland Raw Water – E.coli monitoring (CSC Annan WTP Lab)

Date Sampled – 01/07/2018 – 30/06/2019								
	Parameter	Sampling Location	Time Period	Minimum	Maximum	Average	Number of samples taken	Laboratory
E.coli and Coliforms	E.coli – MPN/100ml	Lakeland Bores	01/07/18 – 30/06/19	0	43	6	23	Annan WTP

COOK SHIRE COUNCIL - DRINKING WATER QUALITY MANAGEMENT PLAN ANNUAL REPORT

Table 5 Reticulation *E. coli* 12 Month Rolling Average

Cook Shire Council - Lakeland Water												
Year	2018/2019											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
No. of samples collected	5	4	4	4	4	4	4	4	4	5	4	4
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	62	62	61	61	60	60	60	29	33	37	42	50
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
<u>CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE</u>												
<p>The <i>Public Health Regulation 2005</i> (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no <i>E. Coli</i>. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.</p>												
<p>This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).</p>												