

Drinking Water Quality Management Plan (DWQMP) report

2015/2016

NAPRANUM ABORIGINAL SHIRE COUNCIL

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Glossary of terms

ADWG 2004	Australian Drinking Water Guidelines (2004). Published by the National Health and Medical Research Council of Australia
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
HACCP	Hazard Analysis and Critical Control Points certification for protecting drinking water quality
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
MPN/100mL	Most probable number per 100 millilitres
CFU/100mL	Colony forming units per 100 millilitres
<	Less than
>	Greater than

1. Introduction

This report documents the performance of **NAPRANUM ABORIGINAL SHIRE COUNCIL** drinking water service with respect to water quality and performance in implementing the actions detailed in the drinking water quality management plan (DWQMP) as required under the *Water Supply (Safety and Reliability) Act 2008* (the Act).

The report assists the Regulator to determine whether the approved DWQMP and any approval conditions have been complied with and provides a mechanism for providers to report publicly on their performance in managing drinking water quality.

This template has been prepared in accordance with the *Water Industry Regulatory Reform – drinking water quality management plan report factsheet* published by the Department of Energy and Water Supply, Queensland, accessible at www.dews.qld.gov.au.

2. Overview of Operations (optional)

The **NAPRANUM Water Supply Scheme** sources water from the **2 BORES**. The treatment comprises of **PH adjustment**. Water is disinfected before reticulation.

3. Actions taken to implement the DWQMP

Council implemented operational verification monitoring program, As per approved Drinking water quality management program. P.H. and Chlorine is monitored on a daily basis, and E-coli is done on a weekly basis.

4. Compliance with water quality criteria for drinking water

Refer to app. A for water quality data.

5. Notifications to the Regulator under sections 102 and 102A of the Act

This financial year there were **zero** instances where the Regulator was notified under sections 102 or 102A of the Act.

No E. coli incidents this financial year.

6. Customer complaints related to water quality

Napranum Council is required to report on the number of complaints, general details of complaints, and the responses undertaken.

Throughout the year the following complaints about water quality were received:

Table 1 - complaints about water quality, (including per 1000 customers)

	Suspected Illness	Discoloured water	Taste and odour	Total
NAPRANUM WATER SUPPLY SCHEME	0	0	0	0
Scheme 2				
Scheme 3				
Scheme 4				
Scheme 5				
Scheme 6				
Total	0	0	0	0

7. Findings and recommendations of the DWQMP auditor.

Council did not have to undertake a regular audit in this financial year. The first regular audit of approved DWQMP is required to be conducted by 19 sept. 2017.

8. Outcome of the review of the DWQMP and how issues raised have been addressed

A regular review of the DWQMP was required to be conducted on sept. 19, 2015.

Regular review of the DWQMP was conducted Feb. 2016 and the updated plan was sent to the regulator in Aug. 2016.

The review was conducted by Ambrose Williams the ESO, and Siva Ratna the Works Manager.

The following changes were made in the plan. Change in population and verification monitoring program.

Appendix A – Summary of compliance with water quality criteria

The results from the verification monitoring program have been compared against the levels of the water quality criteria specified by the Regulator in the *Water Quality and Reporting Guideline for a Drinking Water Service*.

The reported statistics do not include results derived from repeat samples, or from emergency or investigative samples undertaken in response to an elevated result.

As per ADWG recommendations, the data could be presented per water quality monitoring zone. Additionally the 95th percentile statistic could be stated, but these aspects are beyond the minimum requirements in the annual report.

Double click to edit in Excel. Copy and paste table and caption for each scheme. The original Excel tool is accessible at www.dews.qld.gov.au.

Table 3 - Reticulation *E. coli* verification monitoring

Drinking water scheme: Napranum Aboriginal Shire Council

		2015/2016											
Year													
Month		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
No. of samples collected		20	20	20	20	20	20	20	20	20	20	20	20
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		20	40	60	80	100	120	140	160	180	200	220	240
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

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

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).

Appendix B – Implementation of the DWQMP Risk Management Improvement Program

Table 4 – Progress against the risk management improvement program in the approved DWQMP

Item No.	Scheme Component / Sub-component	Action(s)	Target date/s	Status as at <<date>>	(If implementing these actions will take longer than anticipated, please provide detail, as it may affect the approved DWQMP)
1	p.H. correction	Investigate operating bores 1 and 2 simultaneously at all times so that source water p.H is constant.	Dec. 2013	Completed July 2015	New ESO
2	Information and Data storage	Develop electronic record keeping	Dec. 2013	Completed July 2015	New ESO
3	e.g. Incident and emergency response	Formalise incident and emergency response DWQMP and undertake staff training.	Nov 2015	Incident and Emergency response completed.	Staff training is ongoing.
4	e.g. Reticulation	Flush mains on a schedule rather than ad-hoc. Schedule to be developed and included in operator task list.	Dec 2015	None	Mains are flushed quarterly now rather than ad-hoc.
5	Lack of written operating procedures	Develop written operating procedures as identified in the operation and maintenance procedure section.	June 2014	Completed Sept. 2015	New ESO